

Appendix C

Laboratory Reports, Fourth Quarter 2024

For additional help with the information provided in the laboratory reports, please contact Alison Schaffer, Arcadis Report Lead, at 303.471.3575.

October 15, 2024

Laura Madsen
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661
TEL: 1 720 344 3771
FAX:

Workorder No.: N069108

RE: PG&E Topock - RCM, 30211191

Attention: Laura Madsen

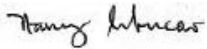
Enclosed are the results for sample(s) received on October 09, 2024 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

The reported results relate only to the samples as received and parameters tested by the laboratory.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,



Nancy Sibucan
Laboratory Director

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CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - RCM, 30211191
Lab Order: N069108

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.



CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - RCM, 30211191
Lab Order: N069108
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N069108-001A	C-R27-S-1024	Surface Water	10/9/2024 8:31:00 AM	10/9/2024	10/15/2024
N069108-001B	C-R27-S-1024	Surface Water	10/9/2024 8:31:00 AM	10/9/2024	10/15/2024



ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 15-Oct-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069108
Project: PG&E Topock - RCM, 30211191
Lab ID: N069108-001

Client Sample ID: C-R27-S-1024
Collection Date: 10/9/2024 8:31:00 AM
Matrix: SURFACE WATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241010A	QC Batch: R194172			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	10/10/2024 03:11 PM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069108
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID MB-R194172	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194172							
Client ID: PBW	Batch ID: R194172	TestNo: EPA 218.6		Analysis Date: 10/10/2024	SeqNo: 6225735							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.039	0.20									

Sample ID LCS-R194172	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194172							
Client ID: LCSW	Batch ID: R194172	TestNo: EPA 218.6		Analysis Date: 10/10/2024	SeqNo: 6225736							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.894	0.039	0.20	5.000	0	97.9	90	110				

Sample ID N069064-005AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194172							
Client ID: ZZZZZ	Batch ID: R194172	TestNo: EPA 218.6		Analysis Date: 10/10/2024	SeqNo: 6225748							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.039	0.039	0.20	1.000	0	104	90	110				

Sample ID N069065-011AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194172							
Client ID: ZZZZZ	Batch ID: R194172	TestNo: EPA 218.6		Analysis Date: 10/10/2024	SeqNo: 6225750							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.946	0.039	0.20	1.000	0	94.6	90	110				

Sample ID N069065-012AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194172							
Client ID: ZZZZZ	Batch ID: R194172	TestNo: EPA 218.6		Analysis Date: 10/10/2024	SeqNo: 6225752							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.067	0.039	0.20	1.000	0	107	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069108
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069068-010ADUP	SampType: DUP	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194172							
Client ID: ZZZZZ	Batch ID: R194172	TestNo: EPA 218.6		Analysis Date: 10/10/2024	SeqNo: 6225754							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	6.456	0.039	0.20						6.400	0.870	20	

Sample ID N069105-006AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194172							
Client ID: ZZZZZ	Batch ID: R194172	TestNo: EPA 218.6		Analysis Date: 10/10/2024	SeqNo: 6225758							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	3.615	0.039	0.20	1.000	2.594	102	90	110				

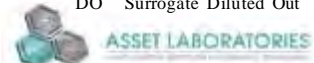
Sample ID N069105-009AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194172							
Client ID: ZZZZZ	Batch ID: R194172	TestNo: EPA 218.6		Analysis Date: 10/10/2024	SeqNo: 6225760							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	6.112	0.19	1.0	5.000	1.332	95.6	90	110				

Sample ID N069105-009AMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194172							
Client ID: ZZZZZ	Batch ID: R194172	TestNo: EPA 218.6		Analysis Date: 10/10/2024	SeqNo: 6225761							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	6.118	0.19	1.0	5.000	1.332	95.7	90	110	6.112	0.0899	20	

Sample ID N069108-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194172							
Client ID: ZZZZZ	Batch ID: R194172	TestNo: EPA 218.6		Analysis Date: 10/10/2024	SeqNo: 6225763							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.065	0.039	0.20	1.000	0	107	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| (M) Test is modified | | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069108
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069105-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194172							
Client ID: ZZZZZ	Batch ID: R194172	TestNo: EPA 218.6		Analysis Date: 10/10/2024	SeqNo: 6225767							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	15.430	0.19	1.0	5.000	10.55	97.6	90	110
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Sample ID N069105-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194172							
Client ID: ZZZZZ	Batch ID: R194172	TestNo: EPA 218.6		Analysis Date: 10/10/2024	SeqNo: 6225771							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.850	0.19	1.0	5.000	0	97.0	90	110
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Sample ID N069105-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194172							
Client ID: ZZZZZ	Batch ID: R194172	TestNo: EPA 218.6		Analysis Date: 10/10/2024	SeqNo: 6225773							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.910	0.19	1.0	5.000	0	98.2	90	110
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Sample ID N069105-004AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194172							
Client ID: ZZZZZ	Batch ID: R194172	TestNo: EPA 218.6		Analysis Date: 10/10/2024	SeqNo: 6225775							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.094	0.19	1.0	5.000	0	102	90	110
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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ANALYTICAL RESULTS

Print Date: 15-Oct-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069108
Project: PG&E Topock - RCM, 30211191
Lab ID: N069108-001

Client Sample ID: C-R27-S-1024
Collection Date: 10/9/2024 8:31:00 AM
Matrix: SURFACE WATER

Table with 8 columns: Analyses, Result, MDL, PQL, Qual, Units, DF, Date Analyzed

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

Table with 7 columns: RunID, QC Batch, PrepDate, Analyst, and two columns for Result/MDL/PQL/Qual/Units/DF/Date Analyzed for Arsenic and Manganese.

Table with 2 columns: Qualifiers and their descriptions (B, H, S, DO, E, ND, Results are wet unless otherwise specified, (M)).



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069108
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID MB-113188	SampType: MBLK	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/10/2024	RunNo: 194278							
Client ID: PBW	Batch ID: 113188	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/14/2024	SeqNo: 6232565							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.067	0.10									
Manganese	ND	0.046	0.50									

Sample ID LCS-113188	SampType: LCS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/10/2024	RunNo: 194278							
Client ID: LCSW	Batch ID: 113188	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/14/2024	SeqNo: 6232566							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.358	0.067	0.10	10.00	0	104	85	115				
Manganese	101.464	0.046	0.50	100.0	0	101	85	115				

Sample ID N069105-009CMS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/10/2024	RunNo: 194278							
Client ID: ZZZZZ	Batch ID: 113188	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/14/2024	SeqNo: 6232579							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	13.839	0.067	0.10	10.00	2.563	113	75	125				

Sample ID N069105-009CMSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/10/2024	RunNo: 194278							
Client ID: ZZZZZ	Batch ID: 113188	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/14/2024	SeqNo: 6232580							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	13.575	0.067	0.10	10.00	2.563	110	75	125	13.84	1.92	20	

Sample ID N069105-009CMS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/10/2024	RunNo: 194278							
Client ID: ZZZZZ	Batch ID: 113188	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/14/2024	SeqNo: 6232593							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	374.830	0.46	5.0	100.0	291.8	83.0	75	125				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

Calculations are based on raw values

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Work Order: N069108
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID N069105-009CMSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/10/2024	RunNo: 194278							
Client ID: ZZZZZZ	Batch ID: 113188	TestNo: EPA 6020	EPA 3010A	Analysis Date: 10/14/2024	SeqNo: 6232594							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	405.233	0.46	5.0	100.0	291.8	113	75	125	374.8	7.80	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069108
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID N069105-009C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278							
Client ID: ZZZZZ	Batch ID: 113188	TestNo: EPA 6020	EPA 3010A	Analysis Date: 10/14/2024	SeqNo: 6232578							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	13.804	0.067	0.10	10.00	2.563	112	80	120				

Sample ID N069105-009C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278							
Client ID: ZZZZZ	Batch ID: 113188	TestNo: EPA 6020	EPA 3010A	Analysis Date: 10/14/2024	SeqNo: 6232592							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	1307.016	0.46	5.0	1000	291.8	102	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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ICP-MS-Metals in Water

Work Order No.: N069108 / N069105
Test Method: EPA 6020
Analysis Date: 10/14/2024

Dilution Test Summary

Matrix: Surface Water
Batch No.: 113188

Instrument ID: NV00922-ICP8 (ICPMS-03)
Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069105-009C DT 5x	Arsenic	As	µg/L	2.383149	PASS	2.563119	7.02%	10
N069105-009C DT 5x	Barium	Ba	µg/L	55.85309	PASS	54.46761	2.54%	10
N069105-009C DT 50x	Manganese	Mn	µg/L	296.9974	PASS	291.7878	1.79%	10

Nancy 10/10/2024

Note: NA - Not Applicable

10/15/24 18:48

N069108_6020_113188_DT



ASSET LABORATORIES

ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CHAIN OF CUSTODY RECORD

ARCUS02
 FOLDER
N069108-002A

C: 10/11/202 12:00 AM
 R: 10/9/2024
 1 of 1

Client: Arcadis		Report to: Laura Madsen		Bill to: Janet Newman		EDD Requirements	
Address: 630 Plaza Dr		Company: Arcadis		Address:		Excel EDD	
Address: Highlands Ranch, CO 80129		Email: laura.madsen@arcadis.com		Address:		GeoTracker	
Phone: 916-786-3302		Address:		Email to: janet.newman@arcadis.com		LabSpec	
Submitted By: <i>Riggie T.</i>		Phone: 720.344.3771		Fax:		Others	
Title: <i>Field Tech</i>		Sampled By: <i>Riggie T.</i>		Date: 10/09/24		Specify: RWQCB	
Signature: <i>[Signature]</i>		Date: 10/09/24		I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for		Global ID:	
Project Name: PG&E Topock - RCM		Signature: <i>[Signature]</i>		Date: 10/09/24		Specify State:	
Project Number: 30211191		Ground		Sediment		6. Method of Cooling: <i>Ice</i>	

Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Matrix				Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH	Nitrate (EPA, 300.0)	Dissolved metals (SW6020) FF: HNO3 Arsenic, Manganese	Dissolved metals (SW6020) FF: HNO3 Total Dissolved Chromium,	Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
						250 mL poly	1L poly	500mL poly	500mL poly									
1	N069108-001	✓ C-R27-S-1024	10/9/2024	8:31		X					X			C	2	P	BN	
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		

Relinquished by (Signature and Printed Name): <i>Riggie T.</i> Date/Time: 10/09/24 1546	Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: 10/09/24 1546	Turn Around Time (TAT) <input type="checkbox"/> A < 24 Hrs or Same Day TAT <input type="checkbox"/> B = Next Workday <input checked="" type="checkbox"/> C = 2 Workdays <input type="checkbox"/> D = 3 Workdays <input type="checkbox"/> E = Routine 5-7 Workdays	Special Instruction:
Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: 10/09/24 1804	Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: 10/09/24 1804		
Relinquished by (Signature and Printed Name):	Relinquished by (Signature and Printed Name):		

<p>Terms</p> <p>1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.</p> <p>2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis.</p> <p>3. Less than 24 Hrs = 200%, Next Day = 100%, 2 Workdays = 50%, 3 Workdays = 35%, 4 Workdays = 20%.</p> <p>4. Custom EDD formats will be an additional 3% of the total project price.</p> <p>5. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project.</p>				<p>5. Trip Blanks and Equipment Blanks are billable sample.</p> <p>6. Asset Laboratories is not responsible for samples collected using incorrect methodology.</p> <p>7. Terms are net 30 days.</p> <p>8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.</p> <p>9. For subcontract analysis, TAT and Surcharges will vary.</p>																				
<p>Preservatives:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>H=HCL</td> <td>N=HNO3</td> <td>S=H2SO4</td> <td>C=4°C</td> </tr> <tr> <td>Z=Zn(AC)2</td> <td>O=NaOH</td> <td>T=Na2S2O3</td> <td></td> </tr> </table>				H=HCL	N=HNO3	S=H2SO4	C=4°C	Z=Zn(AC)2	O=NaOH	T=Na2S2O3		<p>Container Type:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>T=Tube</td> <td>V=VOA</td> <td>P=Pint</td> </tr> <tr> <td>J=Jar</td> <td>B=Tedlar</td> <td>G=Glass</td> </tr> <tr> <td>M=Metal</td> <td>M=Metal</td> <td>C=Can</td> </tr> </table>				T=Tube	V=VOA	P=Pint	J=Jar	B=Tedlar	G=Glass	M=Metal	M=Metal	C=Can
H=HCL	N=HNO3	S=H2SO4	C=4°C																					
Z=Zn(AC)2	O=NaOH	T=Na2S2O3																						
T=Tube	V=VOA	P=Pint																						
J=Jar	B=Tedlar	G=Glass																						
M=Metal	M=Metal	C=Can																						

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On: 10/9/2024 Workorder: N069108
 Rep sample Temp (Deg C): 2.6 IR Gun ID: 4
 Temp Blank: Yes No
 Carrier name: ASSET
 Last 4 digits of Tracking No.: NA Packing Material Used: None
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

- | | | | |
|---|--|--|--|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 14. Water - pH acceptable upon receipt?
Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 15. Did the bottle labels indicate correct preservatives used? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 16. Were there Non-Conformance issues at login?
Was Client notified? | Yes <input type="checkbox"/>
Yes <input type="checkbox"/> | No <input type="checkbox"/>
No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>
NA <input checked="" type="checkbox"/> |

Comments:

Checklist Completed By: EF *Efanegof* 10/10/2024

Reviewed By: for: *J. Mayhew* MBC10/11/2024

ASSET Laboratories

WORK ORDER Summary

10-Oct-24

WorkOrder: N069108

Client ID: ARCUS02

Project: PG&E Topock - RCM, 30211191

QC Level: Level IV

Date Received: 10/9/2024 6:04 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N069108-001A	C-R27-S-1024	10/9/2024 8:31:00 AM	10/11/2024	Surface Water	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069108-001B			10/11/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/11/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069108-002A	FOLDER	10/11/2024	10/11/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			10/11/2024		Folder	Level IV Report	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			10/11/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

ARCADIS

Project: PG&E Topock - PCM

Project No.: 30211191

ASSET Laboratories Work Order:

N069109

ANALYTICAL and QC RESULTS SAMPLE RECEIVING ITEMS

PRIVILEGED AND CONFIDENTIAL



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October 28, 2024

Laura Madsen
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661
TEL: 1 720 344 3771
FAX:

Workorder No.: N069109

RE: PG&E Topock - PCM, 30211191

Attention: Laura Madsen

Enclosed are the results for sample(s) received on October 09, 2024 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

The reported results relate only to the samples as received and parameters tested by the laboratory.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,



Nancy Sibucan
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - Las Vegas.



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CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30211191
Lab Order: N069109

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 300:

Dilution was necessary due to precipitation upon addition of eluent.



CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30211191
Lab Order: N069109
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N069109-001A	MW-905-Q424	Groundwater	10/9/2024 1:21:00 PM	10/9/2024	10/28/2024
N069109-001B	MW-905-Q424	Groundwater	10/9/2024 1:21:00 PM	10/9/2024	10/28/2024
N069109-001C	MW-905-Q424	Groundwater	10/9/2024 1:21:00 PM	10/9/2024	10/28/2024
N069109-002A	PT6D-1024	Groundwater	10/9/2024 1:11:00 PM	10/9/2024	10/28/2024
N069109-002B	PT6D-1024	Groundwater	10/9/2024 1:11:00 PM	10/9/2024	10/28/2024
N069109-002C	PT6D-1024	Groundwater	10/9/2024 1:11:00 PM	10/9/2024	10/28/2024
N069109-003A	EB-706-Q424	Groundwater	10/9/2024 2:00:00 PM	10/9/2024	10/28/2024



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ANALYTICAL RESULTS

Print Date: 28-Oct-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069109
Project: PG&E Topock - PCM, 30211191
Lab ID: N069109-001

Client Sample ID: MW-905-Q424
Collection Date: 10/9/2024 1:21:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241010B	QC Batch: R194173			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	10/10/2024 10:40 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 28-Oct-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069109
Project: PG&E Topock - PCM, 30211191
Lab ID: N069109-002

Client Sample ID: PT6D-1024
Collection Date: 10/9/2024 1:11:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241010B	QC Batch: R194173			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	10/10/2024 10:59 PM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 28-Oct-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069109
Project: PG&E Topock - PCM, 30211191
Lab ID: N069109-003

Client Sample ID: EB-706-Q424
Collection Date: 10/9/2024 2:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241010B	QC Batch: R194173	PrepDate:	Analyst: RAB			
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	10/10/2024 11:37 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID MB-R194173	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194173							
Client ID: PBW	Batch ID: R194173	TestNo: EPA 218.6		Analysis Date: 10/10/2024	SeqNo: 6225784							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.039	0.20									

Sample ID LCS-R194173	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194173							
Client ID: LCSW	Batch ID: R194173	TestNo: EPA 218.6		Analysis Date: 10/10/2024	SeqNo: 6225785							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.906	0.039	0.20	5.000	0	98.1	90	110				

Sample ID N069103-006AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194173							
Client ID: ZZZZZ	Batch ID: R194173	TestNo: EPA 218.6		Analysis Date: 10/10/2024	SeqNo: 6225787							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.141	0.039	0.20	1.000	0.1303	101	90	110				

Sample ID N069103-006AMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194173							
Client ID: ZZZZZ	Batch ID: R194173	TestNo: EPA 218.6		Analysis Date: 10/10/2024	SeqNo: 6225790							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.159	0.039	0.20	1.000	0.1303	103	90	110	1.141	1.54	20	

Sample ID N069103-011ADUP	SampType: DUP	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194173							
Client ID: ZZZZZ	Batch ID: R194173	TestNo: EPA 218.6		Analysis Date: 10/10/2024	SeqNo: 6225792							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.659	0.039	0.20						1.646	0.787	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069105-010AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194173							
Client ID: ZZZZZZ	Batch ID: R194173	TestNo: EPA 218.6		Analysis Date: 10/10/2024	SeqNo: 6225794							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	43.886	0.19	1.0	25.00	19.70	96.7	90	110				
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Sample ID N069105-013AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194173							
Client ID: ZZZZZZ	Batch ID: R194173	TestNo: EPA 218.6		Analysis Date: 10/10/2024	SeqNo: 6225798							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	2.709	0.039	0.20	1.000	1.639	107	90	110				
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Sample ID N069105-014AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194173							
Client ID: ZZZZZZ	Batch ID: R194173	TestNo: EPA 218.6		Analysis Date: 10/10/2024	SeqNo: 6225800							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	1.050	0.039	0.20	1.000	0	105	90	110				
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Sample ID N069104-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194173							
Client ID: ZZZZZZ	Batch ID: R194173	TestNo: EPA 218.6		Analysis Date: 10/10/2024	SeqNo: 6225802							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	1.747	0.039	0.20	1.000	0.7425	100	90	110				
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Sample ID N069109-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194173							
Client ID: ZZZZZZ	Batch ID: R194173	TestNo: EPA 218.6		Analysis Date: 10/10/2024	SeqNo: 6225804							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	0.970	0.039	0.20	1.000	0	97.0	90	110				
---------------------	-------	-------	------	-------	---	------	----	-----	--	--	--	--

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| (M) Test is modified | | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069109-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194173							
Client ID: ZZZZZZ	Batch ID: R194173	TestNo: EPA 218.6	Analysis Date: 10/10/2024	SeqNo: 6225808								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.952	0.039	0.20	1.000	0	95.2	90	110				

Sample ID N069109-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194173							
Client ID: ZZZZZZ	Batch ID: R194173	TestNo: EPA 218.6	Analysis Date: 10/10/2024	SeqNo: 6225810								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.010	0.039	0.20	1.000	0	101	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069109
Project: PG&E Topock - PCM, 30211191
Lab ID: N069109-001

Client Sample ID: MW-905-Q424
Collection Date: 10/9/2024 1:21:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241010A	QC Batch: R194135				PrepDate:		Analyst: RAB
Sulfate	380	17	25		mg/L	50	10/10/2024 10:41 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241010A	QC Batch: R194135				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	10/10/2024 03:31 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069109
Project: PG&E Topock - PCM, 30211191
Lab ID: N069109-002

Client Sample ID: PT6D-1024
Collection Date: 10/9/2024 1:11:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241010A	QC Batch: R194135				PrepDate:		Analyst: RAB
Sulfate	380	17	25		mg/L	50	10/10/2024 10:57 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241010A	QC Batch: R194135				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	10/10/2024 04:19 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID	MB-R194135_SO4	SampType:	MBLK	TestCode:	300_W_SO4P	Units:	mg/L	Prep Date:		RunNo:	194135			
Client ID:	PBW	Batch ID:	R194135	TestNo:	EPA 300.0			Analysis Date:	10/10/2024	SeqNo:	6223830			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		0.433		0.34	0.50									

Sample ID	LCS-R194135_SO4	SampType:	LCS	TestCode:	300_W_SO4P	Units:	mg/L	Prep Date:		RunNo:	194135			
Client ID:	LCSW	Batch ID:	R194135	TestNo:	EPA 300.0			Analysis Date:	10/10/2024	SeqNo:	6223831			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		4.106		0.34	0.50	4.000	0	103	90	110				

Sample ID	N069105-009BMS	SampType:	MS	TestCode:	300_W_SO4P	Units:	mg/L	Prep Date:		RunNo:	194135			
Client ID:	ZZZZZ	Batch ID:	R194135	TestNo:	EPA 300.0			Analysis Date:	10/10/2024	SeqNo:	6223837			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		1156.780		34	50	400.0	778.3	94.6	80	120				

Sample ID	N069105-009BMSD	SampType:	MSD	TestCode:	300_W_SO4P	Units:	mg/L	Prep Date:		RunNo:	194135			
Client ID:	ZZZZZ	Batch ID:	R194135	TestNo:	EPA 300.0			Analysis Date:	10/10/2024	SeqNo:	6223838			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		1148.420		34	50	400.0	778.3	92.5	80	120	1157	0.725	20	

Sample ID	N069105-001BDUP	SampType:	DUP	TestCode:	300_W_SO4P	Units:	mg/L	Prep Date:		RunNo:	194135			
Client ID:	ZZZZZ	Batch ID:	R194135	TestNo:	EPA 300.0			Analysis Date:	10/10/2024	SeqNo:	6223840			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		990.330		34	50						1013	2.22	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID N069105-001BMS	SampType: MS	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 194135							
Client ID: ZZZZZZ	Batch ID: R194135	TestNo: EPA 300.0	Analysis Date: 10/10/2024	SeqNo: 6223841								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	1382.140	34	50	400.0	1013	92.4	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID N069105-009BMSD	SampType: MSD	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194135							
Client ID: ZZZZZZ	Batch ID: R194135	TestNo: EPA 300.0	Analysis Date: 10/10/2024	SeqNo: 6223802								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	12.094	0.24	0.50	12.50	0	96.8	80	120	12.08	0.132	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |



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ANALYTICAL RESULTS

Print Date: 28-Oct-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069109
Project: PG&E Topock - PCM, 30211191
Lab ID: N069109-001

Client Sample ID: MW-905-Q424
Collection Date: 10/9/2024 1:21:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP4_241010F	QC Batch: 113178			PrepDate:	10/10/2024	Analyst: DJ	
Iron	ND	5.8	20		µg/L	1	10/10/2024 08:12 PM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 28-Oct-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069109
Project: PG&E Topock - PCM, 30211191
Lab ID: N069109-002

Client Sample ID: PT6D-1024
Collection Date: 10/9/2024 1:11:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP4_241010F	QC Batch: 113178			PrepDate:	10/10/2024	Analyst: DJ	
Iron	23	5.8	20		µg/L	1	10/10/2024 08:14 PM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID MB-113178	SampType: MBLK	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 10/10/2024	RunNo: 194154							
Client ID: PBW	Batch ID: 113178	TestNo: EPA 6010B EPA 3010A		Analysis Date: 10/10/2024	SeqNo: 6224959							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	ND	5.8	20									

Sample ID LCS-113178	SampType: LCS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 10/10/2024	RunNo: 194154							
Client ID: LCSW	Batch ID: 113178	TestNo: EPA 6010B EPA 3010A		Analysis Date: 10/10/2024	SeqNo: 6224950							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	104.760	5.8	20	100.0	0	105	85	115				

Sample ID N069105-009CMS	SampType: MS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 10/10/2024	RunNo: 194154							
Client ID: ZZZZZ	Batch ID: 113178	TestNo: EPA 6010B EPA 3010A		Analysis Date: 10/10/2024	SeqNo: 6224967							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	314.440	5.8	20	100.0	201.5	113	75	125				

Sample ID N069105-009CMSD	SampType: MSD	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 10/10/2024	RunNo: 194154							
Client ID: ZZZZZ	Batch ID: 113178	TestNo: EPA 6010B EPA 3010A		Analysis Date: 10/10/2024	SeqNo: 6224968							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	305.290	5.8	20	100.0	201.5	104	75	125	314.4	2.95	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

Calculations are based on raw values



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID	N069105-009C-PS	SampType:	PS	TestCode:	6010_WDPG	Units:	µg/L	Prep Date:		RunNo:	194154			
Client ID:	ZZZZZZ	Batch ID:	113178	TestNo:	EPA 6010B EPA 3010A			Analysis Date:	10/10/2024	SeqNo:	6224966			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron		307.700		5.8	20	100.0	201.5	106	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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ICP-Metals in Water

Work Order No.: N069109
Test Method: EPA 6010B
Analysis Date: 10/10/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 113178

Instrument ID: NV00922-ICP4
Instrument Description: Agilent 5800VDV

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Fe. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069105-009C DT 5x	Iron	Fe	µg/L	192.45	NA	201.47	4.48%	10

REVIEWED BY:



10/28/2024

Note: NA - Not Applicable

10/28/24 19:52

N069109_6010B_113178_DT

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 28-Oct-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069109
Project: PG&E Topock - PCM, 30211191
Lab ID: N069109-001

Client Sample ID: MW-905-Q424
Collection Date: 10/9/2024 1:21:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241014B	QC Batch:	113188	PrepDate:	10/10/2024	Analyst:	DJ
Arsenic	0.98	0.067	0.10	µg/L	1	10/14/2024	09:30 PM
Barium	39	0.050	1.0	µg/L	1	10/14/2024	09:30 PM
Manganese	5.1	0.046	0.50	µg/L	1	10/14/2024	09:30 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 28-Oct-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069109
Project: PG&E Topock - PCM, 30211191
Lab ID: N069109-002

Client Sample ID: PT6D-1024
Collection Date: 10/9/2024 1:11:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241014B	QC Batch: 113188			PrepDate: 10/10/2024		Analyst: DJ	
Arsenic	1.3	0.067	0.10	µg/L	1	10/14/2024 09:34 PM	
Barium	33	0.050	1.0	µg/L	1	10/14/2024 09:34 PM	
Manganese	12	0.046	0.50	µg/L	1	10/14/2024 09:34 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID MB-113188	SampType: MBLK	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/10/2024	RunNo: 194278							
Client ID: PBW	Batch ID: 113188	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/14/2024	SeqNo: 6232565							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.067	0.10									
Barium	ND	0.050	1.0									
Manganese	ND	0.046	0.50									

Sample ID LCS-113188	SampType: LCS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/10/2024	RunNo: 194278							
Client ID: LCSW	Batch ID: 113188	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/14/2024	SeqNo: 6232566							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	10.358	0.067	0.10	10.00	0	104	85	115				
Barium	10.916	0.050	1.0	10.00	0	109	85	115				
Manganese	101.464	0.046	0.50	100.0	0	101	85	115				

Sample ID N069105-009CMS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/10/2024	RunNo: 194278							
Client ID: ZZZZZ	Batch ID: 113188	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/14/2024	SeqNo: 6232579							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	13.839	0.067	0.10	10.00	2.563	113	75	125				
Barium	62.301	0.050	1.0	10.00	54.47	78.3	75	125				

Sample ID N069105-009CMSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/10/2024	RunNo: 194278							
Client ID: ZZZZZ	Batch ID: 113188	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/14/2024	SeqNo: 6232580							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	13.575	0.067	0.10	10.00	2.563	110	75	125	13.84	1.92	20	
Barium	62.105	0.050	1.0	10.00	54.47	76.4	75	125	62.30	0.316	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID N069105-009CMS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/10/2024	RunNo: 194278							
Client ID: ZZZZZZ	Batch ID: 113188	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/14/2024	SeqNo: 6232593							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	374.830	0.46	5.0	100.0	291.8	83.0	75	125				

Sample ID N069105-009CMSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/10/2024	RunNo: 194278							
Client ID: ZZZZZZ	Batch ID: 113188	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/14/2024	SeqNo: 6232594							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	405.233	0.46	5.0	100.0	291.8	113	75	125	374.8	7.80	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID N069105-009C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278							
Client ID: ZZZZZZ	Batch ID: 113188	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/14/2024	SeqNo: 6232578							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	13.804	0.067	0.10	10.00	2.563	112	80	120				
Barium	63.113	0.050	1.0	10.00	54.47	86.5	80	120				

Sample ID N069105-009C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278							
Client ID: ZZZZZZ	Batch ID: 113188	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/14/2024	SeqNo: 6232592							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	1307.016	0.46	5.0	1000	291.8	102	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N069109
Test Method: EPA 6020
Analysis Date: 10/14/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 113188

Instrument ID: NV00922-ICP8 (ICPMS-03)
Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069105-009C DT 5x	Arsenic	As	µg/L	2.383149	PASS	2.563119	7.02%	10
N069105-009C DT 5x	Barium	Ba	µg/L	55.85309	PASS	54.46761	2.54%	10
N069105-009C DT 50x	Manganese	Mn	µg/L	296.9974	PASS	291.7878	1.79%	10

REVIEWED BY:



10/28/2024

Note: NA - Not Applicable

10/28/24 18:02

N069109_6020_113188_DT

SAMPLE RECEIVING ITEMS



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CHAIN OF CUSTODY RECORD

Page 1 of 1

ARCUS02
FOLDER
N069109-004A
C: 10/24/202 12:00 AM
R: 10/9/2024
1 of 1



Client: Arcadis		Report to: Laura Madsen		Bill to: Janet Newman		EDD Requirements:	
Address: 630 Plaza Dr, Suite 200		Company: Arcadis		Address:		Excel EDD	
Address: Highlands Ranch, CO 80129		Email: laura.madsen@arcadis.com		Address:		Geotracker	
Phone: 720-344-3500		Address:		Email to: janet.newman@arcadis.com		Labspec	
Fax:		Address:		P.O.#		Others	
Submitted By: Riggie T.		Phone: 949 293-2445		Fax:		Specify: RWQCB	
Title: Field Tech		Phone: 720-344-3771		Fax:		Global ID:	
Signature: [Signature]		Date: 10/09/24		Sampled By: Riggie T.		Regulatory	
I hereby authorize ASSET Labs to perform the tests indicated below.		I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for		Matrix		Specify State:	

Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Matrix										Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
						Ground	X Sediment	250 mL poly	1 L poly	500mL poly	500mL poly	500mL poly	3x40 mL VOA	125 mL poly	1 L poly					
1	N069109-001	MW-905-Q424	10/9/2024	13:21		X	X	X										E 3 P BNS		
2	-002	PT6D-1024	10/9/2024	13:11		X	X	X										E 3 P BNS		
3	-002	EB-706-Q424	10/9/2024	14:00		X												E 3 P BNS		
4																		E 3 P BNS		
5																		E 1 P BNS		
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				

Relinquished by (Signature and Printed Name): [Signature] Riggie T. Date/Time: 10/09/24 1546	Relinquished by (Signature and Printed Name): [Signature] Susana Ernesto Hernandez Date/Time: 10/09/24 1846	Turn Around Time (TAT):	Special Instruction:
Relinquished by (Signature and Printed Name): [Signature] Susana Ernesto Hernandez Date/Time: 10/09/24 1844	Relinquished by (Signature and Printed Name): [Signature] Susana Ernesto Hernandez Date/Time: 10/09/24 1844	<input type="checkbox"/> A < 24 Hrs or Same Day TAT <input type="checkbox"/> B = Next Workday <input type="checkbox"/> C = 2 Workdays <input type="checkbox"/> D = 3 Workdays <input checked="" type="checkbox"/> E = Routine 5-7 Workdays	
Relinquished by (Signature and Printed Name):	Relinquished by (Signature and Printed Name):		

1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report. 2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis. 3. Custom EDD formats will be an additional 5% of the total project price. 4. Add 15% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project.		5. Trip Blanks and Equipment Blanks are billable sample. 6. Asset Laboratories is not responsible for samples collected using incorrect methodology. 7. Terms are net 30 days. 8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed. 9. For subcontract analysis, TAT and Surcharges will vary.	
TAT Starts at 8 AM the following day if samples received after 3:00PM.		Container Type:	
Preservatives: H=HCL N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃	T=Tube V=VOA P=Pint J=Jar B=Tedlar G=Glass M=Metal M=Metal C=Can		
Others/Specify: B (NH ₄) ₂ SO ₄ /NH ₄ OH			

White=Laboratory Copy Yellow=Customer's Copy

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On: 10/9/2024 Workorder: N069109
 Rep sample Temp (Deg C): 3.6 IR Gun ID: 4
 Temp Blank: Yes No
 Carrier name: ASSET
 Last 4 digits of Tracking No.: NA Packing Material Used: None
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

- | | | | |
|---|---|-----------------------------|---|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 14. Water - pH acceptable upon receipt?
Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 15. Did the bottle labels indicate correct preservatives used? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 16. Were there Non-Conformance issues at login?
Was Client notified? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

Comments:

Checklist Completed By: EF *Efanegof* 10/10/2024

Reviewed By: *for: [Signature]*
MBC10/13/2024

ASSET Laboratories

WORK ORDER Summary

10-Oct-24

WorkOrder: N069109

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30211191

QC Level: Level IV

Date Received: 10/9/2024 6:04 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N069109-001A	MW-905-Q424	10/9/2024 1:21:00 PM	10/24/2024	Groundwater	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069109-001B			10/24/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/24/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069109-001C			10/24/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/24/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/24/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/24/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069109-002A	PT6D-1024	10/9/2024 1:11:00 PM	10/24/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069109-002B			10/24/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/24/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069109-002C			10/24/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/24/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/24/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/24/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069109-003A	EB-706-Q424	10/9/2024 2:00:00 PM	10/24/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069109-004A	FOLDER	10/24/2024	10/24/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			10/24/2024		Folder	Level IV Report	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			10/24/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

List of Analysts

ASSET Laboratories Work Order: N069109

NAME	TEST METHOD
Ria Abes	EPA 218.6, EPA 300.0
Diane Jetajobe	EPA 6010B_Dissolved, EPA 6020_Dissolved



EPA 218.6



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IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
 REV 2.0
 011416

QC Batch Number: R194173
 ASSET #: N069109

Instrument ID: NV00922-IC7
 Analyst: RBA
 Date Analyzed: 10/10/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria? (r = 0.995, r = 0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)	X			X		
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?	X			X		
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?	X			X		
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)	X			X		
14. For Hinkley DOM samples, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)	X			X		
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA

Date: _____

2nd Level Reviewer d/Rocha 10/15/2024

Date: _____

SAMPLE CALCULATION



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Sample Calculation

METHOD: EPA 218.6
TEST NAME: HEXAVALENT CHROMIUM BY IC
MATRIX: Groundwater

FORMULA:

Calculate the Hexavalent Chromium concentration, in $\mu\text{g/L}$, in the original sample as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = A * \text{DF}$$

where:

A = $\mu\text{g/L}$, IC Cr+6 calculated concentration
DF = dilution factor

For Sample **N069109-001A**, the concentration in $\mu\text{g/L}$ is calculated as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = 0.0000 * 1$$

$$\text{Cr}^{+6}, \mu\text{g/L} = 0.0000$$

Since PQL is $0.2 \mu\text{g/L}$,

$$\text{Cr}^{+6}, \mu\text{g/L} = \text{ND}$$

Reviewed by:

d/Rocha 11/10/2024

ANALYSIS RUN LOG



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INJECTION LOG: 241001A**Instrument ID: NV00922-IC7**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/01/24 10:06 AM	Not Reported
2	BLANK	BLANK	1	Hexavalent Chromium	10/01/24 10:20 AM	Not Reported
3	iBLANK	iBLANK	1	Hexavalent Chromium	10/01/24 10:29 AM	Reported
4	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:39 AM	Reported
5	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:48 AM	Reported
6	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:58 AM	Reported
7	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:07 AM	Reported
8	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:17 AM	Reported
9	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:26 AM	Reported
10	ICV	ICV	1	Hexavalent Chromium	10/01/24 11:38 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/01/24 11:48 AM	Reported
12	ICB	ICB	1	Hexavalent Chromium	10/01/24 11:57 AM	Reported

Injection Log Summary

Sequence Details

<i>Name:</i>	IC-07_241001A	<i>Created On:</i>	24/Jul/12 17:17:21
<i>Directory:</i>	Instrument Data\IC-7\2023\IC7	<i>Created By:</i>	ics 5000
<i>Data Vault:</i>	ChromeleonLocal4	<i>Updated On:</i>	01/Oct/24 12:28:25
<i>No. of Injections:</i>	15	<i>Updated By:</i>	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/01/2024 10:06	Finished	BLANK
2	BLANK	2	1000	Unknown		10/01/2024 10:20	Finished	BLANK
3	iBLANK	3	1000	Unknown		10/01/2024 10:29	Finished	INSTRUMENT BLANK
4	STD1-0.2 ppb	4	1000	Calibration Standard	01	10/01/2024 10:39	Finished	0.2 ppb, IWST-240729A, 2uL>
5	STD2-1.0 ppb	5	1000	Calibration Standard	02	10/01/2024 10:48	Finished	1.0 ppb, IWST-240729A, 10uL>
6	STD3-5.0 ppb	6	1000	Calibration Standard	03	10/01/2024 10:58	Finished	5.0 ppb, IWST-240729A, 50uL>
7	STD4-10.0 ppb	7	1000	Calibration Standard	04	10/01/2024 11:07	Finished	10 ppb, IWST-240729A, 100uL>
8	STD5-15.0 ppb	8	1000	Calibration Standard	05	10/01/2024 11:17	Finished	15 ppb, IWST-240729A, 150uL>
9	STD6-20.0 ppb	9	1000	Calibration Standard	06	10/01/2024 11:26	Finished	20 ppb, IWST-240729A, 200uL>
10	ICV,ICV,1,	10	1000	Unknown		10/01/2024 11:38	Finished	ICV @5ppb, IWST-240729B
11	PQL@0.2ppb,CCV2,	11	1000	Unknown		10/01/2024 11:48	Finished	PQL @ 0.2ppb
12	ICB,ICB,1	12	1000	Unknown		10/01/2024 11:57	Finished	ICB R240708C
13	SHUTDOWN	22	1000	Unknown		n.a.	Finished	
14	Eluent: R240930A	23	1000	Unknown		n.a.	Finished	
15	PCR: R240930B	24	1000	Unknown		n.a.	Finished	

INJECTION LOG: 241010A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/01/24 10:06 AM	Not Reported
2	BLANK	BLANK	1	Hexavalent Chromium	10/01/24 10:20 AM	Not Reported
3	iBLANK	iBLANK	1	Hexavalent Chromium	10/01/24 10:29 AM	Reported
4	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:39 AM	Reported
5	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:48 AM	Reported
6	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:58 AM	Reported
7	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:07 AM	Reported
8	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:17 AM	Reported
9	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:26 AM	Reported
10	BLANK	BLANK	1	Hexavalent Chromium	10/10/24 9:19 AM	Not Reported
11	CCV-1	CCV	1	Hexavalent Chromium	10/10/24 9:31 AM	Reported
12	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/10/24 9:41 AM	Reported
13	CCB-1	CCB	1	Hexavalent Chromium	10/10/24 9:50 AM	Reported
14	MB-R194172	MBLK	1	Hexavalent Chromium	10/10/24 10:00 AM	Reported
15	LCS-R194172	LCS	1	Hexavalent Chromium	10/10/24 10:25 AM	Reported
16	N069068-021A	SAMP	5	Hexavalent Chromium	10/10/24 10:37 AM	Reported
17	N069069-001A	SAMP	1	Hexavalent Chromium	10/10/24 10:46 AM	Reported
18	N069069-002A	SAMP	1	Hexavalent Chromium	10/10/24 10:55 AM	Reported
19	N069069-003A	SAMP	1	Hexavalent Chromium	10/10/24 11:05 AM	Reported
20	N069069-004A	SAMP	1	Hexavalent Chromium	10/10/24 11:14 AM	Reported
21	N069069-005A	SAMP	1	Hexavalent Chromium	10/10/24 11:24 AM	Reported
22	N069069-006A	SAMP	1	Hexavalent Chromium	10/10/24 11:33 AM	Reported
23	N069069-007A	SAMP	1	Hexavalent Chromium	10/10/24 11:43 AM	Reported
24	CCV-2	CCV1	1	Hexavalent Chromium	10/10/24 11:52 AM	Reported
25	CCB-2	CCB	1	Hexavalent Chromium	10/10/24 12:02 PM	Reported
26	N069064-005A	SAMP	1	Hexavalent Chromium	10/10/24 12:11 PM	Reported
27	N069064-005AMS	MS	1	Hexavalent Chromium	10/10/24 12:21 PM	Reported
28	N069065-011A	SAMP	1	Hexavalent Chromium	10/10/24 12:30 PM	Reported
29	N069065-011AMS	MS	1	Hexavalent Chromium	10/10/24 12:40 PM	Reported
30	N069065-012A	SAMP	1	Hexavalent Chromium	10/10/24 12:49 PM	Reported
31	N069065-012AMS	MS	1	Hexavalent Chromium	10/10/24 12:58 PM	Reported
32	N069068-010A	SAMP	10	Hexavalent Chromium	10/10/24 1:08 PM	Reported
33	N069068-010ADUP	DUP	10	Hexavalent Chromium	10/10/24 1:17 PM	Reported
34	N069105-009A	SAMP	1	Hexavalent Chromium	10/10/24 1:27 PM	Not Reported
35	N069105-009AMS	MS	1	Hexavalent Chromium	10/10/24 1:36 PM	Not Reported
36	CCV-3	CCV	1	Hexavalent Chromium	10/10/24 1:46 PM	Reported
37	CCB-3	CCB	1	Hexavalent Chromium	10/10/24 1:55 PM	Reported
38	N069105-006A	SAMP	1	Hexavalent Chromium	10/10/24 2:05 PM	Reported
39	N069105-006AMS	MS	1	Hexavalent Chromium	10/10/24 2:14 PM	Reported
40	N069105-008A	SAMP	1	Hexavalent Chromium	10/10/24 2:24 PM	Not Reported
41	N069105-008AMS	MS	1	Hexavalent Chromium	10/10/24 2:33 PM	Not Reported
42	N069105-009A	SAMP	5	Hexavalent Chromium	10/10/24 2:42 PM	Reported

For RBA



10/30/2024

INJECTION LOG: 241010A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069105-009AMS	MS	5	Hexavalent Chromium	10/10/24 2:52 PM	Reported
44	N069105-009AMSD	MSD	5	Hexavalent Chromium	10/10/24 3:01 PM	Reported
45	N069108-001A	SAMP	1	Hexavalent Chromium	10/10/24 3:11 PM	Reported
46	N069108-001AMS	MS	1	Hexavalent Chromium	10/10/24 3:20 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	10/10/24 3:30 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	10/10/24 3:39 PM	Reported
49	N069105-001A	SAMP	1	Hexavalent Chromium	10/10/24 3:49 PM	Not Reported
50	N069105-001AMS	MS	1	Hexavalent Chromium	10/10/24 3:58 PM	Not Reported
51	N069105-002A	SAMP	1	Hexavalent Chromium	10/10/24 4:08 PM	Not Reported
52	N069105-002AMS	MS	1	Hexavalent Chromium	10/10/24 4:17 PM	Not Reported
53	N069105-003A	SAMP	1	Hexavalent Chromium	10/10/24 4:27 PM	Not Reported
54	N069105-003AMS	MS	1	Hexavalent Chromium	10/10/24 4:36 PM	Not Reported
55	N069105-004A	SAMP	1	Hexavalent Chromium	10/10/24 4:45 PM	Not Reported
56	N069105-004AMS	MS	1	Hexavalent Chromium	10/10/24 4:55 PM	Not Reported
57	N069105-001A	SAMP	5	Hexavalent Chromium	10/10/24 5:04 PM	Reported
58	N069105-001AMS	MS	5	Hexavalent Chromium	10/10/24 5:14 PM	Reported
59	CCV-5	CCV	1	Hexavalent Chromium	10/10/24 5:23 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	10/10/24 5:33 PM	Reported
61	N069105-002A	SAMP	5	Hexavalent Chromium	10/10/24 5:42 PM	Reported
62	N069105-002AMS	MS	5	Hexavalent Chromium	10/10/24 5:52 PM	Reported
63	N069105-003A	SAMP	5	Hexavalent Chromium	10/10/24 6:05 PM	Reported
64	N069105-003AMS	MS	5	Hexavalent Chromium	10/10/24 6:15 PM	Reported
65	N069105-004A	SAMP	5	Hexavalent Chromium	10/10/24 6:25 PM	Reported
66	N069105-004AMS	MS	5	Hexavalent Chromium	10/10/24 6:34 PM	Reported
67	MB-R194173	MBLK	1	Hexavalent Chromium	10/10/24 6:44 PM	Reported
68	LCS-R194173	LCS	1	Hexavalent Chromium	10/10/24 6:53 PM	Reported
69	N069103-006A	SAMP	1	Hexavalent Chromium	10/10/24 7:03 PM	Reported
70	N069103-006AMS	MS	1	Hexavalent Chromium	10/10/24 7:12 PM	Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	10/10/24 7:22 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	10/10/24 7:31 PM	Reported
73	N069103-006AMSD	MSD	1	Hexavalent Chromium	10/10/24 7:41 PM	Reported
74	N069103-011A	SAMP	1	Hexavalent Chromium	10/10/24 7:50 PM	Reported
75	N069103-011ADUP	DUP	1	Hexavalent Chromium	10/10/24 8:00 PM	Reported
76	N069105-005A	SAMP	1	Hexavalent Chromium	10/10/24 8:09 PM	Not Reported
77	N069105-005AMS	MS	1	Hexavalent Chromium	10/10/24 8:18 PM	Not Reported
78	N069105-010A	SAMP	5	Hexavalent Chromium	10/10/24 8:28 PM	Reported
79	N069105-010AMS	MS	5	Hexavalent Chromium	10/10/24 8:37 PM	Reported
80	N069105-011A	SAMP	1	Hexavalent Chromium	10/10/24 8:47 PM	Not Reported
81	N069105-011AMS	MS	1	Hexavalent Chromium	10/10/24 8:56 PM	Not Reported
82	N069105-012A	SAMP	1	Hexavalent Chromium	10/10/24 9:06 PM	Not Reported
83	CCV-7	CCV	1	Hexavalent Chromium	10/10/24 9:15 PM	Reported
84	CCB-7	CCB	1	Hexavalent Chromium	10/10/24 9:25 PM	Reported

INJECTION LOG: 241010A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N069105-012AMS	MS	1	Hexavalent Chromium	10/10/24 9:34 PM	Not Reported
86	N069105-013A	SAMP	1	Hexavalent Chromium	10/10/24 9:44 PM	Reported
87	N069105-013AMS	MS	1	Hexavalent Chromium	10/10/24 9:53 PM	Reported
88	N069105-014A	SAMP	1	Hexavalent Chromium	10/10/24 10:02 PM	Reported
89	N069105-014AMS	MS	1	Hexavalent Chromium	10/10/24 10:12 PM	Reported
90	N069104-001A	SAMP	1	Hexavalent Chromium	10/10/24 10:21 PM	Reported
91	N069104-001AMS	MS	1	Hexavalent Chromium	10/10/24 10:31 PM	Reported
92	N069109-001A	SAMP	1	Hexavalent Chromium	10/10/24 10:40 PM	Reported
93	N069109-001AMS	MS	1	Hexavalent Chromium	10/10/24 10:50 PM	Reported
94	N069109-002A	SAMP	1	Hexavalent Chromium	10/10/24 10:59 PM	Reported
95	CCV-8	CCV1	1	Hexavalent Chromium	10/10/24 11:09 PM	Reported
96	CCB-8	CCB	1	Hexavalent Chromium	10/10/24 11:18 PM	Reported
97	N069109-002AMS	MS	1	Hexavalent Chromium	10/10/24 11:28 PM	Reported
98	N069109-003A	SAMP	1	Hexavalent Chromium	10/10/24 11:37 PM	Reported
99	N069109-003AMS	MS	1	Hexavalent Chromium	10/10/24 11:46 PM	Reported
100	N069103-001A	SAMP	1	Hexavalent Chromium	10/10/24 11:56 PM	Reported
101	N069103-002A	SAMP	1	Hexavalent Chromium	10/11/24 12:05 AM	Reported
102	N069103-003A	SAMP	1	Hexavalent Chromium	10/11/24 12:15 AM	Not Reported
103	N069103-004A	SAMP	1	Hexavalent Chromium	10/11/24 12:24 AM	Reported
104	N069103-005A	SAMP	1	Hexavalent Chromium	10/11/24 12:34 AM	Reported
105	N069103-007A	SAMP	1	Hexavalent Chromium	10/11/24 12:43 AM	Not Reported
106	CCV-9	CCV	1	Hexavalent Chromium	10/11/24 12:53 AM	Reported
107	CCB-9	CCB	1	Hexavalent Chromium	10/11/24 1:02 AM	Reported
108	N069103-008A	SAMP	1	Hexavalent Chromium	10/11/24 1:12 AM	Reported
109	N069103-009A	SAMP	1	Hexavalent Chromium	10/11/24 1:21 AM	Reported
110	CCV-10	CCV1	1	Hexavalent Chromium	10/11/24 1:31 AM	Reported
111	CCB-10	CCB	1	Hexavalent Chromium	10/11/24 1:40 AM	Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241010A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	11/Oct/24 02:10:46
No. of Injections:	114	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/01/2024 10:06	Finished	BLANK
2	BLANK	2	1000	Unknown		10/01/2024 10:20	Finished	BLANK
3	BLANK	3	1000	Unknown		10/01/2024 10:29	Finished	INSTRUMENT BLANK
4	STD1-0.2 ppb	4	1000	Calibration Standard	01	10/01/2024 10:39	Finished	0.2 ppb, IWST-240729A, 2uL>
5	STD2-1.0 ppb	5	1000	Calibration Standard	02	10/01/2024 10:48	Finished	1.0 ppb, IWST-240729A, 10uL>
6	STD3-5.0 ppb	6	1000	Calibration Standard	03	10/01/2024 10:58	Finished	5.0 ppb, IWST-240729A, 50uL>
7	STD4-10.0 ppb	7	1000	Calibration Standard	04	10/01/2024 11:07	Finished	10 ppb, IWST-240729A, 100uL>
8	STD5-15.0 ppb	8	1000	Calibration Standard	05	10/01/2024 11:17	Finished	15 ppb, IWST-240729A, 150uL>
9	STD6-20.0 ppb	9	1000	Calibration Standard	06	10/01/2024 11:26	Finished	20 ppb, IWST-240729A, 200uL>
10	BLANK	1	1000	Unknown		10/10/2024 09:19	Finished	BLANK
11	CCV-1,CCV,1,	2	1000	Unknown		10/10/2024 09:31	Finished	CCV @5ppb, IWST-240729A
12	PQL @0.2ppb,CCV2,	3	1000	Unknown		10/10/2024 09:41	Finished	PQL @ 0.2ppb
13	CCB-1,CCB,1,	4	1000	Unknown		10/10/2024 09:50	Finished	CCB R240923C
14	MB-H2O,MBLK,1,	5	1000	Unknown		10/10/2024 10:00	Finished	MB R240923C
15	LCS-H2O,LCS,1,	1	1000	Unknown		10/10/2024 10:25	Finished	LCS @5ppb, IWST-240729B
16	N069068-021A,SAMP	2	1000	Unknown		10/10/2024 10:37	Finished	SAMP,2>10 mL
17	N069069-001A,SAMP	3	1000	Unknown		10/10/2024 10:46	Finished	SAMP,10 mL
18	N069069-002A,SAMP	4	1000	Unknown		10/10/2024 10:55	Finished	SAMP,10 mL
19	N069069-003A,SAMP	5	1000	Unknown		10/10/2024 11:05	Finished	SAMP,10 mL
20	N069069-004A,SAMP	6	1000	Unknown		10/10/2024 11:14	Finished	SAMP,10 mL
21	N069069-005A,SAMP	7	1000	Unknown		10/10/2024 11:24	Finished	SAMP,10 mL
22	N069069-006A,SAMP	8	1000	Unknown		10/10/2024 11:33	Finished	SAMP,10 mL
23	N069069-007A,SAMP	9	1000	Unknown		10/10/2024 11:43	Finished	SAMP,10 mL
24	CCV-2,CCV1,1,	10	1000	Unknown		10/10/2024 11:52	Finished	CCV @10ppb, IWST-240729A
25	CCB-2,CCB,1,	11	1000	Unknown		10/10/2024 12:02	Finished	CCB R240923C
26	N069064-005A,SAMP	12	1000	Unknown		10/10/2024 12:11	Finished	SAMP,10 mL
27	N069064-005AMS,M\$	13	1000	Unknown		10/10/2024 12:21	Finished	MS (1ppb), IWST-240729B,10r
28	N069065-011A,SAMP	14	1000	Unknown		10/10/2024 12:30	Finished	SAMP,10 mL
29	N069065-011AMS,M\$	15	1000	Unknown		10/10/2024 12:40	Finished	MS (1ppb), IWST-240729B,10r
30	N069065-012A,SAMP	16	1000	Unknown		10/10/2024 12:49	Finished	SAMP,10 mL
31	N069065-012AMS,M\$	17	1000	Unknown		10/10/2024 12:58	Finished	MS (1ppb), IWST-240729B,10r
32	N069068-010A,SAMP	18	1000	Unknown		10/10/2024 13:08	Finished	SAMP,10 mL
33	N069068-010ADUP,D	19	1000	Unknown		10/10/2024 13:17	Finished	DUP,10 mL
34	N069105-009A,SAMP	20	1000	Unknown		10/10/2024 13:27	Finished	SAMP,10 mL
35	N069105-009AMS,M\$	21	1000	Unknown		10/10/2024 13:36	Finished	MS (1ppb), IWST-240729B,10r
36	CCV-3,CCV,1,	22	1000	Unknown		10/10/2024 13:46	Finished	CCV @5ppb, IWST-240729A
37	CCB-3,CCB,1,	23	1000	Unknown		10/10/2024 13:55	Finished	CCB R240923C
38	N069105-006A,SAMP	24	1000	Unknown		10/10/2024 14:05	Finished	SAMP,10 mL
39	N069105-006AMS,M\$	25	1000	Unknown		10/10/2024 14:14	Finished	MS (1ppb), IWST-240729B,10r
40	N069105-008A,SAMP	26	1000	Unknown		10/10/2024 14:24	Finished	SAMP,10 mL
41	N069105-008AMS,M\$	27	1000	Unknown		10/10/2024 14:33	Finished	MS (1ppb), IWST-240729B,10r
42	N069105-009A,SAMP	28	1000	Unknown		10/10/2024 14:42	Finished	SAMP,2>10 mL
43	N069105-009AMS,M\$	29	1000	Unknown		10/10/2024 14:52	Finished	MS (1ppb), IWST-240729B,2>
44	N069105-009AMSD,I	30	1000	Unknown		10/10/2024 15:01	Finished	MSD (1ppb), IWST-240729B,2>
45	N069108-001A,SAMP	31	1000	Unknown		10/10/2024 15:11	Finished	SAMP,10 mL
46	N069108-001AMS,M\$	32	1000	Unknown		10/10/2024 15:20	Finished	MS (1ppb), IWST-240729B,10r
47	CCV-4,CCV1,1,	33	1000	Unknown		10/10/2024 15:30	Finished	CCV @10ppb, IWST-240729A
48	CCB-4,CCB,1,	34	1000	Unknown		10/10/2024 15:39	Finished	CCB R240923C
49	N069105-001A,SAMP	35	1000	Unknown		10/10/2024 15:49	Finished	SAMP,10 mL
50	N069105-001AMS,M\$	36	1000	Unknown		10/10/2024 15:58	Finished	MS (1ppb), IWST-240729B,10r
51	N069105-002A,SAMP	37	1000	Unknown		10/10/2024 16:08	Finished	SAMP,10 mL
52	N069105-002AMS,M\$	38	1000	Unknown		10/10/2024 16:17	Finished	MS (1ppb), IWST-240729B,10r
53	N069105-003A,SAMP	39	1000	Unknown		10/10/2024 16:27	Finished	SAMP,10 mL
54	N069105-003AMS,M\$	40	1000	Unknown		10/10/2024 16:36	Finished	MS (1ppb), IWST-240729B,10r
55	N069105-004A,SAMP	41	1000	Unknown		10/10/2024 16:45	Finished	SAMP,10 mL
56	N069105-004AMS,M\$	42	1000	Unknown		10/10/2024 16:55	Finished	MS (1ppb), IWST-240729B,10r
57	N069105-001A,SAMP	43	1000	Unknown		10/10/2024 17:04	Finished	SAMP,2>10 mL
58	N069105-001AMS,M\$	44	1000	Unknown		10/10/2024 17:14	Finished	MS (1ppb), IWST-240729B,2>
59	CCV-5,CCV,1,	45	1000	Unknown		10/10/2024 17:23	Finished	CCV @5ppb, IWST-240729A
60	CCB-5,CCB,1,	46	1000	Unknown		10/10/2024 17:33	Finished	CCB R240923C

61	N069105-002A,SAMF	47	1000	Unknown	10/10/2024 17:42	Finished	SAMP,2>10 mL
62	N069105-002AMS,M\$	48	1000	Unknown	10/10/2024 17:52	Finished	MS (1ppb), IWST-240729B,2>
63	N069105-003A,SAMF	1	1000	Unknown	10/10/2024 18:05	Finished	SAMP,2>10 mL
64	N069105-003AMS,M\$	2	1000	Unknown	10/10/2024 18:15	Finished	MS (1ppb), IWST-240729B,2>
65	N069105-004A,SAMF	3	1000	Unknown	10/10/2024 18:25	Finished	SAMP,2>10 mL
66	N069105-004AMS,M\$	4	1000	Unknown	10/10/2024 18:34	Finished	MS (1ppb), IWST-240729B,2>
67	MB-2,MBLK,1,	5	1000	Unknown	10/10/2024 18:44	Finished	MB R240923C
68	LCS-2,LCS,1,	6	1000	Unknown	10/10/2024 18:53	Finished	LCS @5ppb, IWST-240729B
69	N069103-006A,SAMF	7	1000	Unknown	10/10/2024 19:03	Finished	SAMP,10 mL
70	N069103-006AMS,M\$	8	1000	Unknown	10/10/2024 19:12	Finished	MS (1ppb), IWST-240729B,10r
71	CCV-6,CCV1,1,	9	1000	Unknown	10/10/2024 19:22	Finished	CCV @10ppb, IWST-240729A
72	CCB-6,CCB,1,	10	1000	Unknown	10/10/2024 19:31	Finished	CCB R240923C
73	N069103-006AMSD,N	11	1000	Unknown	10/10/2024 19:41	Finished	MSD (1ppb), IWST-240729B,1
74	N069103-011A,SAMF	12	1000	Unknown	10/10/2024 19:50	Finished	SAMP,10 mL
75	N069103-011ADUP,D	13	1000	Unknown	10/10/2024 20:00	Finished	DUP,10 mL
76	N069105-005A,SAMF	14	1000	Unknown	10/10/2024 20:09	Finished	SAMP,10 mL
77	N069105-005AMS,M\$	15	1000	Unknown	10/10/2024 20:18	Finished	MS (1ppb), IWST-240729B,10r
78	N069105-010A,SAMF	16	1000	Unknown	10/10/2024 20:28	Finished	SAMP,2>10 mL
79	N069105-010AMS,M\$	17	1000	Unknown	10/10/2024 20:37	Finished	MS (5ppb), IWST-240729B,2>
80	N069105-011A,SAMF	18	1000	Unknown	10/10/2024 20:47	Finished	SAMP,10 mL
81	N069105-011AMS,M\$	19	1000	Unknown	10/10/2024 20:56	Finished	MS (1ppb), IWST-240729B,10r
82	N069105-012A,SAMF	20	1000	Unknown	10/10/2024 21:06	Finished	SAMP,10 mL
83	CCV-7,CCV,1,	21	1000	Unknown	10/10/2024 21:15	Finished	CCV @5ppb, IWST-240729A
84	CCB-7,CCB,1,	22	1000	Unknown	10/10/2024 21:25	Finished	CCB R240923C
85	N069105-012AMS,M\$	23	1000	Unknown	10/10/2024 21:34	Finished	MS (1ppb), IWST-240729B,10r
86	N069105-013A,SAMF	24	1000	Unknown	10/10/2024 21:44	Finished	SAMP,10 mL
87	N069105-013AMS,M\$	25	1000	Unknown	10/10/2024 21:53	Finished	MS (1ppb), IWST-240729B,10r
88	N069105-014A,SAMF	26	1000	Unknown	10/10/2024 22:02	Finished	SAMP,10 mL
89	N069105-014AMS,M\$	27	1000	Unknown	10/10/2024 22:12	Finished	MS (1ppb), IWST-240729B,10r
90	N069104-001A,SAMF	28	1000	Unknown	10/10/2024 22:21	Finished	SAMP,10 mL
91	N069104-001AMS,M\$	29	1000	Unknown	10/10/2024 22:31	Finished	MS (1ppb), IWST-240729B,10r
92	N069109-001A,SAMF	30	1000	Unknown	10/10/2024 22:40	Finished	SAMP,10 mL
93	N069109-001AMS,M\$	31	1000	Unknown	10/10/2024 22:50	Finished	MS (1ppb), IWST-240729B,10r
94	N069109-002A,SAMF	32	1000	Unknown	10/10/2024 22:59	Finished	SAMP,10 mL
95	CCV-8,CCV1,1,	33	1000	Unknown	10/10/2024 23:09	Finished	CCV @10ppb, IWST-240729A
96	CCB-8,CCB,1,	34	1000	Unknown	10/10/2024 23:18	Finished	CCB R240923C
97	N069109-002AMS,M\$	35	1000	Unknown	10/10/2024 23:28	Finished	MS (1ppb), IWST-240729B,10r
98	N069109-003A,SAMF	36	1000	Unknown	10/10/2024 23:37	Finished	SAMP,10 mL
99	N069109-003AMS,M\$	37	1000	Unknown	10/10/2024 23:46	Finished	MS (1ppb), IWST-240729B,10r
100	N069103-001A,SAMF	38	1000	Unknown	10/10/2024 23:56	Finished	SAMP,10 mL
101	N069103-002A,SAMF	39	1000	Unknown	10/11/2024 00:05	Finished	SAMP,10 mL
102	N069103-003A,SAMF	40	1000	Unknown	10/11/2024 00:15	Finished	SAMP,10 mL
103	N069103-004A,SAMF	41	1000	Unknown	10/11/2024 00:24	Finished	SAMP,10 mL
104	N069103-005A,SAMF	42	1000	Unknown	10/11/2024 00:34	Finished	SAMP,10 mL
105	N069103-007A,SAMF	43	1000	Unknown	10/11/2024 00:43	Finished	SAMP,10 mL
106	CCV-9,CCV,1,	44	1000	Unknown	10/11/2024 00:53	Finished	CCV @5ppb, IWST-240729A
107	CCB-9,CCB,1,	45	1000	Unknown	10/11/2024 01:02	Finished	CCB R240923C
108	N069103-008A,SAMF	46	1000	Unknown	10/11/2024 01:12	Finished	SAMP,10 mL
109	N069103-009A,SAMF	47	1000	Unknown	10/11/2024 01:21	Finished	SAMP,10 mL
110	CCV-10,CCV1,1,	48	1000	Unknown	10/11/2024 01:31	Finished	CCV @10ppb, IWST-240729A
111	CCB-10,CCB,1,	49	1000	Unknown	10/11/2024 01:40	Finished	CCB R240923C
112	SHUTDOWN	50	1000	Unknown	10/11/2024 01:49	Finished	
113	Eluent: R241007A	51	1000	Unknown	n.a.	Finished	
114	PCR: R241007B	CurrentVia	1000	Unknown	n.a.	Finished	

SAMPLE PREPARATION LOG



ASSET LABORATORIES
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Hexavalent Chromium Preparation and Runlog

Sample Preparation

Date Prepared: 10/10/24
 Time Prepared: 0948H
 Prepared By: WA

Reagent ID:
 Sulfuric Acid: 16020
 Diphenylcarbazide: 16810
 NH4OH + NH4SO4 eluent: N241007A N241002A *len NaOH*
 NH4OH + NH4SO4 buffer: N240923C N241002A

Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1) N069107-7A	9.33	-	- 250µl	- 250µl		
2) SA	9.39	-				
3) 9A	8.81	9.50			+5	
4) 10A	8.72	9.45			+5	
5) 11A	8.70	9.42			+5	
6) 12A	9.40	-				
7) 13A	9.40	-				
8) 14A	9.69	-				
9) 15A	9.67	-				
10) 16A	9.66	-				
11) 17A	9.30	-				
12) N069104-1A	9.44	-				
13) N069105-1A	9.40	-				
14) 2A	9.18	9.39			+3	
15) 3A	9.26	-				
4A	9.13	9.36			+3	

Sample Preparation

Date Prepared: 10/10/24
 Time Prepared: 0948H
 Prepared By: WA

Reagent ID:
 Sulfuric Acid: 16020
 Diphenylcarbazide: 16810
 NH4OH + NH4SO4 eluent: N241007A N241002A *len NaOH*
 NH4OH + NH4SO4 buffer: N240923C N241002A

Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1) N069105-5A	9.41	-	- 250µl	- 250µl		
2) 6A	9.46	-				
3) 7A	9.66	-				
4) 8A	9.08	9.45			+4	
5) 9A	9.02	9.51			+5	
6) 10A	9.13	9.38			+3	
7) 11A	9.39	-				
8) 12A	9.47	-				
9) 13A	9.51	-				
10) 14A	9.40	-				
11) N069108-1A	9.33	-				
12) N069109-1A	9.36	-				
13) 2A	9.35	-				
14) 3A	9.71	-				

Logbook No. 25



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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 EPA ID CA01638

NEVADA | P:702.307.2659 F:702.307.2691
 3151 W. Post Rd., Las Vegas, NV 89118
 ELAP Cert 2676 | NV Cert NV00922
 ORELAP Cert 4046 (EPA TO 15 & 19)

INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
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"Serving Clients with Passion and Professionalism"

(EPA 218.6) - INITIAL CALIBRATION

Instrument ID: NV00922-IC7
Date Calibrated: 10/1/2024

Initial Calibration:

Hexavalent Chromium	STD1	STD2	STD3	STD4	STD5	STD6	
COMPOUND, in ug/L	0.2	1	5	10	15	20	R ²
Area,mAU*min	0.0546	0.2704	1.3745	2.7397	4.0756	5.4103	1.0000
Measured, in ug/L	0.201100	0.996000	5.063000	10.091900	15.012700	19.929000	
Relative Error (%RE)	0.5%		1.3%				

	Stock	Working
Standard Concentration:	1,000,000 PPB	1,000 PPB
Standard ID:	ISST-240705H	IWST-240729A

Calibration Acceptance Criteria: > 0.999 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
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NEVADA
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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194173						
Client ID: ICV	Batch ID: R194173	TestNo: EPA 218.6	Analysis Date: 10/1/2024	SeqNo: 6225778							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.802	0.20	5.000	0	96.0	90	110				

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194173						
Client ID: ZZZZZZ	Batch ID: R194173	TestNo: EPA 218.6	Analysis Date: 10/1/2024	SeqNo: 6225779							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.194	0.20	0.2000	0	97.0	80	120				

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194173						
Client ID: ZZZZZZ	Batch ID: R194173	TestNo: EPA 218.6	Analysis Date: 10/10/2024	SeqNo: 6225781							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.163	0.20	0.2000	0	81.7	80	120				

Sample ID CCV-5	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194173						
Client ID: CCV	Batch ID: R194173	TestNo: EPA 218.6	Analysis Date: 10/10/2024	SeqNo: 6225782							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.133	0.20	5.000	0	103	95	105				

Sample ID CCV-6	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194173						
Client ID: ZZZZZZ	Batch ID: R194173	TestNo: EPA 218.6	Analysis Date: 10/10/2024	SeqNo: 6225788							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	10.215	0.20	10.00	0	102	95	105				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCV-7	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194173						
Client ID: CCV	Batch ID: R194173	TestNo: EPA 218.6	Analysis Date: 10/10/2024	SeqNo: 6225795							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.049	0.20	5.000	0	101	95	105				

Sample ID CCV-8	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194173						
Client ID: ZZZZZ	Batch ID: R194173	TestNo: EPA 218.6	Analysis Date: 10/10/2024	SeqNo: 6225806							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	10.140	0.20	10.00	0	101	95	105				

Sample ID CCV-9	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194173						
Client ID: CCV	Batch ID: R194173	TestNo: EPA 218.6	Analysis Date: 10/11/2024	SeqNo: 6225817							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.042	0.20	5.000	0	101	95	105				

Sample ID CCV-10	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194173						
Client ID: ZZZZZ	Batch ID: R194173	TestNo: EPA 218.6	Analysis Date: 10/11/2024	SeqNo: 6225821							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	10.195	0.20	10.00	0	102	95	105				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194173
Client ID: ICB	Batch ID: R194173	TestNo: EPA 218.6	Analysis Date: 10/1/2024	SeqNo: 6225780	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-5	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194173
Client ID: CCB	Batch ID: R194173	TestNo: EPA 218.6	Analysis Date: 10/10/2024	SeqNo: 6225783	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-6	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194173
Client ID: CCB	Batch ID: R194173	TestNo: EPA 218.6	Analysis Date: 10/10/2024	SeqNo: 6225789	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-7	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194173
Client ID: CCB	Batch ID: R194173	TestNo: EPA 218.6	Analysis Date: 10/10/2024	SeqNo: 6225796	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-8	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194173
Client ID: CCB	Batch ID: R194173	TestNo: EPA 218.6	Analysis Date: 10/10/2024	SeqNo: 6225807	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCB-9	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194173
Client ID: CCB	Batch ID: R194173	TestNo: EPA 218.6	Analysis Date: 10/11/2024	SeqNo: 6225818	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-10	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194173
Client ID: CCB	Batch ID: R194173	TestNo: EPA 218.6	Analysis Date: 10/11/2024	SeqNo: 6225822	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

RETENTION TIME SUMMARY



ASSET LABORATORIES
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RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/10/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.990	
CCV-1	5.890	
CCV-2	5.881	
CCV-3	5.881	
CCV-4	5.881	
CCV-5	5.881	
CCV-6	5.873	
CCV-7	5.881	
CCV-8	5.873	
CCV-9	5.873	
CCV-10	5.873	

Average 5.879
Actual RT Window 5.799 - 5.959
Applied RT Window 5.679 - 6.079

MB-R194172	N.A.	N.A.
LCS-R194172	5.890	PASS
N069068-021A	5.881	PASS
N069069-001A	5.856	PASS
N069069-002A	5.865	PASS
N069069-003A	5.881	PASS
N069069-004A	N.A.	N.A.
N069069-005A	5.890	PASS
N069069-006A	N.A.	N.A.
N069069-007A	N.A.	N.A.
N069064-005A	N.A.	N.A.
N069064-005AMS	5.881	PASS
N069065-011A	N.A.	N.A.
N069065-011AMS	5.865	PASS
N069065-012A	N.A.	N.A.
N069065-012AMS	5.856	PASS
N069068-010A	5.881	PASS
N069068-010ADUP	5.881	PASS

Reviewed by:

d/Rocha 10/15/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/10/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.990	
CCV-1	5.890	
CCV-2	5.881	
CCV-3	5.881	
CCV-4	5.881	
CCV-5	5.881	
CCV-6	5.873	
CCV-7	5.881	
CCV-8	5.873	
CCV-9	5.873	
CCV-10	5.873	

Average 5.879
Actual RT Window 5.799 - 5.959
Applied RT Window 5.679 - 6.079

N069105-006A	5.706	PASS
N069105-006AMS	5.698	PASS
N069105-008A	N.A.	N.A.
N069105-008AMS	5.756	PASS
N069105-009A	5.865	PASS
N069105-009AMS	5.856	PASS
N069105-009AMSD	5.848	PASS
N069108-001A	N.A.	N.A.
N069108-001AMS	5.873	PASS
N069105-002A	N.A.	N.A.
N069105-002AMS	N.A.	N.A.
N069105-003A	6.048	PASS
N069105-003AMS	N.A.	N.A.
N069105-004A	N.A.	N.A.
N069105-004AMS	5.715	PASS
N069105-001A	5.815	PASS
N069105-001AMS	5.815	PASS
N069105-002A	N.A.	N.A.

Reviewed by:

d/Rocha 10/15/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/10/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.990	
CCV-1	5.890	
CCV-2	5.881	
CCV-3	5.881	
CCV-4	5.881	
CCV-5	5.881	
CCV-6	5.873	
CCV-7	5.881	
CCV-8	5.873	
CCV-9	5.873	
CCV-10	5.873	

Average 5.879
Actual RT Window 5.799 - 5.959
Applied RT Window 5.679 - 6.079

N069105-002AMS	5.840	PASS
N069105-003A	N.A.	N.A.
N069105-003AMS	5.848	PASS
N069105-004A	N.A.	N.A.
N069105-004AMS	5.856	PASS
MB-R194173	N.A.	N.A.
LCS-R194173	5.881	PASS
N069103-006A	5.873	PASS
N069103-006AMS	5.881	PASS
N069103-006AMSD	5.873	PASS
N069103-011A	5.798	PASS
N069103-011ADUP	5.790	PASS
N069105-005A	5.698	PASS
N069105-005AMS	5.698	PASS
N069105-010A	5.823	PASS
N069105-010AMS	5.823	PASS
N069105-012A	N.A.	N.A.
N069105-012AMS	5.681	PASS

Reviewed by:

d/Rocha 10/15/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/10/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.990	
CCV-1	5.890	
CCV-2	5.881	
CCV-3	5.881	
CCV-4	5.881	
CCV-5	5.881	
CCV-6	5.873	
CCV-7	5.881	
CCV-8	5.873	
CCV-9	5.873	
CCV-10	5.873	

Average 5.879
Actual RT Window 5.799 - 5.959
Applied RT Window 5.679 - 6.079

N069105-013A	5.723	PASS
N069105-013AMS	5.723	PASS
N069105-014A	N.A.	N.A.
N069105-014AMS	5.865	PASS
N069104-001A	5.856	PASS
N069104-001AMS	5.856	PASS
N069109-001A	N.A.	N.A.
N069109-001AMS	5.765	PASS
N069109-002A	N.A.	N.A.
N069109-002AMS	5.773	PASS
N069109-003A	N.A.	N.A.
N069109-003AMS	5.873	PASS
N069103-001A	5.798	PASS
N069103-002A	5.798	PASS
N069103-003A	5.848	PASS
N069103-004A	N.A.	N.A.
N069103-005A	5.798	PASS
N069103-008A	5.848	PASS

Reviewed by:

d/Rocha 10/15/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/10/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.990	
CCV-1	5.890	
CCV-2	5.881	
CCV-3	5.881	
CCV-4	5.881	
CCV-5	5.881	
CCV-6	5.873	
CCV-7	5.881	
CCV-8	5.873	
CCV-9	5.873	
CCV-10	5.873	

Average 5.879
Actual RT Window 5.799 - 5.959
Applied RT Window 5.679 - 6.079

N069103-009A 5.756 PASS

Reviewed by:

d/Rocha 10/15/2024

MDL STUDY



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL AND ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

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METHOD DETECTION LIMIT (Spiked)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): 10/4/2022, 11/15/2022, 1/4/2023, 3/1/2023, 4/4/2023, 5/16/2023, 7/10/2023, 8/2/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: ug/L

Instrument Name: **IC-07**

Datafile 221004A D12 221115A D12 230104A D11 230301C D14 230404A D11 230516A D11 230710A D12 230802A D11

Analyte	#1	#2	#3	#4	#5	#6	#7	#8	Spike Conc., ug/L	SD	t _(n-1) value	MDLs	PQL
Hexavalent Chromium	0.199	0.194	0.169	0.190	0.167	0.194	0.201	0.185	0.20	0.0129	2.998	0.0387	0.20

METHOD DETECTION LIMIT (Blanks)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Instrument Name: **IC-07**

Analyte	MDLb	#of Records
Hexavalent Chromium	0.00	166

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

RAW DATA



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INJECTION LOG: 241001A**Instrument ID: NV00922-IC7**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/01/24 10:06 AM	Not Reported
2	BLANK	BLANK	1	Hexavalent Chromium	10/01/24 10:20 AM	Not Reported
3	iBLANK	iBLANK	1	Hexavalent Chromium	10/01/24 10:29 AM	Reported
4	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:39 AM	Reported
5	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:48 AM	Reported
6	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:58 AM	Reported
7	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:07 AM	Reported
8	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:17 AM	Reported
9	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:26 AM	Reported
10	ICV	ICV	1	Hexavalent Chromium	10/01/24 11:38 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/01/24 11:48 AM	Reported
12	ICB	ICB	1	Hexavalent Chromium	10/01/24 11:57 AM	Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241001A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	01/Oct/24 12:28:25
No. of Injections:	15	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/01/2024 10:06	Finished	BLANK
2	BLANK	2	1000	Unknown		10/01/2024 10:20	Finished	BLANK
3	iBLANK	3	1000	Unknown		10/01/2024 10:29	Finished	INSTRUMENT BLANK
4	STD1-0.2 ppb	4	1000	Calibration Standard	01	10/01/2024 10:39	Finished	0.2 ppb, IWST-240729A, 2uL>
5	STD2-1.0 ppb	5	1000	Calibration Standard	02	10/01/2024 10:48	Finished	1.0 ppb, IWST-240729A, 10uL>
6	STD3-5.0 ppb	6	1000	Calibration Standard	03	10/01/2024 10:58	Finished	5.0 ppb, IWST-240729A, 50uL>
7	STD4-10.0 ppb	7	1000	Calibration Standard	04	10/01/2024 11:07	Finished	10 ppb, IWST-240729A, 100uL>
8	STD5-15.0 ppb	8	1000	Calibration Standard	05	10/01/2024 11:17	Finished	15 ppb, IWST-240729A, 150uL>
9	STD6-20.0 ppb	9	1000	Calibration Standard	06	10/01/2024 11:26	Finished	20 ppb, IWST-240729A, 200uL>
10	ICV,ICV,1,	10	1000	Unknown		10/01/2024 11:38	Finished	ICV @5ppb, IWST-240729B
11	PQL@0.2ppb,CCV2,	11	1000	Unknown		10/01/2024 11:48	Finished	PQL @ 0.2ppb
12	ICB,ICB,1	12	1000	Unknown		10/01/2024 11:57	Finished	ICB R240708C
13	SHUTDOWN	22	1000	Unknown		n.a.	Finished	
14	Eluent: R240930A	23	1000	Unknown		n.a.	Finished	
15	PCR: R240930B	24	1000	Unknown		n.a.	Finished	

Reviewed by:

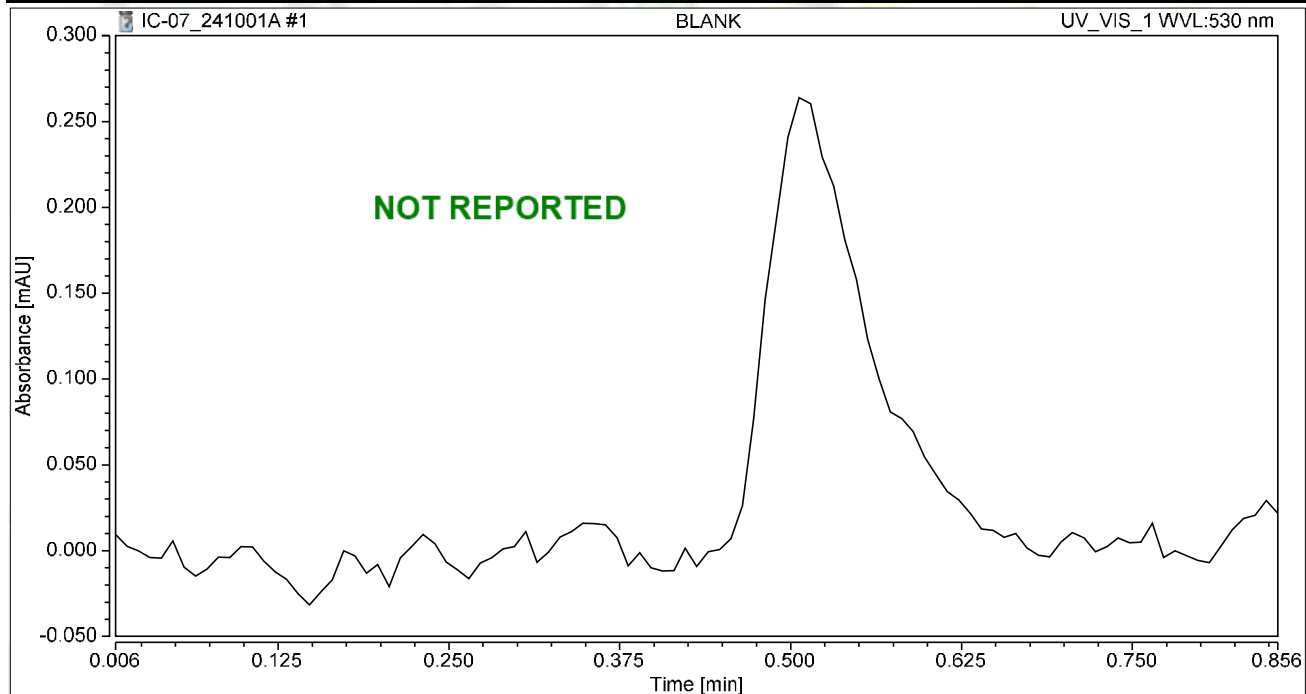
d/Rocha 10/6/2024

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	0.85
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 10:06	Sample Weight:	1.0000

Chromatogram



Integration Results

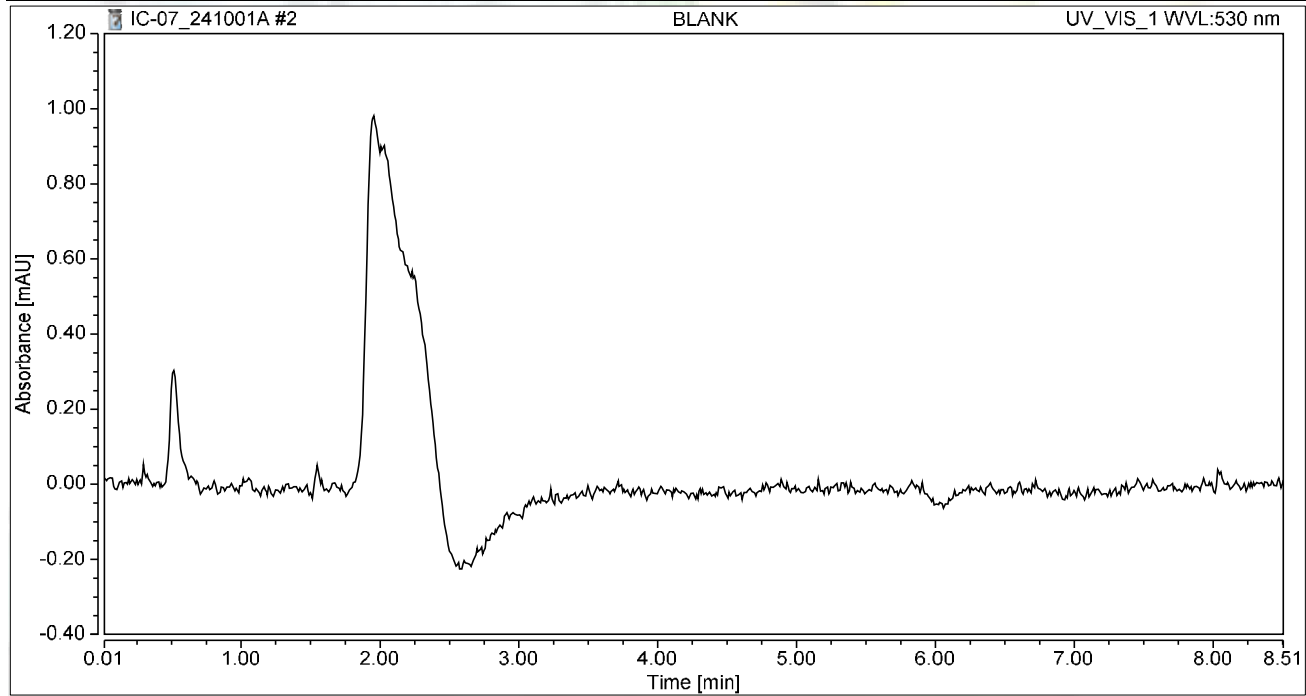
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 10:20	Sample Weight:	1.0000

Chromatogram



Integration Results

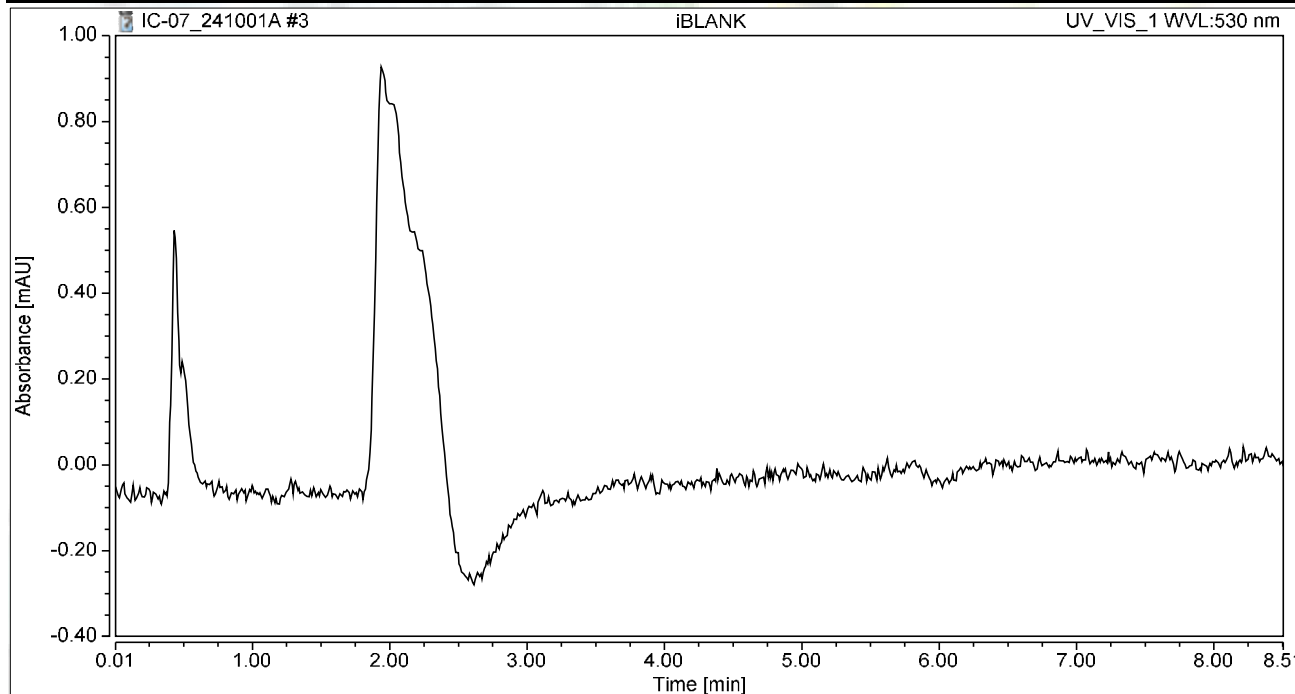
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	iBLANK	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 10:29	Sample Weight:	1.0000

Chromatogram



Integration Results

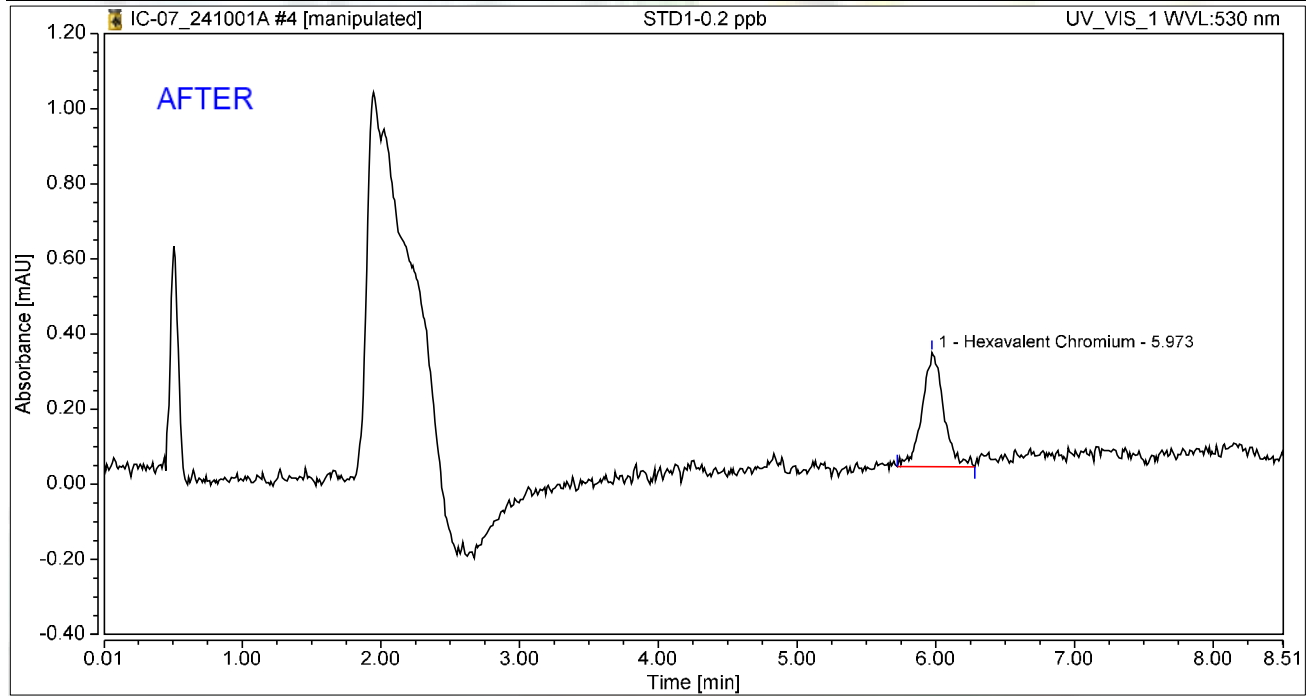
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	STD1-0.2 ppb	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	01	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 10:39	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.973	0.055	0.304	100.00	100.00	0.2011
Total:			0.055	0.304	100.00	100.00	

Reviewed by:

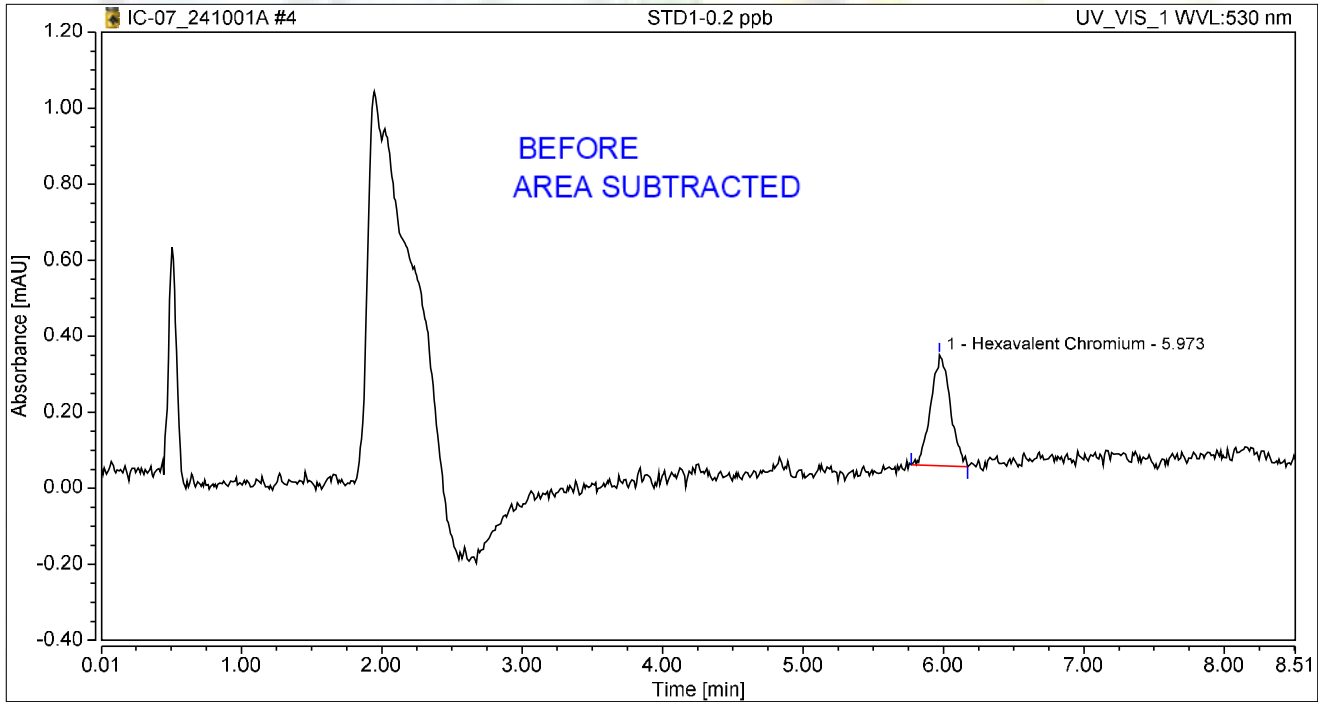
d/Rocha 10/6/2024

Chromatogram and Results

Injection Details

Injection Name:	STD1-0.2 ppb	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	01	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 10:39	Sample Weight:	1.0000

Chromatogram



Integration Results

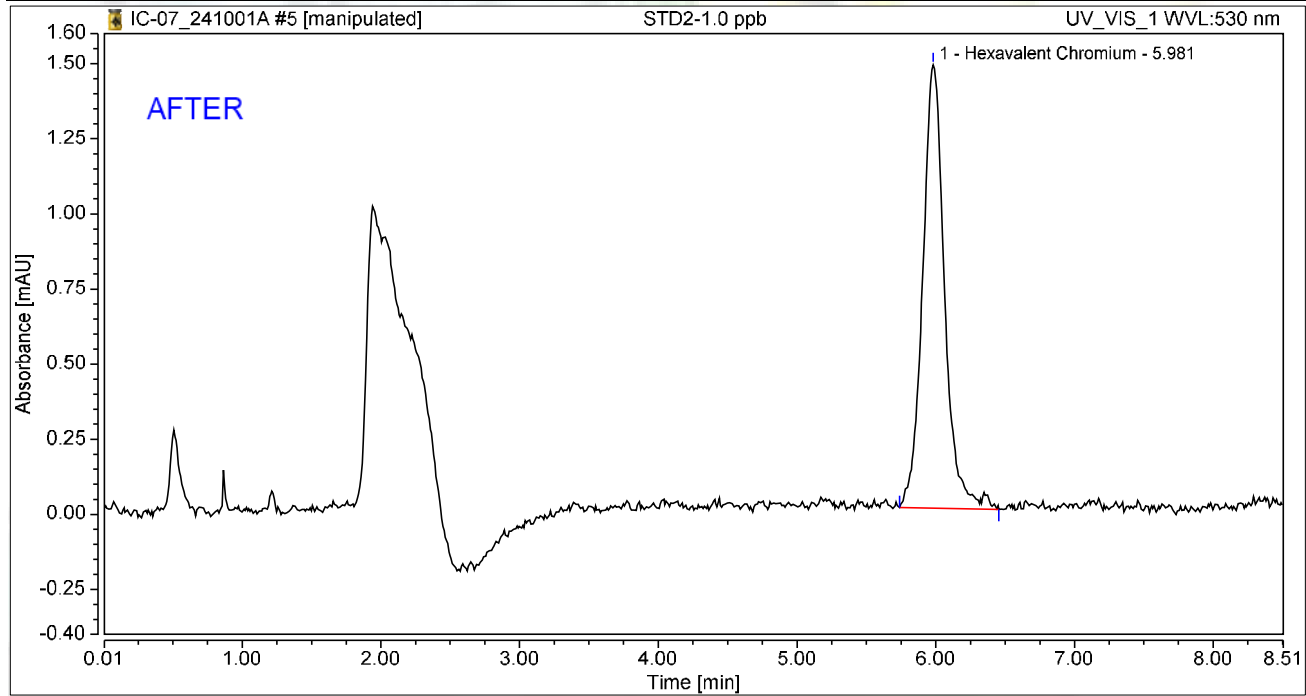
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.973	0.047	0.291	100.00	100.00	0.1740
Total:			0.047	0.291	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD2-1.0 ppb	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	02	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 10:48	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.981	0.270	1.476	100.00	100.00	0.9960
Total:			0.270	1.476	100.00	100.00	

Reviewed by:

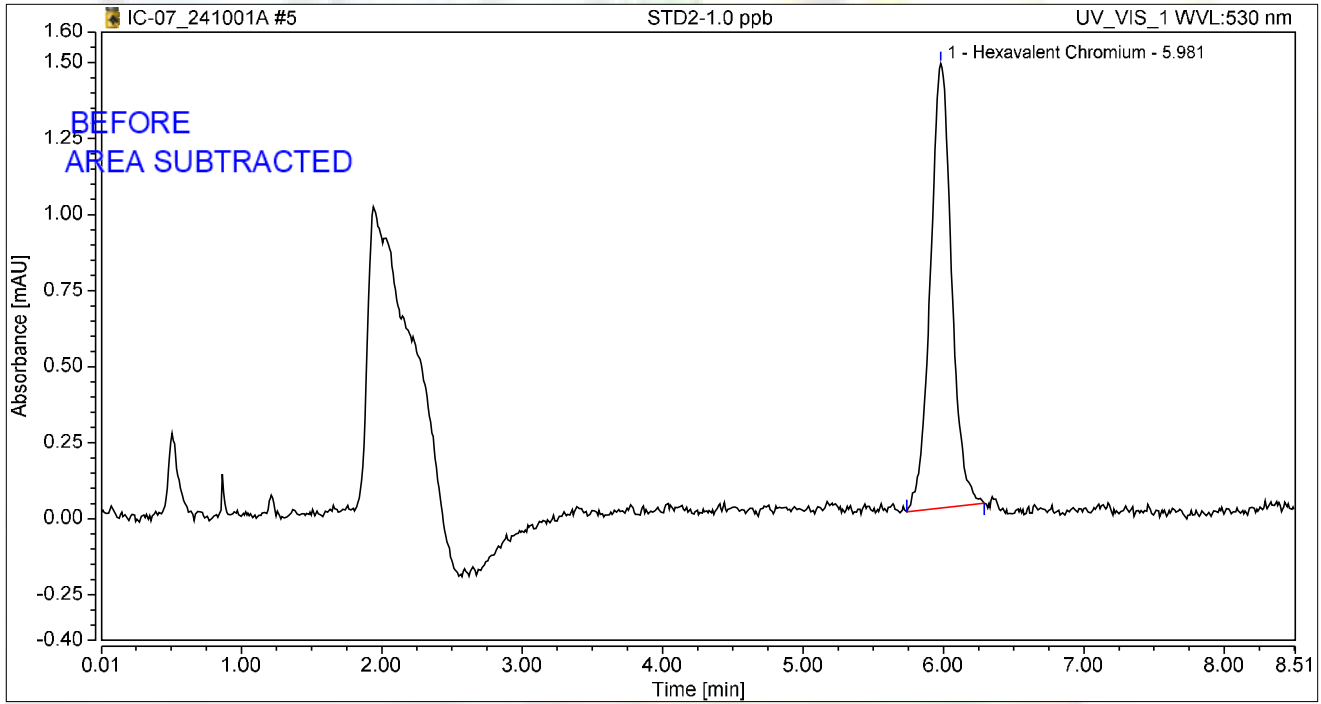
MRecha 10/6/2024

Chromatogram and Results

Injection Details

Injection Name:	STD2-1.0 ppb	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	02	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 10:48	Sample Weight:	1.0000

Chromatogram



Integration Results

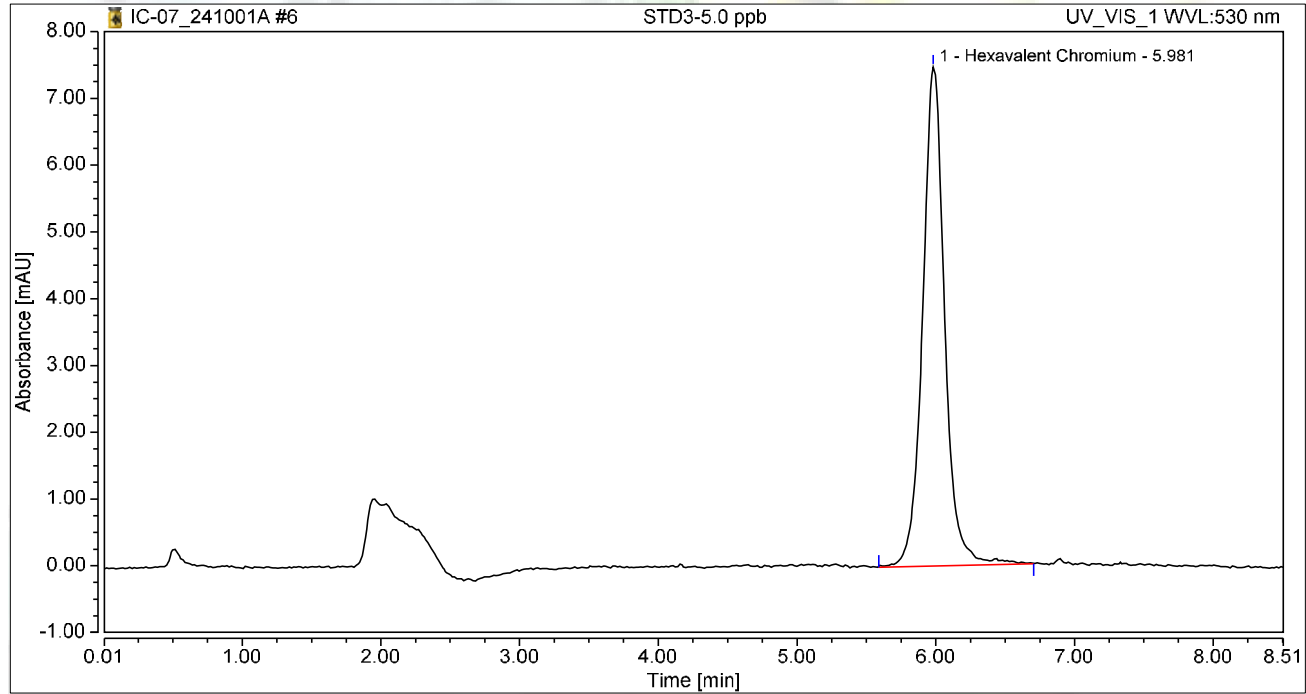
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.981	0.256	1.461	100.00	100.00	0.9449
Total:			0.256	1.461	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD3-5.0 ppb	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	03	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 10:58	Sample Weight:	1.0000

Chromatogram



Integration Results

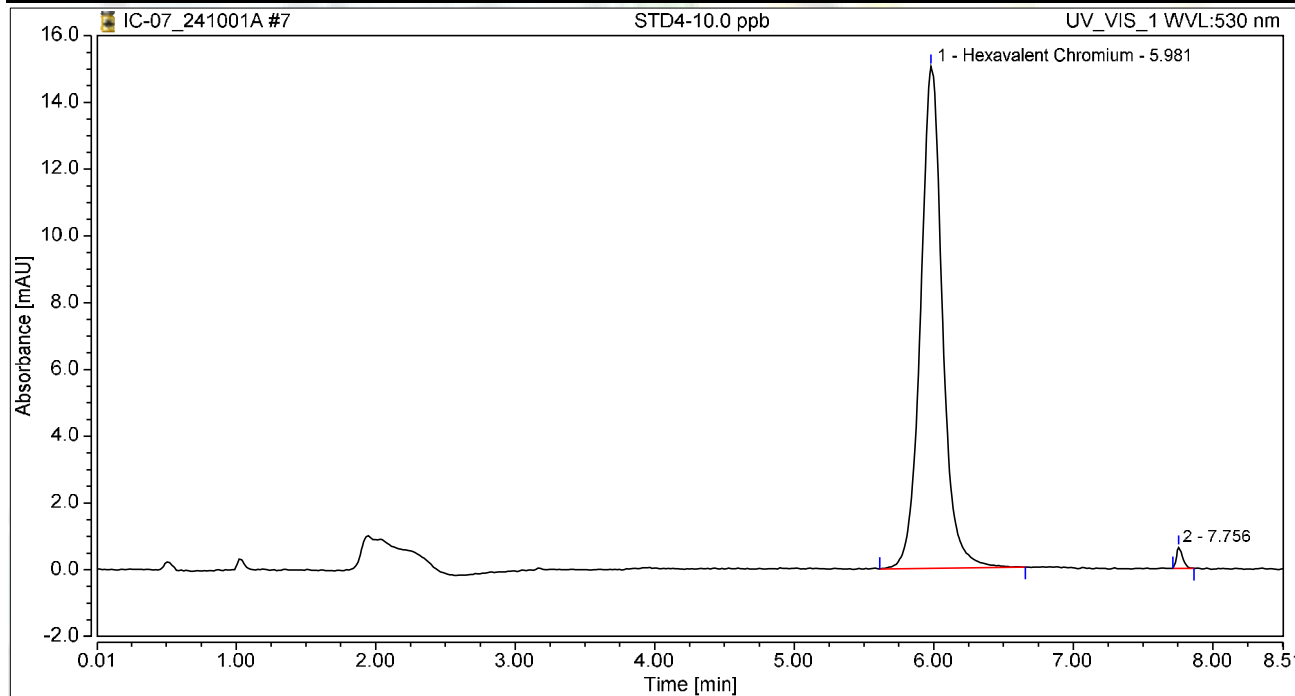
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.981	1.375	7.475	100.00	100.00	5.0630
Total:			1.375	7.475	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD4-10.0 ppb	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	04	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 11:07	Sample Weight:	1.0000

Chromatogram



Integration Results

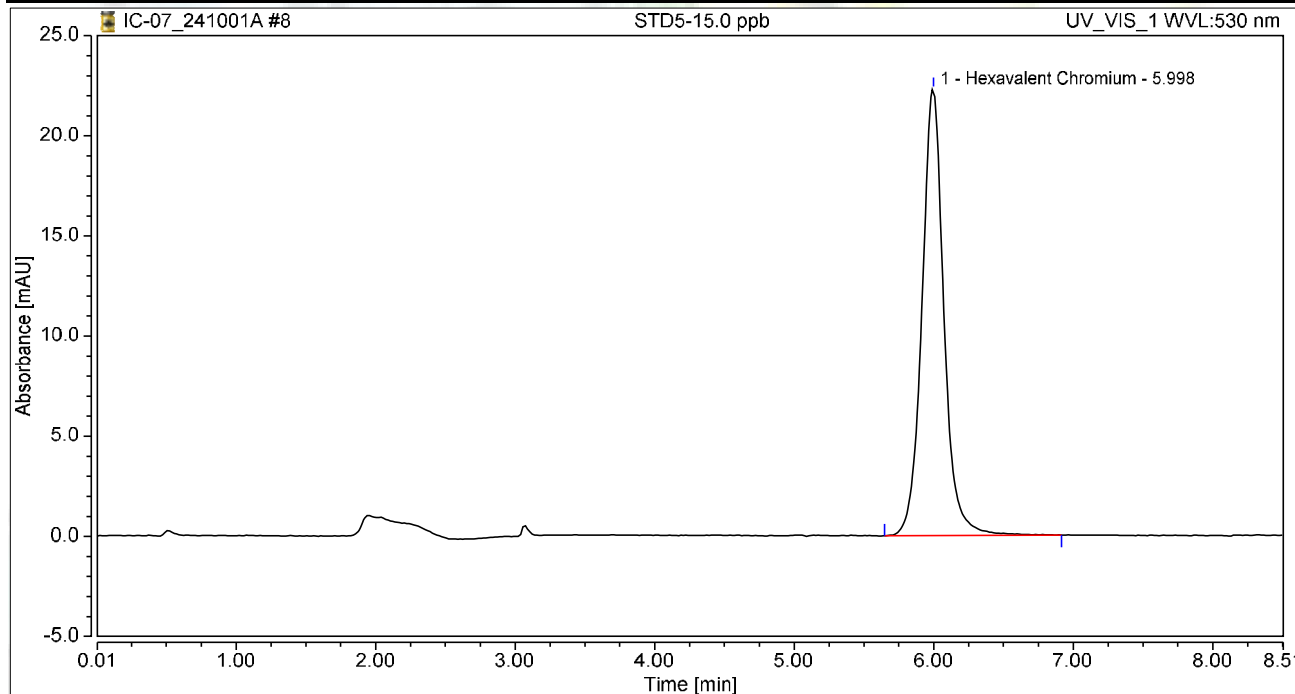
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.981	2.740	15.035	98.84	96.00	10.0919
2		7.756	0.032	0.626	1.16	4.00	n.a.
Total:			2.772	15.661	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD5-15.0 ppb	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	05	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 11:17	Sample Weight:	1.0000

Chromatogram



Integration Results

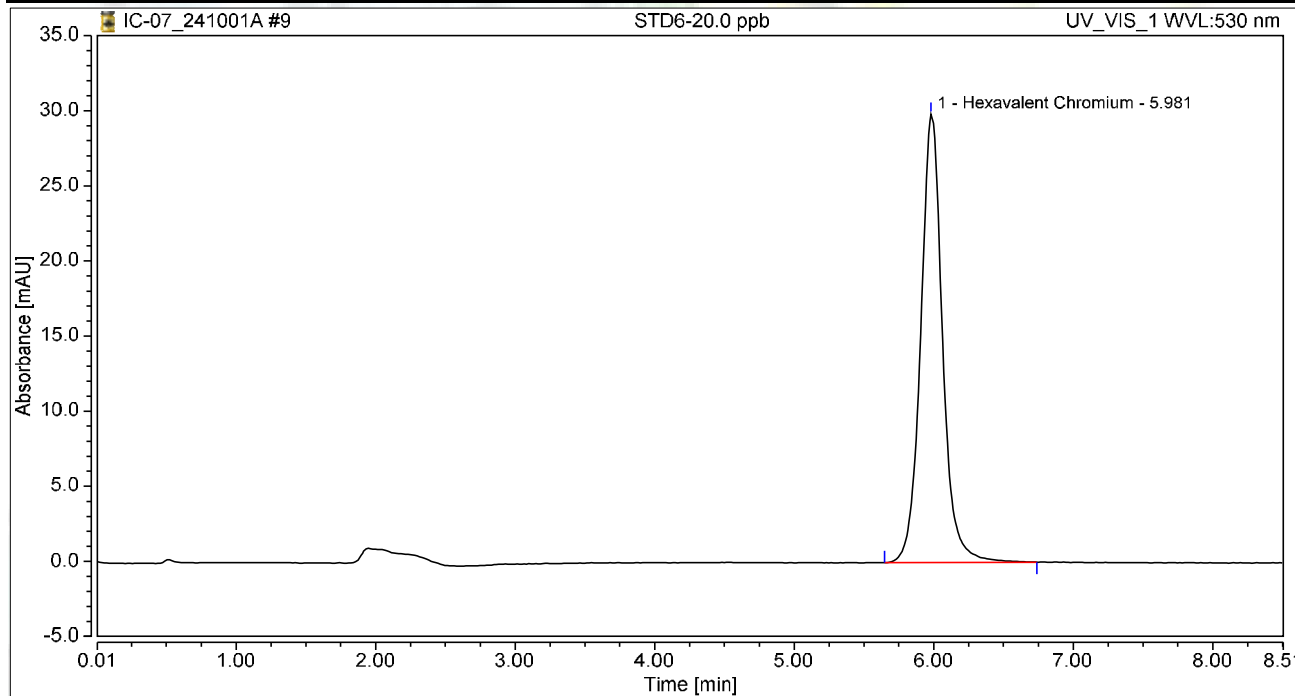
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.998	4.076	22.277	100.00	100.00	15.0127
Total:			4.076	22.277	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD6-20.0 ppb	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	06	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 11:26	Sample Weight:	1.0000

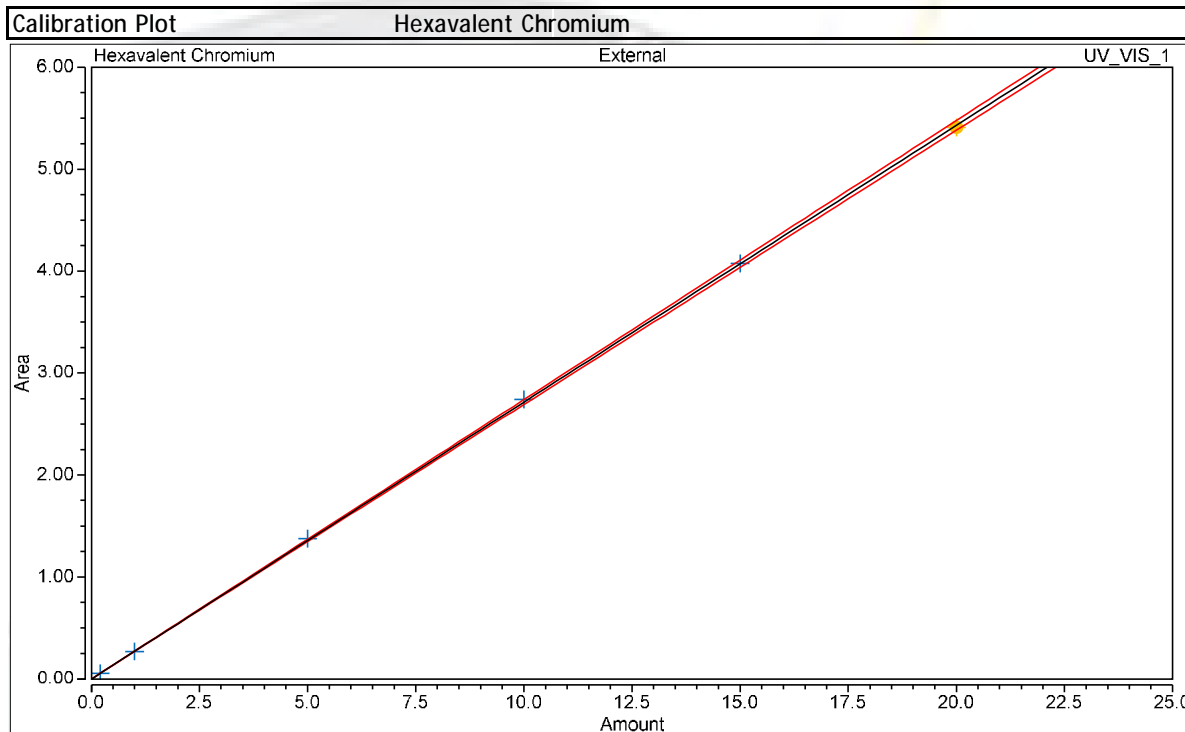
Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.981	5.410	29.843	100.00	100.00	19.9290
Total:			5.410	29.843	100.00	100.00	

Initial Calibration Summary			
Calibration Details		Hexavalent Chromium	
Calibration Type	Lin	Offset (C0)	0.0000
Evaluation Type	Area	Slope (C1)	0.2715
Number of Calibration Points	6	Curve (C2)	0.0000
Number of disabled Calibration Points	0	R-Square	0.99994



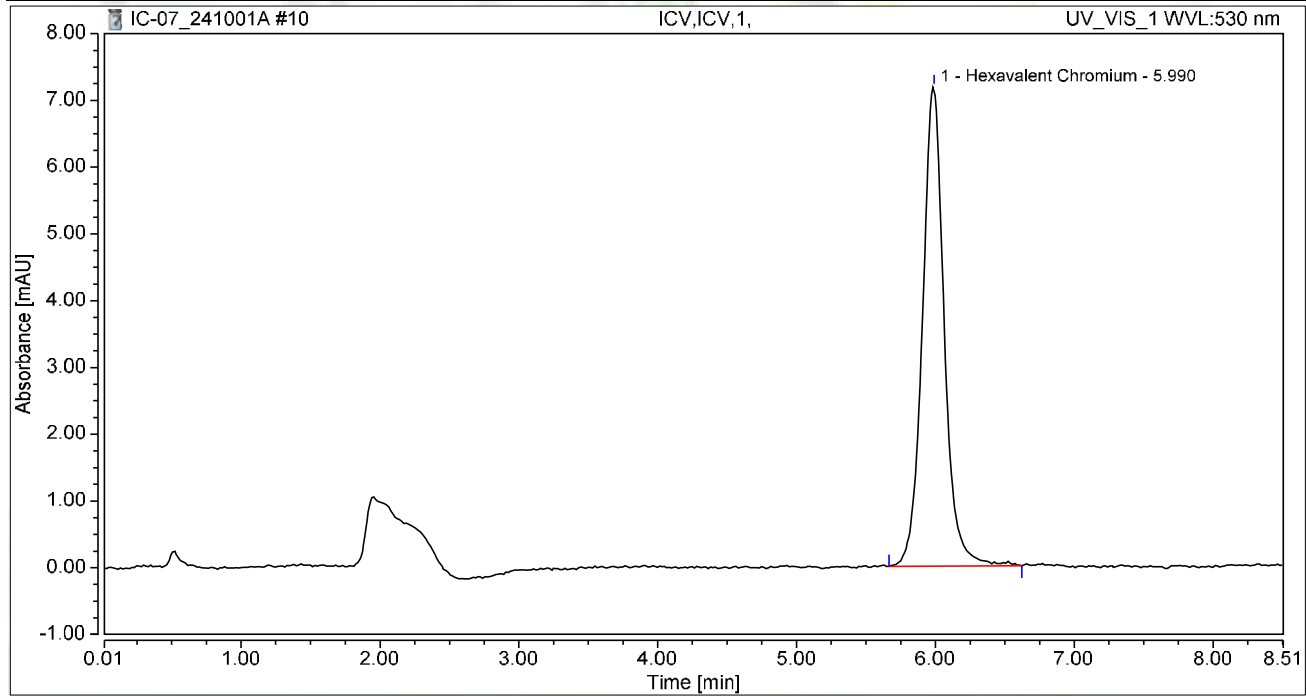
Calibration Results		Hexavalent Chromium				
No.	Injection Name	Calibration Level	X Value	Y Value	Area mAU*min	Height mAU
4	STD1-0.2 ppb	01	0.2000	0.0546	0.055	0.304
5	STD2-1.0 ppb	02	1.0000	0.2704	0.270	1.476
6	STD3-5.0 ppb	03	5.0000	1.3745	1.375	7.475
7	STD4-10.0 ppb	04	10.0000	2.7397	2.740	15.035
8	STD5-15.0 ppb	05	15.0000	4.0756	4.076	22.277
9	STD6-20.0 ppb	06	20.0000	5.4103	5.410	29.843

Chromatogram and Results

Injection Details

Injection Name:	ICV,ICV,1,	Run Time (min):	8.49
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 11:38	Sample Weight:	1.0000

Chromatogram



Integration Results

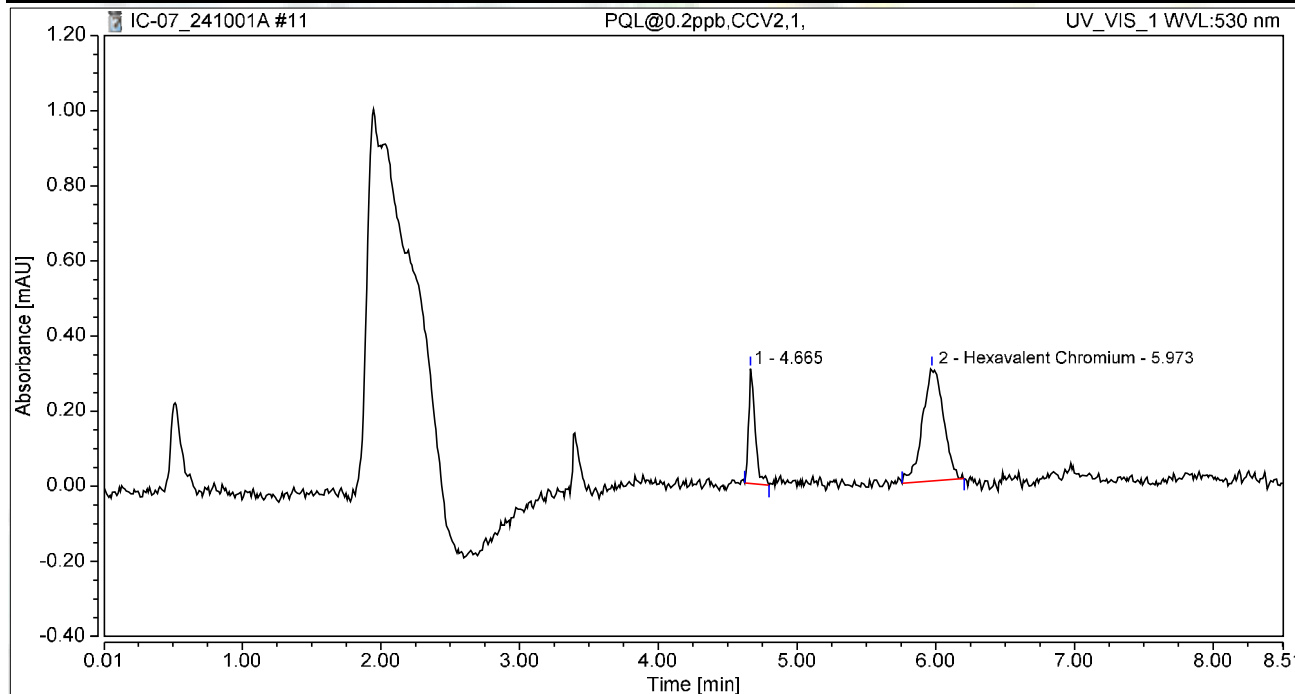
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.990	1.304	7.179	100.00	100.00	4.8023
Total:			1.304	7.179	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 11:48	Sample Weight:	1.0000

Chromatogram



Integration Results

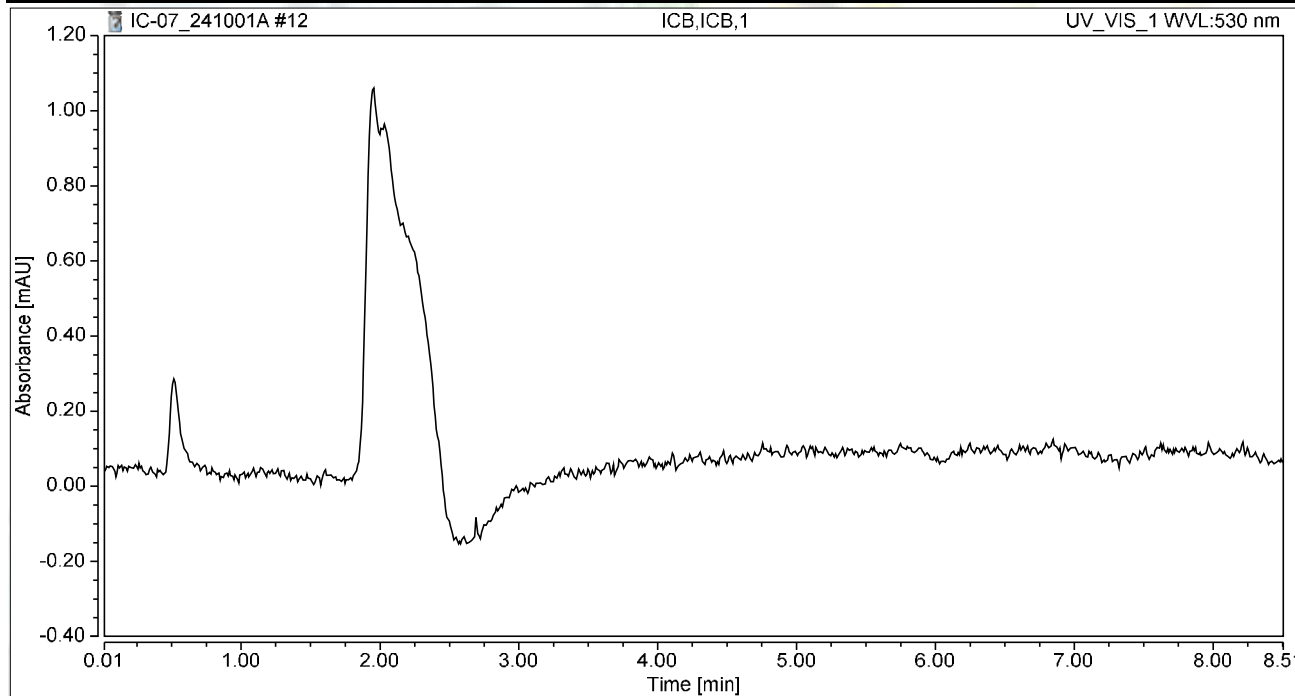
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		4.665	0.017	0.306	24.06	50.53	n.a.
2	Hexavalent Chromium	5.973	0.053	0.299	75.94	49.47	0.1940
Total:			0.069	0.605	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	ICB,ICB,1	Run Time (min):	8.49
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 11:57	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

RAW DATA



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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INJECTION LOG: 241010A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/01/24 10:06 AM	Not Reported
2	BLANK	BLANK	1	Hexavalent Chromium	10/01/24 10:20 AM	Not Reported
3	iBLANK	iBLANK	1	Hexavalent Chromium	10/01/24 10:29 AM	Reported
4	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:39 AM	Reported
5	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:48 AM	Reported
6	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:58 AM	Reported
7	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:07 AM	Reported
8	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:17 AM	Reported
9	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:26 AM	Reported
10	BLANK	BLANK	1	Hexavalent Chromium	10/10/24 9:19 AM	Not Reported
11	CCV-1	CCV	1	Hexavalent Chromium	10/10/24 9:31 AM	Reported
12	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/10/24 9:41 AM	Reported
13	CCB-1	CCB	1	Hexavalent Chromium	10/10/24 9:50 AM	Reported
14	MB-R194172	MBLK	1	Hexavalent Chromium	10/10/24 10:00 AM	Reported
15	LCS-R194172	LCS	1	Hexavalent Chromium	10/10/24 10:25 AM	Reported
16	N069068-021A	SAMP	5	Hexavalent Chromium	10/10/24 10:37 AM	Reported
17	N069069-001A	SAMP	1	Hexavalent Chromium	10/10/24 10:46 AM	Reported
18	N069069-002A	SAMP	1	Hexavalent Chromium	10/10/24 10:55 AM	Reported
19	N069069-003A	SAMP	1	Hexavalent Chromium	10/10/24 11:05 AM	Reported
20	N069069-004A	SAMP	1	Hexavalent Chromium	10/10/24 11:14 AM	Reported
21	N069069-005A	SAMP	1	Hexavalent Chromium	10/10/24 11:24 AM	Reported
22	N069069-006A	SAMP	1	Hexavalent Chromium	10/10/24 11:33 AM	Reported
23	N069069-007A	SAMP	1	Hexavalent Chromium	10/10/24 11:43 AM	Reported
24	CCV-2	CCV1	1	Hexavalent Chromium	10/10/24 11:52 AM	Reported
25	CCB-2	CCB	1	Hexavalent Chromium	10/10/24 12:02 PM	Reported
26	N069064-005A	SAMP	1	Hexavalent Chromium	10/10/24 12:11 PM	Reported
27	N069064-005AMS	MS	1	Hexavalent Chromium	10/10/24 12:21 PM	Reported
28	N069065-011A	SAMP	1	Hexavalent Chromium	10/10/24 12:30 PM	Reported
29	N069065-011AMS	MS	1	Hexavalent Chromium	10/10/24 12:40 PM	Reported
30	N069065-012A	SAMP	1	Hexavalent Chromium	10/10/24 12:49 PM	Reported
31	N069065-012AMS	MS	1	Hexavalent Chromium	10/10/24 12:58 PM	Reported
32	N069068-010A	SAMP	1	Hexavalent Chromium	10/10/24 1:08 PM	Reported
33	N069068-010ADUP	DUP	1	Hexavalent Chromium	10/10/24 1:17 PM	Reported
34	N069105-009A	SAMP	1	Hexavalent Chromium	10/10/24 1:27 PM	Not Reported
35	N069105-009AMS	MS	1	Hexavalent Chromium	10/10/24 1:36 PM	Not Reported
36	CCV-3	CCV	1	Hexavalent Chromium	10/10/24 1:46 PM	Reported
37	CCB-3	CCB	1	Hexavalent Chromium	10/10/24 1:55 PM	Reported
38	N069105-006A	SAMP	1	Hexavalent Chromium	10/10/24 2:05 PM	Reported
39	N069105-006AMS	MS	1	Hexavalent Chromium	10/10/24 2:14 PM	Reported
40	N069105-008A	SAMP	1	Hexavalent Chromium	10/10/24 2:24 PM	Not Reported
41	N069105-008AMS	MS	1	Hexavalent Chromium	10/10/24 2:33 PM	Not Reported
42	N069105-009A	SAMP	5	Hexavalent Chromium	10/10/24 2:42 PM	Reported

INJECTION LOG: 241010A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069105-009AMS	MS	5	Hexavalent Chromium	10/10/24 2:52 PM	Reported
44	N069105-009AMSD	MSD	5	Hexavalent Chromium	10/10/24 3:01 PM	Reported
45	N069108-001A	SAMP	1	Hexavalent Chromium	10/10/24 3:11 PM	Reported
46	N069108-001AMS	MS	1	Hexavalent Chromium	10/10/24 3:20 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	10/10/24 3:30 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	10/10/24 3:39 PM	Reported
49	N069105-001A	SAMP	1	Hexavalent Chromium	10/10/24 3:49 PM	Not Reported
50	N069105-001AMS	MS	1	Hexavalent Chromium	10/10/24 3:58 PM	Not Reported
51	N069105-002A	SAMP	1	Hexavalent Chromium	10/10/24 4:08 PM	Not Reported
52	N069105-002AMS	MS	1	Hexavalent Chromium	10/10/24 4:17 PM	Not Reported
53	N069105-003A	SAMP	1	Hexavalent Chromium	10/10/24 4:27 PM	Not Reported
54	N069105-003AMS	MS	1	Hexavalent Chromium	10/10/24 4:36 PM	Not Reported
55	N069105-004A	SAMP	1	Hexavalent Chromium	10/10/24 4:45 PM	Not Reported
56	N069105-004AMS	MS	1	Hexavalent Chromium	10/10/24 4:55 PM	Not Reported
57	N069105-001A	SAMP	5	Hexavalent Chromium	10/10/24 5:04 PM	Reported
58	N069105-001AMS	MS	5	Hexavalent Chromium	10/10/24 5:14 PM	Reported
59	CCV-5	CCV	1	Hexavalent Chromium	10/10/24 5:23 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	10/10/24 5:33 PM	Reported
61	N069105-002A	SAMP	5	Hexavalent Chromium	10/10/24 5:42 PM	Reported
62	N069105-002AMS	MS	5	Hexavalent Chromium	10/10/24 5:52 PM	Reported
63	N069105-003A	SAMP	5	Hexavalent Chromium	10/10/24 6:05 PM	Reported
64	N069105-003AMS	MS	5	Hexavalent Chromium	10/10/24 6:15 PM	Reported
65	N069105-004A	SAMP	5	Hexavalent Chromium	10/10/24 6:25 PM	Reported
66	N069105-004AMS	MS	5	Hexavalent Chromium	10/10/24 6:34 PM	Reported
67	MB-R194173	MBLK	1	Hexavalent Chromium	10/10/24 6:44 PM	Reported
68	LCS-R194173	LCS	1	Hexavalent Chromium	10/10/24 6:53 PM	Reported
69	N069103-006A	SAMP	1	Hexavalent Chromium	10/10/24 7:03 PM	Reported
70	N069103-006AMS	MS	1	Hexavalent Chromium	10/10/24 7:12 PM	Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	10/10/24 7:22 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	10/10/24 7:31 PM	Reported
73	N069103-006AMSD	MSD	1	Hexavalent Chromium	10/10/24 7:41 PM	Reported
74	N069103-011A	SAMP	1	Hexavalent Chromium	10/10/24 7:50 PM	Reported
75	N069103-011ADUP	DUP	1	Hexavalent Chromium	10/10/24 8:00 PM	Reported
76	N069105-005A	SAMP	1	Hexavalent Chromium	10/10/24 8:09 PM	Not Reported
77	N069105-005AMS	MS	1	Hexavalent Chromium	10/10/24 8:18 PM	Not Reported
78	N069105-010A	SAMP	5	Hexavalent Chromium	10/10/24 8:28 PM	Reported
79	N069105-010AMS	MS	5	Hexavalent Chromium	10/10/24 8:37 PM	Reported
80	N069105-011A	SAMP	1	Hexavalent Chromium	10/10/24 8:47 PM	Not Reported
81	N069105-011AMS	MS	1	Hexavalent Chromium	10/10/24 8:56 PM	Not Reported
82	N069105-012A	SAMP	1	Hexavalent Chromium	10/10/24 9:06 PM	Not Reported
83	CCV-7	CCV	1	Hexavalent Chromium	10/10/24 9:15 PM	Reported
84	CCB-7	CCB	1	Hexavalent Chromium	10/10/24 9:25 PM	Reported

INJECTION LOG: 241010A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N069105-012AMS	MS	1	Hexavalent Chromium	10/10/24 9:34 PM	Not Reported
86	N069105-013A	SAMP	1	Hexavalent Chromium	10/10/24 9:44 PM	Reported
87	N069105-013AMS	MS	1	Hexavalent Chromium	10/10/24 9:53 PM	Reported
88	N069105-014A	SAMP	1	Hexavalent Chromium	10/10/24 10:02 PM	Reported
89	N069105-014AMS	MS	1	Hexavalent Chromium	10/10/24 10:12 PM	Reported
90	N069104-001A	SAMP	1	Hexavalent Chromium	10/10/24 10:21 PM	Reported
91	N069104-001AMS	MS	1	Hexavalent Chromium	10/10/24 10:31 PM	Reported
92	N069109-001A	SAMP	1	Hexavalent Chromium	10/10/24 10:40 PM	Reported
93	N069109-001AMS	MS	1	Hexavalent Chromium	10/10/24 10:50 PM	Reported
94	N069109-002A	SAMP	1	Hexavalent Chromium	10/10/24 10:59 PM	Reported
95	CCV-8	CCV1	1	Hexavalent Chromium	10/10/24 11:09 PM	Reported
96	CCB-8	CCB	1	Hexavalent Chromium	10/10/24 11:18 PM	Reported
97	N069109-002AMS	MS	1	Hexavalent Chromium	10/10/24 11:28 PM	Reported
98	N069109-003A	SAMP	1	Hexavalent Chromium	10/10/24 11:37 PM	Reported
99	N069109-003AMS	MS	1	Hexavalent Chromium	10/10/24 11:46 PM	Reported
100	N069103-001A	SAMP	1	Hexavalent Chromium	10/10/24 11:56 PM	Reported
101	N069103-002A	SAMP	1	Hexavalent Chromium	10/11/24 12:05 AM	Reported
102	N069103-003A	SAMP	1	Hexavalent Chromium	10/11/24 12:15 AM	Not Reported
103	N069103-004A	SAMP	1	Hexavalent Chromium	10/11/24 12:24 AM	Reported
104	N069103-005A	SAMP	1	Hexavalent Chromium	10/11/24 12:34 AM	Reported
105	N069103-007A	SAMP	1	Hexavalent Chromium	10/11/24 12:43 AM	Not Reported
106	CCV-9	CCV	1	Hexavalent Chromium	10/11/24 12:53 AM	Reported
107	CCB-9	CCB	1	Hexavalent Chromium	10/11/24 1:02 AM	Reported
108	N069103-008A	SAMP	1	Hexavalent Chromium	10/11/24 1:12 AM	Reported
109	N069103-009A	SAMP	1	Hexavalent Chromium	10/11/24 1:21 AM	Reported
110	CCV-10	CCV1	1	Hexavalent Chromium	10/11/24 1:31 AM	Reported
111	CCB-10	CCB	1	Hexavalent Chromium	10/11/24 1:40 AM	Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241010A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	11/Oct/24 02:10:46
No. of Injections:	114	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/01/2024 10:06	Finished	BLANK
2	BLANK	2	1000	Unknown		10/01/2024 10:20	Finished	BLANK
3	BLANK	3	1000	Unknown		10/01/2024 10:29	Finished	INSTRUMENT BLANK
4	STD1-0.2 ppb	4	1000	Calibration Standard	01	10/01/2024 10:39	Finished	0.2 ppb, IWST-240729A, 2uL>
5	STD2-1.0 ppb	5	1000	Calibration Standard	02	10/01/2024 10:48	Finished	1.0 ppb, IWST-240729A, 10uL>
6	STD3-5.0 ppb	6	1000	Calibration Standard	03	10/01/2024 10:58	Finished	5.0 ppb, IWST-240729A, 50uL>
7	STD4-10.0 ppb	7	1000	Calibration Standard	04	10/01/2024 11:07	Finished	10 ppb, IWST-240729A, 100uL>
8	STD5-15.0 ppb	8	1000	Calibration Standard	05	10/01/2024 11:17	Finished	15 ppb, IWST-240729A, 150uL>
9	STD6-20.0 ppb	9	1000	Calibration Standard	06	10/01/2024 11:26	Finished	20 ppb, IWST-240729A, 200uL>
10	BLANK	1	1000	Unknown		10/10/2024 09:19	Finished	BLANK
11	CCV-1,CCV,1,	2	1000	Unknown		10/10/2024 09:31	Finished	CCV @5ppb, IWST-240729A
12	PQL@0.2ppb,CCV2,	3	1000	Unknown		10/10/2024 09:41	Finished	PQL @ 0.2ppb
13	CCB-1,CCB,1,	4	1000	Unknown		10/10/2024 09:50	Finished	CCB R240923C
14	MB-H2O,MBLK,1,	5	1000	Unknown		10/10/2024 10:00	Finished	MB R240923C
15	LCS-H2O,LCS,1,	1	1000	Unknown		10/10/2024 10:25	Finished	LCS @5ppb, IWST-240729B
16	N069068-021A,SAMP	2	1000	Unknown		10/10/2024 10:37	Finished	SAMP,2>10 mL
17	N069069-001A,SAMP	3	1000	Unknown		10/10/2024 10:46	Finished	SAMP,10 mL
18	N069069-002A,SAMP	4	1000	Unknown		10/10/2024 10:55	Finished	SAMP,10 mL
19	N069069-003A,SAMP	5	1000	Unknown		10/10/2024 11:05	Finished	SAMP,10 mL
20	N069069-004A,SAMP	6	1000	Unknown		10/10/2024 11:14	Finished	SAMP,10 mL
21	N069069-005A,SAMP	7	1000	Unknown		10/10/2024 11:24	Finished	SAMP,10 mL
22	N069069-006A,SAMP	8	1000	Unknown		10/10/2024 11:33	Finished	SAMP,10 mL
23	N069069-007A,SAMP	9	1000	Unknown		10/10/2024 11:43	Finished	SAMP,10 mL
24	CCV-2,CCV1,1,	10	1000	Unknown		10/10/2024 11:52	Finished	CCV @10ppb, IWST-240729A
25	CCB-2,CCB,1,	11	1000	Unknown		10/10/2024 12:02	Finished	CCB R240923C
26	N069064-005A,SAMP	12	1000	Unknown		10/10/2024 12:11	Finished	SAMP,10 mL
27	N069064-005AMS,M	13	1000	Unknown		10/10/2024 12:21	Finished	MS (1ppb), IWST-240729B,10r
28	N069065-011A,SAMP	14	1000	Unknown		10/10/2024 12:30	Finished	SAMP,10 mL
29	N069065-011AMS,M	15	1000	Unknown		10/10/2024 12:40	Finished	MS (1ppb), IWST-240729B,10r
30	N069065-012A,SAMP	16	1000	Unknown		10/10/2024 12:49	Finished	SAMP,10 mL
31	N069065-012AMS,M	17	1000	Unknown		10/10/2024 12:58	Finished	MS (1ppb), IWST-240729B,10r
32	N069068-010A,SAMP	18	1000	Unknown		10/10/2024 13:08	Finished	SAMP,10 mL
33	N069068-010ADUP,D	19	1000	Unknown		10/10/2024 13:17	Finished	DUP,10 mL
34	N069105-009A,SAMP	20	1000	Unknown		10/10/2024 13:27	Finished	SAMP,10 mL
35	N069105-009AMS,M	21	1000	Unknown		10/10/2024 13:36	Finished	MS (1ppb), IWST-240729B,10r
36	CCV-3,CCV,1,	22	1000	Unknown		10/10/2024 13:46	Finished	CCV @5ppb, IWST-240729A
37	CCB-3,CCB,1,	23	1000	Unknown		10/10/2024 13:55	Finished	CCB R240923C
38	N069105-006A,SAMP	24	1000	Unknown		10/10/2024 14:05	Finished	SAMP,10 mL
39	N069105-006AMS,M	25	1000	Unknown		10/10/2024 14:14	Finished	MS (1ppb), IWST-240729B,10r
40	N069105-008A,SAMP	26	1000	Unknown		10/10/2024 14:24	Finished	SAMP,10 mL
41	N069105-008AMS,M	27	1000	Unknown		10/10/2024 14:33	Finished	MS (1ppb), IWST-240729B,10r
42	N069105-009A,SAMP	28	1000	Unknown		10/10/2024 14:42	Finished	SAMP,2>10 mL
43	N069105-009AMS,M	29	1000	Unknown		10/10/2024 14:52	Finished	MS (1ppb), IWST-240729B,2>
44	N069105-009AMSD,I	30	1000	Unknown		10/10/2024 15:01	Finished	MSD (1ppb), IWST-240729B,2>
45	N069108-001A,SAMP	31	1000	Unknown		10/10/2024 15:11	Finished	SAMP,10 mL
46	N069108-001AMS,M	32	1000	Unknown		10/10/2024 15:20	Finished	MS (1ppb), IWST-240729B,10r
47	CCV-4,CCV1,1,	33	1000	Unknown		10/10/2024 15:30	Finished	CCV @10ppb, IWST-240729A
48	CCB-4,CCB,1,	34	1000	Unknown		10/10/2024 15:39	Finished	CCB R240923C
49	N069105-001A,SAMP	35	1000	Unknown		10/10/2024 15:49	Finished	SAMP,10 mL
50	N069105-001AMS,M	36	1000	Unknown		10/10/2024 15:58	Finished	MS (1ppb), IWST-240729B,10r
51	N069105-002A,SAMP	37	1000	Unknown		10/10/2024 16:08	Finished	SAMP,10 mL
52	N069105-002AMS,M	38	1000	Unknown		10/10/2024 16:17	Finished	MS (1ppb), IWST-240729B,10r
53	N069105-003A,SAMP	39	1000	Unknown		10/10/2024 16:27	Finished	SAMP,10 mL
54	N069105-003AMS,M	40	1000	Unknown		10/10/2024 16:36	Finished	MS (1ppb), IWST-240729B,10r
55	N069105-004A,SAMP	41	1000	Unknown		10/10/2024 16:45	Finished	SAMP,10 mL
56	N069105-004AMS,M	42	1000	Unknown		10/10/2024 16:55	Finished	MS (1ppb), IWST-240729B,10r
57	N069105-001A,SAMP	43	1000	Unknown		10/10/2024 17:04	Finished	SAMP,2>10 mL
58	N069105-001AMS,M	44	1000	Unknown		10/10/2024 17:14	Finished	MS (1ppb), IWST-240729B,2>
59	CCV-5,CCV,1,	45	1000	Unknown		10/10/2024 17:23	Finished	CCV @5ppb, IWST-240729A
60	CCB-5,CCB,1,	46	1000	Unknown		10/10/2024 17:33	Finished	CCB R240923C

61	N069105-002A,SAMF	47	1000	Unknown	10/10/2024 17:42	Finished	SAMP,2>10 mL
62	N069105-002AMS,M\$	48	1000	Unknown	10/10/2024 17:52	Finished	MS (1ppb), IWST-240729B,2>
63	N069105-003A,SAMF	1	1000	Unknown	10/10/2024 18:05	Finished	SAMP,2>10 mL
64	N069105-003AMS,M\$	2	1000	Unknown	10/10/2024 18:15	Finished	MS (1ppb), IWST-240729B,2>
65	N069105-004A,SAMF	3	1000	Unknown	10/10/2024 18:25	Finished	SAMP,2>10 mL
66	N069105-004AMS,M\$	4	1000	Unknown	10/10/2024 18:34	Finished	MS (1ppb), IWST-240729B,2>
67	MB-2,MBLK,1,	5	1000	Unknown	10/10/2024 18:44	Finished	MB R240923C
68	LCS-2,LCS,1,	6	1000	Unknown	10/10/2024 18:53	Finished	LCS @5ppb, IWST-240729B
69	N069103-006A,SAMF	7	1000	Unknown	10/10/2024 19:03	Finished	SAMP,10 mL
70	N069103-006AMS,M\$	8	1000	Unknown	10/10/2024 19:12	Finished	MS (1ppb), IWST-240729B,10r
71	CCV-6,CCV1,1,	9	1000	Unknown	10/10/2024 19:22	Finished	CCV @10ppb, IWST-240729A
72	CCB-6,CCB,1,	10	1000	Unknown	10/10/2024 19:31	Finished	CCB R240923C
73	N069103-006AMSD,N	11	1000	Unknown	10/10/2024 19:41	Finished	MSD (1ppb), IWST-240729B,1
74	N069103-011A,SAMF	12	1000	Unknown	10/10/2024 19:50	Finished	SAMP,10 mL
75	N069103-011ADUP,D	13	1000	Unknown	10/10/2024 20:00	Finished	DUP,10 mL
76	N069105-005A,SAMF	14	1000	Unknown	10/10/2024 20:09	Finished	SAMP,10 mL
77	N069105-005AMS,M\$	15	1000	Unknown	10/10/2024 20:18	Finished	MS (1ppb), IWST-240729B,10r
78	N069105-010A,SAMF	16	1000	Unknown	10/10/2024 20:28	Finished	SAMP,2>10 mL
79	N069105-010AMS,M\$	17	1000	Unknown	10/10/2024 20:37	Finished	MS (5ppb), IWST-240729B,2>
80	N069105-011A,SAMF	18	1000	Unknown	10/10/2024 20:47	Finished	SAMP,10 mL
81	N069105-011AMS,M\$	19	1000	Unknown	10/10/2024 20:56	Finished	MS (1ppb), IWST-240729B,10r
82	N069105-012A,SAMF	20	1000	Unknown	10/10/2024 21:06	Finished	SAMP,10 mL
83	CCV-7,CCV,1,	21	1000	Unknown	10/10/2024 21:15	Finished	CCV @5ppb, IWST-240729A
84	CCB-7,CCB,1,	22	1000	Unknown	10/10/2024 21:25	Finished	CCB R240923C
85	N069105-012AMS,M\$	23	1000	Unknown	10/10/2024 21:34	Finished	MS (1ppb), IWST-240729B,10r
86	N069105-013A,SAMF	24	1000	Unknown	10/10/2024 21:44	Finished	SAMP,10 mL
87	N069105-013AMS,M\$	25	1000	Unknown	10/10/2024 21:53	Finished	MS (1ppb), IWST-240729B,10r
88	N069105-014A,SAMF	26	1000	Unknown	10/10/2024 22:02	Finished	SAMP,10 mL
89	N069105-014AMS,M\$	27	1000	Unknown	10/10/2024 22:12	Finished	MS (1ppb), IWST-240729B,10r
90	N069104-001A,SAMF	28	1000	Unknown	10/10/2024 22:21	Finished	SAMP,10 mL
91	N069104-001AMS,M\$	29	1000	Unknown	10/10/2024 22:31	Finished	MS (1ppb), IWST-240729B,10r
92	N069109-001A,SAMF	30	1000	Unknown	10/10/2024 22:40	Finished	SAMP,10 mL
93	N069109-001AMS,M\$	31	1000	Unknown	10/10/2024 22:50	Finished	MS (1ppb), IWST-240729B,10r
94	N069109-002A,SAMF	32	1000	Unknown	10/10/2024 22:59	Finished	SAMP,10 mL
95	CCV-8,CCV1,1,	33	1000	Unknown	10/10/2024 23:09	Finished	CCV @10ppb, IWST-240729A
96	CCB-8,CCB,1,	34	1000	Unknown	10/10/2024 23:18	Finished	CCB R240923C
97	N069109-002AMS,M\$	35	1000	Unknown	10/10/2024 23:28	Finished	MS (1ppb), IWST-240729B,10r
98	N069109-003A,SAMF	36	1000	Unknown	10/10/2024 23:37	Finished	SAMP,10 mL
99	N069109-003AMS,M\$	37	1000	Unknown	10/10/2024 23:46	Finished	MS (1ppb), IWST-240729B,10r
100	N069103-001A,SAMF	38	1000	Unknown	10/10/2024 23:56	Finished	SAMP,10 mL
101	N069103-002A,SAMF	39	1000	Unknown	10/11/2024 00:05	Finished	SAMP,10 mL
102	N069103-003A,SAMF	40	1000	Unknown	10/11/2024 00:15	Finished	SAMP,10 mL
103	N069103-004A,SAMF	41	1000	Unknown	10/11/2024 00:24	Finished	SAMP,10 mL
104	N069103-005A,SAMF	42	1000	Unknown	10/11/2024 00:34	Finished	SAMP,10 mL
105	N069103-007A,SAMF	43	1000	Unknown	10/11/2024 00:43	Finished	SAMP,10 mL
106	CCV-9,CCV,1,	44	1000	Unknown	10/11/2024 00:53	Finished	CCV @5ppb, IWST-240729A
107	CCB-9,CCB,1,	45	1000	Unknown	10/11/2024 01:02	Finished	CCB R240923C
108	N069103-008A,SAMF	46	1000	Unknown	10/11/2024 01:12	Finished	SAMP,10 mL
109	N069103-009A,SAMF	47	1000	Unknown	10/11/2024 01:21	Finished	SAMP,10 mL
110	CCV-10,CCV1,1,	48	1000	Unknown	10/11/2024 01:31	Finished	CCV @10ppb, IWST-240729A
111	CCB-10,CCB,1,	49	1000	Unknown	10/11/2024 01:40	Finished	CCB R240923C
112	SHUTDOWN	50	1000	Unknown	10/11/2024 01:49	Finished	
113	Eluent: R241007A	51	1000	Unknown	n.a.	Finished	
114	PCR: R241007B	CurrentVial	1000	Unknown	n.a.	Finished	

Reviewed by:

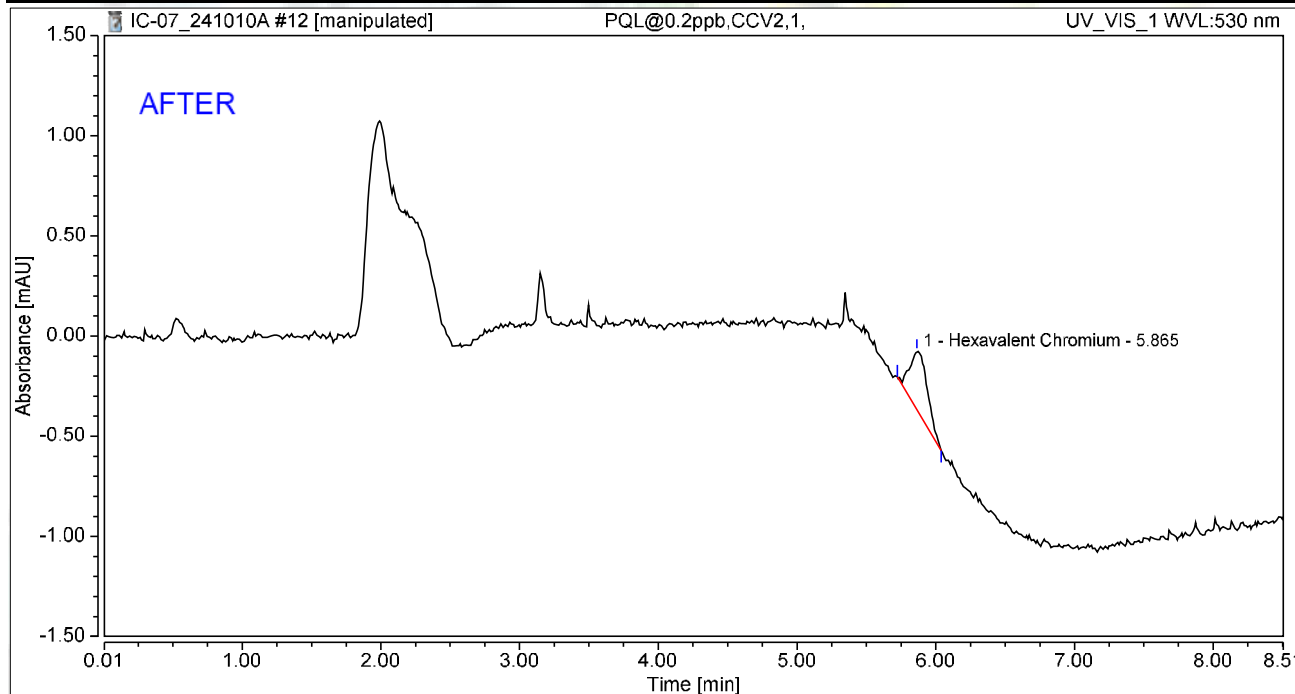
M Rocha 10/15/2024

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 09:41	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.865	0.044	0.292	100.00	100.00	0.1634
Total:			0.044	0.292	100.00	100.00	

Reviewed by:

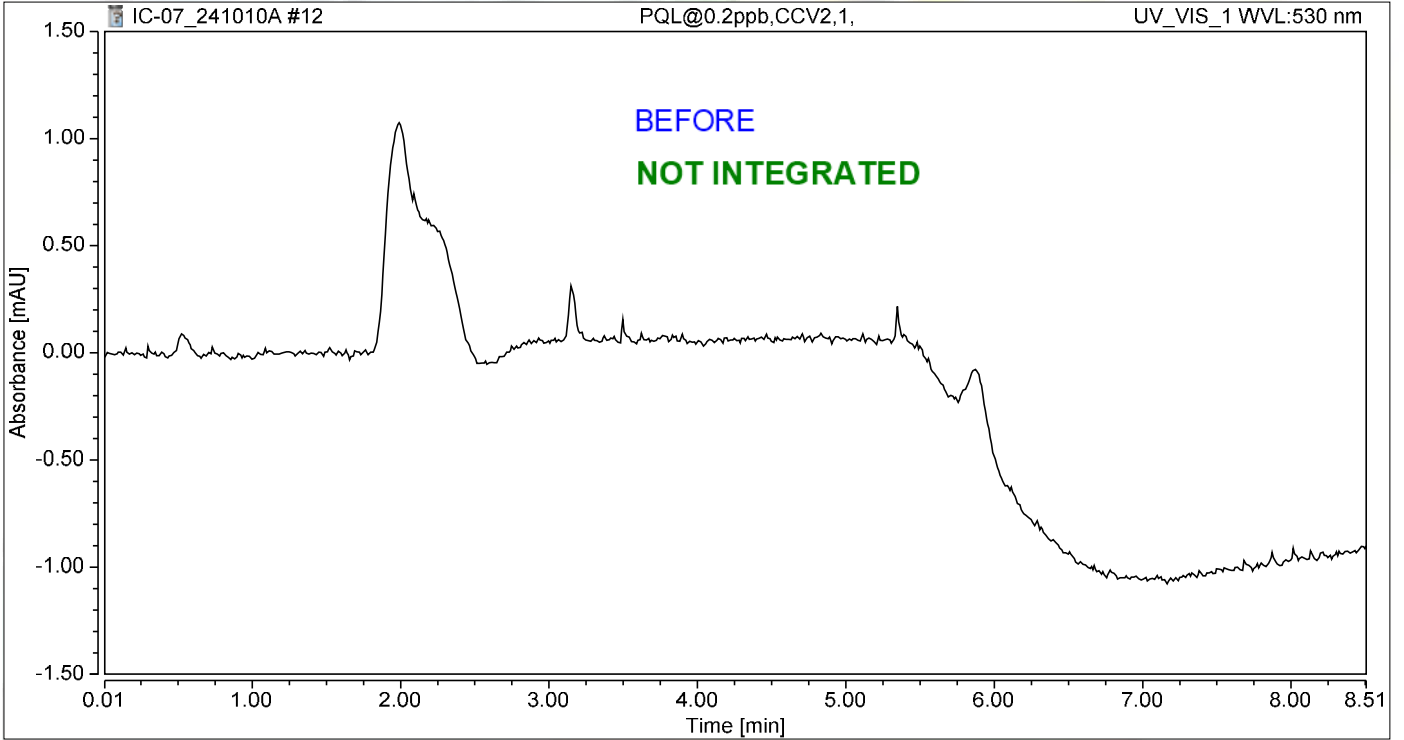
dRocha 10/15/2024

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 09:41	Sample Weight:	1.0000

Chromatogram



Integration Results

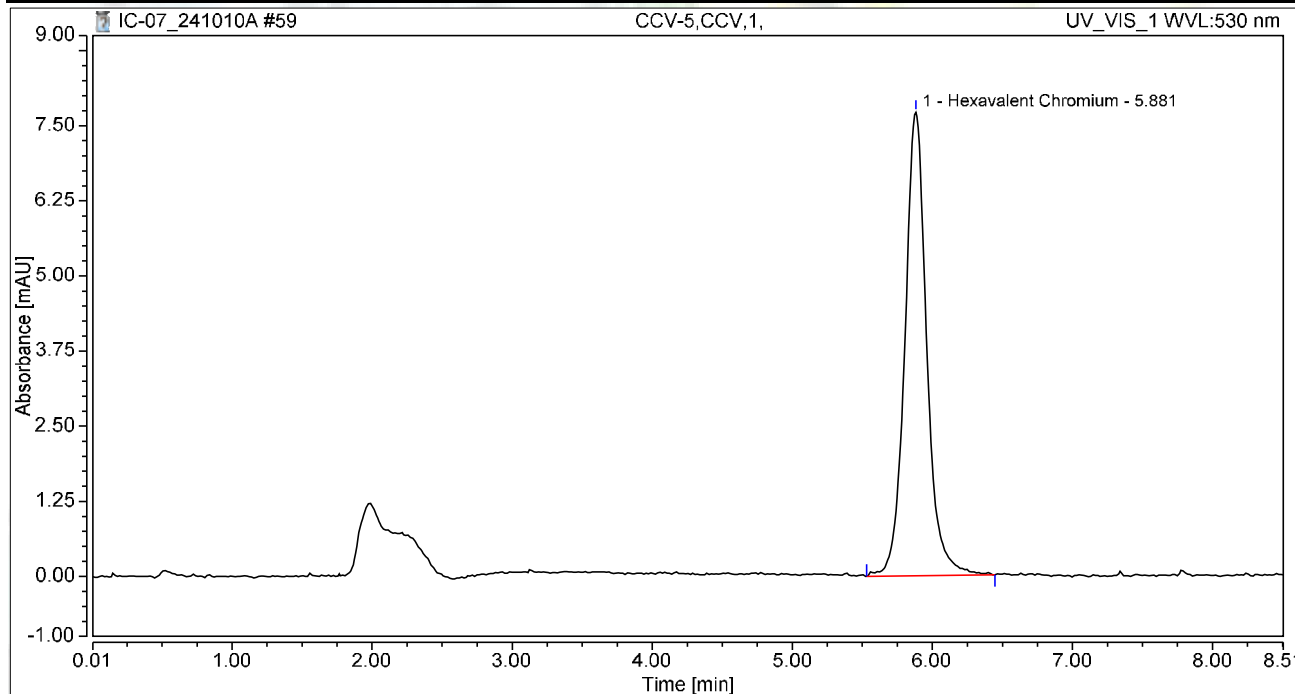
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.50
Vial Number:	45	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 17:23	Sample Weight:	1.0000

Chromatogram



Integration Results

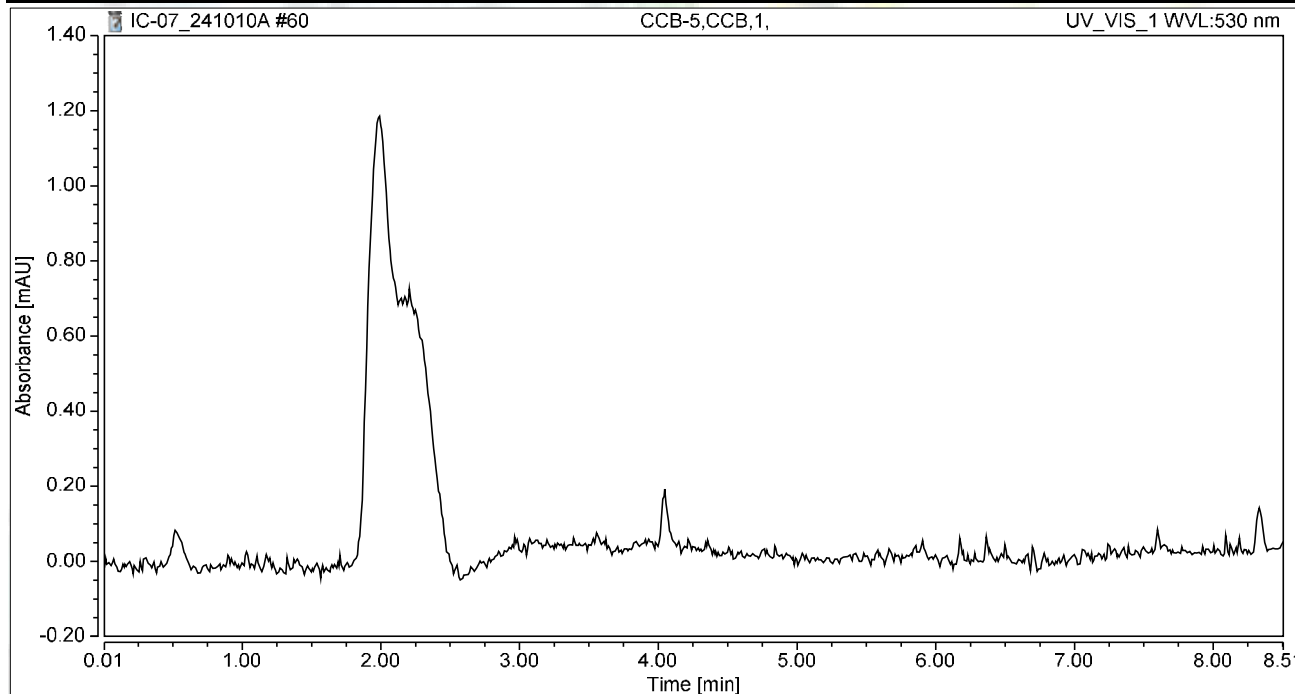
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.881	1.394	7.717	100.00	100.00	5.1333
Total:			1.394	7.717	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.50
Vial Number:	46	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 17:33	Sample Weight:	1.0000

Chromatogram



Integration Results

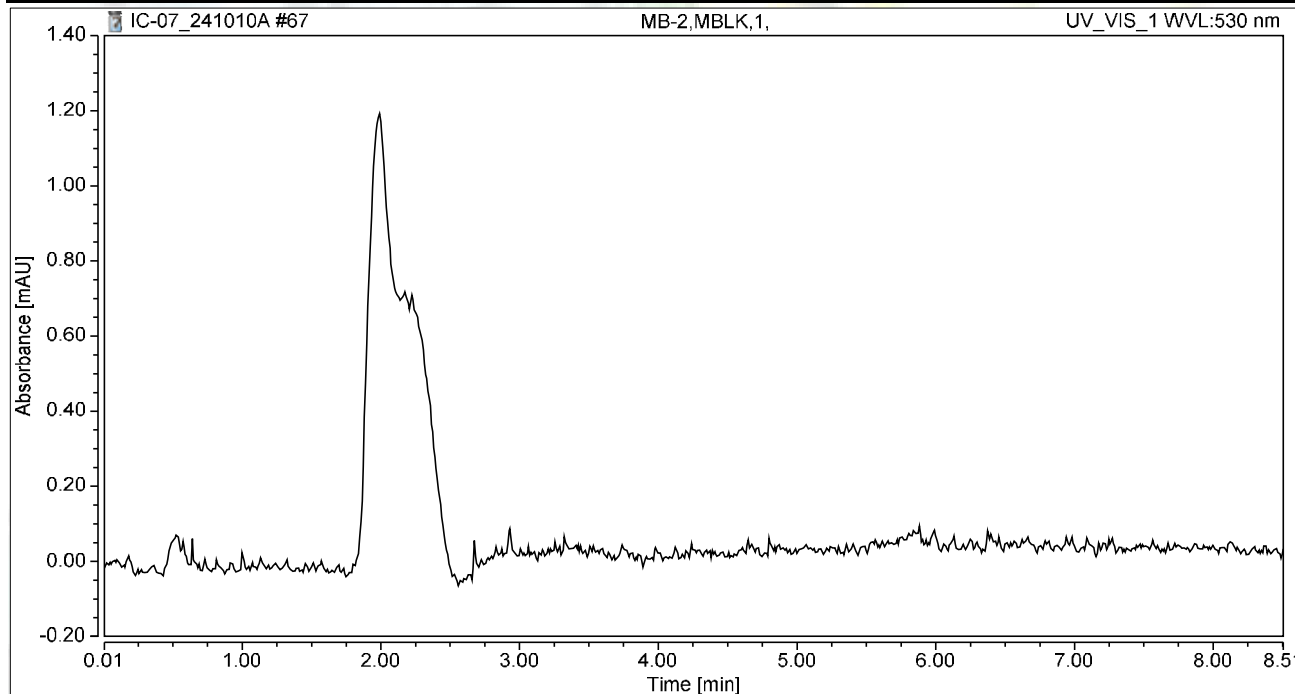
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-2,MBLK,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 18:44	Sample Weight:	1.0000

Chromatogram



Integration Results

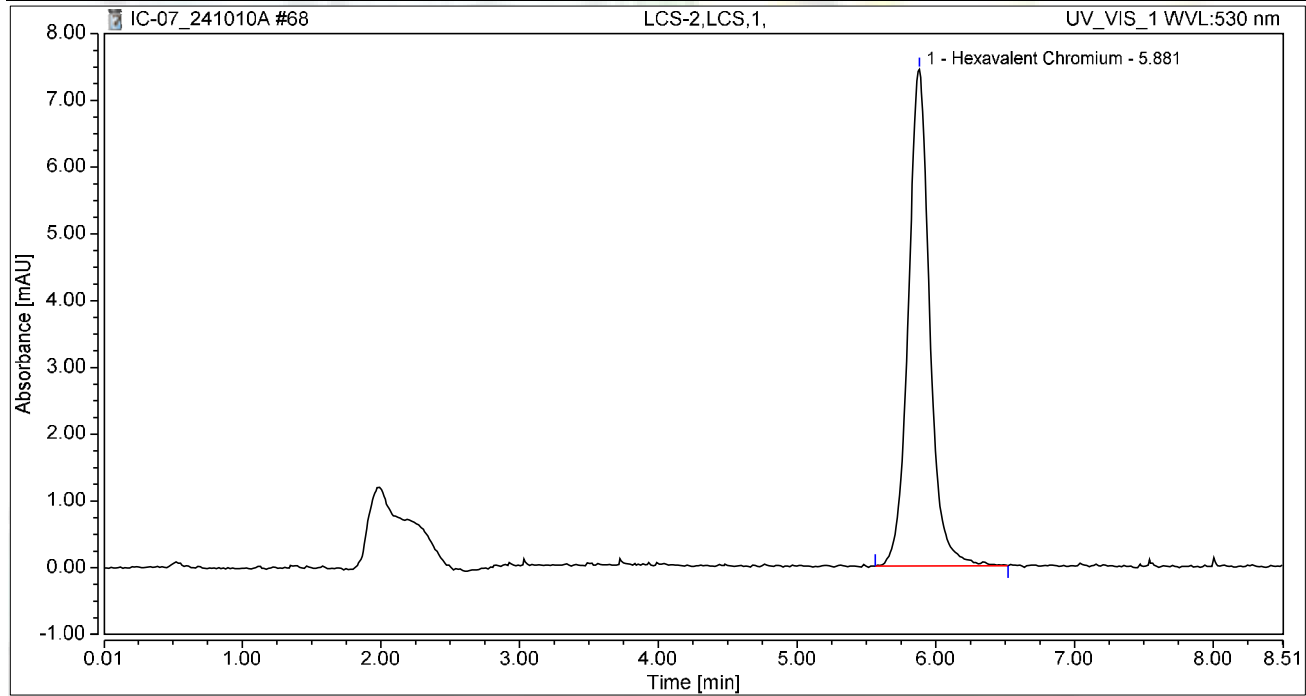
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-2,LCS,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 18:53	Sample Weight:	1.0000

Chromatogram



Integration Results

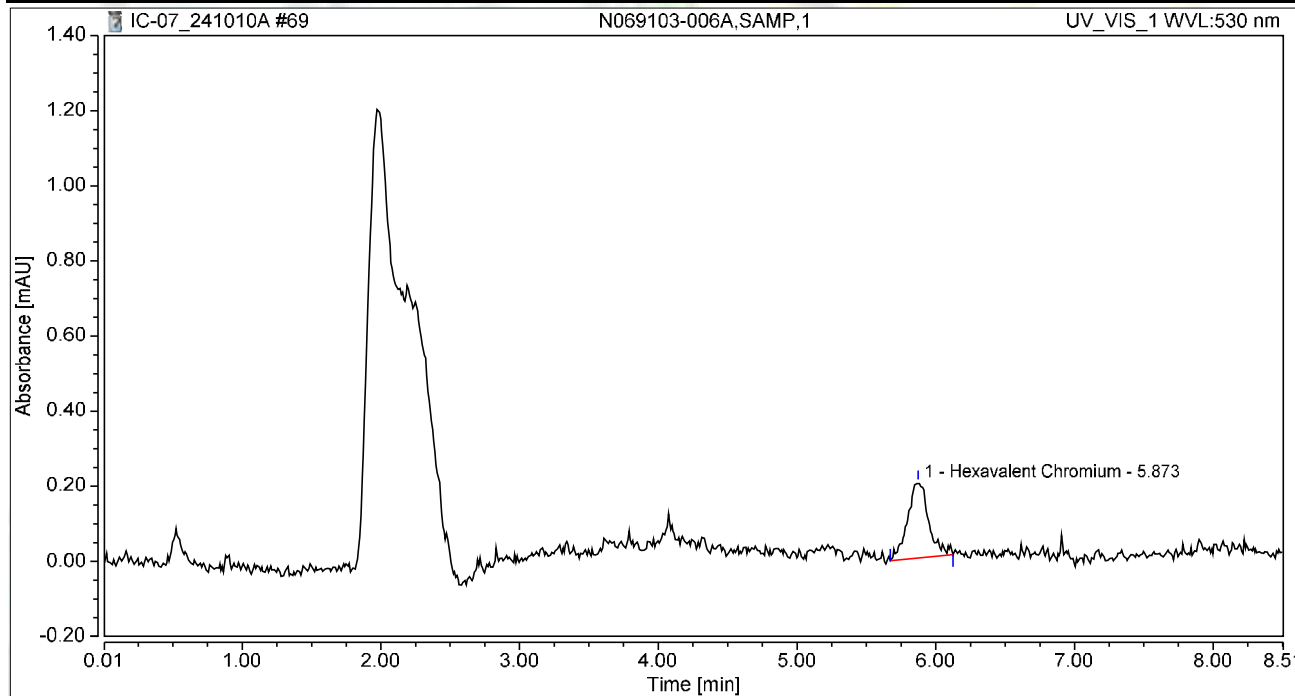
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.881	1.332	7.438	100.00	100.00	4.9063
Total:			1.332	7.438	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069103-006A,SAMP,1	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 19:03	Sample Weight:	1.0000

Chromatogram



Integration Results

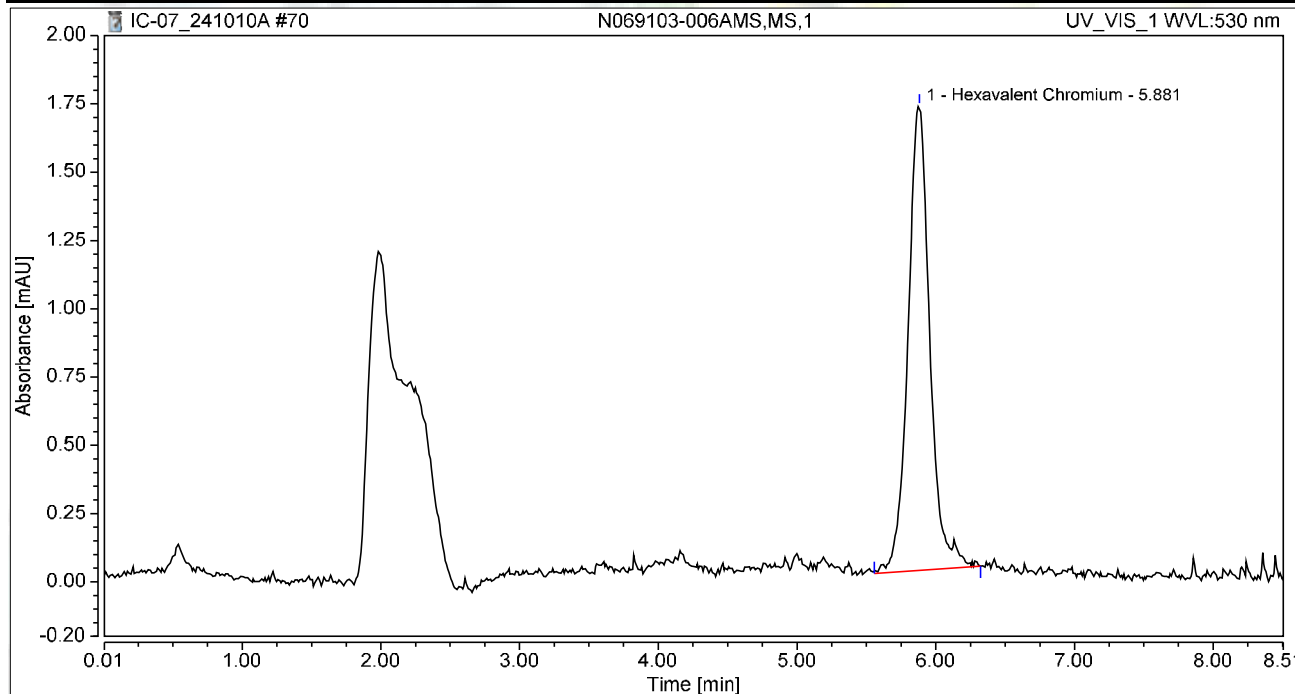
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.873	0.035	0.201	100.00	100.00	0.1303
Total:			0.035	0.201	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069103-006AMS,MS,1	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 19:12	Sample Weight:	1.0000

Chromatogram



Integration Results

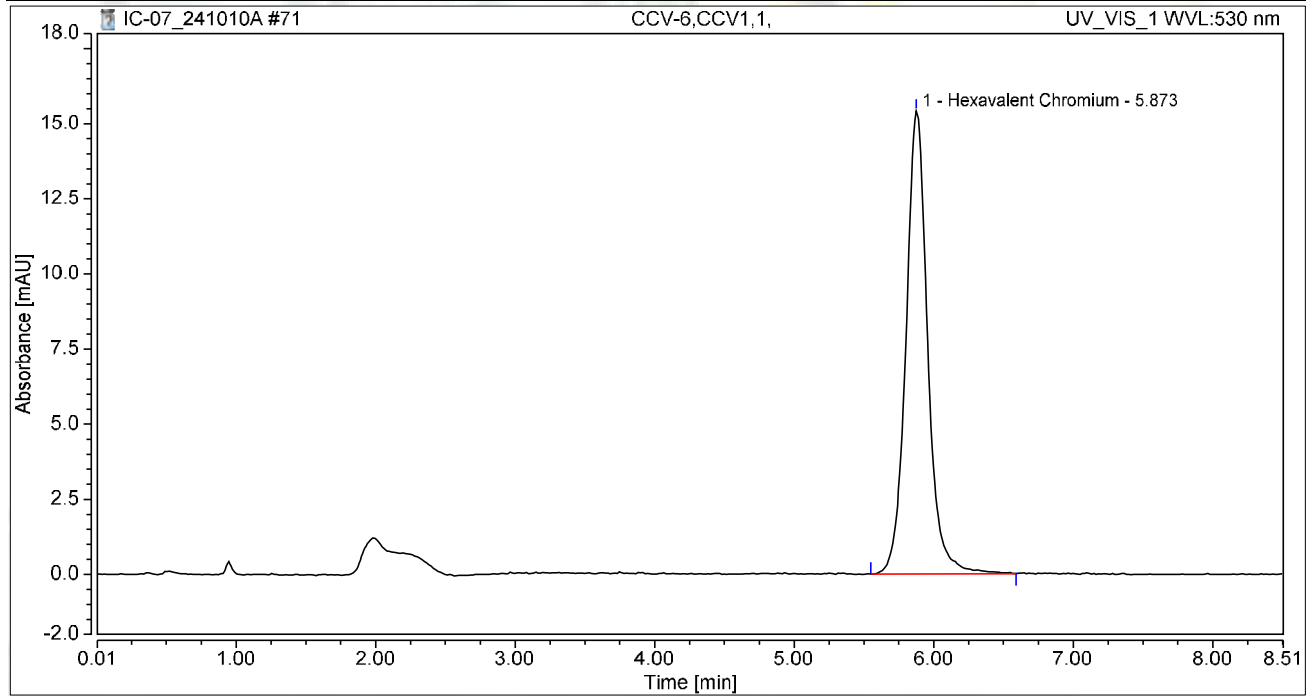
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.881	0.310	1.700	100.00	100.00	1.1412
Total:			0.310	1.700	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-6,CCV1,1,	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 19:22	Sample Weight:	1.0000

Chromatogram



Integration Results

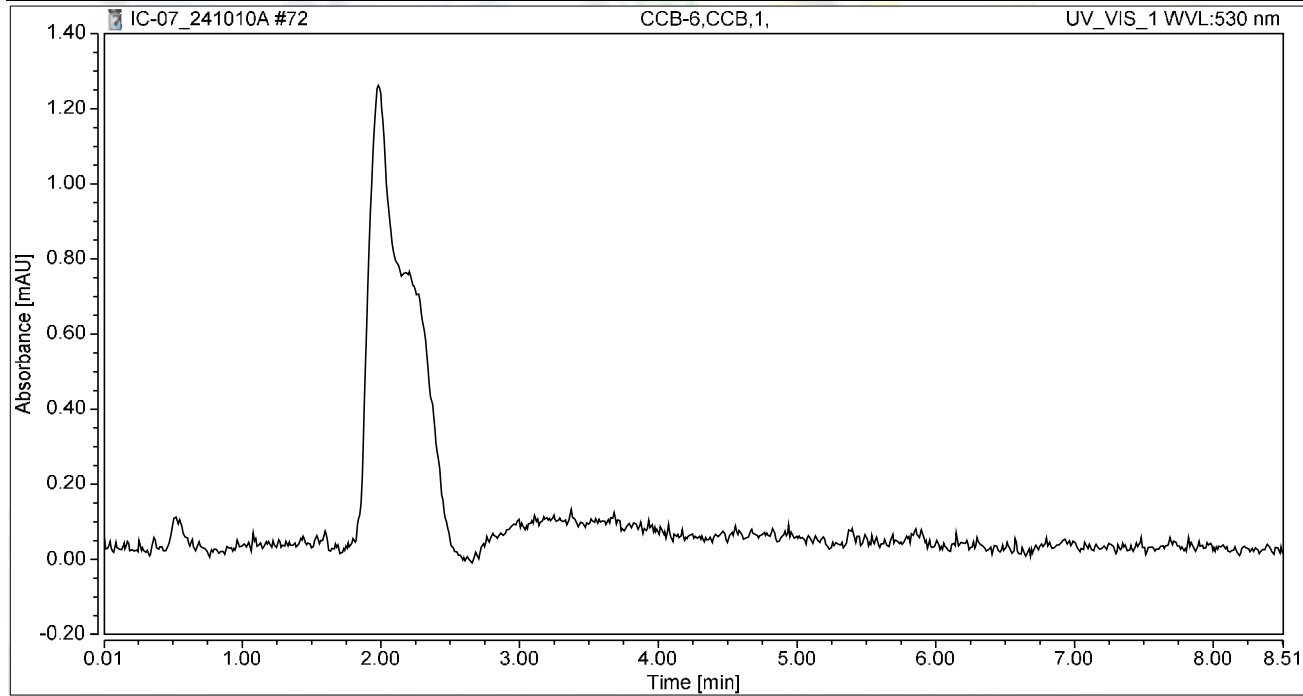
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.873	2.773	15.399	100.00	100.00	10.2150
Total:			2.773	15.399	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-6,CCB,1,	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 19:31	Sample Weight:	1.0000

Chromatogram



Integration Results

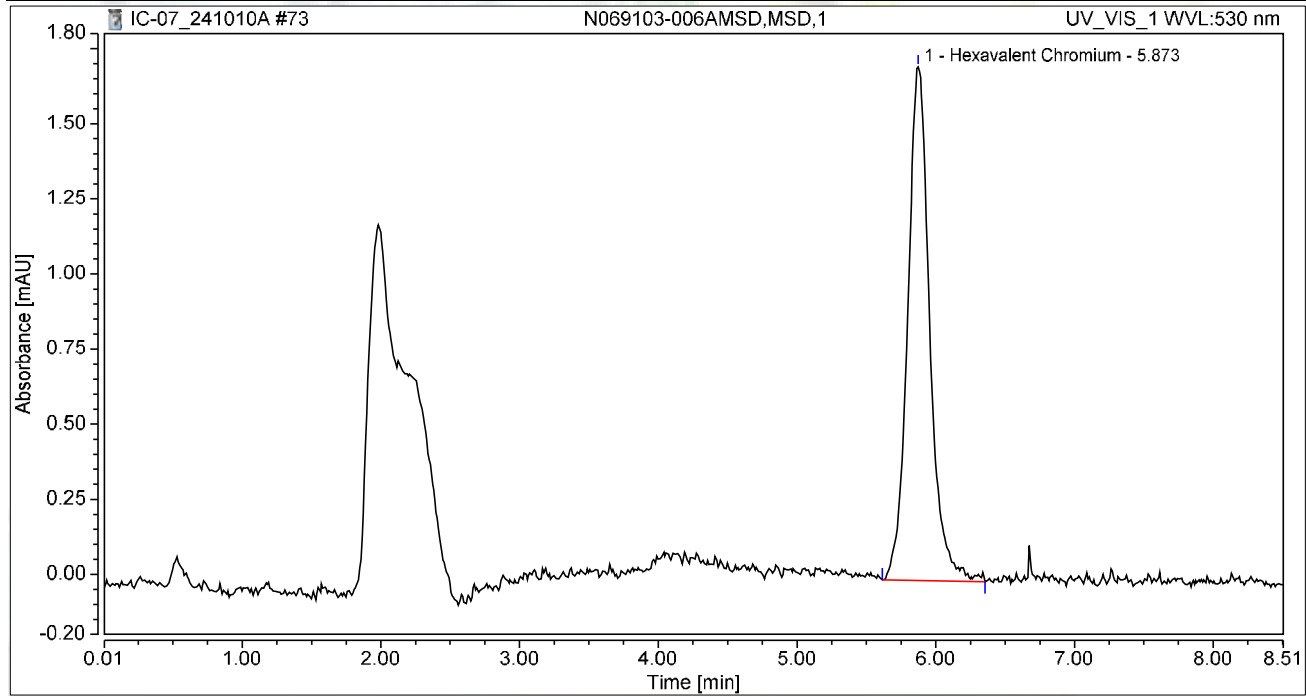
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069103-006AMSD,MSD,1	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 19:41	Sample Weight:	1.0000

Chromatogram



Integration Results

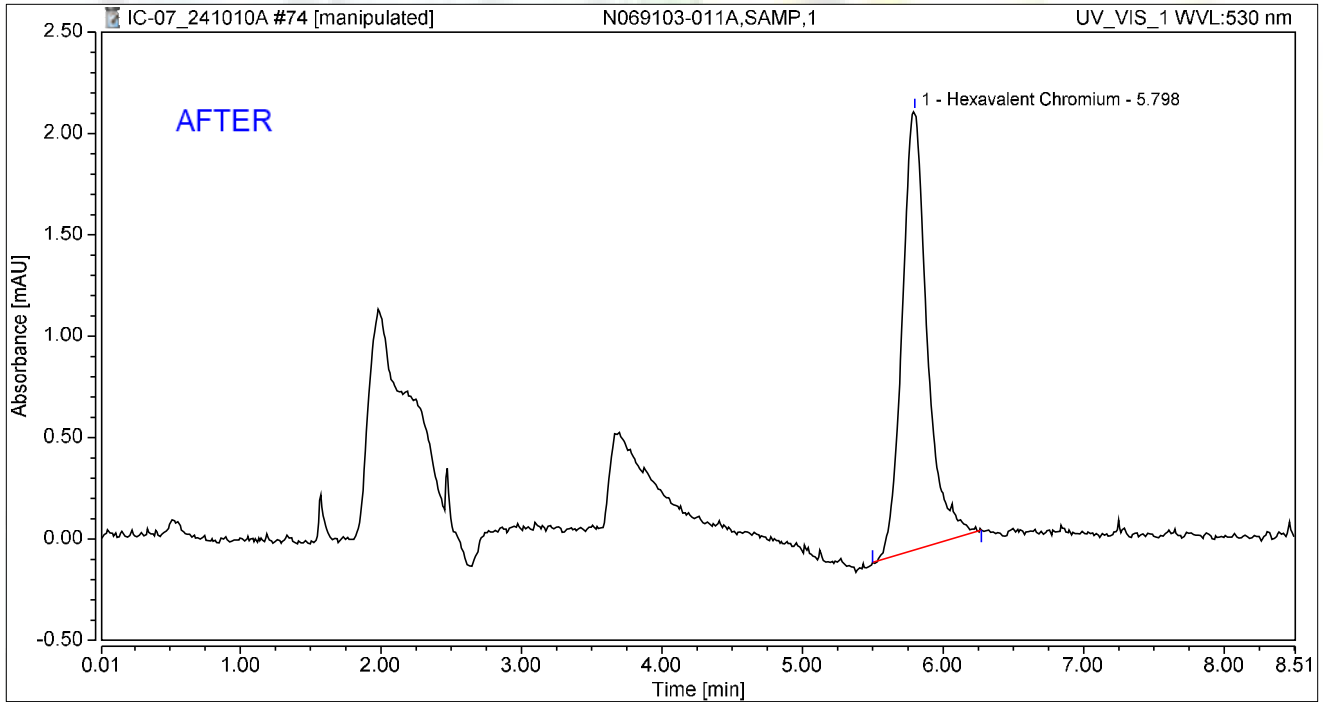
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.873	0.315	1.710	100.00	100.00	1.1589
Total:			0.315	1.710	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069103-011A,SAMP,1	Run Time (min):	8.49
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 19:50	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.798	0.447	2.166	100.00	100.00	1.6462
Total:			0.447	2.166	100.00	100.00	

Reviewed by:

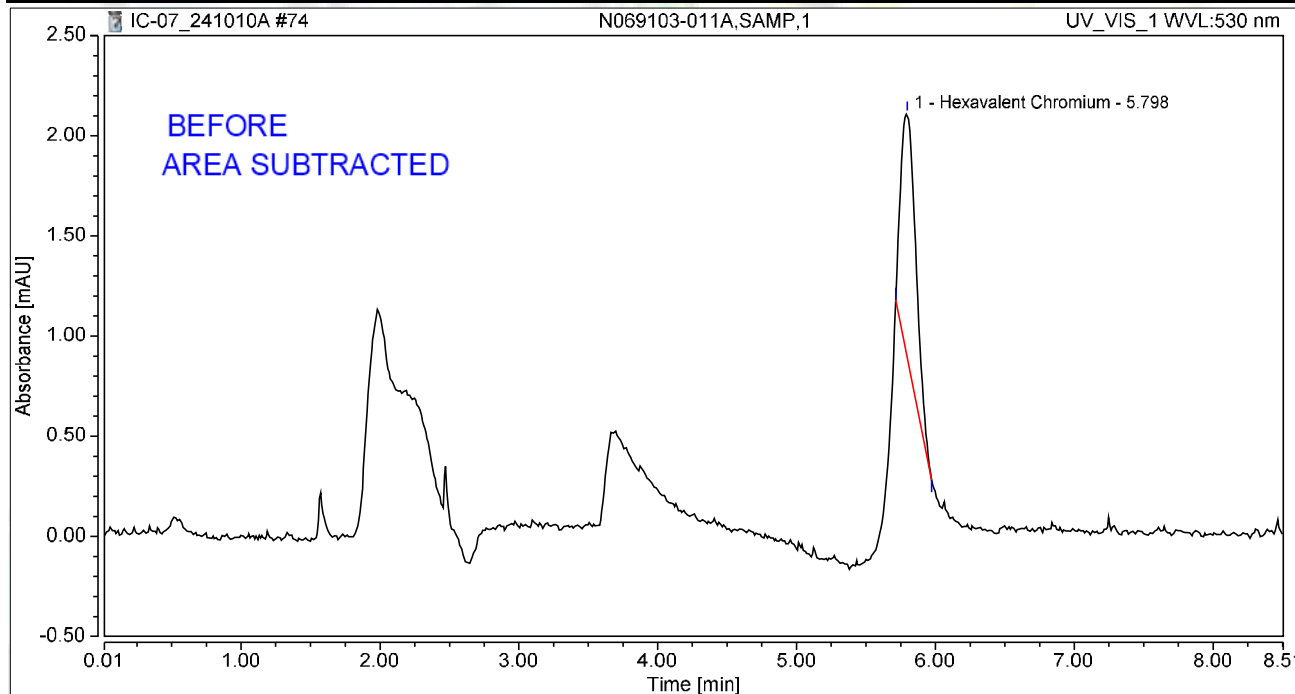
d/Rocha 10/15/2024

Chromatogram and Results

Injection Details

Injection Name:	N069103-011A,SAMP,1	Run Time (min):	8.49
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 19:50	Sample Weight:	1.0000

Chromatogram



Integration Results

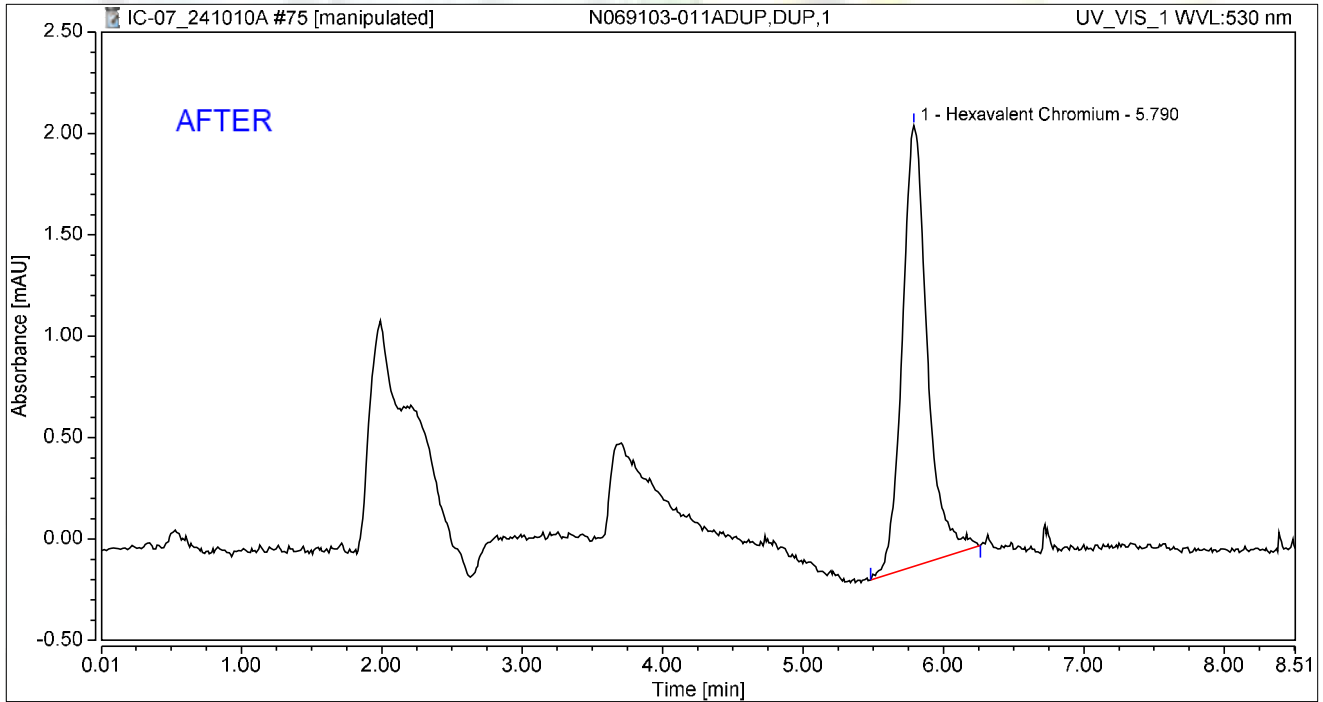
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.798	0.155	1.221	100.00	100.00	0.5698
Total:			0.155	1.221	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069103-011ADUP,DUP,1	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 20:00	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.790	0.450	2.175	100.00	100.00	1.6592
Total:			0.450	2.175	100.00	100.00	

Reviewed by:

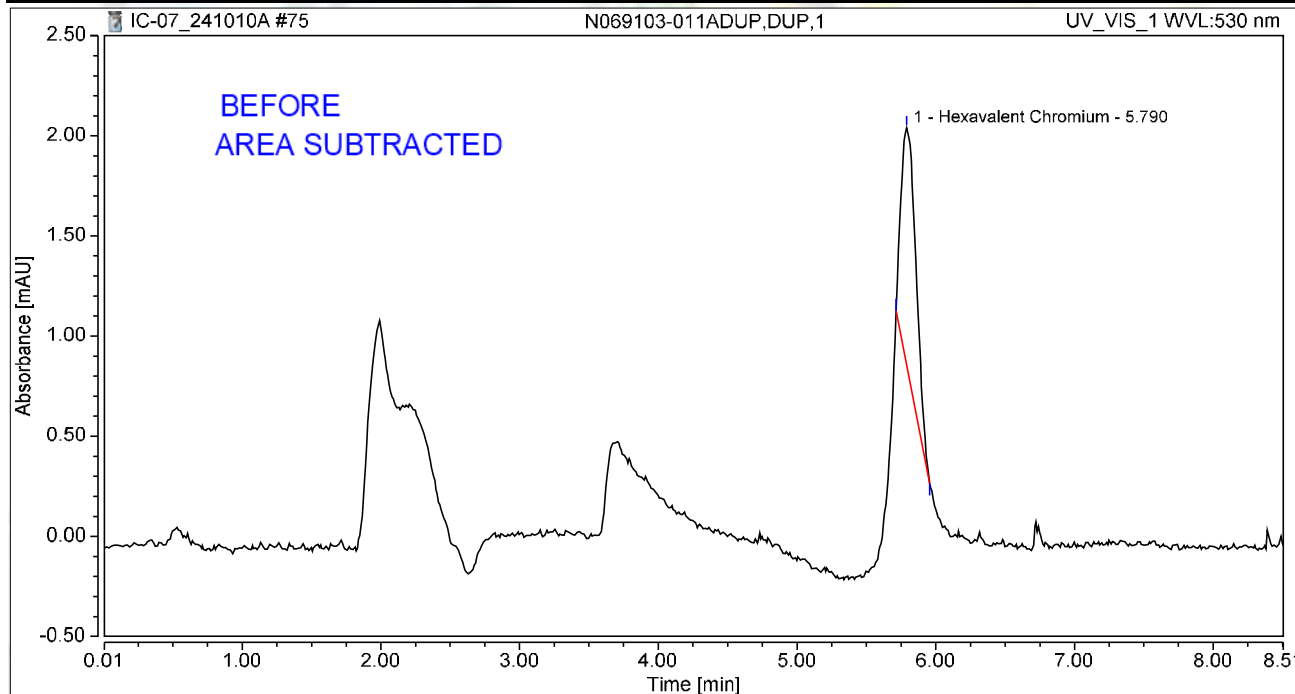
d/Rocha 10/15/2024

Chromatogram and Results

Injection Details

Injection Name:	N069103-011ADUP,DUP,1	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 20:00	Sample Weight:	1.0000

Chromatogram



Integration Results

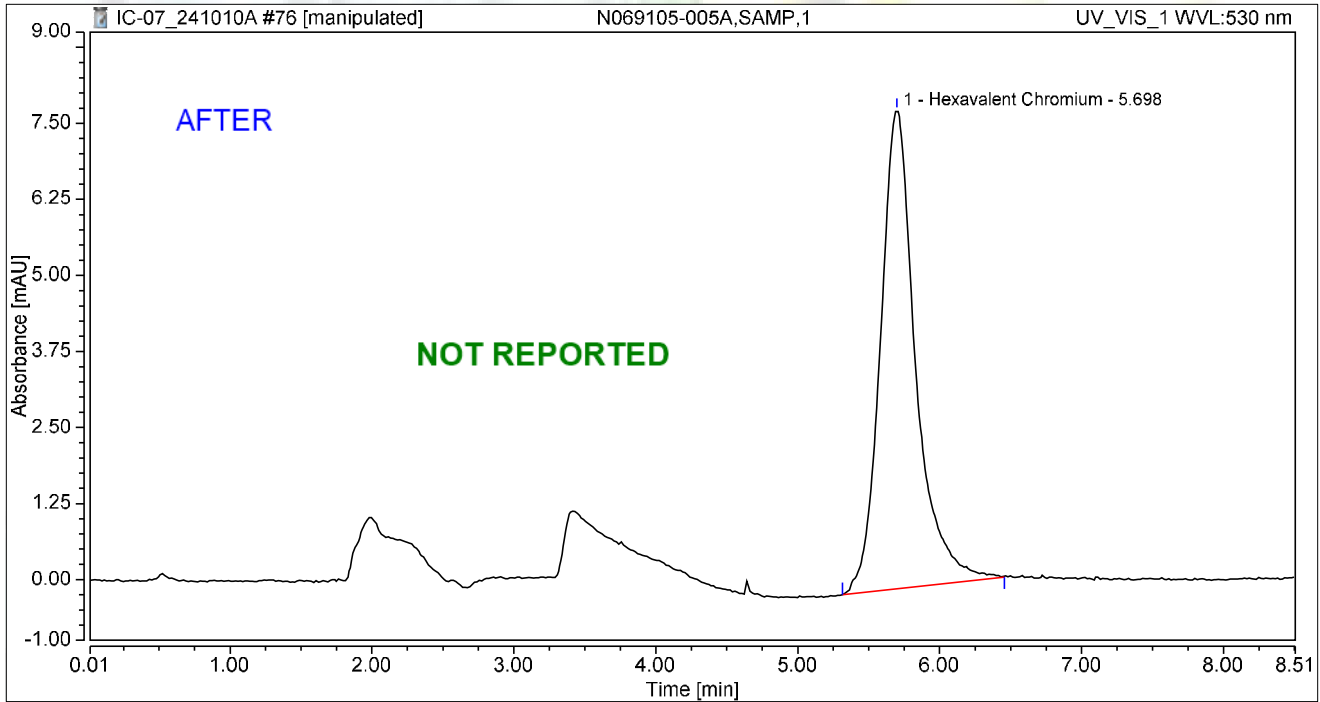
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.790	0.150	1.181	100.00	100.00	0.5531
Total:			0.150	1.181	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069105-005A,SAMP,1	Run Time (min):	8.49
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 20:09	Sample Weight:	1.0000

Chromatogram



Integration Results

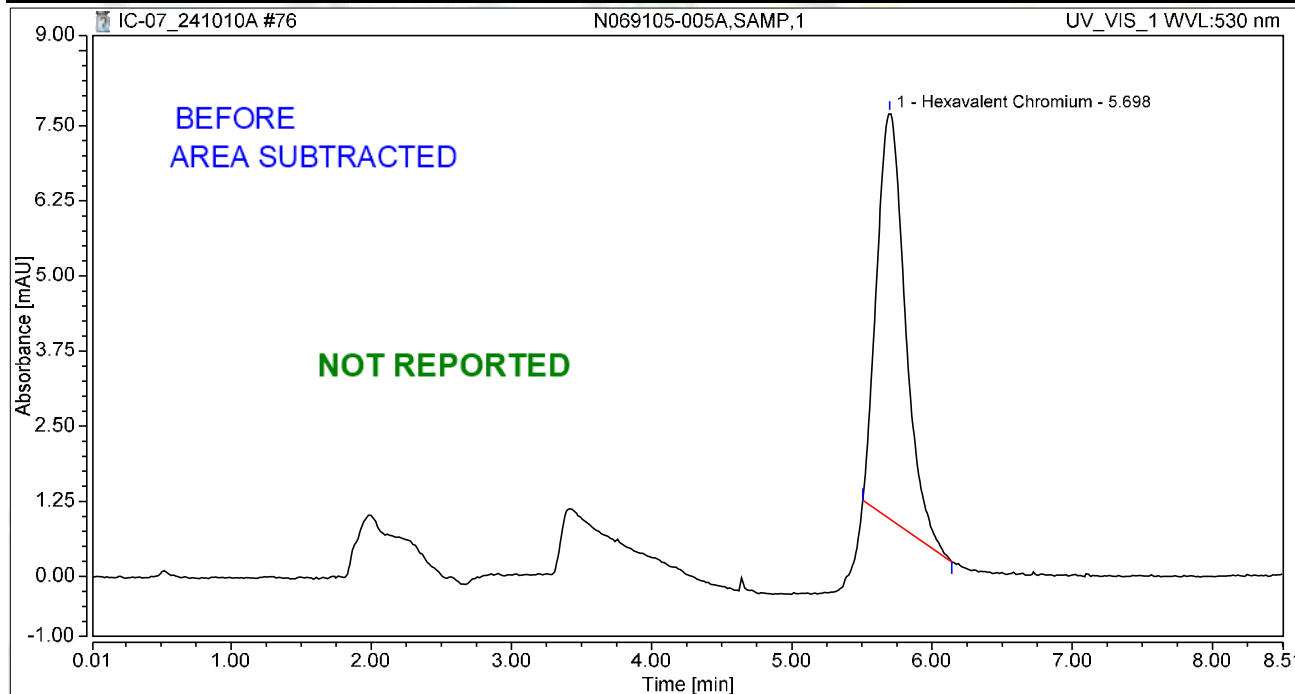
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	2.255	7.864	100.00	100.00	8.3075
Total:			2.255	7.864	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069105-005A,SAMP,1	Run Time (min):	8.49
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 20:09	Sample Weight:	1.0000

Chromatogram



Integration Results

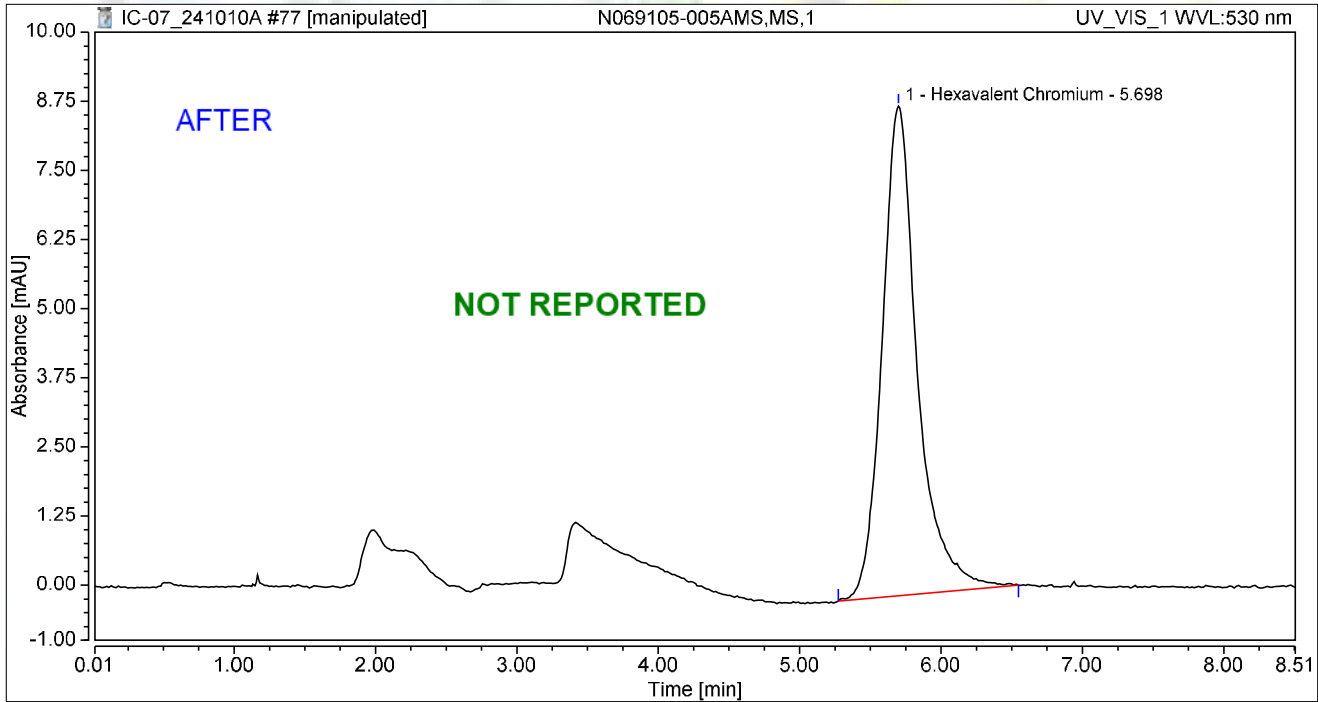
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	1.587	6.755	100.00	100.00	5.8464
Total:			1.587	6.755	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069105-005AMS,MS,1	Run Time (min):	8.49
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 20:18	Sample Weight:	1.0000

Chromatogram



Integration Results

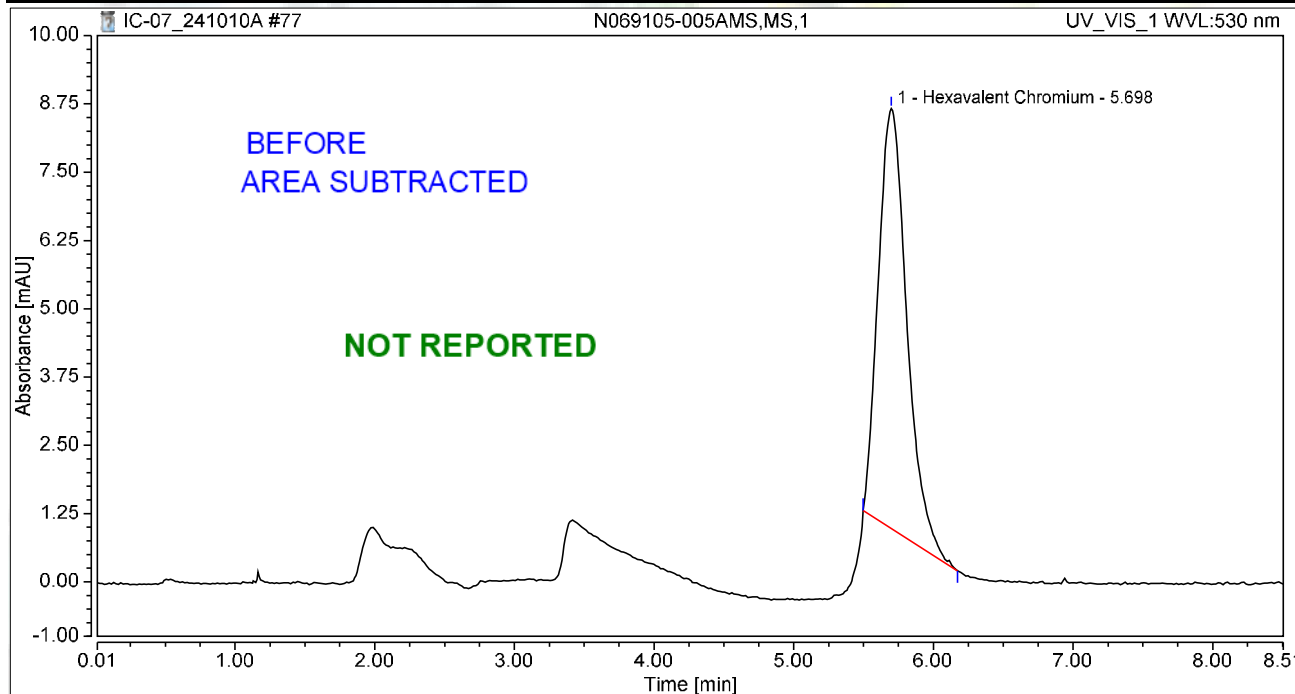
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	2.557	8.859	100.00	100.00	9.4181
Total:			2.557	8.859	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069105-005AMS,MS,1	Run Time (min):	8.49
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 20:18	Sample Weight:	1.0000

Chromatogram



Integration Results

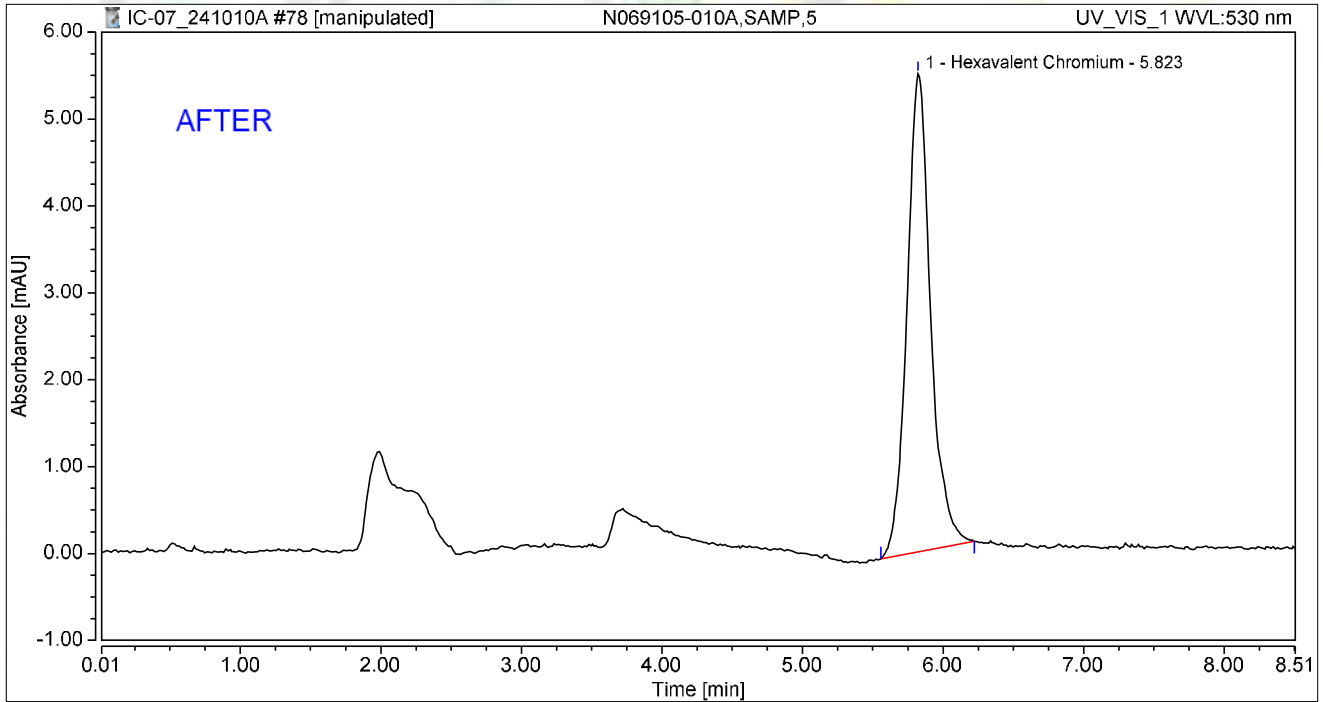
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	1.825	7.686	100.00	100.00	6.7233
Total:			1.825	7.686	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069105-010A,SAMP,5	Run Time (min):	8.49
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 20:28	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.823	1.070	5.502	100.00	100.00	3.9401
Total:			1.070	5.502	100.00	100.00	

Reviewed by:

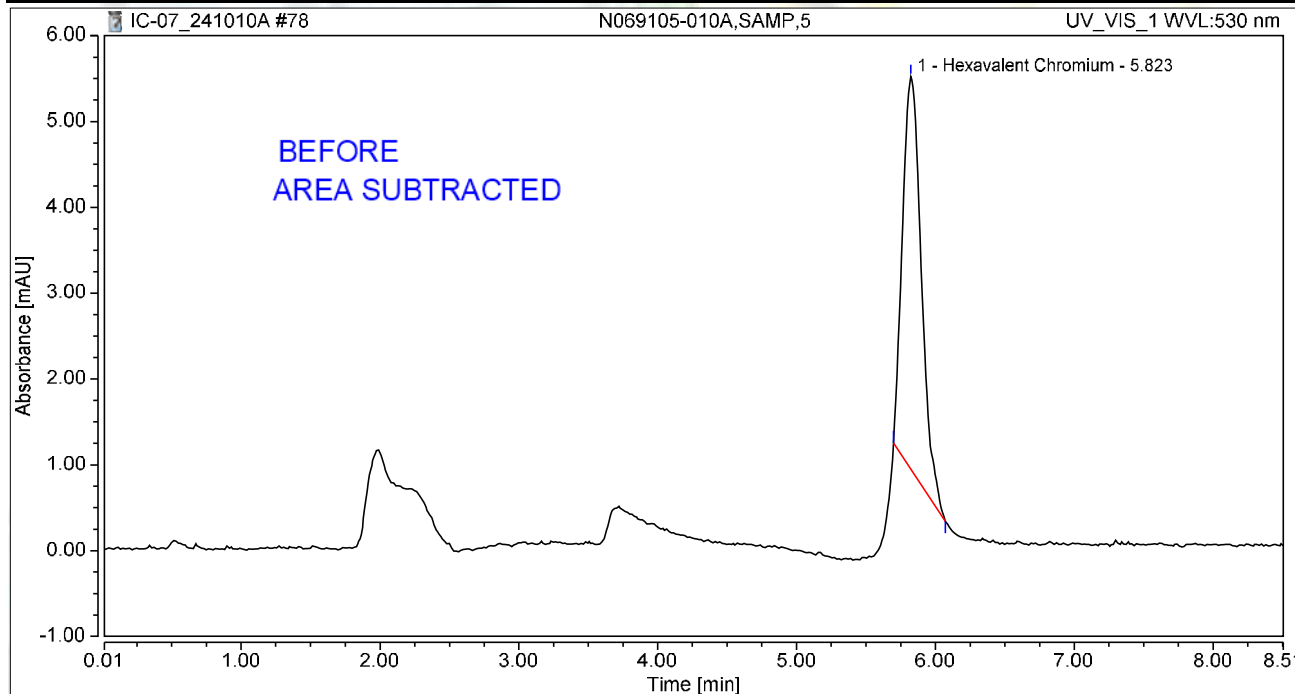
dMocha 10/15/2024

Chromatogram and Results

Injection Details

Injection Name:	N069105-010A,SAMP,5	Run Time (min):	8.49
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 20:28	Sample Weight:	1.0000

Chromatogram



Integration Results

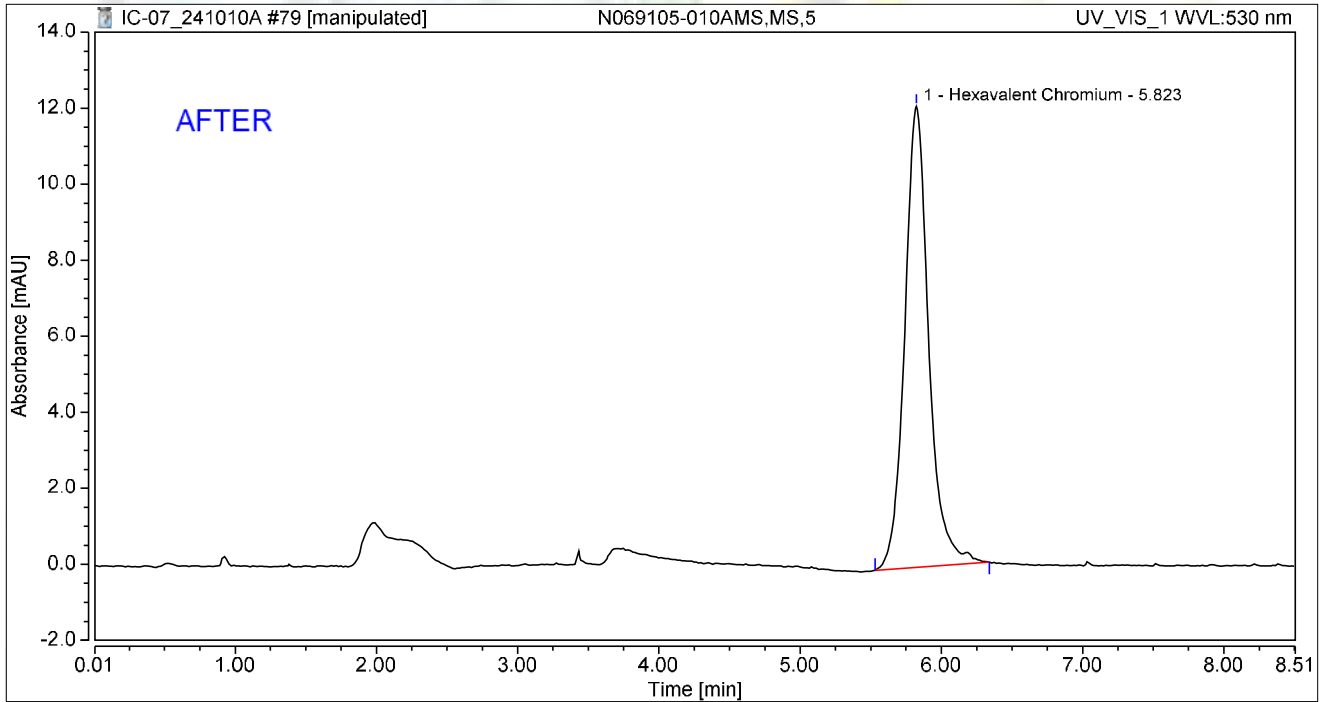
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.823	0.718	4.569	100.00	100.00	2.6464
Total:			0.718	4.569	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069105-010AMS,MS,5	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 20:37	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.823	2.383	12.128	100.00	100.00	8.7772
Total:			2.383	12.128	100.00	100.00	

Reviewed by:

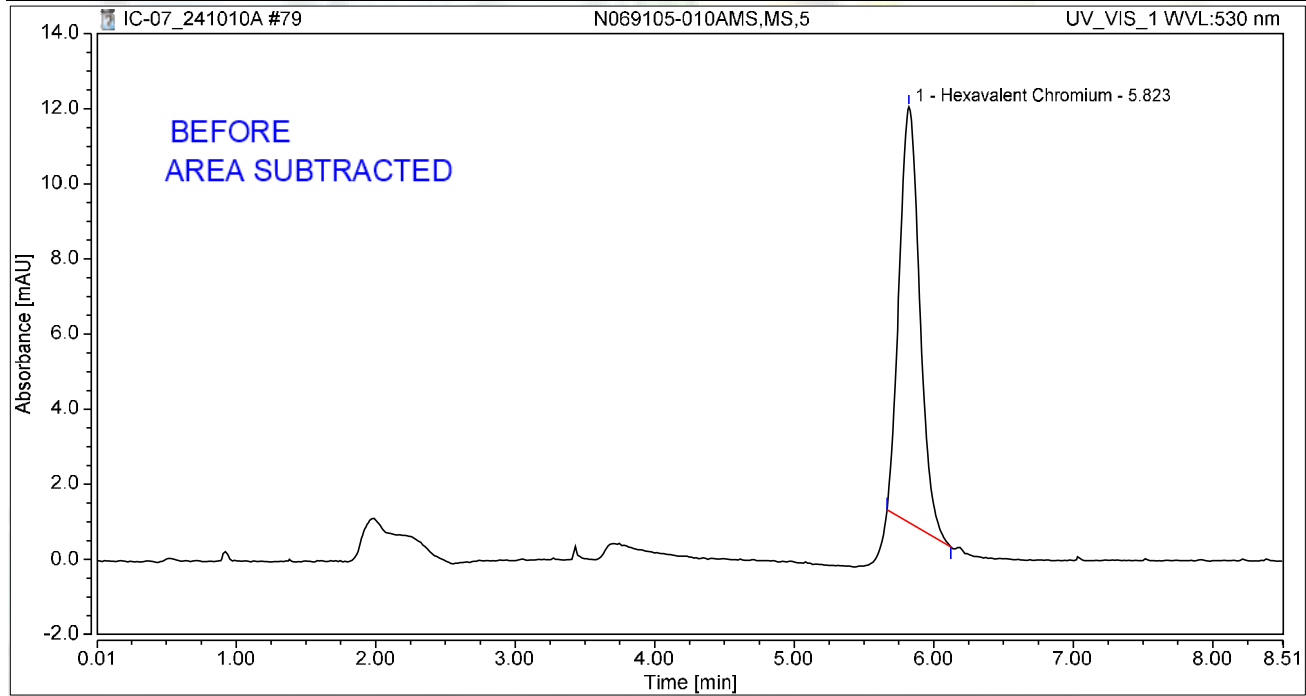
MRecha 10/15/2024

Chromatogram and Results

Injection Details

Injection Name:	N069105-010AMS,MS,5	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 20:37	Sample Weight:	1.0000

Chromatogram



Integration Results

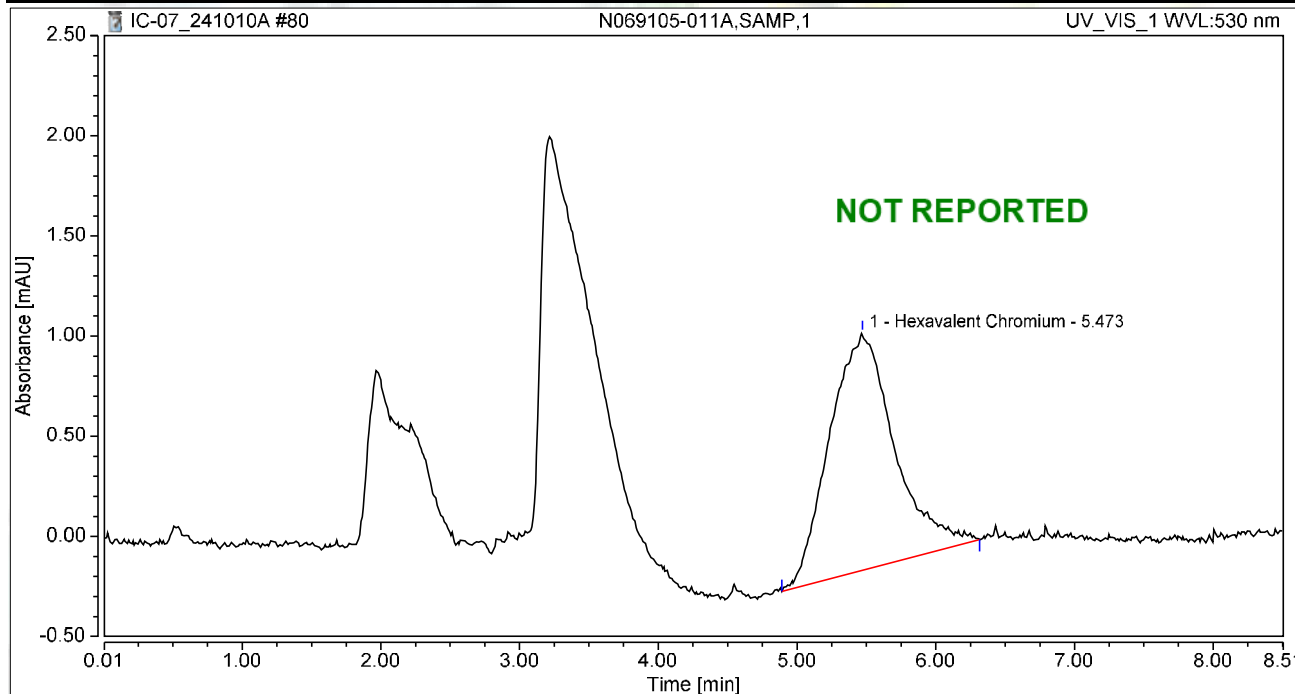
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.823	1.890	11.071	100.00	100.00	6.9632
Total:			1.890	11.071	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069105-011A,SAMP,1	Run Time (min):	8.50
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 20:47	Sample Weight:	1.0000

Chromatogram



Integration Results

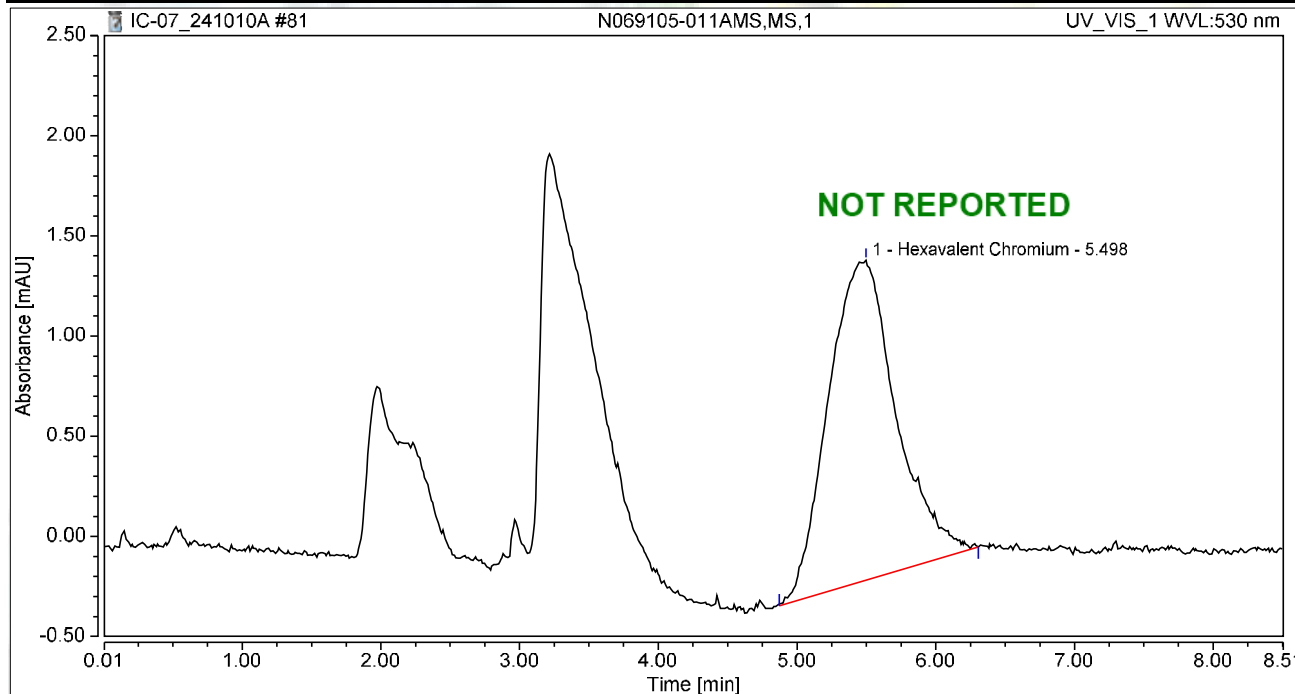
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.473	0.645	1.186	100.00	100.00	2.3746
Total:			0.645	1.186	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069105-011AMS,MS,1	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 20:56	Sample Weight:	1.0000

Chromatogram



Integration Results

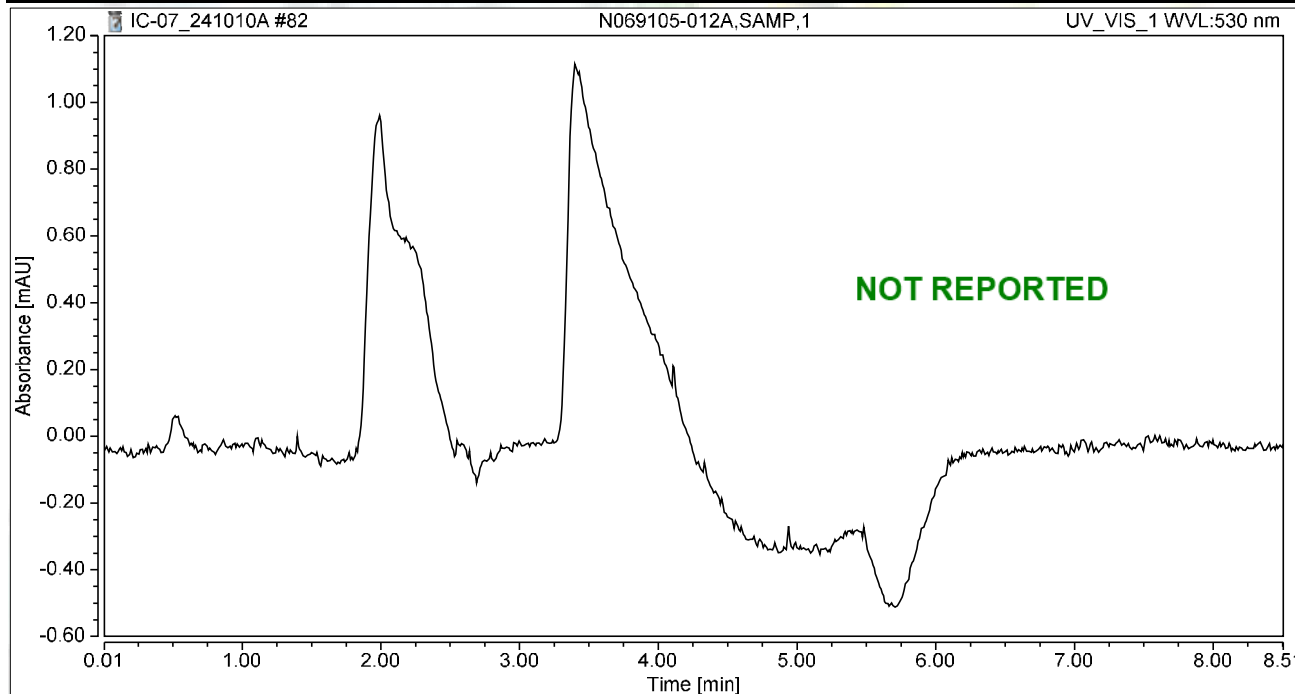
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.498	0.909	1.597	100.00	100.00	3.3495
Total:			0.909	1.597	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069105-012A,SAMP,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 21:06	Sample Weight:	1.0000

Chromatogram



Integration Results

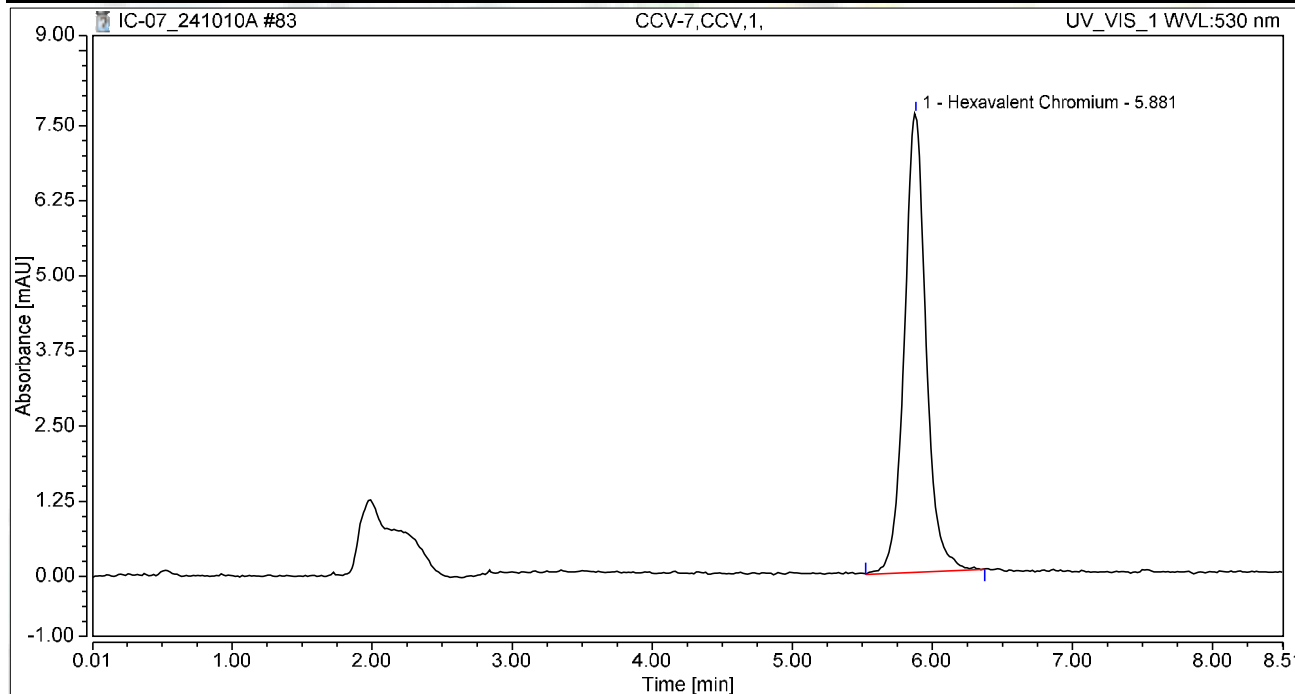
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-7,CCV,1,	Run Time (min):	8.50
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 21:15	Sample Weight:	1.0000

Chromatogram

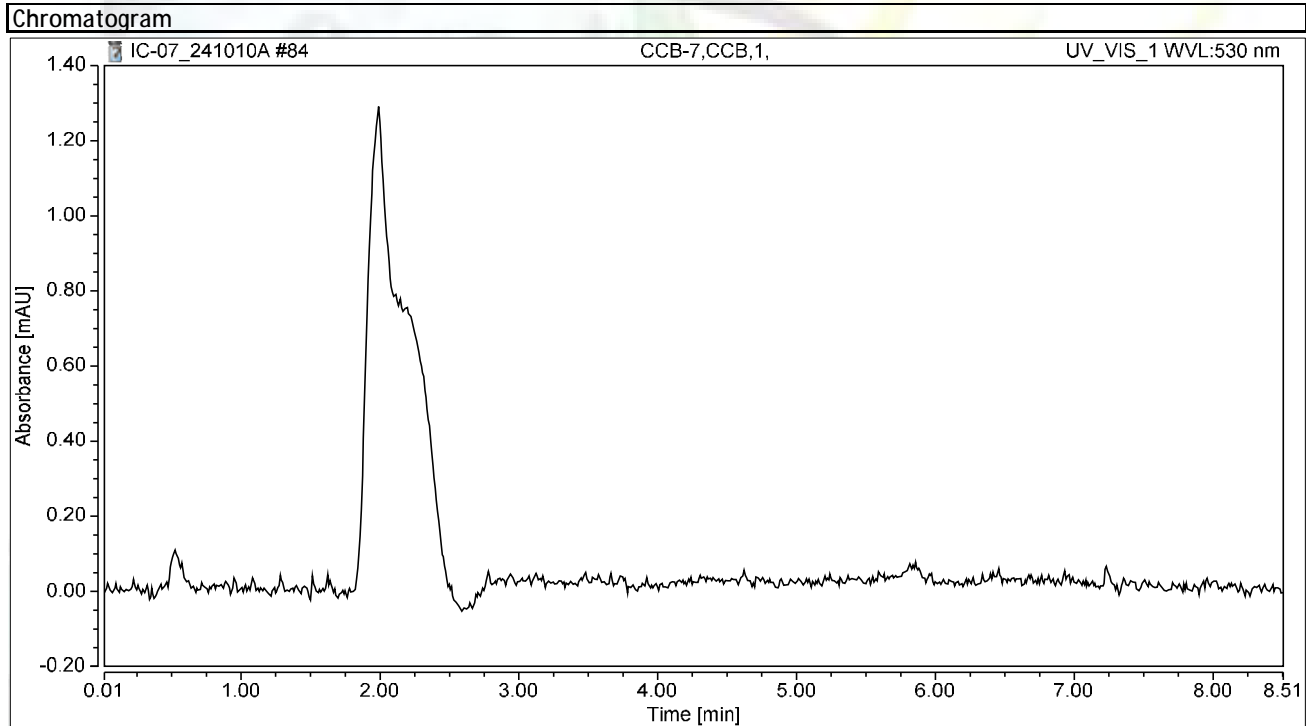


Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.881	1.371	7.631	100.00	100.00	5.0488
Total:			1.371	7.631	100.00	100.00	

Chromatogram and Results

Injection Details		
<i>Injection Name:</i>	CCB-7,CCB,1,	<i>Run Time (min):</i> 8.49
<i>Vial Number:</i>	22	<i>Injection Volume:</i> 1000.00
<i>Injection Type:</i>	Unknown	<i>Channel:</i> UV_VIS_1
<i>Calibration Level:</i>		<i>Wavelength:</i> 530.0
<i>Instrument Method:</i>	Hex Chrom 4 mm	<i>Bandwidth:</i> n.a.
<i>Processing Method:</i>	241001A_IC-07_Cr6_218_6_HIGH	<i>Dilution Factor:</i> 1.0000
<i>Injection Date/Time:</i>	10/Oct/24 21:25	<i>Sample Weight:</i> 1.0000



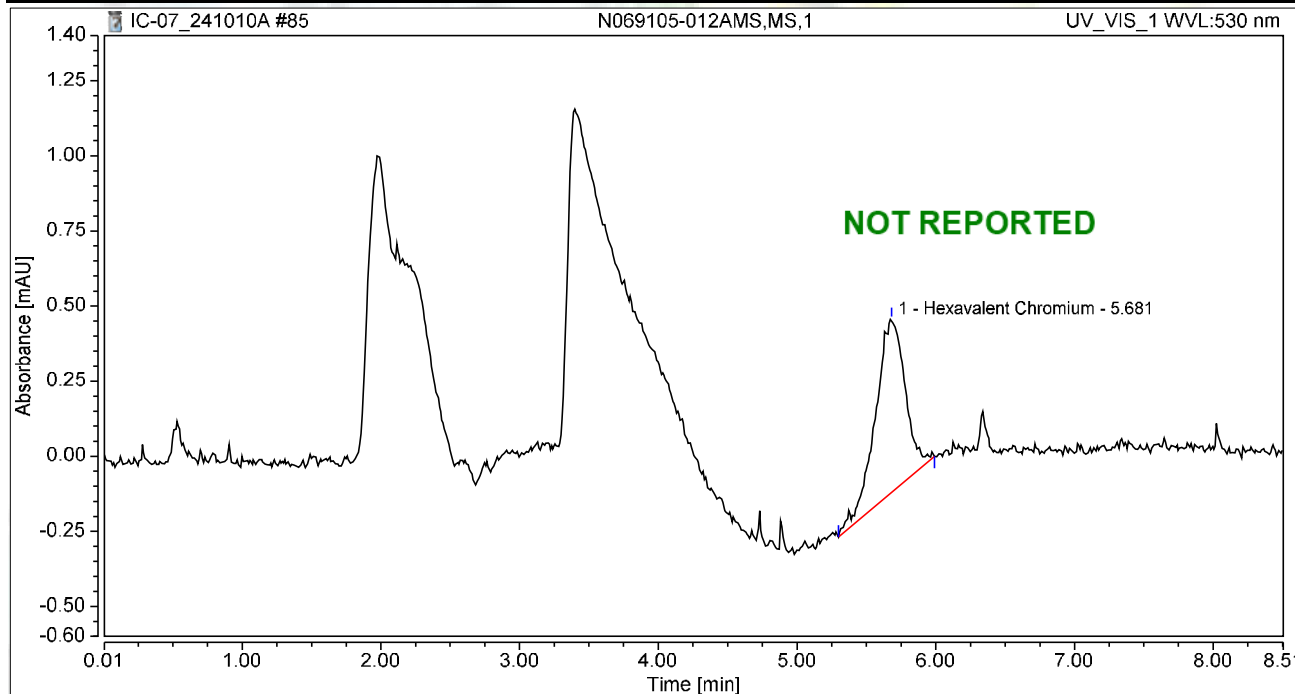
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069105-012AMS,MS,1	Run Time (min):	8.50
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 21:34	Sample Weight:	1.0000

Chromatogram



Integration Results

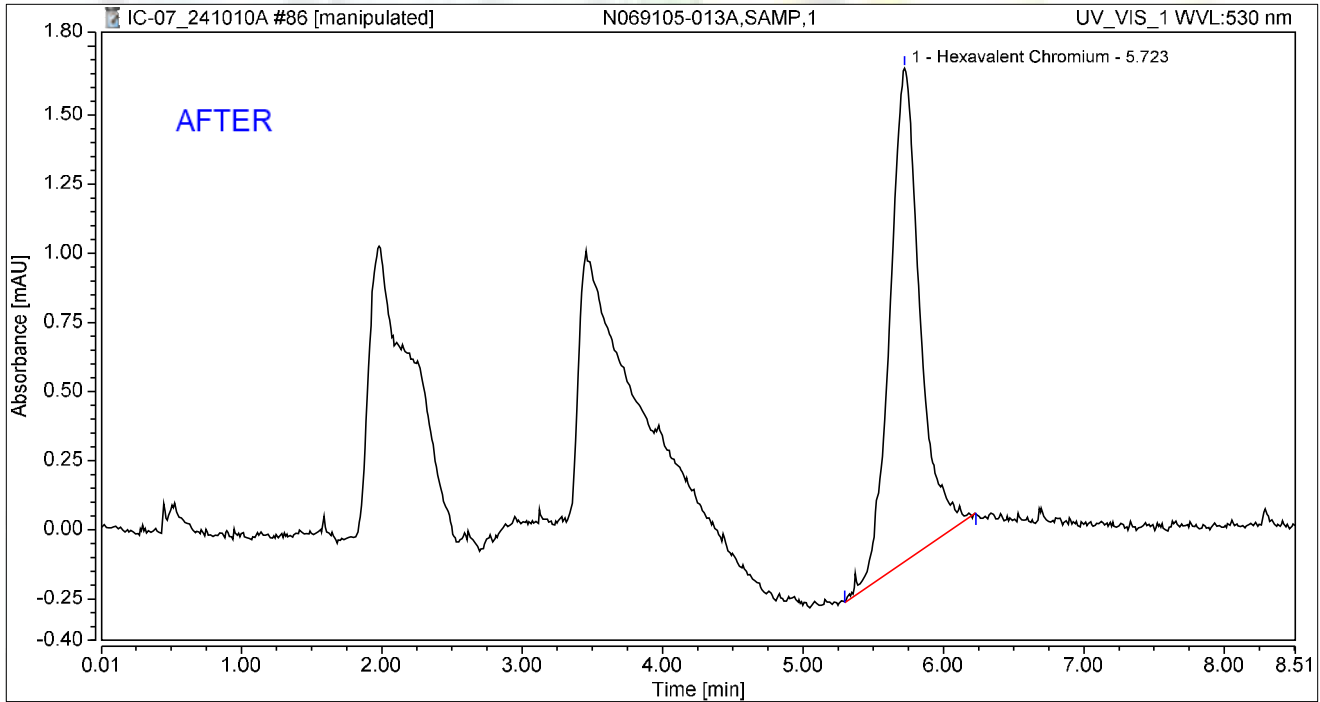
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.144	0.576	100.00	100.00	0.5297
Total:			0.144	0.576	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069105-013A,SAMP,1	Run Time (min):	8.50
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 21:44	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.445	1.785	100.00	100.00	1.6387
Total:			0.445	1.785	100.00	100.00	

Reviewed by:

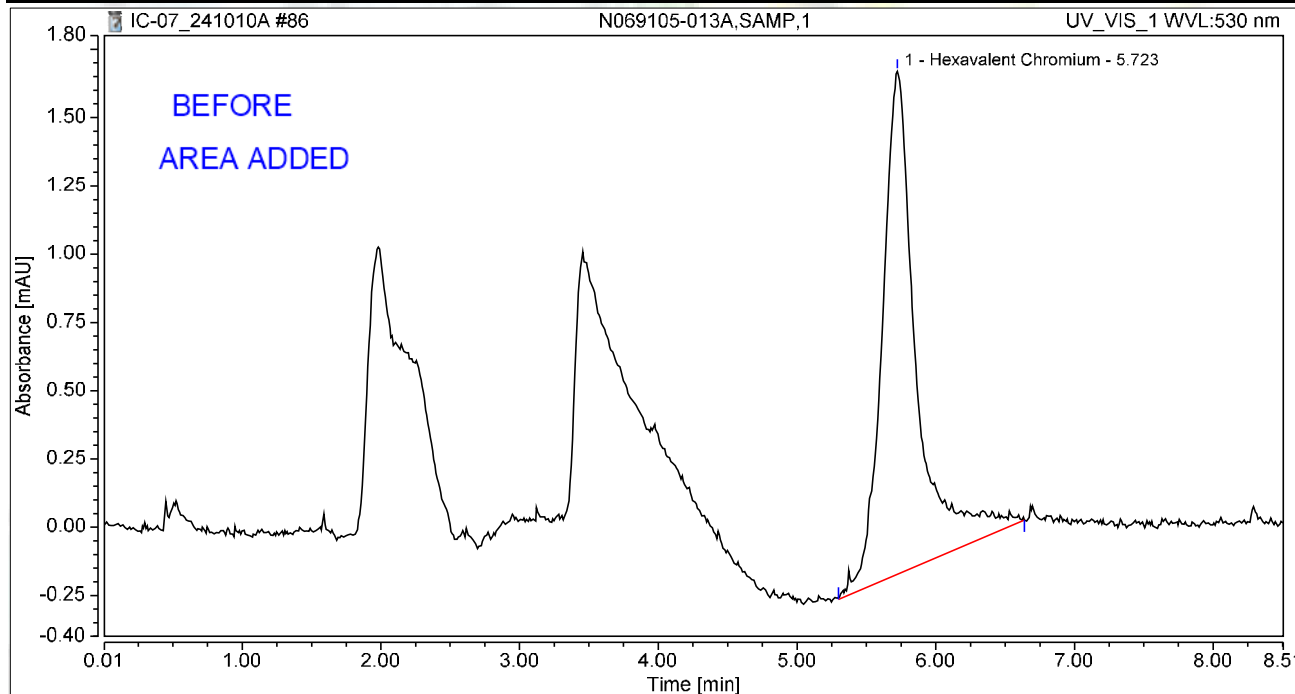
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Chromatogram and Results

Injection Details

Injection Name:	N069105-013A,SAMP,1	Run Time (min):	8.50
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 21:44	Sample Weight:	1.0000

Chromatogram



Integration Results

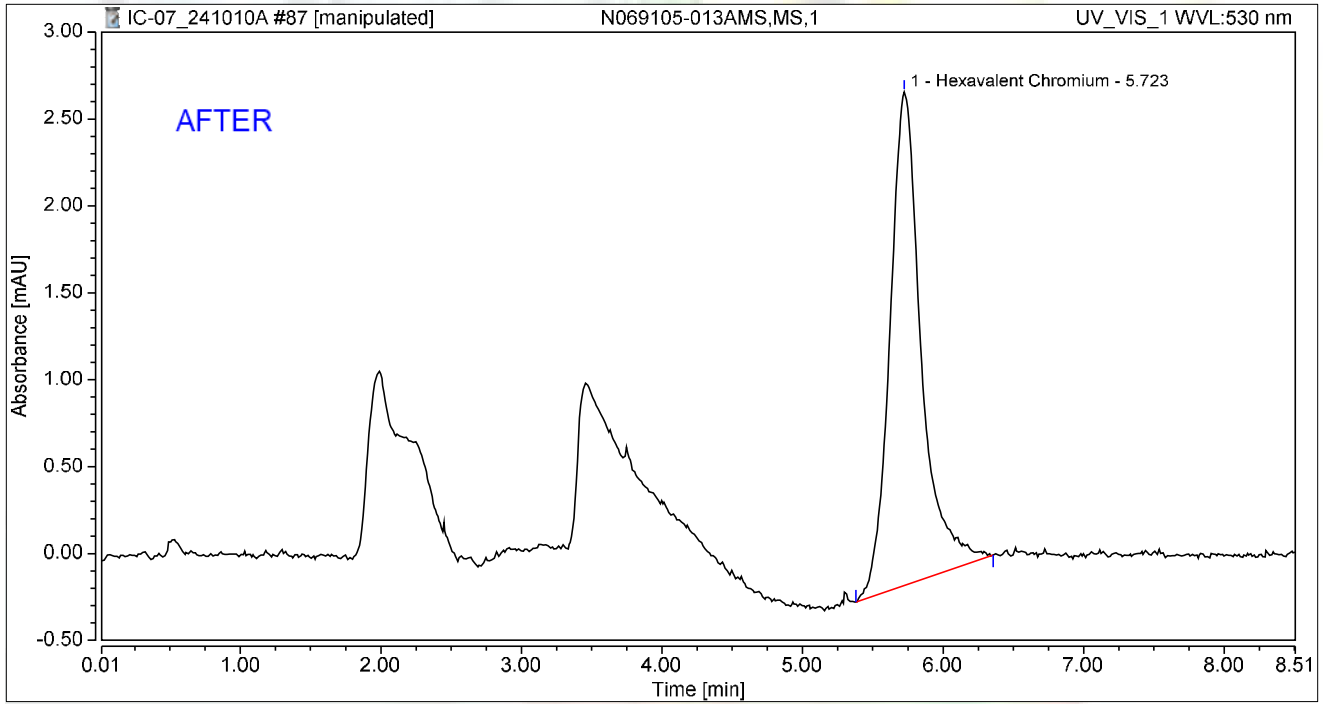
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.527	1.841	100.00	100.00	1.9418
Total:			0.527	1.841	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069105-013AMS,MS,1	Run Time (min):	8.49
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 21:53	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.736	2.840	100.00	100.00	2.7094
Total:			0.736	2.840	100.00	100.00	

Reviewed by:

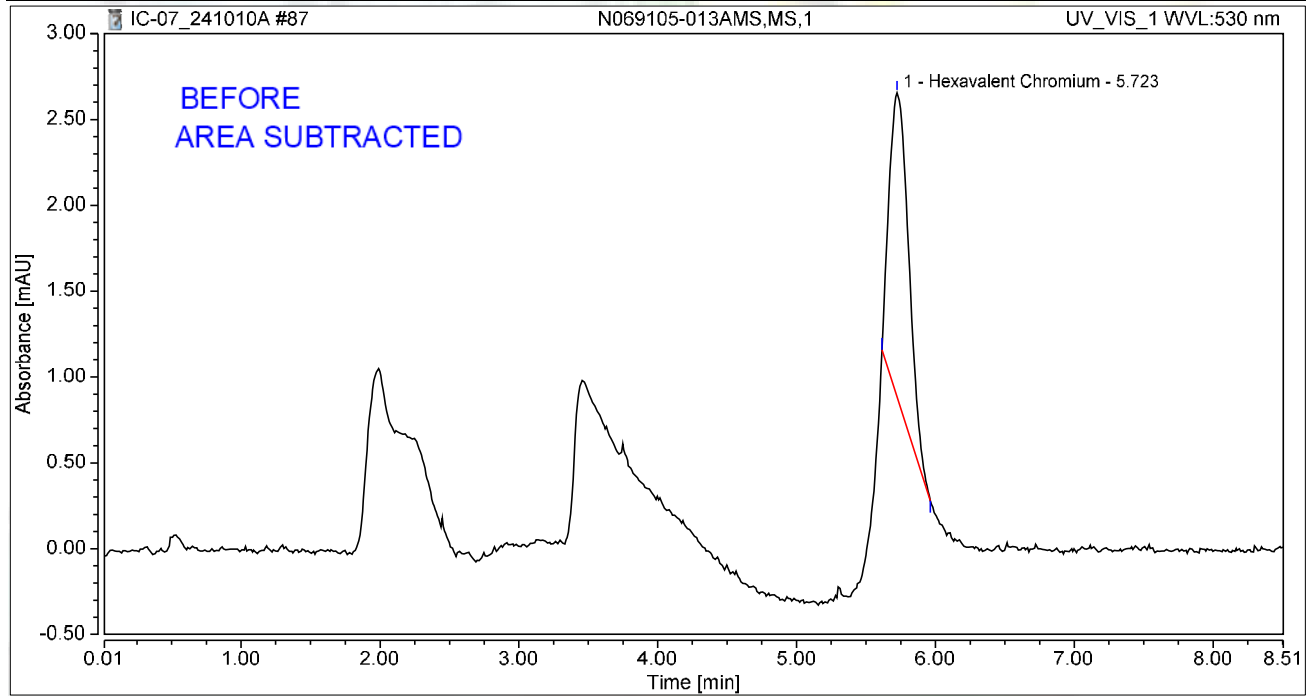
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Chromatogram and Results

Injection Details

Injection Name:	N069105-013AMS,MS,1	Run Time (min):	8.49
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 21:53	Sample Weight:	1.0000

Chromatogram



Integration Results

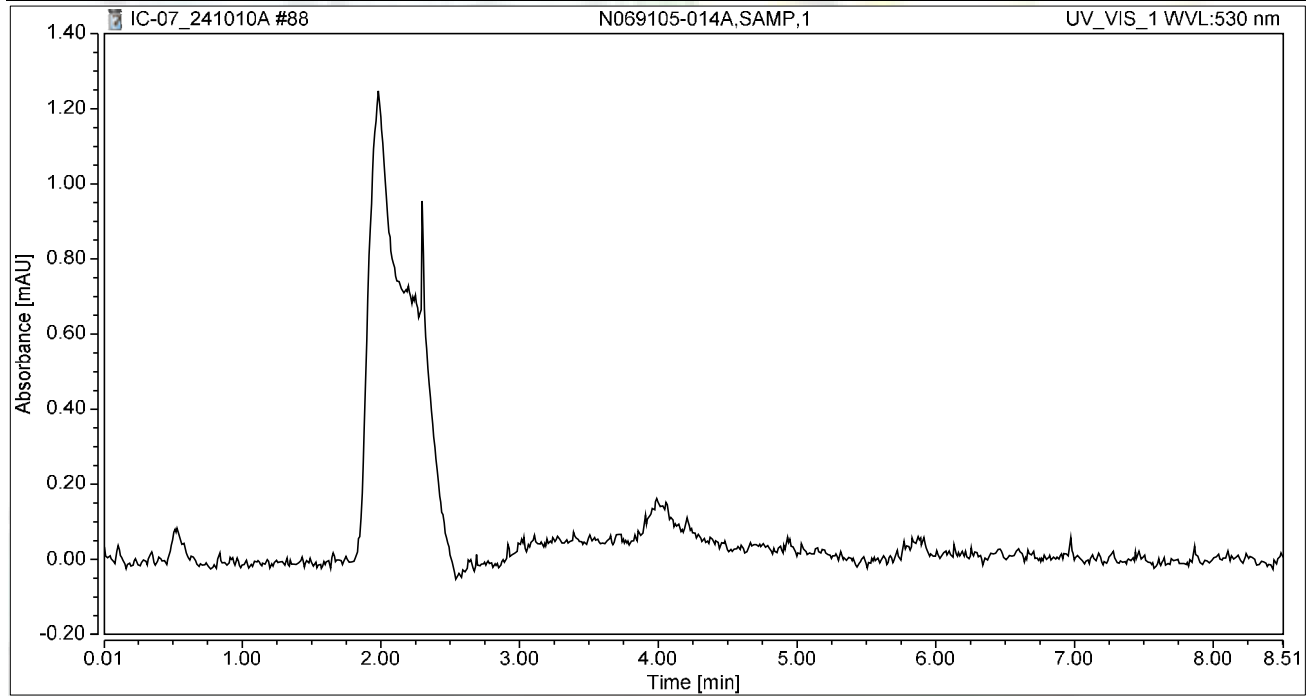
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.290	1.768	100.00	100.00	1.0693
Total:			0.290	1.768	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069105-014A,SAMP,1	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 22:02	Sample Weight:	1.0000

Chromatogram



Integration Results

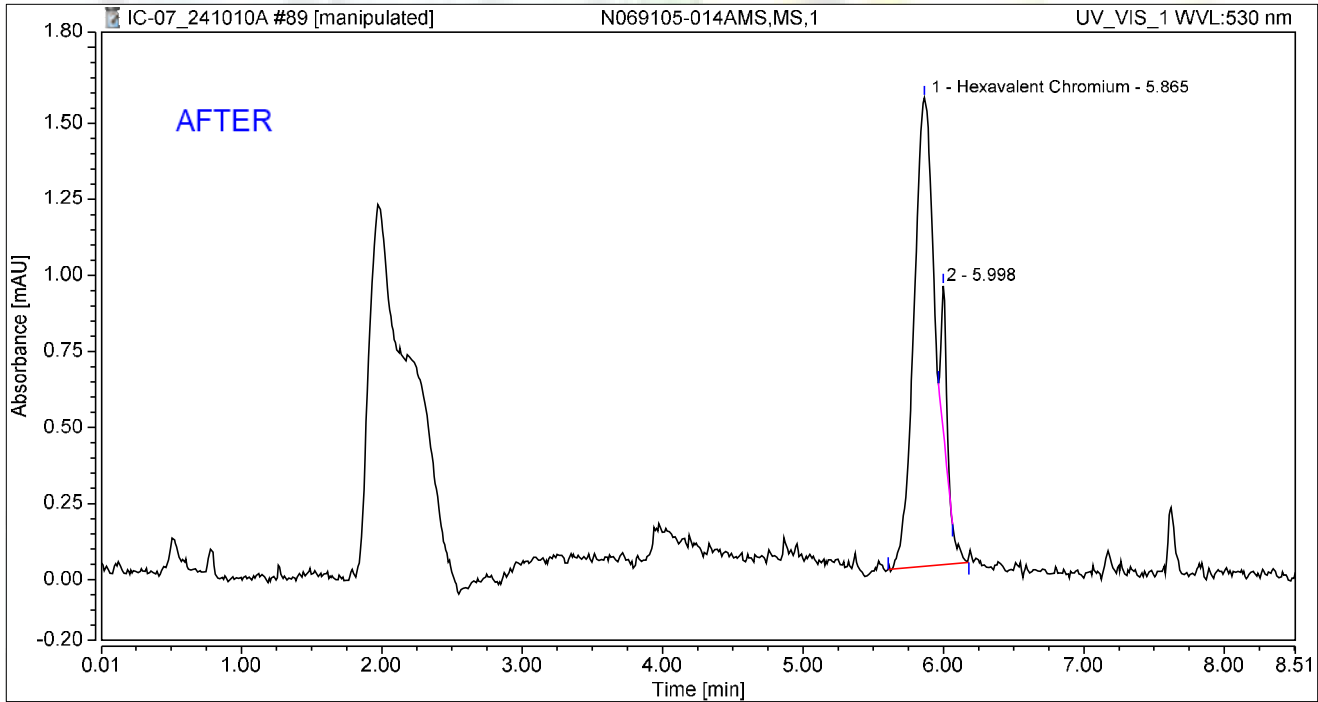
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069105-014AMS,MS,1	Run Time (min):	8.50
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 22:12	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.865	0.285	1.540	93.72	76.44	1.0500
2		5.998	0.019	0.475	6.28	23.56	n.a.
Total:			0.304	2.014	100.00	100.00	

Reviewed by:

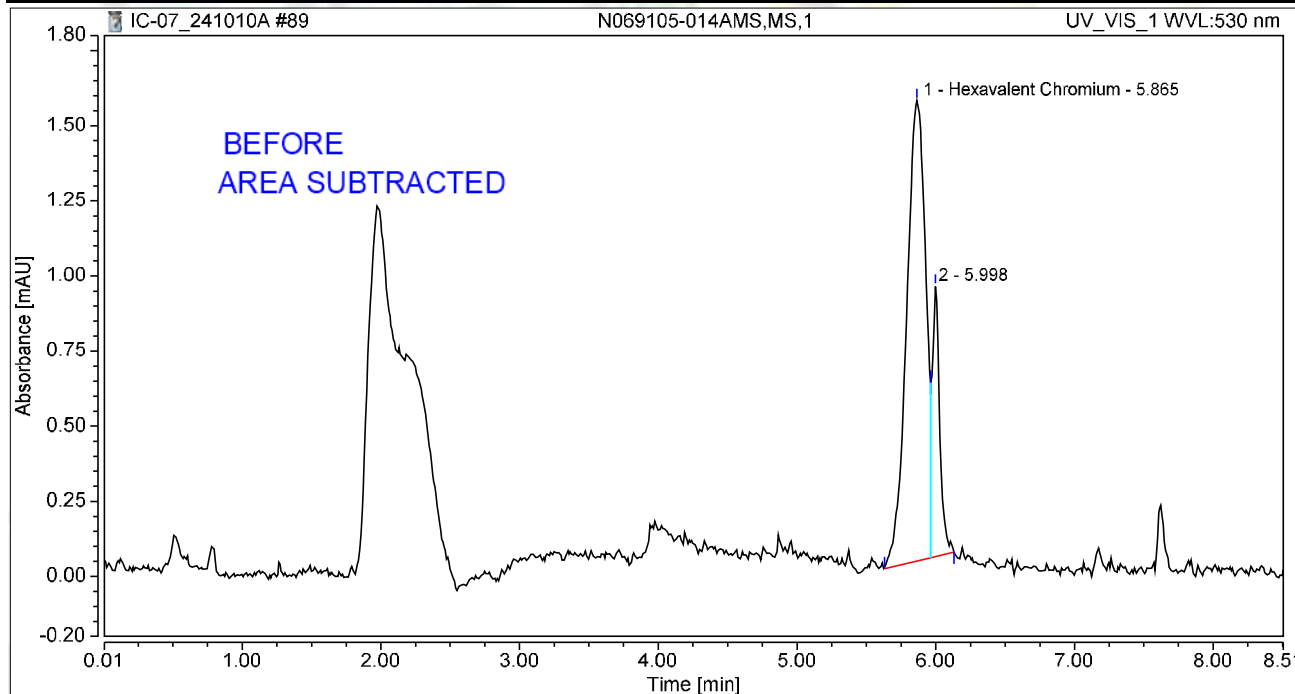
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Chromatogram and Results

Injection Details

Injection Name:	N069105-014AMS,MS,1	Run Time (min):	8.50
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 22:12	Sample Weight:	1.0000

Chromatogram



Integration Results

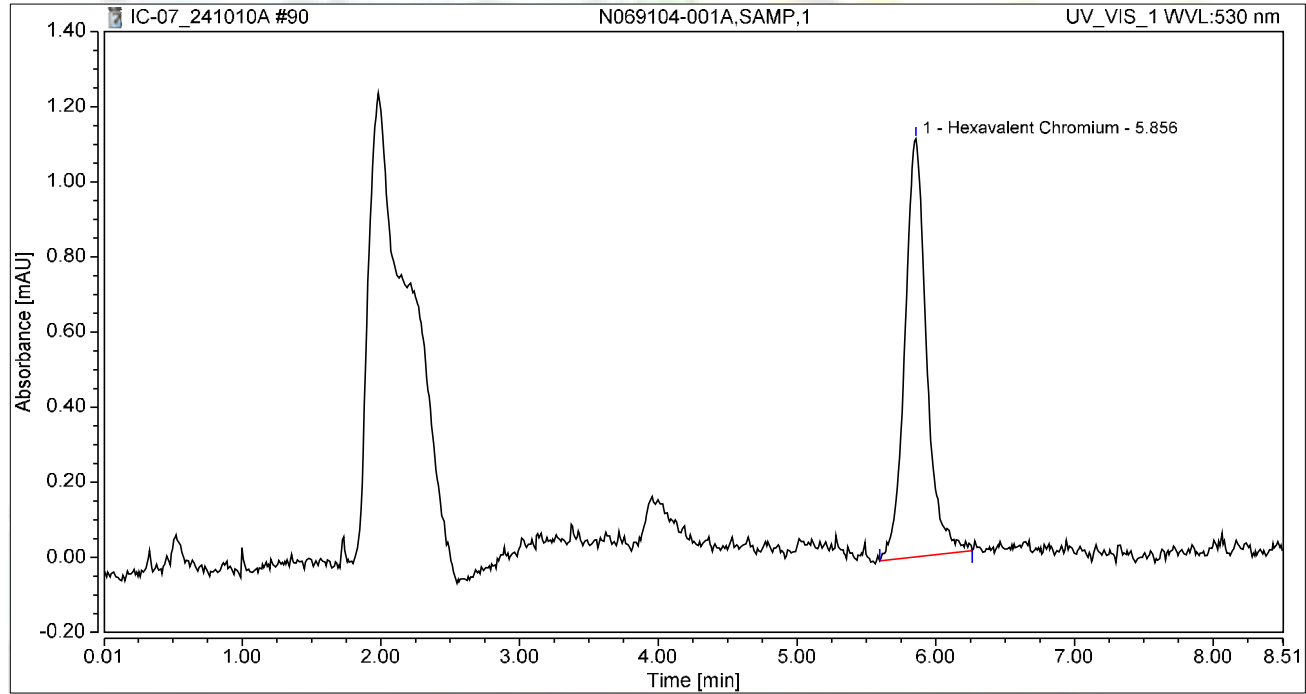
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.865	0.243	1.532	81.15	63.02	0.8946
2		5.998	0.056	0.899	18.85	36.98	n.a.
Total:			0.299	2.431	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069104-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 22:21	Sample Weight:	1.0000

Chromatogram



Integration Results

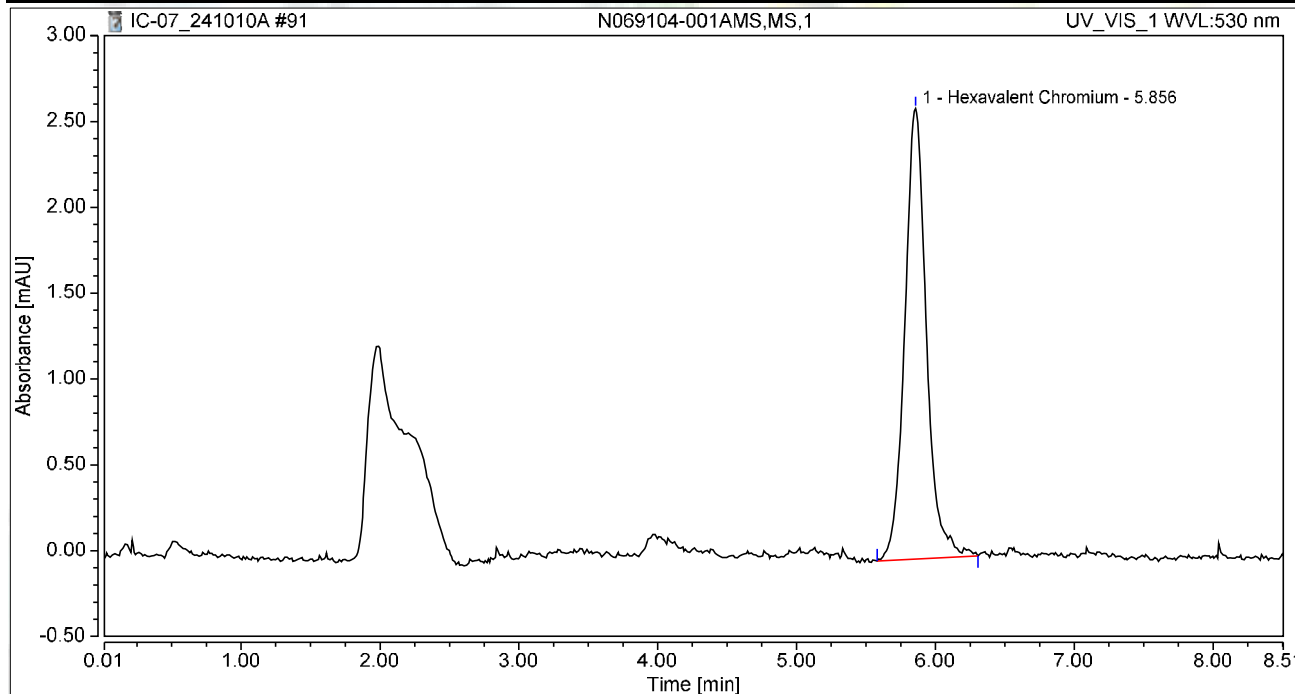
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.856	0.202	1.113	100.00	100.00	0.7425
Total:			0.202	1.113	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069104-001AMS,MS,1	Run Time (min):	8.49
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 22:31	Sample Weight:	1.0000

Chromatogram



Integration Results

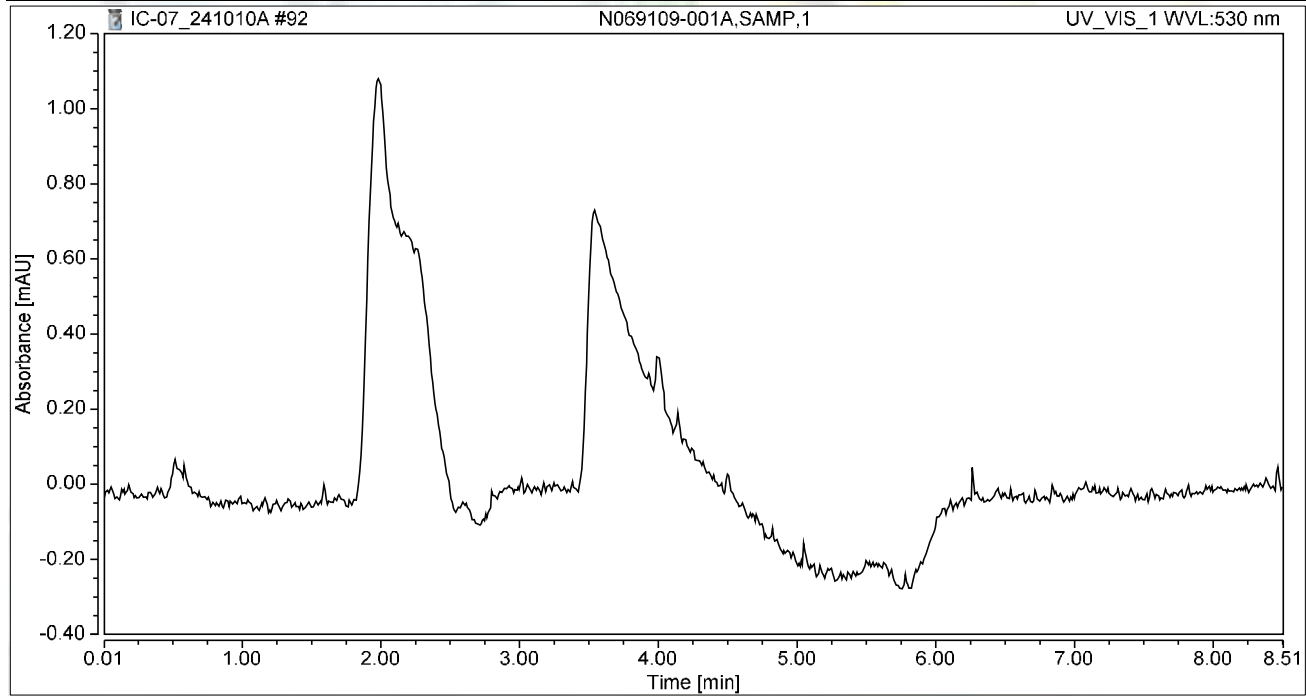
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.856	0.474	2.624	100.00	100.00	1.7470
Total:			0.474	2.624	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069109-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	30	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 22:40	Sample Weight:	1.0000

Chromatogram



Integration Results

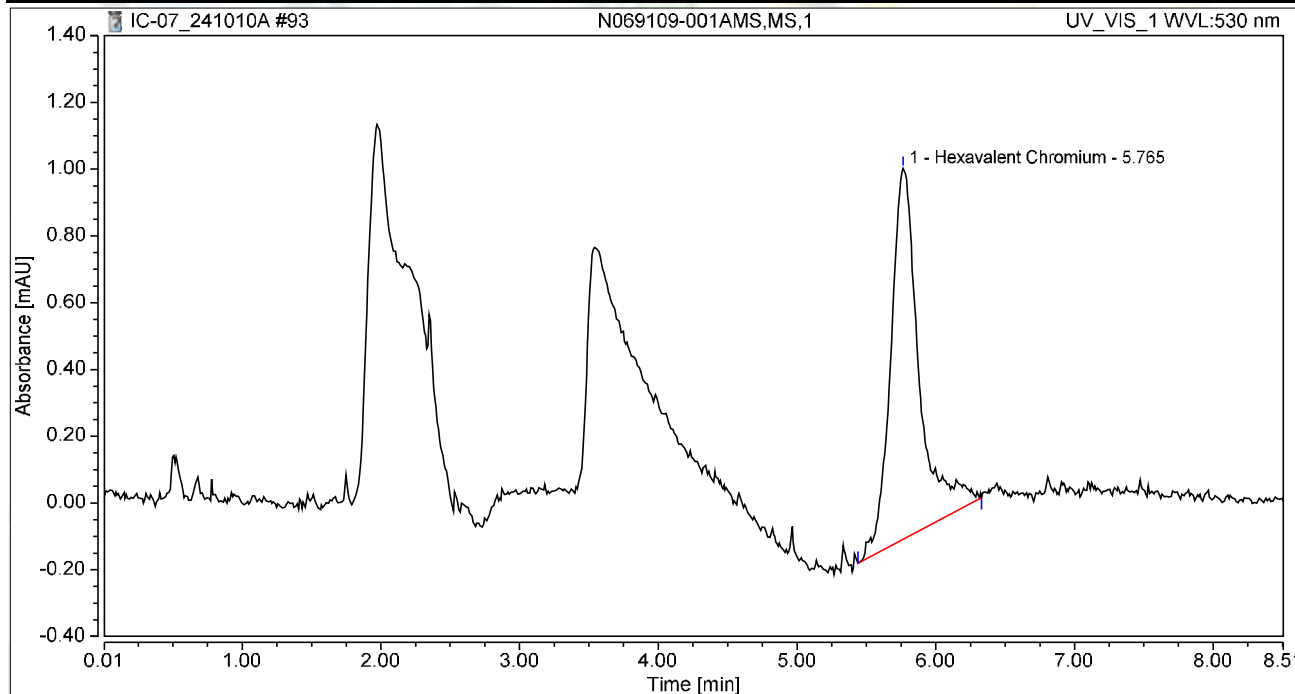
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069109-001AMS,MS,1	Run Time (min):	8.50
Vial Number:	31	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 22:50	Sample Weight:	1.0000

Chromatogram



Integration Results

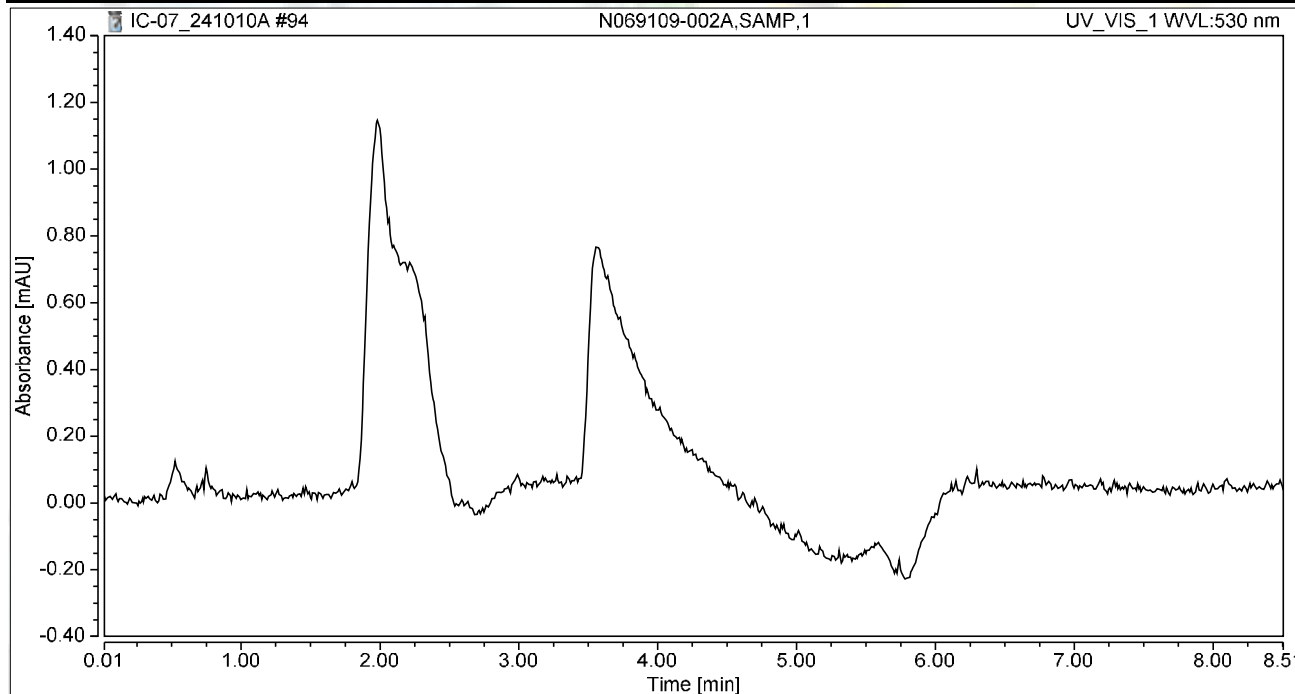
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.765	0.263	1.111	100.00	100.00	0.9704
Total:			0.263	1.111	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069109-002A,SAMP,1	Run Time (min):	8.49
Vial Number:	32	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 22:59	Sample Weight:	1.0000

Chromatogram



Integration Results

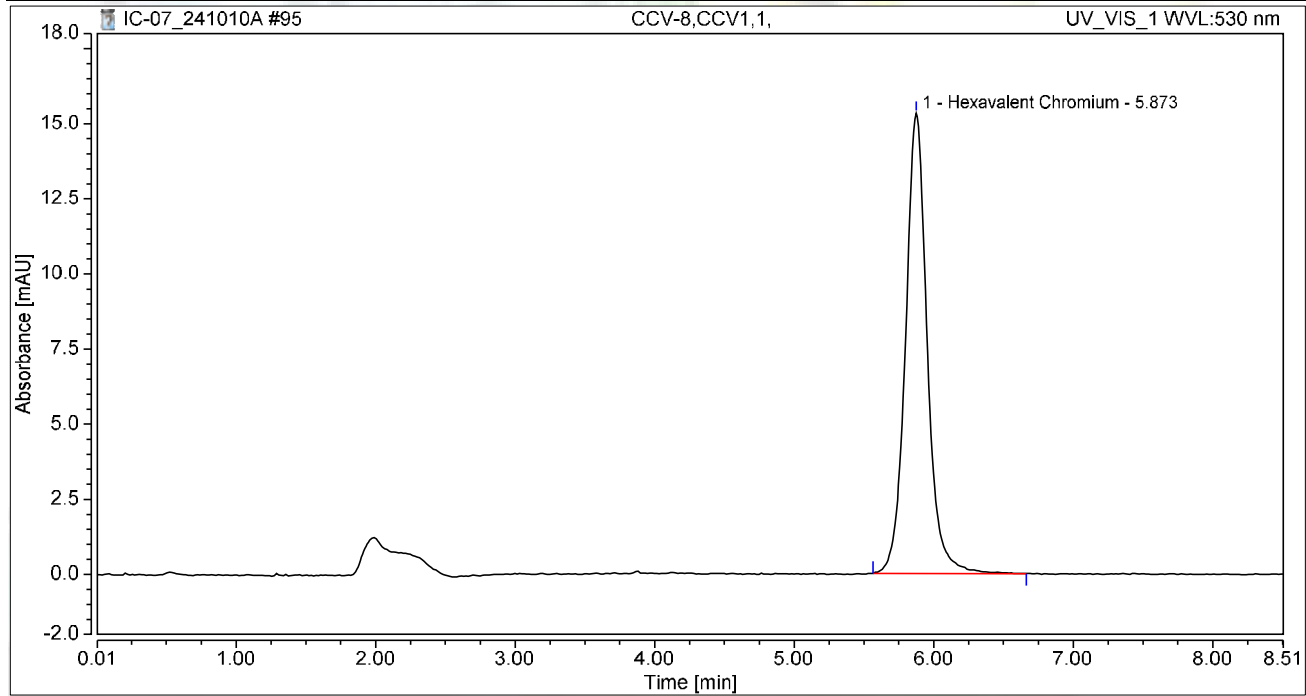
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-8,CCV1,1,	Run Time (min):	8.50
Vial Number:	33	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 23:09	Sample Weight:	1.0000

Chromatogram



Integration Results

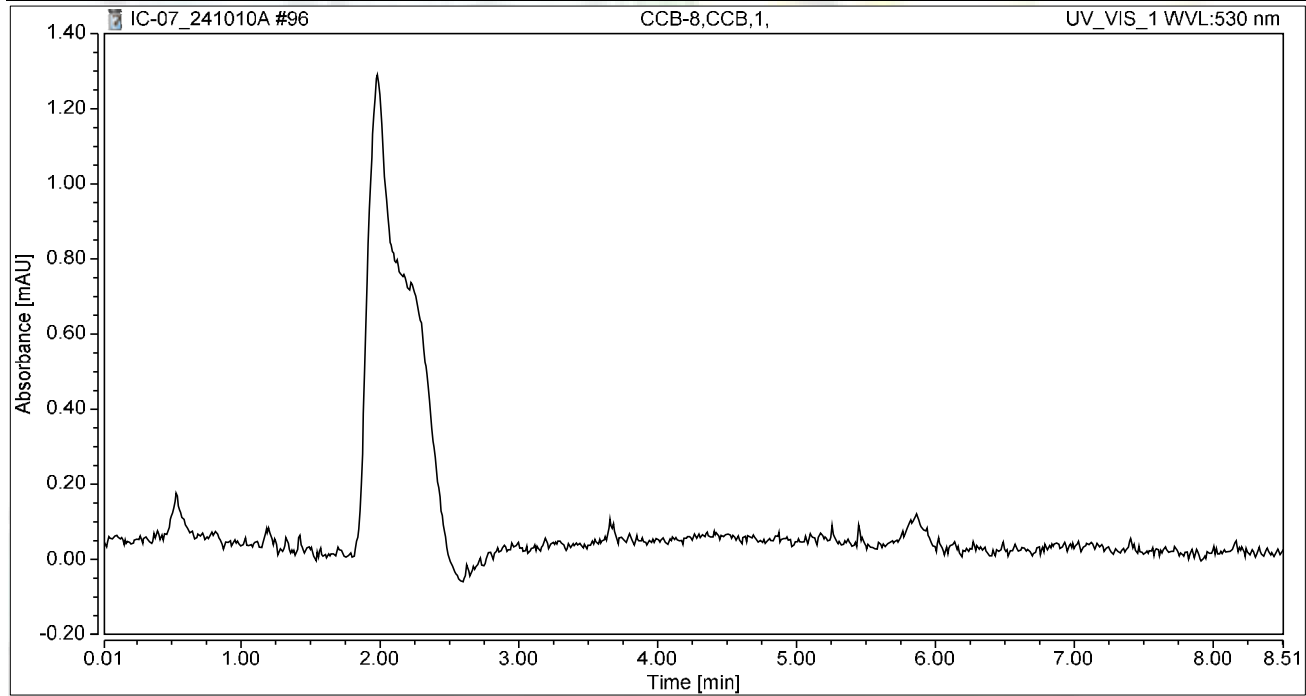
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.873	2.753	15.318	100.00	100.00	10.1403
Total:			2.753	15.318	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-8,CCB,1,	Run Time (min):	8.49
Vial Number:	34	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 23:18	Sample Weight:	1.0000

Chromatogram



Integration Results

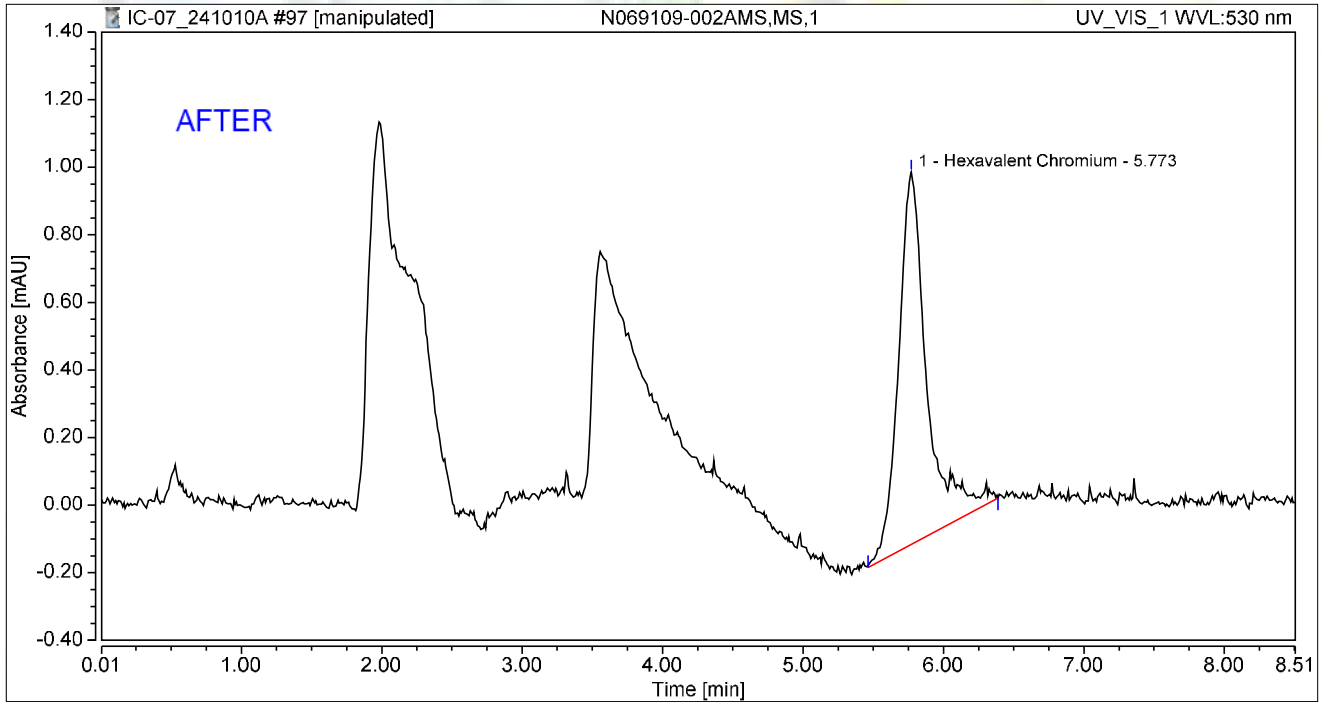
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069109-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 23:28	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.773	0.258	1.102	100.00	100.00	0.9519
Total:			0.258	1.102	100.00	100.00	

Reviewed by:

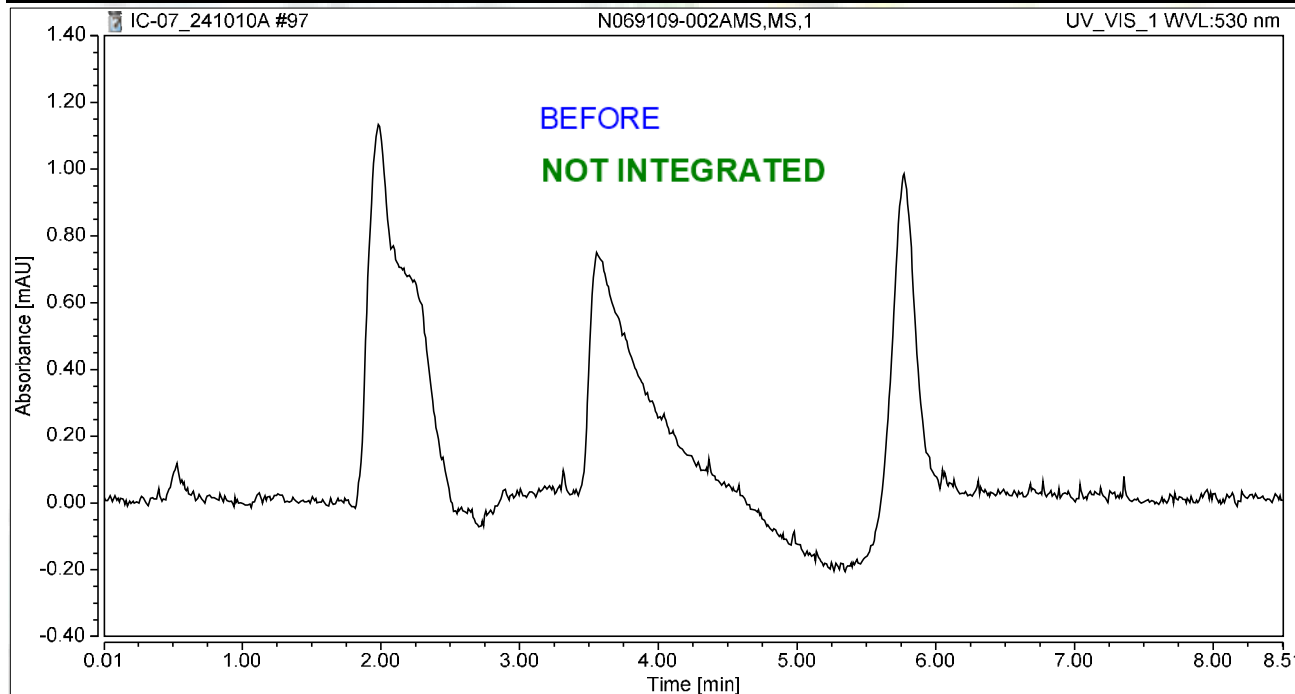
dMocha 10/15/2024

Chromatogram and Results

Injection Details

Injection Name:	N069109-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 23:28	Sample Weight:	1.0000

Chromatogram



Integration Results

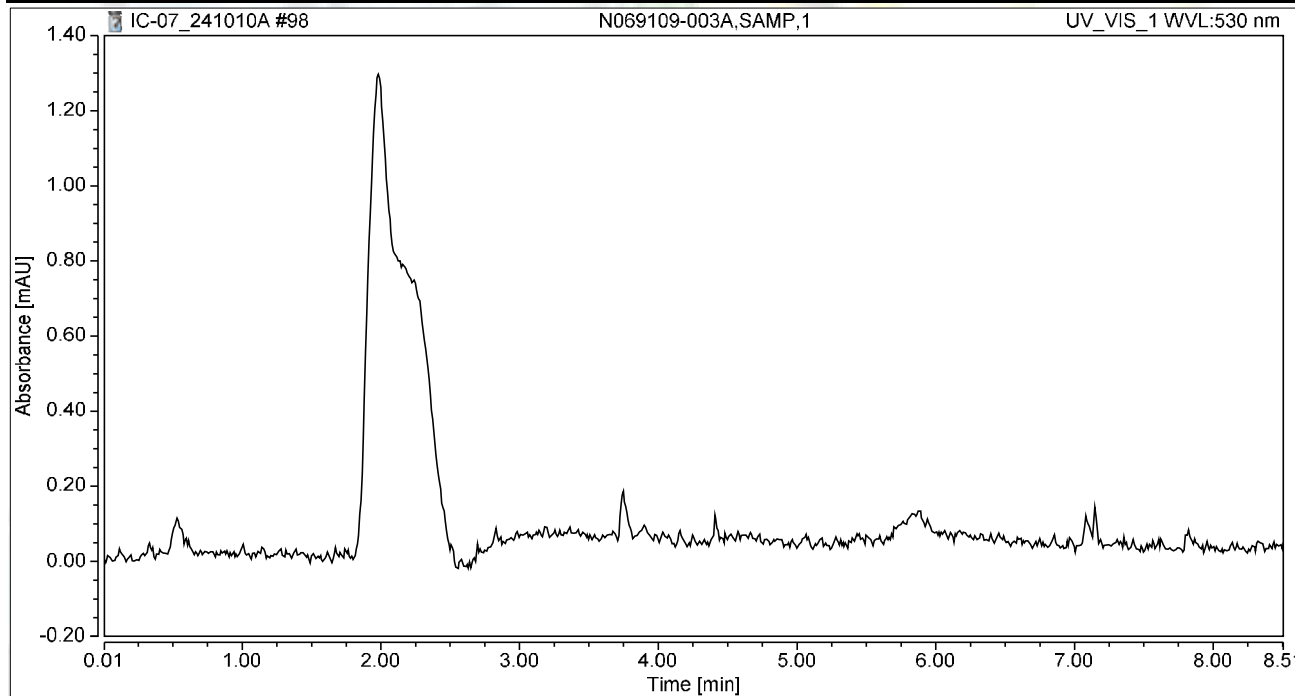
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069109-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	36	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 23:37	Sample Weight:	1.0000

Chromatogram



Integration Results

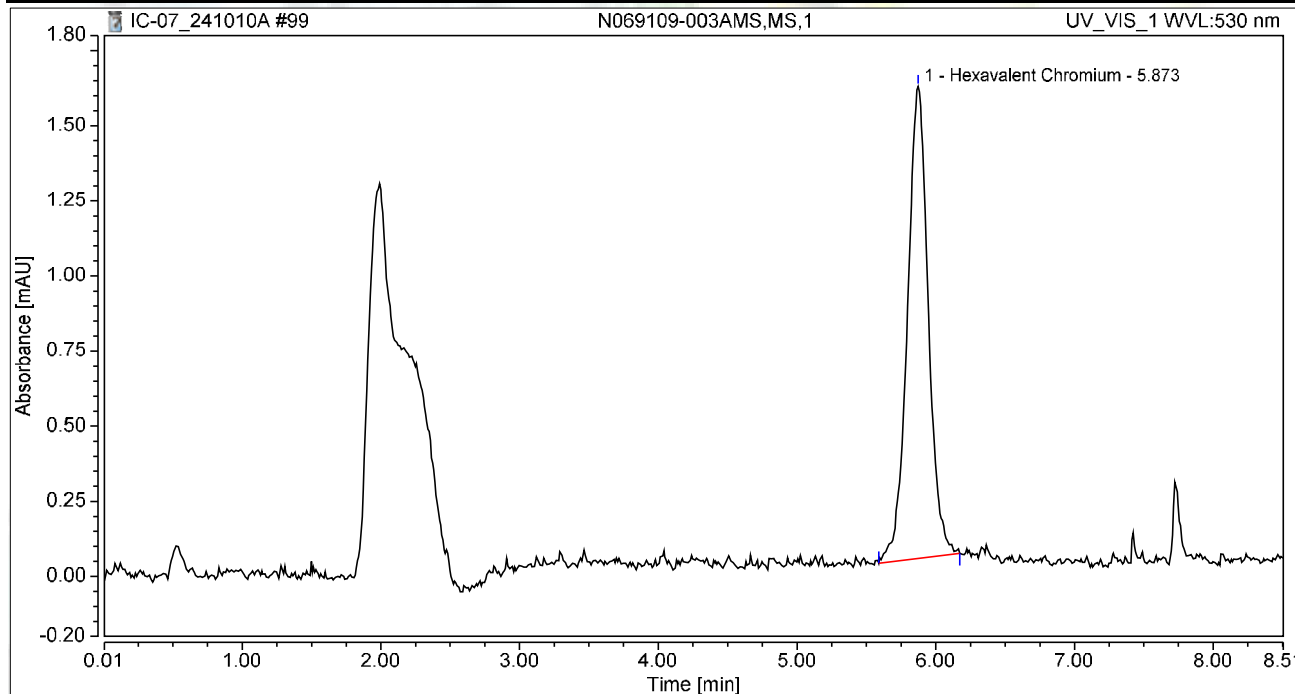
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069109-003AMS,MS,1	Run Time (min):	8.50
Vial Number:	37	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 23:46	Sample Weight:	1.0000

Chromatogram



Integration Results

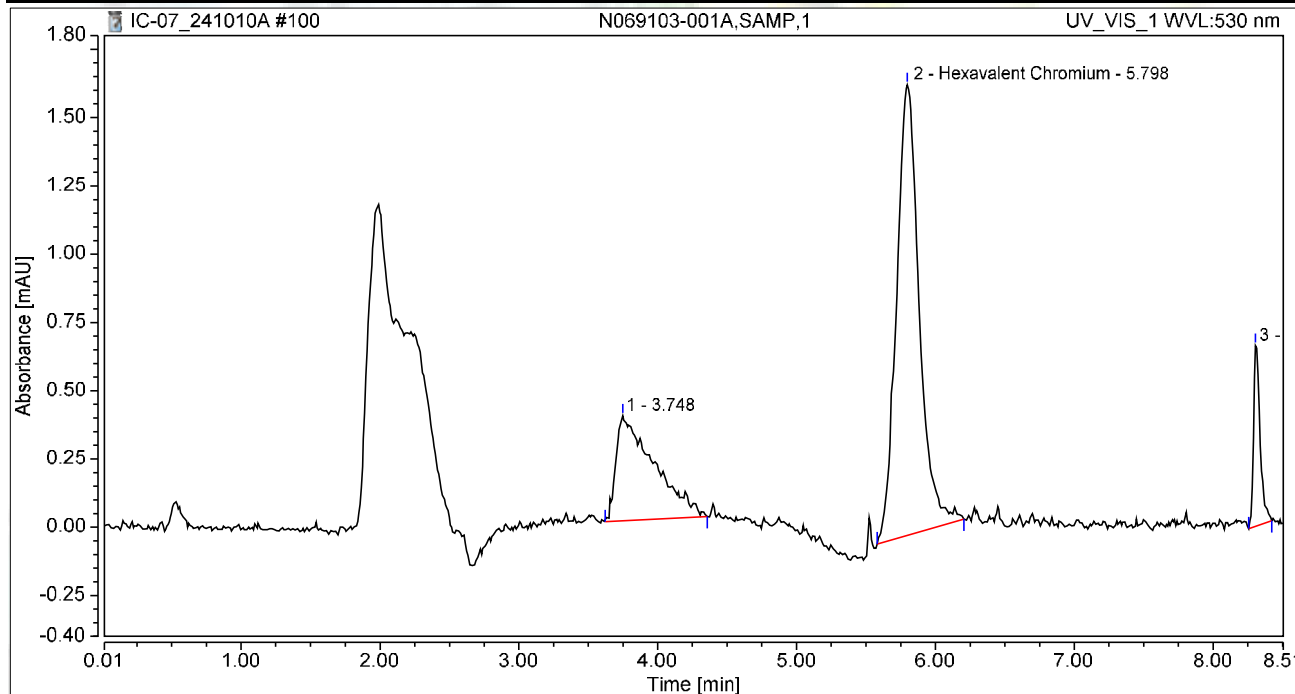
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.873	0.274	1.571	100.00	100.00	1.0098
Total:			0.274	1.571	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069103-001A,SAMP,1	Run Time (min):	8.49
Vial Number:	38	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	10/Oct/24 23:56	Sample Weight:	1.0000

Chromatogram



Integration Results

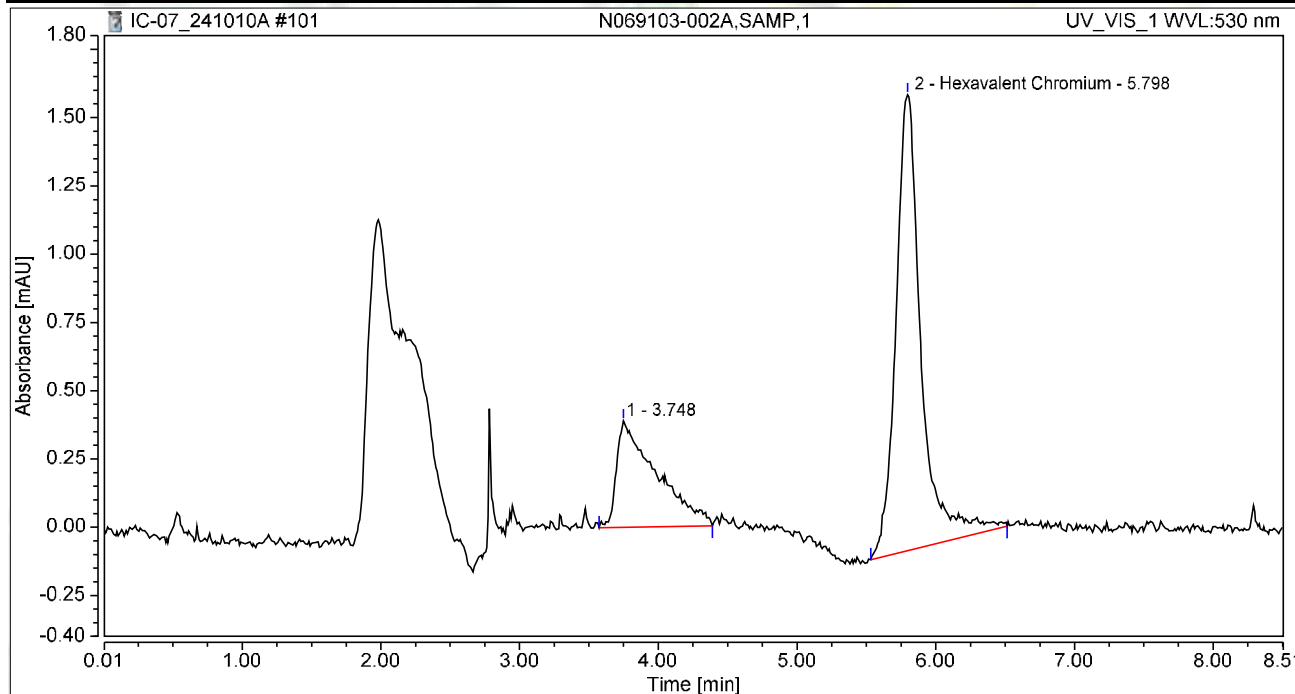
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.748	0.122	0.385	25.90	14.28	n.a.
2	Hexavalent Chromium	5.798	0.313	1.650	66.40	61.21	1.1537
3		8.306	0.036	0.661	7.70	24.51	n.a.
Total:			0.472	2.696	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069103-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	39	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 00:05	Sample Weight:	1.0000

Chromatogram



Integration Results

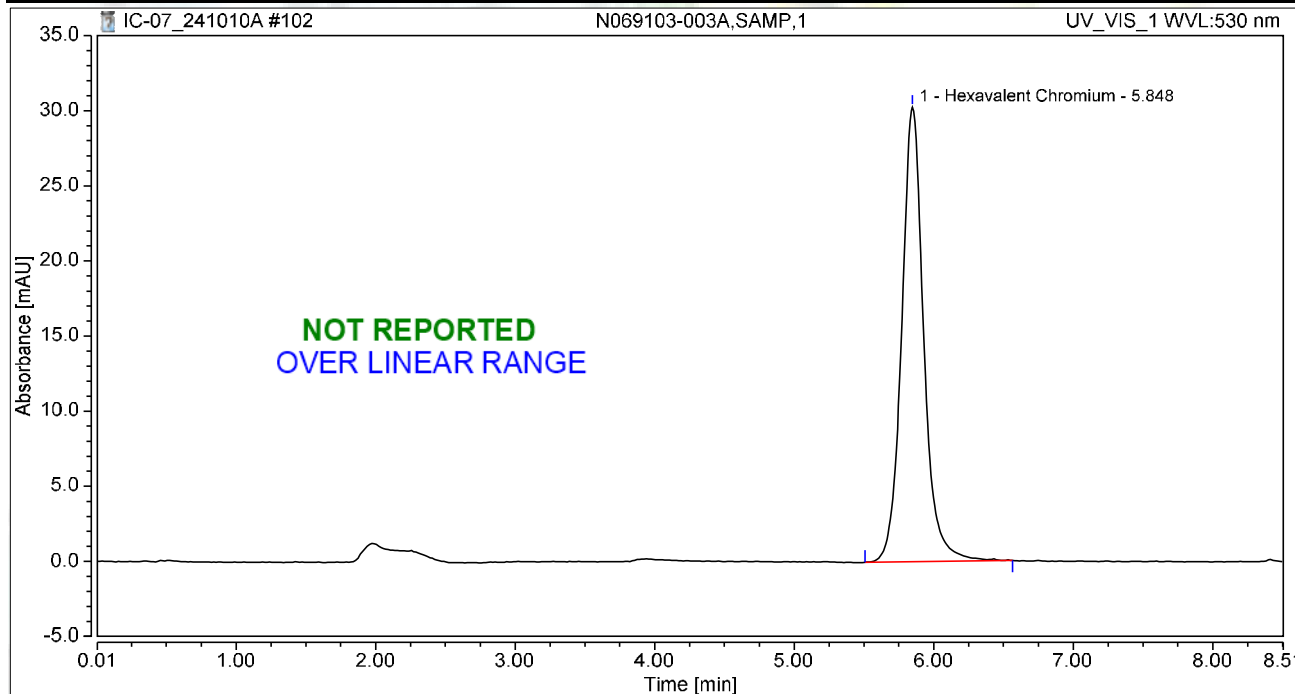
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.748	0.130	0.389	27.09	18.92	n.a.
2	Hexavalent Chromium	5.798	0.351	1.669	72.91	81.08	1.2933
Total:			0.482	2.058	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069103-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 00:15	Sample Weight:	1.0000

Chromatogram



Integration Results

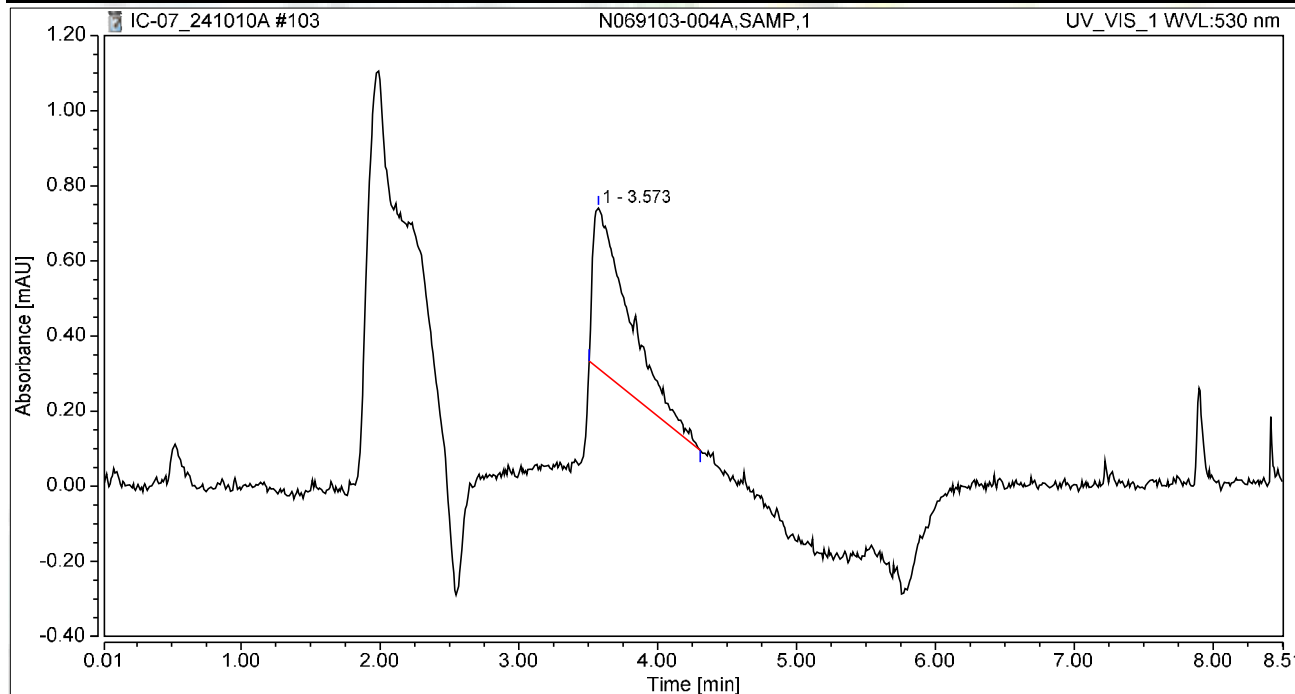
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.848	5.522	30.253	100.00	100.00	20.3390
Total:			5.522	30.253	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069103-004A,SAMP,1	Run Time (min):	8.49
Vial Number:	41	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 00:24	Sample Weight:	1.0000

Chromatogram



Integration Results

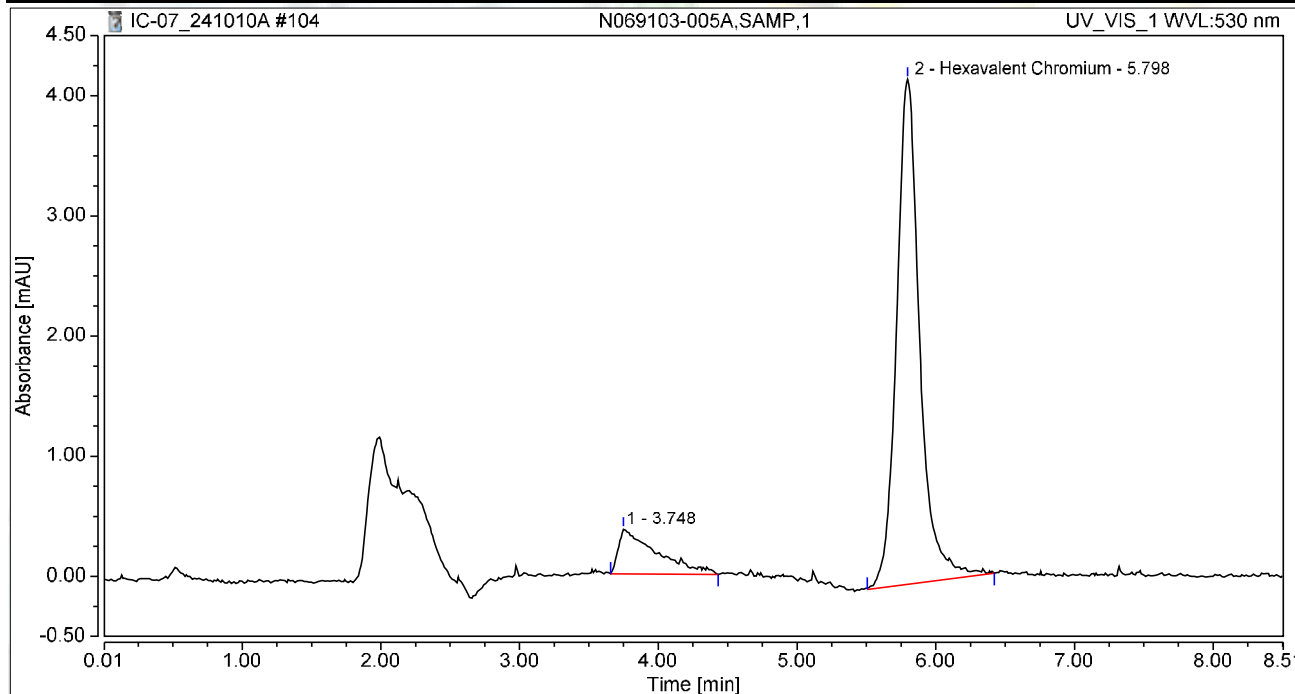
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.573	0.132	0.427	100.00	100.00	n.a.
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.132	0.427	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069103-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	42	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 00:34	Sample Weight:	1.0000

Chromatogram



Integration Results

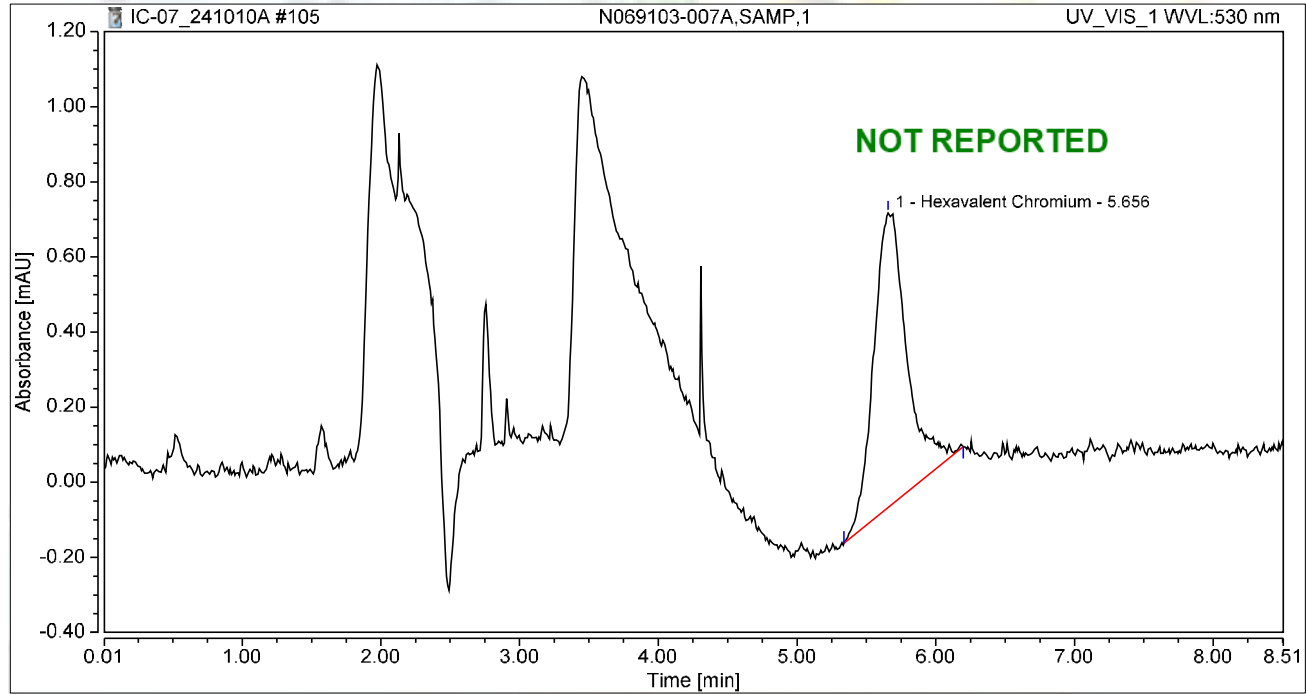
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.748	0.119	0.373	12.80	8.15	n.a.
2	Hexavalent Chromium	5.798	0.812	4.202	87.20	91.85	2.9922
Total:			0.932	4.575	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069103-007A,SAMP,1	Run Time (min):	8.50
Vial Number:	43	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 00:43	Sample Weight:	1.0000

Chromatogram



Integration Results

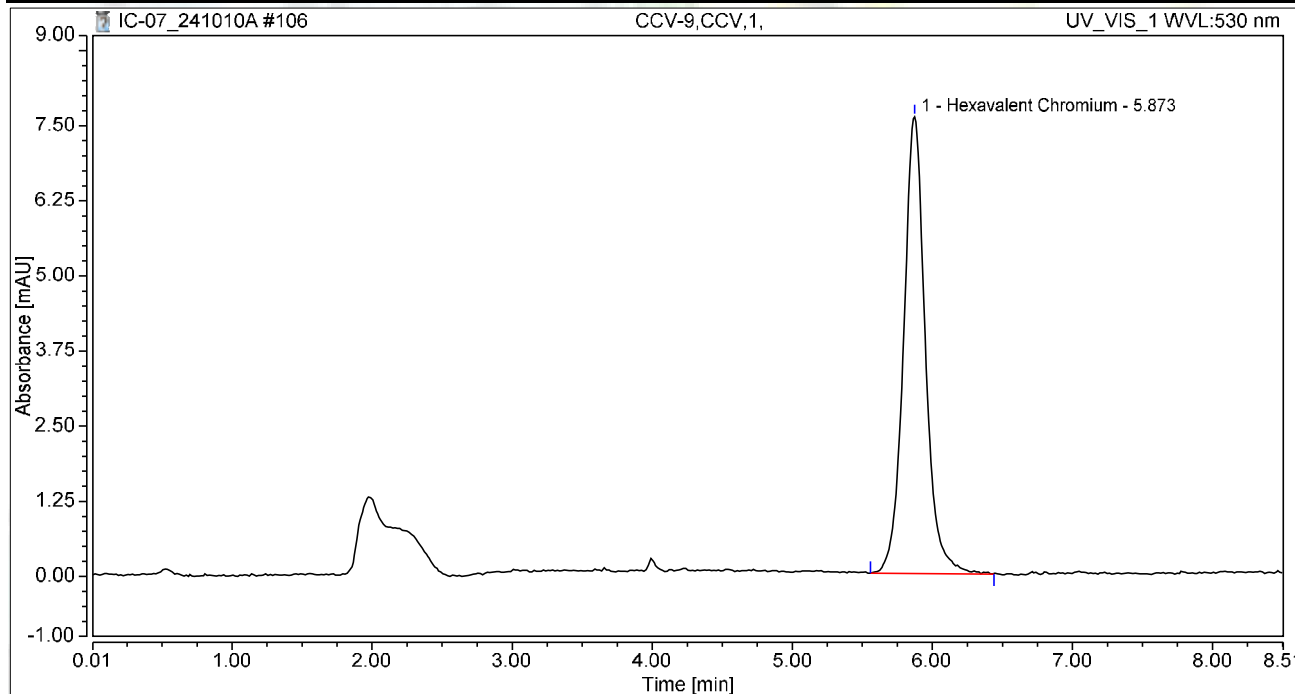
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.656	0.217	0.785	100.00	100.00	0.8002
Total:			0.217	0.785	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-9,CCV,1,	Run Time (min):	8.50
Vial Number:	44	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 00:53	Sample Weight:	1.0000

Chromatogram



Integration Results

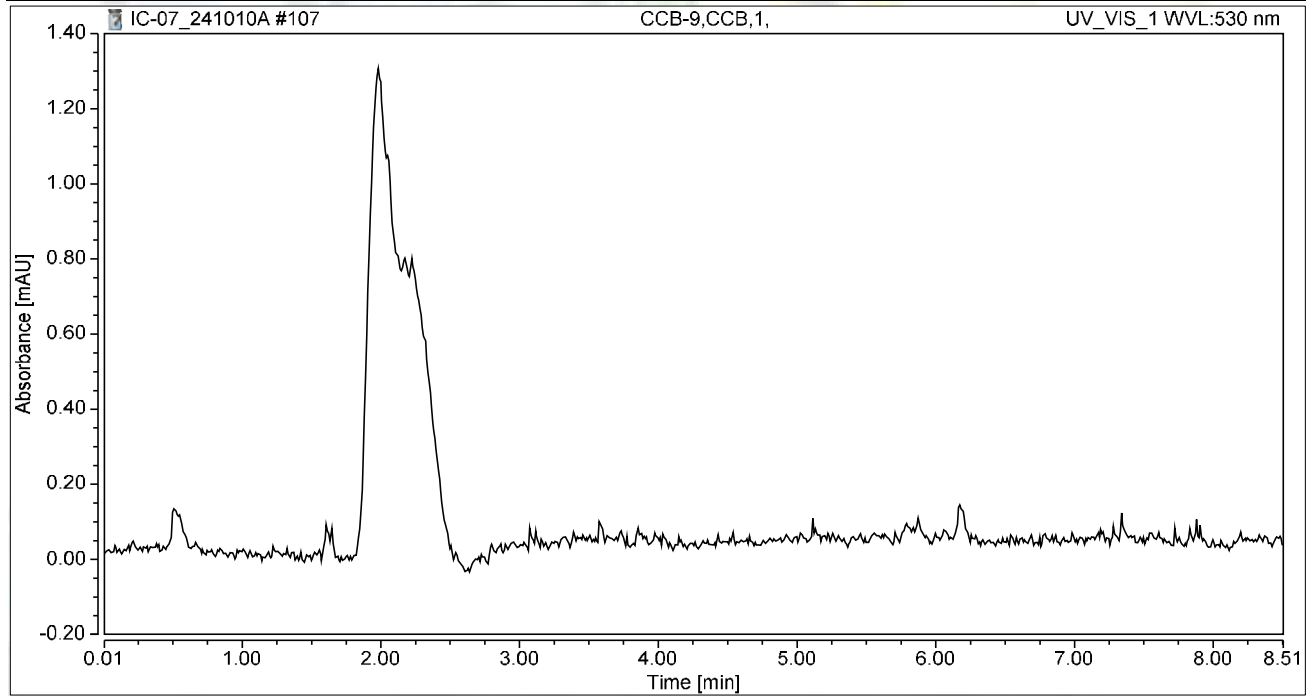
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.873	1.369	7.604	100.00	100.00	5.0417
Total:			1.369	7.604	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-9,CCB,1,	Run Time (min):	8.50
Vial Number:	45	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 01:02	Sample Weight:	1.0000

Chromatogram



Integration Results

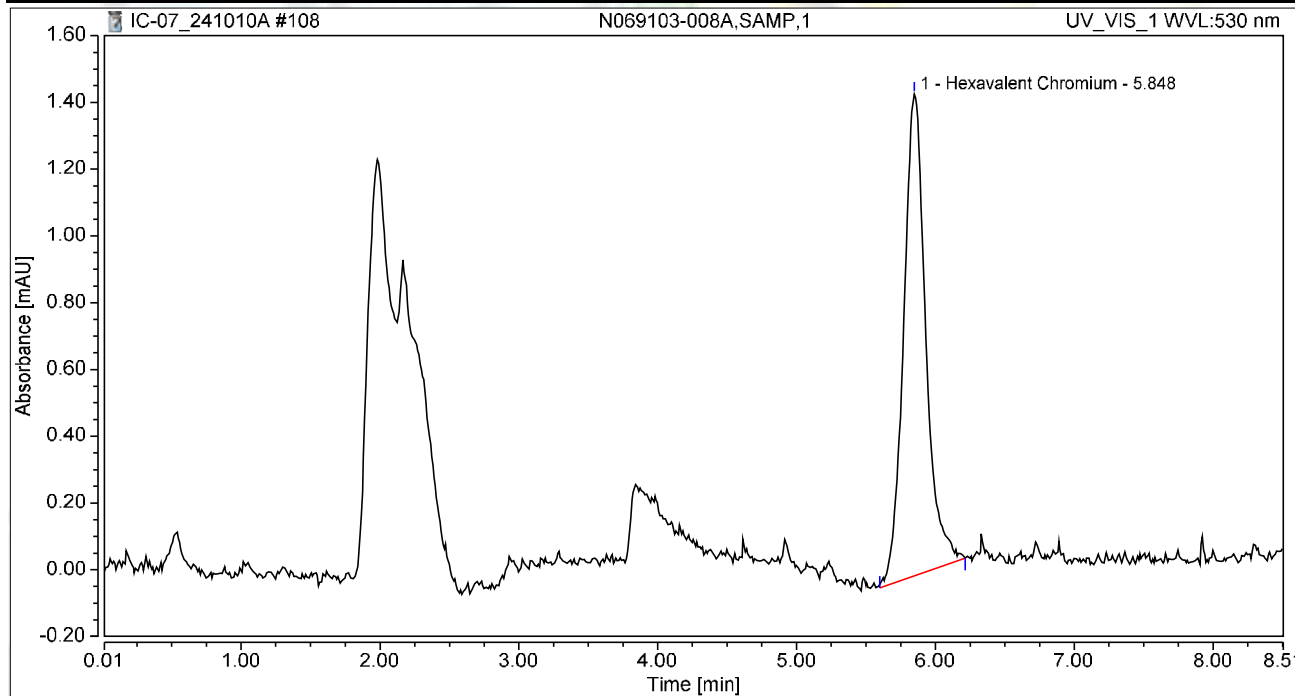
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069103-008A,SAMP,1	Run Time (min):	8.49
Vial Number:	46	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 01:12	Sample Weight:	1.0000

Chromatogram



Integration Results

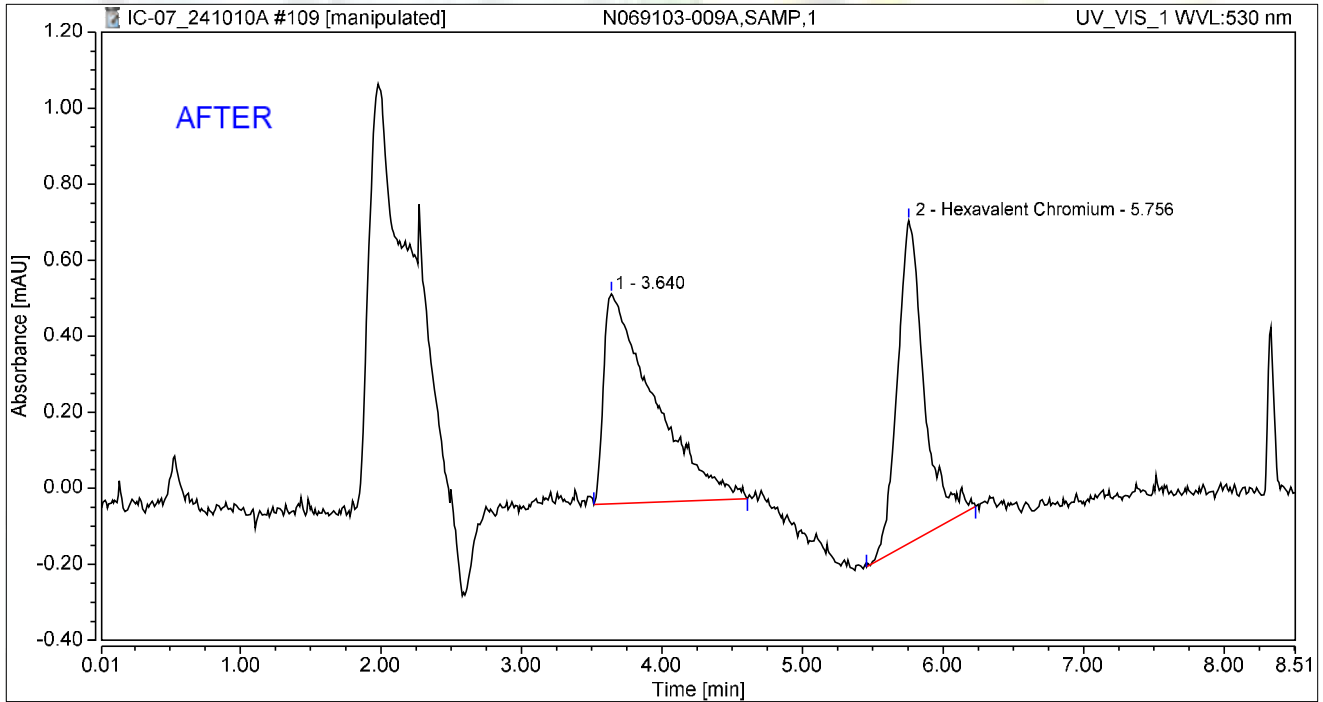
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.848	0.267	1.443	100.00	100.00	0.9830
Total:			0.267	1.443	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069103-009A,SAMP,1	Run Time (min):	8.49
Vial Number:	47	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 01:21	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.640	0.229	0.553	54.94	39.42	n.a.
2	Hexavalent Chromium	5.756	0.188	0.850	45.06	60.58	0.6924
Total:			0.417	1.403	100.00	100.00	

Reviewed by:

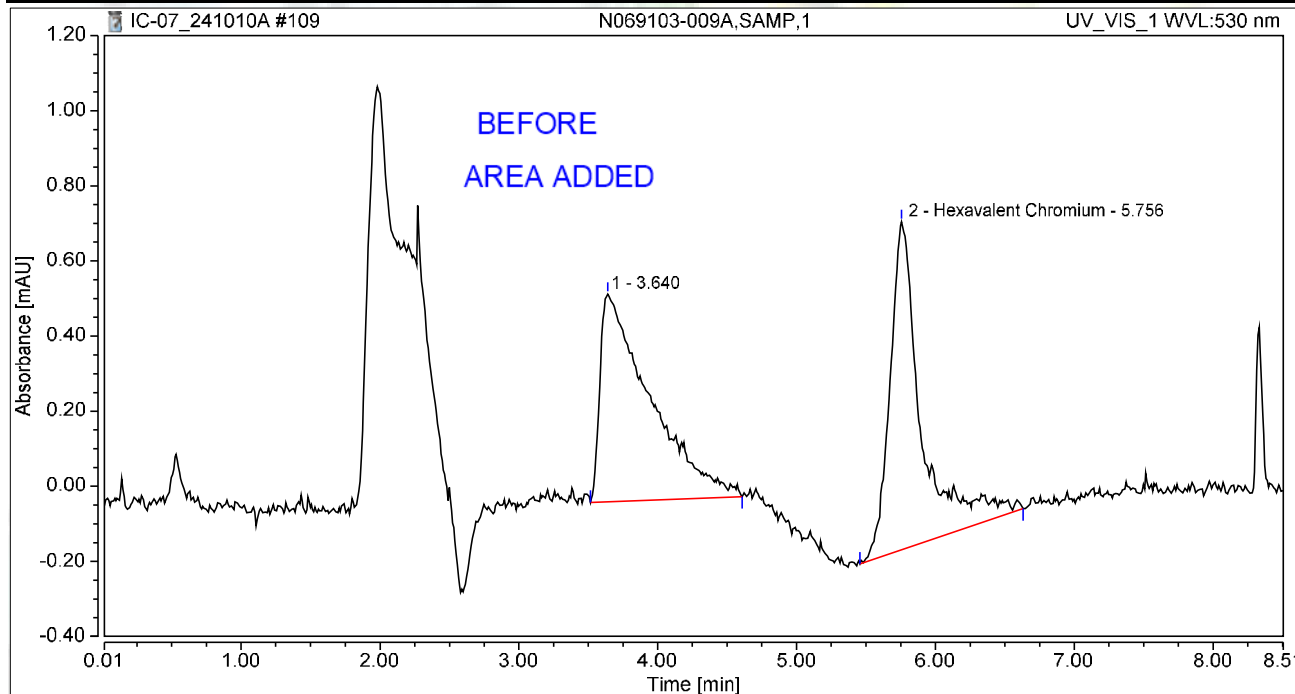
d/Rocha 10/15/2024

Chromatogram and Results

Injection Details

Injection Name:	N069103-009A,SAMP,1	Run Time (min):	8.49
Vial Number:	47	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 01:21	Sample Weight:	1.0000

Chromatogram



Integration Results

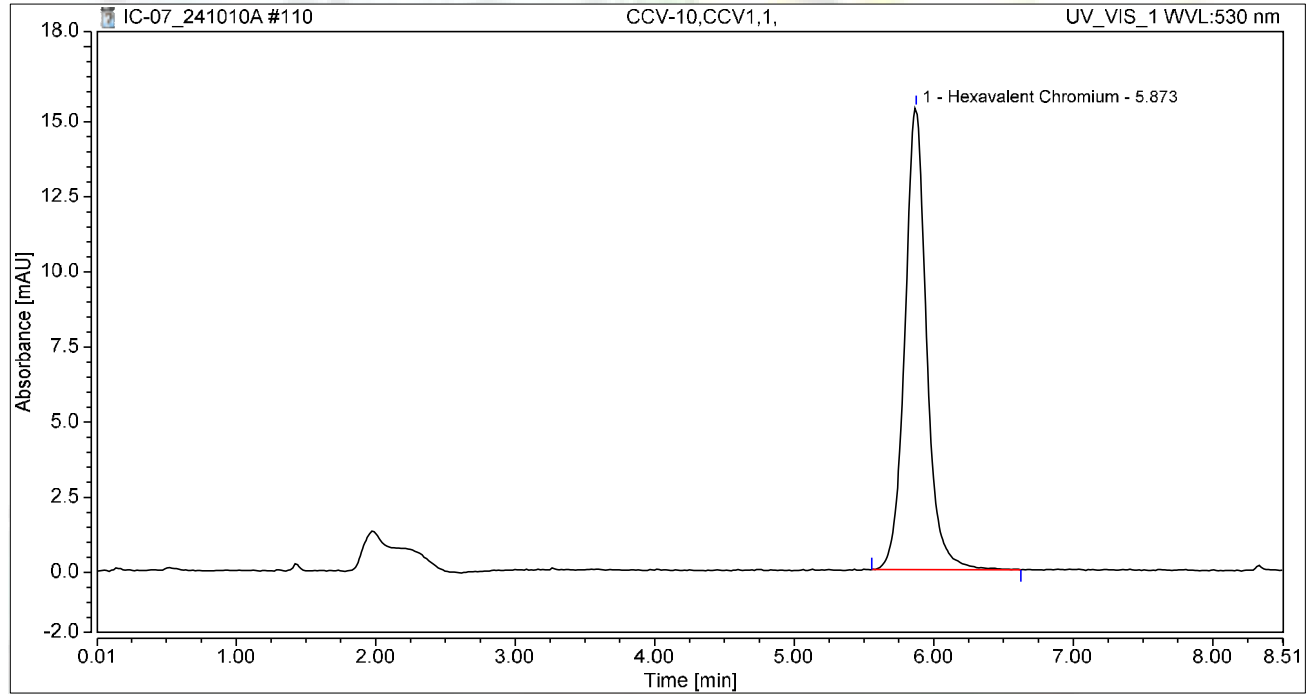
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.640	0.229	0.553	50.00	38.76	n.a.
2	Hexavalent Chromium	5.756	0.229	0.874	50.00	61.24	0.8443
Total:			0.458	1.427	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-10,CCV1,1,	Run Time (min):	8.50
Vial Number:	48	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 01:31	Sample Weight:	1.0000

Chromatogram



Integration Results

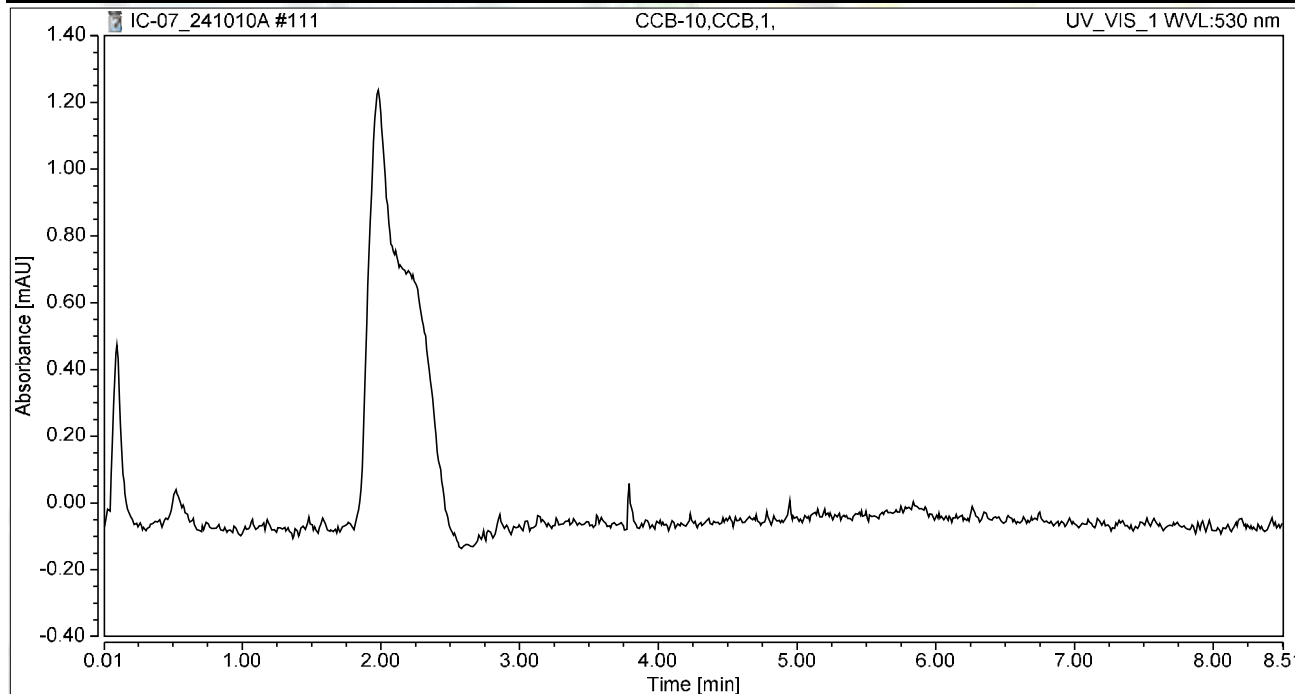
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.873	2.768	15.375	100.00	100.00	10.1952
Total:			2.768	15.375	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-10,CCB,1,	Run Time (min):	8.50
Vial Number:	49	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 01:40	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	



EPA 300.0



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IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
REV 2.0
011416

QC Batch Number: R194135
ASSET # N069101 / N069105 / N069109

Instrument ID: NV00922-IC9
Analyst: RBA
Date Analyzed: 10/10/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria ?(r = 0.995, r =0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)			X			X
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X	X	
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?			X			X
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?			X			X
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
14. For Hinkley DOM samples, matrix spike protocol performed on all samples ? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed ?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)			X			X
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X	X	
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments: **Detection of SO4 in CCB1 is >1/2PQL. However, N069109 samples were closed by CCV5/CCB5 to CCV6/CCB6.**

SO4 in MB is > 1/2 PQL. However, samples are >5x the blank detection.

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA

Date: _____

2nd Level Reviewer JRB 10/15/2024

Date: _____

SAMPLE CALCULATION



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Sample Calculation

METHOD: EPA 300
TEST NAME: INORGANIC ANIONS BY IC
MATRIX: GROUNDWATER

FORMULA:

Calculate the Sulfate concentration, in mg/L, in the original sample as follows:

$$\text{Sulfate, mg/L} = A * DF$$

where:

A = mg/L, IC calculated concentration
DF = dilution factor

For **N069109-001B** concentration in mg/L is calculated as follows:

$$\begin{aligned}\text{Sulfate, mg/L} &= 7.5773 * 50 \\ &= 378.865\end{aligned}$$

Reporting result in two significant figures,

$$\text{Sulfate, mg/L} = \mathbf{380}$$

Reviewed by:

dRecha 11/7/2024

ANALYSIS RUN LOG



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3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

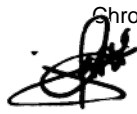
"Serving Clients with Passion and Professionalism"

Sequence: IC-09_240923A
Operator: IC-05

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 20
Created: 9/23/2024 11:28:52 AM by IC-05
Last Update: 9/23/2024 4:12:34 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions_Default	EPA 300_0_240923A	Finished
2	BLANK	Unknown	2	1000.0	Anions_Default	EPA 300_0_240923A	Finished
3	BLANK	Unknown	4	1000.0	Anions_Default	EPA 300_0_240923A	Finished
4	Std - 0	Standard	6	1000.0	Anions_Default	EPA 300_0_240923A	Finished
5	Std - 1	Standard	7	1000.0	Anions_Default	EPA 300_0_240923A	Finished
6	Std - 2	Standard	8	1000.0	Anions_Default	EPA 300_0_240923A	Finished
7	Std - 3	Standard	9	1000.0	Anions_Default	EPA 300_0_240923A	Finished
8	Std - 4	Standard	10	1000.0	Anions_Default	EPA 300_0_240923A	Finished
9	Std - 5	Standard	11	1000.0	Anions_Default	EPA 300_0_240923A	Finished
10	ICV,ICV,1	Unknown	13	1000.0	Anions_Default	EPA 300_0_240923A	Finished
11	ICB,ICB,1	Unknown	14	1000.0	Anions_Default	EPA 300_0_240923A	Finished
12	MB-SOIL,MBLK,1	Unknown	15	1000.0	Anions_Default	EPA 300_0_240923A	Finished
13	LCS-SOIL,LCS,1	Unknown	16	1000.0	Anions_Default	EPA 300_0_240923A	Finished
14	N068585-001A,SAMP,20	Unknown	18	1000.0	Anions_Default	EPA 300_0_240923A	Finished
15	N068585-001ADUP,DUP,20	Unknown	20	1000.0	Anions_Default	EPA 300_0_240923A	Finished
16	N068585-001AMS,MS,20	Unknown	21	1000.0	Anions_Default	EPA 300_0_240923A	Finished
17	N068585-001AMSD,MSD,20	Unknown	22	1000.0	Anions_Default	EPA 300_0_240923A	Finished
18	N068585-001APS,MS,20	Unknown	23	1000.0	Anions_Default	EPA 300_0_240923A	Finished
19	CCV-1,CCV,1	Unknown	24	1000.0	Anions_Default	EPA 300_0_240923A	Finished
20	CCB-1,CCB,1	Unknown	25	1000.0	Anions_Default	EPA 300_0_240923A	Finished

Processed by:



Sequence: IC-09_240923A
Operator: IC-05

Page 2 of 2
Printed: 9/23/2024 9:59:20 PM

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 20
Created: 9/23/2024 11:28:52 AM by IC-05
Last Update: 9/23/2024 4:12:34 PM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	9/23/2024 12:02:01 PM	BLANK
2	BLANK	9/23/2024 12:17:20 PM	BLANK
3	BLANK	9/23/2024 12:33:16 PM	BLANK
4	Std - 0	9/23/2024 12:59:38 PM	IBLANK
5	Std - 1	9/23/2024 1:15:34 PM	STD-LOW
6	Std - 2	9/23/2024 1:31:30 PM	STD
7	Std - 3	9/23/2024 1:47:25 PM	STD
8	Std - 4	9/23/2024 2:03:20 PM	STD
9	Std - 5	9/23/2024 2:19:16 PM	STD-HIGH
10	ICV,ICV,1	9/23/2024 2:35:11 PM	ICV, IWST-240920B
11	ICB,ICB,1	9/23/2024 2:51:07 PM	CCB
12	MB-SOIL,MBLK,1	9/23/2024 3:07:03 PM	MB
13	LCS-SOIL,LCS,1	9/23/2024 3:22:58 PM	LCS, IWST-240920B
14	N068585-001A,SAMP,20	9/23/2024 3:48:29 PM	SAMP,0.5>10mL,
15	N068585-001ADUP,DUP,20	9/23/2024 4:13:18 PM	DUP,0.5>10mL,
16	N068585-001AMS,MS,20	9/23/2024 4:29:14 PM	MS,0.5>10mL,
17	N068585-001AMSD,MSD,20	9/23/2024 4:45:09 PM	MSD,0.5>10mL,
18	N068585-001APS,MS,20	9/23/2024 5:01:05 PM	PS,0.5>10mL,
19	CCV-1,CCV,1	9/23/2024 5:17:00 PM	CCV, IWST-240920A
20	CCB-1,CCB,1	9/23/2024 5:32:55 PM	CCB



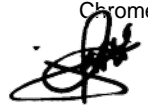
Sequence: IC-09_241010A
Operator: IC-05

Page 1 of 4
Printed: 10/10/2024 11:45:53 PM

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 64
Created: 10/9/2024 11:13:21 AM by IC-05
Last Update: 10/10/2024 2:10:29 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions_Default	EPA 300_0_240923A	Finished
2	BLANK	Unknown	2	1000.0	Anions_Default	EPA 300_0_240923A	Finished
3	BLANK	Unknown	4	1000.0	Anions_Default	EPA 300_0_240923A	Finished
4	Std - 0	Standard	6	1000.0	Anions_Default	EPA 300_0_240923A	Finished
5	Std - 1	Standard	7	1000.0	Anions_Default	EPA 300_0_240923A	Finished
6	Std - 2	Standard	8	1000.0	Anions_Default	EPA 300_0_240923A	Finished
7	Std - 3	Standard	9	1000.0	Anions_Default	EPA 300_0_240923A	Finished
8	Std - 4	Standard	10	1000.0	Anions_Default	EPA 300_0_240923A	Finished
9	Std - 5	Standard	11	1000.0	Anions_Default	EPA 300_0_240923A	Finished
10	BLANK	Unknown	1	1000.0	Anions_Default	EPA 300_0_240923A	Finished
11	CCV-1,CCV,1	Unknown	2	1000.0	Anions_Default	EPA 300_0_240923A	Finished
12	CCB-1,CCB,1	Unknown	3	1000.0	Anions_Default	EPA 300_0_240923A	Finished
13	MB-H2O,MBLK,1	Unknown	4	1000.0	Anions_Default	EPA 300_0_240923A	Finished
14	LCS-H2O,LCS,1	Unknown	5	1000.0	Anions_Default	EPA 300_0_240923A	Finished
15	N069105-001B,SAMP,10	Unknown	1	1000.0	Anions_Default	EPA 300_0_240923A	Finished
16	N069105-001BDUP,DUP,10	Unknown	2	1000.0	Anions_Default	EPA 300_0_240923A	Finished
17	N069105-001BMS,MS,10	Unknown	3	1000.0	Anions_Default	EPA 300_0_240923A	Finished
18	N069105-009B,SAMP,10	Unknown	4	1000.0	Anions_Default	EPA 300_0_240923A	Finished
19	N069105-009BMS,MS,10	Unknown	5	1000.0	Anions_Default	EPA 300_0_240923A	Finished
20	N069105-009BMSD,MSD,10	Unknown	6	1000.0	Anions_Default	EPA 300_0_240923A	Finished
21	N069105-014B,SAMP,5	Unknown	7	1000.0	Anions_Default	EPA 300_0_240923A	Finished
22	N069105-002B,SAMP,10	Unknown	8	1000.0	Anions_Default	EPA 300_0_240923A	Finished
23	CCV-2,CCV,1	Unknown	9	1000.0	Anions_Default	EPA 300_0_240923A	Finished
24	CCB-2,CCB,1	Unknown	10	1000.0	Anions_Default	EPA 300_0_240923A	Finished
25	N069105-003B,SAMP,10	Unknown	11	1000.0	Anions_Default	EPA 300_0_240923A	Finished
26	N069105-004B,SAMP,10	Unknown	12	1000.0	Anions_Default	EPA 300_0_240923A	Finished
27	N069105-005B,SAMP,10	Unknown	13	1000.0	Anions_Default	EPA 300_0_240923A	Finished
28	N069105-006B,SAMP,10	Unknown	14	1000.0	Anions_Default	EPA 300_0_240923A	Finished
29	N069105-008B,SAMP,10	Unknown	15	1000.0	Anions_Default	EPA 300_0_240923A	Finished
30	N069105-010B,SAMP,10	Unknown	16	1000.0	Anions_Default	EPA 300_0_240923A	Finished
31	N069105-011B,SAMP,10	Unknown	17	1000.0	Anions_Default	EPA 300_0_240923A	Finished
32	N069105-012B,SAMP,10	Unknown	18	1000.0	Anions_Default	EPA 300_0_240923A	Finished
33	N069105-013B,SAMP,10	Unknown	19	1000.0	Anions_Default	EPA 300_0_240923A	Finished
34	N069109-001B,SAMP,10	Unknown	20	1000.0	Anions_Default	EPA 300_0_240923A	Finished
35	CCV-3,CCV,1	Unknown	21	1000.0	Anions_Default	EPA 300_0_240923A	Finished
36	CCB-3,CCB,1	Unknown	22	1000.0	Anions_Default	EPA 300_0_240923A	Finished
37	N069109-002B,SAMP,10	Unknown	23	1000.0	Anions_Default	EPA 300_0_240923A	Finished
38	N069105-009B,SAMP,100	Unknown	24	1000.0	Anions_Default	EPA 300_0_240923A	Finished
39	N069105-009BMS,MS,100	Unknown	25	1000.0	Anions_Default	EPA 300_0_240923A	Finished
40	N069105-009BMSD,MSD,100	Unknown	26	1000.0	Anions_Default	EPA 300_0_240923A	Finished
41	N069105-001B,SAMP,100	Unknown	27	1000.0	Anions_Default	EPA 300_0_240923A	Finished

Processed by:



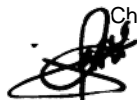
Sequence: IC-09_241010A
Operator: IC-05

Page 2 of 4
Printed: 10/10/2024 11:45:53 PM

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 64

Created: 10/9/2024 11:13:21 AM by IC-05
Last Update: 10/10/2024 2:10:29 PM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	9/23/2024 12:02:01 PM	BLANK
2	BLANK	9/23/2024 12:17:20 PM	BLANK
3	BLANK	9/23/2024 12:33:16 PM	BLANK
4	Std - 0	9/23/2024 12:59:38 PM	IBLANK
5	Std - 1	9/23/2024 1:15:34 PM	STD-LOW
6	Std - 2	9/23/2024 1:31:30 PM	STD
7	Std - 3	9/23/2024 1:47:25 PM	STD
8	Std - 4	9/23/2024 2:03:20 PM	STD
9	Std - 5	9/23/2024 2:19:16 PM	STD-HIGH
10	BLANK	10/10/2024 9:07:34 AM	BLANK
11	CCV-1,CCV,1	10/10/2024 9:22:52 AM	CCV, IWST-241007A
12	CCB-1,CCB,1	10/10/2024 9:38:48 AM	CCB
13	MB-H2O,MBLK,1	10/10/2024 9:54:43 AM	MB
14	LCS-H2O,LCS,1	10/10/2024 10:10:39 AM	LCS, IWST-241007B
15	N069105-001B,SAMP,10	10/10/2024 10:29:29 AM	SAMP,1>10mL,
16	N069105-001BDUP,DUP,10	10/10/2024 10:44:49 AM	DUP,1>10mL,
17	N069105-001BMS,MS,10	10/10/2024 11:00:44 AM	MS,1>10mL,
18	N069105-009B,SAMP,10	10/10/2024 11:16:41 AM	SAMP,1>10mL,
19	N069105-009BMS,MS,10	10/10/2024 11:32:37 AM	MS,1>10mL,
20	N069105-009BMSD,MSD,10	10/10/2024 11:48:33 AM	MSD,1>10mL,
21	N069105-014B,SAMP,5	10/10/2024 12:04:29 PM	SAMP,2>10mL,
22	N069105-002B,SAMP,10	10/10/2024 12:20:25 PM	SAMP,1>10mL,
23	CCV-2,CCV,1	10/10/2024 12:36:20 PM	CCV, IWST-241007A
24	CCB-2,CCB,1	10/10/2024 12:52:16 PM	CCB
25	N069105-003B,SAMP,10	10/10/2024 1:08:12 PM	SAMP,1>10mL,
26	N069105-004B,SAMP,10	10/10/2024 1:24:07 PM	SAMP,1>10mL,
27	N069105-005B,SAMP,10	10/10/2024 1:40:03 PM	SAMP,1>10mL,
28	N069105-006B,SAMP,10	10/10/2024 1:55:59 PM	SAMP,1>10mL,
29	N069105-008B,SAMP,10	10/10/2024 2:11:55 PM	SAMP,1>10mL,
30	N069105-010B,SAMP,10	10/10/2024 2:27:51 PM	SAMP,1>10mL,
31	N069105-011B,SAMP,10	10/10/2024 2:43:47 PM	SAMP,1>10mL,
32	N069105-012B,SAMP,10	10/10/2024 2:59:42 PM	SAMP,1>10mL,
33	N069105-013B,SAMP,10	10/10/2024 3:15:38 PM	SAMP,1>10mL,
34	N069109-001B,SAMP,10	10/10/2024 3:31:35 PM	SAMP,1>10mL,
35	CCV-3,CCV,1	10/10/2024 3:47:32 PM	CCV, IWST-241007A
36	CCB-3,CCB,1	10/10/2024 4:03:28 PM	CCB
37	N069109-002B,SAMP,10	10/10/2024 4:19:24 PM	SAMP,1>10mL,
38	N069105-009B,SAMP,100	10/10/2024 4:35:20 PM	SAMP,0.1>10mL,
39	N069105-009BMS,MS,100	10/10/2024 4:51:17 PM	MS,0.1>10mL,
40	N069105-009BMSD,MSD,100	10/10/2024 5:07:13 PM	MSD,0.1>10mL,
41	N069105-001B,SAMP,100	10/10/2024 5:23:09 PM	SAMP,0.1>10mL,



Sequence: IC-09_241010A
Operator: IC-05

Page 3 of 4
Printed: 10/10/2024 11:45:53 PM

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 64

Created: 10/9/2024 11:13:21 AM by IC-05
Last Update: 10/10/2024 2:10:29 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
42	N069105-001BDUP,DUP,100	Unknown	28	1000.0	Anions_Default	EPA 300_0_240923A	Finished
43	N069105-001BMS,MS,100	Unknown	29	1000.0	Anions_Default	EPA 300_0_240923A	Finished
44	N069105-014B,SAMP,20	Unknown	30	1000.0	Anions_Default	EPA 300_0_240923A	Finished
45	N068571-001B,SAMP,500	Unknown	31	1000.0	Anions_Default	EPA 300_0_240923A	Finished
46	N069101-001A,SAMP,5	Unknown	32	1000.0	Anions_Default	EPA 300_0_240923A	Finished
47	CCV-4,CCV,1	Unknown	33	1000.0	Anions_Default	EPA 300_0_240923A	Finished
48	CCB-4,CCB,1	Unknown	34	1000.0	Anions_Default	EPA 300_0_240923A	Finished
49	N069105-002B,SAMP,200	Unknown	35	1000.0	Anions_Default	EPA 300_0_240923A	Finished
50	N069105-003B,SAMP,50	Unknown	36	1000.0	Anions_Default	EPA 300_0_240923A	Finished
51	N069105-004B,SAMP,50	Unknown	37	1000.0	Anions_Default	EPA 300_0_240923A	Finished
52	N069105-005B,SAMP,50	Unknown	38	1000.0	Anions_Default	EPA 300_0_240923A	Finished
53	N069105-006B,SAMP,50	Unknown	39	1000.0	Anions_Default	EPA 300_0_240923A	Finished
54	N069105-008B,SAMP,50	Unknown	40	1000.0	Anions_Default	EPA 300_0_240923A	Finished
55	N069105-010B,SAMP,100	Unknown	41	1000.0	Anions_Default	EPA 300_0_240923A	Finished
56	N069105-011B,SAMP,100	Unknown	42	1000.0	Anions_Default	EPA 300_0_240923A	Finished
57	N069105-012B,SAMP,100	Unknown	43	1000.0	Anions_Default	EPA 300_0_240923A	Finished
58	N069105-013B,SAMP,100	Unknown	44	1000.0	Anions_Default	EPA 300_0_240923A	Finished
59	CCV-5,CCV,1	Unknown	45	1000.0	Anions_Default	EPA 300_0_240923A	Finished
60	CCB-5,CCB,1	Unknown	46	1000.0	Anions_Default	EPA 300_0_240923A	Finished
61	N069109-001B,SAMP,50	Unknown	47	1000.0	Anions_Default	EPA 300_0_240923A	Finished
62	N069109-002B,SAMP,50	Unknown	48	1000.0	Anions_Default	EPA 300_0_240923A	Finished
63	CCV-6,CCV,1	Unknown	49	1000.0	Anions_Default	EPA 300_0_240923A	Finished
64	CCB-6,CCB,1	Unknown	50	1000.0	Anions_Default	EPA 300_0_240923A	Finished



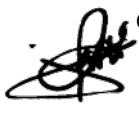
Sequence: IC-09_241010A
Operator: IC-05

Page 4 of 4
Printed: 10/10/2024 11:45:53 PM

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 64

Created: 10/9/2024 11:13:21 AM by IC-05
Last Update: 10/10/2024 2:10:29 PM by IC-05

No.	Name	Inj. Date/Time	Comment
42	N069105-001BDUP,DUP,100	10/10/2024 5:39:05 PM	DUP,0.1>10mL,
43	N069105-001BMS,MS,100	10/10/2024 5:55:01 PM	MS,0.1>10mL,
44	N069105-014B,SAMP,20	10/10/2024 6:10:57 PM	SAMP,0.5>10mL,
45	N068571-001B,SAMP,500	10/10/2024 6:26:53 PM	SAMP,0.02>10mL,
46	N069101-001A,SAMP,5	10/10/2024 6:42:49 PM	SAMP,2>10mL,
47	CCV-4,CCV,1	10/10/2024 6:58:46 PM	CCV, IWST-241007A
48	CCB-4,CCB,1	10/10/2024 7:14:42 PM	CCB
49	N069105-002B,SAMP,200	10/10/2024 7:30:38 PM	SAMP,0.05>10mL,
50	N069105-003B,SAMP,50	10/10/2024 7:46:33 PM	SAMP,0.2>10mL,
51	N069105-004B,SAMP,50	10/10/2024 8:02:29 PM	SAMP,0.2>10mL,
52	N069105-005B,SAMP,50	10/10/2024 8:18:25 PM	SAMP,0.2>10mL,
53	N069105-006B,SAMP,50	10/10/2024 8:34:21 PM	SAMP,0.2>10mL,
54	N069105-008B,SAMP,50	10/10/2024 8:50:17 PM	SAMP,0.2>10mL,
55	N069105-010B,SAMP,100	10/10/2024 9:06:13 PM	SAMP,0.1>10mL,
56	N069105-011B,SAMP,100	10/10/2024 9:22:09 PM	SAMP,0.1>10mL,
57	N069105-012B,SAMP,100	10/10/2024 9:38:05 PM	SAMP,0.1>10mL,
58	N069105-013B,SAMP,100	10/10/2024 9:54:01 PM	SAMP,0.1>10mL,
59	CCV-5,CCV,1	10/10/2024 10:09:57 PM	CCV, IWST-241007A
60	CCB-5,CCB,1	10/10/2024 10:25:53 PM	CCB
61	N069109-001B,SAMP,50	10/10/2024 10:41:50 PM	SAMP,0.2>10mL,
62	N069109-002B,SAMP,50	10/10/2024 10:57:46 PM	SAMP,0.2>10mL,
63	CCV-6,CCV,1	10/10/2024 11:13:42 PM	CCV, IWST-241007A
64	CCB-6,CCB,1	10/10/2024 11:29:37 PM	CCB



INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

(EPA 300) - INITIAL CALIBRATION

Instrument ID: NV00922-IC9

Date Calibrated: 9/23/2024

Initial Calibration:

Nitrate	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in mg/L	0	0.05	0.25	0.5	1.25	2.5	R ²
Area,mAU*min	0.0000	0.0194	0.0962	0.1883	0.4778	0.9820	1.000
Measured, in mg/L	0.000000	0.061700	0.257000	0.491400	1.228300	2.511600	
Relative Error (%RE)		23.4%		-1.7%			

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST-240705D

Calibration Acceptance Criteria: > 0.995 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places.
The exact values are represented in the ICAL summary for calculation purposes.

(EPA 300) - INITIAL CALIBRATION

Instrument ID: NV00922-IC9

Date Calibrated: 9/23/2024

Initial Calibration:

Sulfate	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in mg/L	0	0.5	2	4	10	20	R ²
Area,mAU*min	0.0000	0.0535	0.2221	0.4482	1.1481	2.3947	1.000
Measured, in mg/L	0.000000	0.643100	2.046100	3.927700	9.753600	20.129500	
Relative Error (%RE)		28.6%		-1.8%			

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST-240705F

Calibration Acceptance Criteria: > 0.995 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
INTEGRATION • INNOVATION • IMPROVEMENT • INSIGHT

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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID ICV	SampType: ICV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 194135						
Client ID: ICV	Batch ID: R194135	TestNo: EPA 300.0	Analysis Date: 9/23/2024	SeqNo: 6223826							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	4.096	0.50	4.000	0	102	90	110				

Sample ID CCV-1	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 194135						
Client ID: CCV	Batch ID: R194135	TestNo: EPA 300.0	Analysis Date: 10/10/2024	SeqNo: 6223828							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.815	0.50	4.000	0	95.4	90	110				

Sample ID CCV-2	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 194135						
Client ID: CCV	Batch ID: R194135	TestNo: EPA 300.0	Analysis Date: 10/10/2024	SeqNo: 6223832							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	4.057	0.50	4.000	0	101	90	110				

Sample ID CCV-3	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 194135						
Client ID: CCV	Batch ID: R194135	TestNo: EPA 300.0	Analysis Date: 10/10/2024	SeqNo: 6223834							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.851	0.50	4.000	0	96.3	90	110				

Sample ID CCV-4	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 194135						
Client ID: CCV	Batch ID: R194135	TestNo: EPA 300.0	Analysis Date: 10/10/2024	SeqNo: 6223844							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.864	0.50	4.000	0	96.6	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID CCV-5	SampType: CCV	TestCode: 300_W_SO4P Units: mg/L				Prep Date:			RunNo: 194135		
Client ID: CCV	Batch ID: R194135	TestNo: EPA 300.0				Analysis Date: 10/10/2024			SeqNo: 6223856		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.873	0.50	4.000	0	96.8	90	110				

Sample ID CCV-6	SampType: CCV	TestCode: 300_W_SO4P Units: mg/L				Prep Date:			RunNo: 194135		
Client ID: CCV	Batch ID: R194135	TestNo: EPA 300.0				Analysis Date: 10/10/2024			SeqNo: 6223860		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.888	0.50	4.000	0	97.2	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID ICV	SampType: ICV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194135						
Client ID: ICV	Batch ID: R194135	TestNo: EPA 300.0		Analysis Date: 9/23/2024	SeqNo: 6223791						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.229	0.050	1.250	0	98.3	90	110				

Sample ID CCV-1	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194135						
Client ID: CCV	Batch ID: R194135	TestNo: EPA 300.0		Analysis Date: 10/10/2024	SeqNo: 6223793						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.233	0.050	1.250	0	98.6	90	110				

Sample ID CCV-2	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194135						
Client ID: CCV	Batch ID: R194135	TestNo: EPA 300.0		Analysis Date: 10/10/2024	SeqNo: 6223805						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.239	0.050	1.250	0	99.1	90	110				

Sample ID CCV-3	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194135						
Client ID: CCV	Batch ID: R194135	TestNo: EPA 300.0		Analysis Date: 10/10/2024	SeqNo: 6223817						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.243	0.050	1.250	0	99.4	90	110				

Sample ID CCV-4	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194135						
Client ID: CCV	Batch ID: R194135	TestNo: EPA 300.0		Analysis Date: 10/10/2024	SeqNo: 6223820						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.224	0.050	1.250	0	97.9	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID CCV-5	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194135						
Client ID: CCV	Batch ID: R194135	TestNo: EPA 300.0	Analysis Date: 10/10/2024	SeqNo: 6223822							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.228	0.050	1.250	0	98.3	90	110				

Sample ID CCV-6	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194135						
Client ID: CCV	Batch ID: R194135	TestNo: EPA 300.0	Analysis Date: 10/10/2024	SeqNo: 6223824							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.243	0.050	1.250	0	99.5	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID ICB	SampType: ICB	TestCode: 300_W_SO4P Units: mg/L	Prep Date:	RunNo: 194135							
Client ID: ICB	Batch ID: R194135	TestNo: EPA 300.0	Analysis Date: 9/23/2024	SeqNo: 6223827							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	0.50									

Sample ID CCB-1	SampType: CCB	TestCode: 300_W_SO4P Units: mg/L	Prep Date:	RunNo: 194135							
Client ID: CCB	Batch ID: R194135	TestNo: EPA 300.0	Analysis Date: 10/10/2024	SeqNo: 6223829							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	0.426	0.50									

Sample ID CCB-2	SampType: CCB	TestCode: 300_W_SO4P Units: mg/L	Prep Date:	RunNo: 194135							
Client ID: CCB	Batch ID: R194135	TestNo: EPA 300.0	Analysis Date: 10/10/2024	SeqNo: 6223833							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	0.50									

Sample ID CCB-3	SampType: CCB	TestCode: 300_W_SO4P Units: mg/L	Prep Date:	RunNo: 194135							
Client ID: CCB	Batch ID: R194135	TestNo: EPA 300.0	Analysis Date: 10/10/2024	SeqNo: 6223835							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	0.50									

Sample ID CCB-4	SampType: CCB	TestCode: 300_W_SO4P Units: mg/L	Prep Date:	RunNo: 194135							
Client ID: CCB	Batch ID: R194135	TestNo: EPA 300.0	Analysis Date: 10/10/2024	SeqNo: 6223845							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	0.50									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

Detection of SO4 in CCB1 is >1/2 PQL. However, N069109 samples were closed by CCV5/CCB5 to CCV6/CCB6.

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID	CCB-5	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 194135
Client ID:	CCB	Batch ID: R194135	TestNo: EPA 300.0		Analysis Date: 10/10/2024	SeqNo: 6223857
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Sulfate	ND	0.50
---------	----	------

Sample ID	CCB-6	SampType: CCB	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 194135
Client ID:	CCB	Batch ID: R194135	TestNo: EPA 300.0		Analysis Date: 10/10/2024	SeqNo: 6223861
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Sulfate	ND	0.50
---------	----	------

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID	ICB	SampType:	ICB	TestCode:	300WLLNO3	Units:	mg/L	Prep Date:		RunNo:	194135			
Client ID:	ICB	Batch ID:	R194135	TestNo:	EPA 300.0			Analysis Date:	9/23/2024	SeqNo:	6223792			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID	CCB-1	SampType:	CCB	TestCode:	300WLLNO3	Units:	mg/L	Prep Date:		RunNo:	194135			
Client ID:	CCB	Batch ID:	R194135	TestNo:	EPA 300.0			Analysis Date:	10/10/2024	SeqNo:	6223794			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID	CCB-2	SampType:	CCB	TestCode:	300WLLNO3	Units:	mg/L	Prep Date:		RunNo:	194135			
Client ID:	CCB	Batch ID:	R194135	TestNo:	EPA 300.0			Analysis Date:	10/10/2024	SeqNo:	6223806			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID	CCB-3	SampType:	CCB	TestCode:	300WLLNO3	Units:	mg/L	Prep Date:		RunNo:	194135			
Client ID:	CCB	Batch ID:	R194135	TestNo:	EPA 300.0			Analysis Date:	10/10/2024	SeqNo:	6223818			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID	CCB-4	SampType:	CCB	TestCode:	300WLLNO3	Units:	mg/L	Prep Date:		RunNo:	194135			
Client ID:	CCB	Batch ID:	R194135	TestNo:	EPA 300.0			Analysis Date:	10/10/2024	SeqNo:	6223821			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID CCB-5	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194135						
Client ID: CCB	Batch ID: R194135	TestNo: EPA 300.0		Analysis Date: 10/10/2024	SeqNo: 6223823						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	ND	0.050									

Sample ID CCB-6	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194135						
Client ID: CCB	Batch ID: R194135	TestNo: EPA 300.0		Analysis Date: 10/10/2024	SeqNo: 6223825						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	ND	0.050									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

RETENTION TIME SUMMARY



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL TECHNOLOGIES

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RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC9

Analytical Sequence

Date Analyzed: 10/10/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Nitrate 6.881	
CCV-1	Nitrate 6.811	
CCV-2	Nitrate 6.811	
CCV-3	Nitrate 6.787	
CCV-4	Nitrate 6.791	
CCV-5	Nitrate 6.831	
CCV-6	Nitrate 6.837	

Average 6.811
Applied RT Window 6.611 - 7.011

MB-R194135_NO3	Nitrate	N.A.	N.A.
LCS-R194135_NO3	Nitrate	6.821	PASS
N069105-001BDUP	Nitrate	6.807	PASS
N069105-001BMS	Nitrate	6.801	PASS
N069105-009BMS	Nitrate	6.801	PASS
N069105-009BMSD	Nitrate	6.821	PASS
N069109-001B	Nitrate	N.A.	N.A.
N069109-002B	Nitrate	N.A.	N.A.

Reviewed by:

d/Rocha 11/7/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC9

Analytical Sequence

Date Analyzed: 10/10/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Sulfate 10.147	
CCV-1	Sulfate 9.874	
CCV-2	Sulfate 9.927	
CCV-3	Sulfate 9.927	
CCV-4	Sulfate 9.934	
CCV-5	Sulfate 9.904	
CCV-6	Sulfate 9.887	

Average 9.909
Applied RT Window 9.709 - 10.109

MB-R194135_SO4	Sulfate	10.014	PASS
LCS-R194135_SO4	Sulfate	9.947	PASS
N069105-009BMS	Sulfate	9.920	PASS
N069105-009BMSD	Sulfate	9.924	PASS
N069105-001BDUP	Sulfate	9.917	PASS
N069105-001BMS	Sulfate	9.931	PASS
N069109-001B	Sulfate	9.894	PASS
N069109-002B	Sulfate	9.880	PASS

Reviewed by:

d/Recha 11/7/2024

MDL STUDY



ASSET LABORATORIES
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METHOD DETECTION LIMIT (Spiked)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): 10/5/2022, 12/14/2022, 3/22/2023, 7/10/2023; 10/3/2023 & 11/14/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: mg/L

Instrument Name: **IC-08 & IC-09**

Datafile IC-08 221005A #24 IC-08 221214A #30 IC-08 230322A #35 IC-08 230710A #13 IC-09 231003A #14 IC-08 231114A #24 IC-09 231114A #19

Analyte	#1	#2	#3	#4	#5	#6	#7	Spike Conc., mg/L	SD	t _(n-1) value	MDLs	MDL	PQL
Fluoride	0.100	0.103	0.108	0.118	0.110	0.098	0.126	0.10	0.0101	3.143	0.0318	0.0318	0.10
Chloride	0.480	0.418	0.472	0.653	0.624	0.587	0.622	0.50	0.0922	3.143	0.2898	0.2898	0.50
Nitrite	0.068	0.061	0.060	0.071	0.063	0.061	0.070	0.05	0.0047	3.143	0.0149	0.0149	0.05
Bromide	0.526	0.502	0.509	0.522	0.536	0.527	0.520	0.50	0.0116	3.143	0.0364	0.0364	0.50
Nitrate	0.073	0.058	0.059	0.073	0.074	0.068	0.073	0.05	0.0068	3.143	0.0215	0.0240	0.05
Phosphate	0.112	0.096	0.114	0.120	0.130	0.093	0.124	0.10	0.0138	3.143	0.0433	0.0433	0.10
Sulfate	0.501	0.609	0.638	0.401	0.704	0.620	0.697	0.50	0.1092	3.143	0.3432	0.3432	0.50

METHOD DETECTION LIMIT (Blanks)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Analyte	MDLb	# of Records
Fluoride	0	63
Chloride	0.1456	80
Nitrite	0.0147	64
Bromide	0	18
Nitrate	0.0240	132
Phosphate	0.0237	34
Sulfate	0.2579	107

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

EPA 6010B Dissolved



ASSET LABORATORIES
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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 113178
ASSET #: N069109

Instrument ID: NV00922-ICP4
Analyst: DBJ

Method:

EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 10/10/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)			X			X
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ

Date: _____

2nd Level Reviewer _____

Date: 10/25/2024

SAMPLE CALCULATION



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3151 W. Post Rd., Las Vegas, NV 89118
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SAMPLE CALCULATION

METHOD: EPA 6010B
TEST NAME: Heavy Metals by ICP
MATRIX: Groundwater

FORMULA:

Calculate the Iron concentration, in ug/L, in the original sample as follows:

$$\text{Iron, ug/L} = A * DF * PF * CF$$

where:

A = mg/L, calculated concentration

DF = Dilution Factor

PF = Final Volume of Digestate, mL / Amount of Sample, mL

CF= Conversion Factor from mg/L to ug/L, 1000

For Sample **N069109-002C**, the concentration in ug/L is calculated as follows:

$$\text{Iron, ug/L} = 0.02328 * 1 * (25/25) * 1000$$

$$\text{Iron, ug/L} = 23.28$$

Reporting results in two significant figures,

$$\text{Iron, ug/L} = 23$$

Reviewed by:

MRecha 11/7/2024

% RSD SUMMARY



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RSD SUMMARY: 241010C

Instrument ID: NV00922-ICP4

PQL: 0.02 mg/L

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
Blank	BLK	1	Fe	0	-	15	PASS
Standard 1	ICAL	1	Fe	0.02	-	15	PASS
Standard 2	ICAL	1	Fe	0.05	-	15	PASS
Standard 3	ICAL	1	Fe	2	-	15	PASS
Standard 4	ICAL	1	Fe	5	-	15	PASS
Standard 5	ICAL	1	Fe	7.5	-	15	PASS
Standard 6	ICAL	1	Fe	10	-	15	PASS
Standard 7	ICAL	1	Fe	20	-	15	PASS
ICV	ICV	1	Fe	10.00476	0.13	15	PASS
ICB	ICB	1	Fe	-0.00043	9.03	15	PASS
LLCCV1	CCV1	1	Fe	0.01858	0.40	20	PASS
LLCCV2	CCV1	1	Fe	0.3871	0.08	20	PASS
ICSA1	ICSA	1	Fe	10.12666	0.32	15	PASS
ICSAB1	ICSAB	1	Fe	9.91079	0.05	15	PASS
LLCCV1	CCV1	1	Fe	0.01854	0.35	20	PASS
CCV1	CCV	1	Fe	9.94015	0.11	15	PASS
CCB1	CCB	1	Fe	0.00061	44.14	15	< PQL
CCV2	CCV	1	Fe	9.89901	0.08	15	PASS
CCB2	CCB	1	Fe	0.00045	34.64	15	< PQL
CCV3	CCV	1	Fe	9.87006	0.08	15	PASS
CCB3	CCB	1	Fe	0.00066	38.09	15	< PQL
CCV4	CCV	1	Fe	9.85193	0.06	15	PASS
CCB4	CCB	1	Fe	0.00076	37.04	15	< PQL
CCV5	CCV	1	Fe	9.8537	0.10	15	PASS
CCB5	CCB	1	Fe	0.0015	8.66	15	PASS
CCV6	CCV	1	Fe	9.86014	0.11	15	PASS
CCB6	CCB	1	Fe	0.00204	20.82	15	< PQL
ICSA2	ICSA	1	Fe	9.99268	0.30	15	PASS
ICSAB2	ICSAB	1	Fe	9.75775	0.05	15	PASS
CCV7	CCV	1	Fe	9.79148	0.05	15	PASS
CCB7	CCB	1	Fe	0.00063	9.54	15	PASS
CCV8	CCV	1	Fe	9.78405	0.08	15	PASS
CCB8	CCB	1	Fe	0.0007	19.43	15	< PQL
ICSA3	ICSA	1	Fe	10.03906	0.22	15	PASS
ICSAB3	ICSAB	1	Fe	9.73996	0.10	15	PASS
CCV9	CCV	1	Fe	9.76597	0.08	15	PASS
CCB9	CCB	1	Fe	0.00004	200.11	15	< PQL
MB-113178	MBLK	1	Fe	0.00242	8.23	15	PASS
LCS-113178	LCS	1	Fe	0.10476	0.45	15	PASS
N069101-003D	SAMP	1	Fe	2.5929	0.04	15	PASS
N069101-004D	SAMP	1	Fe	0.21792	0.04	15	PASS

RSD SUMMARY: 241010C

Instrument ID: NV00922-ICP4

PQL: 0.02 mg/L

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
N069101-005D	SAMP	1	Fe	0.2069	0.19	15	PASS
N069101-006D	SAMP	1	Fe	3.35214	0.04	15	PASS
N069105-001C	SAMP	1	Fe	0.00045	49.85	15	< PQL
N069105-002C	SAMP	1	Fe	6.94894	0.20	15	PASS
N069105-003C	SAMP	1	Fe	0.04245	1.05	15	PASS
N069105-004C	SAMP	1	Fe	0.14339	0.15	15	PASS
CCV10	CCV	1	Fe	9.7659	0.07	15	PASS
CCB10	CCB	1	Fe	0.00001	403.56	15	< PQL
N069105-005C	SAMP	1	Fe	-0.00529	2.86	15	PASS
N069105-006C	SAMP	1	Fe	0.00732	3.52	15	PASS
N069105-008C	SAMP	1	Fe	0.03526	0.51	15	PASS
N069105-009C	SAMP	1	Fe	0.20147	0.15	15	PASS
N069105-009C	SAMP	5	Fe	0.03849	0.34	15	PASS
N069105-009C-PS	PS	1	Fe	0.3077	0.08	15	PASS
N069105-009CMS	MS	1	Fe	0.31444	0.10	15	PASS
N069105-009CMSD	MSD	1	Fe	0.30529	0.13	15	PASS
N069105-010C	SAMP	1	Fe	-0.00364	1.89	15	PASS
N069105-011C	SAMP	1	Fe	-0.00125	8.15	15	PASS
CCV11	CCV	1	Fe	9.77498	0.12	15	PASS
CCB11	CCB	1	Fe	0.00015	132.60	15	< PQL
N069105-012C	SAMP	1	Fe	-0.00126	11.93	15	PASS
N069105-013C	SAMP	1	Fe	0.00001	3666.41	15	< PQL
N069105-014C	SAMP	1	Fe	0.61877	0.13	15	PASS
N069109-001C	SAMP	1	Fe	-0.00212	2.79	15	PASS
N069109-002C	SAMP	1	Fe	0.02328	0.78	15	PASS
CCV12	CCV	1	Fe	9.76602	0.11	15	PASS
CCB12	CCB	1	Fe	0.00023	63.48	15	< PQL
ICSA4	ICSA	1	Fe	10.01641	0.32	15	PASS
ICSAB4	ICSAB	1	Fe	9.72293	0.08	15	PASS
CCV13	CCV	1	Fe	9.84995	0.12	15	PASS
CCB13	CCB	1	Fe	0.00173	2.00	15	PASS
CCV14	CCV	1	Fe	9.85166	0.08	15	PASS
CCB14	CCB	1	Fe	0.00206	17.05	15	< PQL
CCV15	CCV	1	Fe	9.85263	0.06	15	PASS
CCV15	CCB	1	Fe	0.00237	2.51	15	PASS
ICSAB5	ICSA	1	Fe	10.02925	0.47	15	PASS
ICSAB5	ICSAB	1	Fe	9.79154	0.05	15	PASS

ANALYSIS RUN LOG



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INJECTION LOG: 241010C

Instrument ID: NV00922-ICP4

STANDARD CODE	
Standard1	MWST-240820N, 0.5<50mL
Standard2	MWST-240820O
Standard3	MWST-240820P, 5<50mL
Standard4	MWST-240820P, 12.5<50mL
Standard5	MWST-240820P, 15<40mL
Standard6	MWST-240820P, 25<50mL
Standard7	MWST-240820P
ICV	MWST-240820AG
CCV	MWST-240820P, 25<50mL
ICSA/ICSAB	MWST-240820Q / MWST-240820R
Int. Std	MSST-240801A/240801B
PS Spike	MWST-240820Y/Z/AA

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
1	Blank	BLK	1	10/10/2024	1:45:01 PM
2	Standard 1	ICAL	1	10/10/2024	1:47:18 PM
3	Standard 2	ICAL	1	10/10/2024	1:49:35 PM
4	Standard 3	ICAL	1	10/10/2024	1:51:52 PM
5	Standard 4	ICAL	1	10/10/2024	1:54:10 PM
6	Standard 5	ICAL	1	10/10/2024	1:56:27 PM
7	Standard 6	ICAL	1	10/10/2024	1:58:44 PM
8	Standard 7	ICAL	1	10/10/2024	2:01:01 PM
9	ICV	ICV	1	10/10/2024	2:08:07 PM
10	ICB	ICB	1	10/10/2024	2:10:24 PM
11	LLCCV1	CCV1	1	10/10/2024	2:12:42 PM
12	LLCCV2	CCV1	1	10/10/2024	2:14:59 PM
13	ICSA1	ICSA	1	10/10/2024	2:17:16 PM
14	ICSAB1	ICSAB	1	10/10/2024	2:19:34 PM
15	LLCCV1	CCV1	1	10/10/2024	2:23:47 PM
16	STD LCS1 CHECK	ICAL	1	10/10/2024	2:43:12 PM
17	STD LCS1 CHECK	ICAL	1	10/10/2024	2:54:26 PM
18	MB1-113123	MBLK	1	10/10/2024	3:13:32 PM
19	MB2-113123	MBLK	1	10/10/2024	3:15:50 PM
20	LCS-113123	LCS	1	10/10/2024	3:18:08 PM
21	N069059-001A	SAMP	1	10/10/2024	3:20:26 PM
22	N069059-001A	SAMP	5	10/10/2024	3:22:44 PM
23	N069059-001A-DUP	DUP	1	10/10/2024	3:25:02 PM
24	N069059-001A-PS	PS	1	10/10/2024	3:27:19 PM
25	N069059-001A-MS	MS	1	10/10/2024	3:29:38 PM
26	CCV1	CCV	1	10/10/2024	3:31:54 PM
27	CCB1	CCB	1	10/10/2024	3:34:11 PM
28	N069059-001A-MSD	MSD	1	10/10/2024	3:36:29 PM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
29	N069059-003A	SAMP	1	10/10/2024	3:38:47 PM
30	N069059-005A	SAMP	1	10/10/2024	3:41:04 PM
31	N069059-006A	SAMP	1	10/10/2024	3:43:22 PM
32	N069059-010A	SAMP	1	10/10/2024	3:45:40 PM
33	N069059-011A	SAMP	1	10/10/2024	3:47:58 PM
34	N069059-019A	SAMP	1	10/10/2024	3:50:16 PM
35	N069059-021A	SAMP	1	10/10/2024	3:52:33 PM
36	N069059-027A	SAMP	1	10/10/2024	3:54:52 PM
37	N069059-028A	SAMP	1	10/10/2024	3:57:10 PM
38	CCV2	CCV	1	10/10/2024	3:59:27 PM
39	CCB2	CCB	1	10/10/2024	4:01:43 PM
40	N069059-034A	SAMP	1	10/10/2024	4:04:01 PM
41	N069059-034A-DUP	DUP	1	10/10/2024	4:06:19 PM
42	N069059-034A-MS	MS	1	10/10/2024	4:08:37 PM
43	N069059-035A	SAMP	1	10/10/2024	4:10:55 PM
44	N069059-036A	SAMP	1	10/10/2024	4:13:13 PM
45	N069059-038A	SAMP	1	10/10/2024	4:15:30 PM
46	N069059-041A	SAMP	1	10/10/2024	4:17:48 PM
47	N069059-043A	SAMP	1	10/10/2024	4:20:07 PM
48	N069070-001A	SAMP	1	10/10/2024	4:22:25 PM
49	N069070-005A	SAMP	1	10/10/2024	4:24:43 PM
50	CCV3	CCV	1	10/10/2024	4:27:00 PM
51	CCB3	CCB	1	10/10/2024	4:29:17 PM
52	N069070-009A	SAMP	1	10/10/2024	4:31:35 PM
53	N069070-016A	SAMP	1	10/10/2024	4:33:52 PM
54	MB1-113124	MBLK	1	10/10/2024	4:36:11 PM
55	MB2-113124	MBLK	1	10/10/2024	4:38:28 PM
56	LCS-113124	LCS	1	10/10/2024	4:40:46 PM
57	N069070-020A	SAMP	1	10/10/2024	4:43:04 PM
58	N069070-020A	SAMP	5	10/10/2024	4:45:22 PM
59	N069070-020A-DUP	DUP	1	10/10/2024	4:47:40 PM
60	N069070-020A-PS	PS	1	10/10/2024	4:49:58 PM
61	N069070-020A-MS	MS	1	10/10/2024	4:52:17 PM
62	CCV4	CCV	1	10/10/2024	4:54:34 PM
63	CCB4	CCB	1	10/10/2024	4:56:51 PM
64	N069070-020A-MSD	MSD	1	10/10/2024	4:59:09 PM
65	N069070-024A	SAMP	1	10/10/2024	5:01:27 PM
66	N069070-028A	SAMP	1	10/10/2024	5:03:46 PM
67	N069070-032A	SAMP	1	10/10/2024	5:06:04 PM
68	N069070-036A	SAMP	1	10/10/2024	5:08:22 PM
69	N069070-037A	SAMP	1	10/10/2024	5:10:40 PM
70	N069070-041A	SAMP	1	10/10/2024	5:12:58 PM
71	N069070-045A	SAMP	1	10/10/2024	5:15:16 PM
72	N069070-049A	SAMP	1	10/10/2024	5:17:34 PM
73	N069070-053A	SAMP	1	10/10/2024	5:19:52 PM
74	CCV5	CCV	1	10/10/2024	5:22:09 PM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
75	CCB5	CCB	1	10/10/2024	5:24:26 PM
76	N069070-057A	SAMP	1	10/10/2024	5:26:44 PM
77	N069070-057A-DUP	DUP	1	10/10/2024	5:29:03 PM
78	N069070-057A-MS	MS	1	10/10/2024	5:31:21 PM
79	N069070-061A	SAMP	1	10/10/2024	5:33:39 PM
80	N069070-065A	SAMP	1	10/10/2024	5:35:58 PM
81	N069070-069A	SAMP	1	10/10/2024	5:38:16 PM
82	N069070-073A	SAMP	1	10/10/2024	5:40:34 PM
83	N069070-077A	SAMP	1	10/10/2024	5:42:52 PM
84	N069070-083A	SAMP	1	10/10/2024	5:45:10 PM
85	CCV6	CCV	1	10/10/2024	5:47:27 PM
86	CCB6	CCB	1	10/10/2024	5:49:44 PM
87	ICSA2	ICSA	1	10/10/2024	5:52:01 PM
88	ICSAB2	ICSAB	1	10/10/2024	5:54:18 PM
89	MB-113181	MBLK	1	10/10/2024	5:56:36 PM
90	MB-113148 TCLP	MBLK	1	10/10/2024	5:58:53 PM
91	LCS-113181	LCS	1	10/10/2024	6:01:11 PM
92	N069045-001A	SAMP	1	10/10/2024	6:03:29 PM
93	N069046-001A	SAMP	5	10/10/2024	6:05:47 PM
94	N069046-002A	SAMP	5	10/10/2024	6:08:04 PM
95	N069050-001A	SAMP	1	10/10/2024	6:10:22 PM
96	N069055-001A	SAMP	1	10/10/2024	6:12:40 PM
97	N069055-004A	SAMP	1	10/10/2024	6:14:57 PM
98	N069055-005A	SAMP	1	10/10/2024	6:17:15 PM
99	CCV7	CCV	1	10/10/2024	6:19:31 PM
100	CCB7	CCB	1	10/10/2024	6:21:49 PM
101	N069055-005A	SAMP	5	10/10/2024	6:24:06 PM
102	N069055-005A-PS	PS	1	10/10/2024	6:26:24 PM
103	N069055-005A-MS	MS	1	10/10/2024	6:28:42 PM
104	N069055-005A-MSD	MSD	1	10/10/2024	6:30:59 PM
105	N069057-001A	SAMP	1	10/10/2024	6:33:17 PM
106	N069060-001A	SAMP	1	10/10/2024	6:35:36 PM
107	CCV8	CCV	1	10/10/2024	6:37:53 PM
108	CCB8	CCB	1	10/10/2024	6:40:10 PM
109	ICSA3	ICSA	1	10/10/2024	6:42:27 PM
110	ICSAB3	ICSAB	1	10/10/2024	6:44:44 PM
111	MB-113189	MBLK	1	10/10/2024	6:47:43 PM
112	LCS1-113189	LCS	1	10/10/2024	6:50:01 PM
113	N068846-001C	SAMP	1	10/10/2024	6:52:19 PM
114	N068846-001C	SAMP	5	10/10/2024	6:54:37 PM
115	N068846-001C-PS	PS	1	10/10/2024	6:56:55 PM
116	N068846-001C-MS1	MS	1	10/10/2024	6:59:12 PM
117	N068846-001C-MSD1	MSD	1	10/10/2024	7:01:30 PM
118	N068945-003C	SAMP	1	10/10/2024	7:03:47 PM
119	CCV9	CCV	1	10/10/2024	7:06:04 PM
120	CCB9	CCB	1	10/10/2024	7:08:21 PM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
121	MB-113178	MBLK	1	10/10/2024	7:10:39 PM
122	LCS-113178	LCS	1	10/10/2024	7:12:58 PM
123	N069101-003D	SAMP	1	10/10/2024	7:15:16 PM
124	N069101-004D	SAMP	1	10/10/2024	7:17:34 PM
125	N069101-005D	SAMP	1	10/10/2024	7:19:52 PM
126	N069101-006D	SAMP	1	10/10/2024	7:22:09 PM
127	N069105-001C	SAMP	1	10/10/2024	7:24:28 PM
128	N069105-002C	SAMP	1	10/10/2024	7:26:46 PM
129	N069105-003C	SAMP	1	10/10/2024	7:29:03 PM
130	N069105-004C	SAMP	1	10/10/2024	7:31:21 PM
131	CCV10	CCV	1	10/10/2024	7:33:38 PM
132	CCB10	CCB	1	10/10/2024	7:35:55 PM
133	N069105-005C	SAMP	1	10/10/2024	7:38:13 PM
134	N069105-006C	SAMP	1	10/10/2024	7:40:31 PM
135	N069105-008C	SAMP	1	10/10/2024	7:42:49 PM
136	N069105-009C	SAMP	1	10/10/2024	7:45:07 PM
137	N069105-009C	SAMP	5	10/10/2024	7:47:25 PM
138	N069105-009C-PS	PS	1	10/10/2024	7:49:43 PM
139	N069105-009CMS	MS	1	10/10/2024	7:52:00 PM
140	N069105-009CMSD	MSD	1	10/10/2024	7:54:18 PM
141	N069105-010C	SAMP	1	10/10/2024	7:56:36 PM
142	N069105-011C	SAMP	1	10/10/2024	7:58:54 PM
143	CCV11	CCV	1	10/10/2024	8:01:12 PM
144	CCB11	CCB	1	10/10/2024	8:03:29 PM
145	N069105-012C	SAMP	1	10/10/2024	8:05:46 PM
146	N069105-013C	SAMP	1	10/10/2024	8:08:04 PM
147	N069105-014C	SAMP	1	10/10/2024	8:10:22 PM
148	N069109-001C	SAMP	1	10/10/2024	8:12:40 PM
149	N069109-002C	SAMP	1	10/10/2024	8:14:57 PM
150	CCV12	CCV	1	10/10/2024	8:17:14 PM
151	CCB12	CCB	1	10/10/2024	8:19:31 PM
152	ICSA4	ICSA	1	10/10/2024	8:21:48 PM
153	ICSAB4	ICSAB	1	10/10/2024	8:24:05 PM
154	MB-113171	MBLK	1	10/10/2024	8:26:22 PM
155	LCS-113171	LCS	1	10/10/2024	8:28:39 PM
156	N069098-001A	SAMP	1	10/10/2024	8:30:56 PM
157	N069098-002A	SAMP	1	10/10/2024	8:33:13 PM
158	N069099-001A	SAMP	1	10/10/2024	8:35:30 PM
159	N069099-002A	SAMP	1	10/10/2024	8:37:48 PM
160	N069099-003A	SAMP	1	10/10/2024	8:40:05 PM
161	N069099-004A	SAMP	1	10/10/2024	8:42:22 PM
162	N069099-005A	SAMP	1	10/10/2024	8:44:39 PM
163	N069100-001A	SAMP	1	10/10/2024	8:46:57 PM
164	CCV13	CCV	1	10/10/2024	8:49:14 PM
165	CCB13	CCB	1	10/10/2024	8:51:31 PM
166	N069100-002A	SAMP	1	10/10/2024	8:53:48 PM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
167	N069100-003A	SAMP	1	10/10/2024	8:56:06 PM
168	N069100-004A	SAMP	1	10/10/2024	8:58:23 PM
169	N069100-005A	SAMP	1	10/10/2024	9:00:40 PM
170	N069100-006A	SAMP	1	10/10/2024	9:02:57 PM
171	N069085-001A	SAMP	1	10/10/2024	9:05:14 PM
172	N069085-001A	SAMP	5	10/10/2024	9:07:31 PM
173	N069085-001A-PS	PS	1	10/10/2024	9:09:48 PM
174	N069085-001A-MS	MS	1	10/10/2024	9:12:05 PM
175	N069085-001A-MSD	MSD	1	10/10/2024	9:14:22 PM
176	CCV14	CCV	1	10/10/2024	9:16:39 PM
177	CCB14	CCB	1	10/10/2024	9:18:55 PM
178	N069085-002A	SAMP	1	10/10/2024	9:21:13 PM
179	N069085-003A	SAMP	1	10/10/2024	9:23:30 PM
180	N069085-004A	SAMP	1	10/10/2024	9:25:47 PM
181	N069085-004A-DUP	DUP	1	10/10/2024	9:28:04 PM
182	N069085-005A	SAMP	1	10/10/2024	9:30:21 PM
183	N069085-006A	SAMP	1	10/10/2024	9:32:38 PM
184	CCV15	CCV	1	10/10/2024	9:34:56 PM
185	CCV15	CCB	1	10/10/2024	9:37:13 PM
186	ICSAB5	ICSA	1	10/10/2024	9:39:30 PM
187	ICSAB5	ICSAB	1	10/10/2024	9:41:47 PM

SAMPLE PREPARATION LOG



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ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: **10/10/2024 9:08:52 AM**

Reviewed/ Date: **DEJ 10/10/2024**

Prep End Date: **10/10/2024 12:48:00 PM**

Initials/ Date: _____

Prep Batch **113178** Prep Code: **3010_W DISS**

Technician: **Jocelyn Rivera**

Prep Factor Units: Temp. (°C): Location:
mL / mL **95.1 DB-4-20**

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-113178	Aqueous		25	<input type="checkbox"/>	25	1.000		
	50ML LOT# E24003 10/8							
MB-113178	Aqueous		25	<input type="checkbox"/>	25	1.000		
	THERMOMETER ID: DIGESTION 7							
N069101-003D	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069101-004D	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069101-005D	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069101-006D	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069105-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069105-002C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069105-003C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069105-004C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069105-005C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069105-006C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069105-008C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17136	NITRIC ACID
17143	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
MWST-240820AA	ICP Solution C	LCS,MS,MSD	0.5
MWST-240820Y	ICP Solution A	LCS,MS,MSD	0.5
MWST-240820Z	ICP Solution B	LCS,MS,MSD	0.5

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: **10/10/2024 9:08:52 AM**

Reviewed/ Date: **DBJ 10/10/2024**

Prep End Date: **10/10/2024 12:48:00 PM**

Initials/ Date: _____

Prep Batch **113178** Prep Code:**3010_W_DISS**

Technician: **Jocelyn Rivera**

Prep Factor Units: Temp. (°C): Location:
mL / mL **95.1 DB-4-20**

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N069105-009C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069105-009CMS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069105-009CMSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069105-010C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069105-011C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069105-012C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069105-013C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069105-014C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069109-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069109-002C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17136	NITRIC ACID
17143	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
MWST-240820AA	ICP Solution C	LCS,MS,MSD	0.5
MWST-240820Y	ICP Solution A	LCS,MS,MSD	0.5
MWST-240820Z	ICP Solution B	LCS,MS,MSD	0.5

INITIAL CALIBRATION DATA SUMMARY



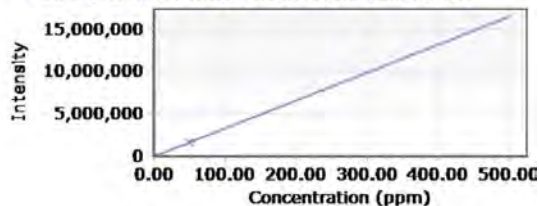
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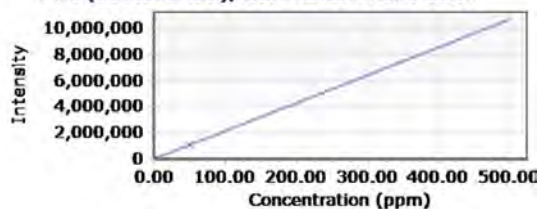
Cu I (324.754 nm), Interferent Calibration



Intensity = 33075.18415666 * Concentration + 684.20878678
 Correlation coefficient: 1.00000
 %RSE:N/A

Standards	Intensity	Method Conc	Calculated Conc	% Error
IEC Blank	684.20879	0.00000	0.00000	N/A
Interferent 09 (Cu)	1654443.4 1662	50.00000	50.00000	0.00000

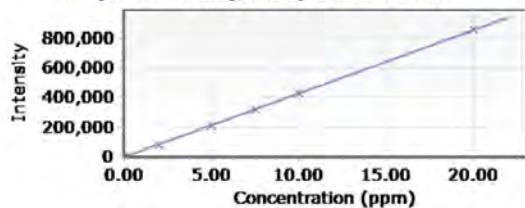
Fe I (239.563 nm), Interferent Calibration



Intensity = 21415.27545672 * Concentration + 29.10415739
 Correlation coefficient: 1.00000
 %RSE:N/A

Standards	Intensity	Method Conc	Calculated Conc	% Error
IEC Blank	29.10416	0.00000	0.00000	N/A
Interferent 10 (Fe)	1070792.8 7699	50.00000	50.00000	0.00000

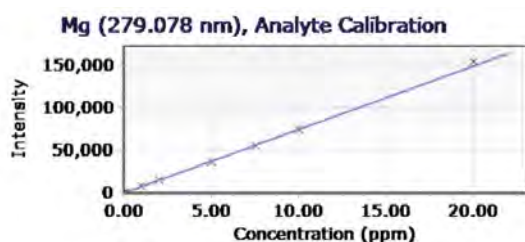
Fe (259.940 nm), Analyte Calibration



Intensity = 42872.84658811 * Concentration + 117.48487318
 Correlation coefficient: 0.99999
 %RSE:7.98637902

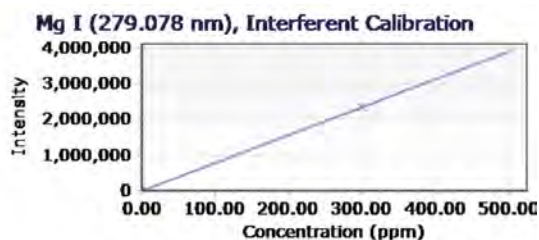
Standards	Intensity	Method Conc	Calculated Conc	% Error
Blank	42.96992	0.00000	-0.00174	N/A

Standards	Intensity	Method Conc	Calculated Conc	% Error
Standard 1	908.23916	0.02000	0.01844	7.77913
Standard 2	2605.09263	0.05000	0.05802	16.04584
Standard 3	85361.74046	2.00000	1.98830	0.58480
Standard 4	213234.76908	5.00000	4.97092	0.58170
Standard 5	321107.01597	7.50000	7.48701	0.17317
Standard 6	427732.49922	10.00000	9.97403	0.25971
Standard 7	860891.71046	20.00000	20.07738	0.38688



Intensity = 7471.68635120 * Concentration + 51.48324441
 Correlation coefficient: 0.99989
 %RSE:2.08939056

Standards	Intensity	Method Conc	Calculated Conc	% Error
Blank	51.42395	0.00000	-0.00001	N/A
Standard 1	803.93068	0.10000	0.10071	0.70651
Standard 2	7765.72231	1.00000	1.03246	3.24629
Standard 3	14988.15675	2.00000	1.99910	0.04483
Standard 4	37303.05614	5.00000	4.98570	0.28604
Standard 5	56180.27141	7.50000	7.51220	0.16264
Standard 6	75325.27711	10.00000	10.07454	0.74539
Standard 7	154240.00301	20.00000	20.63637	3.18187



Intensity = 7818.83260428 * Concentration + 25.13274543

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICV	SampType: ICV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194154						
Client ID: ICV	Batch ID: R194154	TestNo: EPA 6010B		Analysis Date: 10/10/2024	SeqNo: 6224839						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10004.760	20	10000	0	100	90	110				

Sample ID: LLCCV1	SampType: CCV1	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194154						
Client ID: ZZZZZZ	Batch ID: R194154	TestNo: EPA 6010B		Analysis Date: 10/10/2024	SeqNo: 6224841						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	18.580	20	20.00	0	92.9	80	120				

Sample ID: CCV1	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194154						
Client ID: CCV	Batch ID: R194154	TestNo: EPA 6010B		Analysis Date: 10/10/2024	SeqNo: 6224854						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	9940.150	20	10000	0	99.4	90	110				

Sample ID: CCV2	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194154						
Client ID: CCV	Batch ID: R194154	TestNo: EPA 6010B		Analysis Date: 10/10/2024	SeqNo: 6224866						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	9899.010	20	10000	0	99.0	90	110				

Sample ID: CCV3	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194154						
Client ID: CCV	Batch ID: R194154	TestNo: EPA 6010B		Analysis Date: 10/10/2024	SeqNo: 6224878						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	9870.060	20	10000	0	98.7	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: CCV4	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194154						
Client ID: CCV	Batch ID: R194154	TestNo: EPA 6010B		Analysis Date: 10/10/2024	SeqNo: 6224890						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9851.930	20	10000	0	98.5	90	110				
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Sample ID: CCV5	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194154						
Client ID: CCV	Batch ID: R194154	TestNo: EPA 6010B		Analysis Date: 10/10/2024	SeqNo: 6224902						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9853.700	20	10000	0	98.5	90	110				
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Sample ID: CCV6	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194154						
Client ID: CCV	Batch ID: R194154	TestNo: EPA 6010B		Analysis Date: 10/10/2024	SeqNo: 6224913						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9860.140	20	10000	0	98.6	90	110				
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Sample ID: CCV7	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194154						
Client ID: CCV	Batch ID: R194154	TestNo: EPA 6010B		Analysis Date: 10/10/2024	SeqNo: 6224927						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9791.480	20	10000	0	97.9	90	110				
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Sample ID: CCV8	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194154						
Client ID: CCV	Batch ID: R194154	TestNo: EPA 6010B		Analysis Date: 10/10/2024	SeqNo: 6224935						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9784.050	20	10000	0	97.8	90	110				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: CCV9	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194154						
Client ID: CCV	Batch ID: R194154	TestNo: EPA 6010B		Analysis Date: 10/10/2024	SeqNo: 6224947						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9765.970	20	10000	0	97.7	90	110
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Sample ID: CCV10	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194154						
Client ID: CCV	Batch ID: R194154	TestNo: EPA 6010B		Analysis Date: 10/10/2024	SeqNo: 6224959						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9765.900	20	10000	0	97.7	90	110
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Sample ID: CCV11	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194154						
Client ID: CCV	Batch ID: R194154	TestNo: EPA 6010B		Analysis Date: 10/10/2024	SeqNo: 6224971						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9774.980	20	10000	0	97.7	90	110
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Sample ID: CCV12	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194154						
Client ID: CCV	Batch ID: R194154	TestNo: EPA 6010B		Analysis Date: 10/10/2024	SeqNo: 6224978						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9766.020	20	10000	0	97.7	90	110
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICB	SampType: ICB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194154						
Client ID: ICB	Batch ID: R194154	TestNo: EPA 6010B		Analysis Date: 10/10/2024	SeqNo: 6224840						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -0.43 20

Sample ID: CCB1	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194154						
Client ID: CCB	Batch ID: R194154	TestNo: EPA 6010B		Analysis Date: 10/10/2024	SeqNo: 6224855						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 0.610 20

Sample ID: CCB2	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194154						
Client ID: CCB	Batch ID: R194154	TestNo: EPA 6010B		Analysis Date: 10/10/2024	SeqNo: 6224867						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 0.450 20

Sample ID: CCB3	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194154						
Client ID: CCB	Batch ID: R194154	TestNo: EPA 6010B		Analysis Date: 10/10/2024	SeqNo: 6224879						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 0.660 20

Sample ID: CCB4	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194154						
Client ID: CCB	Batch ID: R194154	TestNo: EPA 6010B		Analysis Date: 10/10/2024	SeqNo: 6224891						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 0.760 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: CCB5	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194154						
Client ID: CCB	Batch ID: R194154	TestNo: EPA 6010B		Analysis Date: 10/10/2024	SeqNo: 6224903						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	1.500	20
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Sample ID: CCB6	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194154						
Client ID: CCB	Batch ID: R194154	TestNo: EPA 6010B		Analysis Date: 10/10/2024	SeqNo: 6224914						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	2.040	20
------	-------	----

Sample ID: CCB7	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194154						
Client ID: CCB	Batch ID: R194154	TestNo: EPA 6010B		Analysis Date: 10/10/2024	SeqNo: 6224928						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	0.630	20
------	-------	----

Sample ID: CCB8	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194154						
Client ID: CCB	Batch ID: R194154	TestNo: EPA 6010B		Analysis Date: 10/10/2024	SeqNo: 6224936						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	0.700	20
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Sample ID: CCB9	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194154						
Client ID: CCB	Batch ID: R194154	TestNo: EPA 6010B		Analysis Date: 10/10/2024	SeqNo: 6224948						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	0.040	20
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: CCB10	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194154						
Client ID: CCB	Batch ID: R194154	TestNo: EPA 6010B		Analysis Date: 10/10/2024	SeqNo: 6224960						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 0.010 20

Sample ID: CCB11	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194154						
Client ID: CCB	Batch ID: R194154	TestNo: EPA 6010B		Analysis Date: 10/10/2024	SeqNo: 6224972						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 0.150 20

Sample ID: CCB12	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194154						
Client ID: CCB	Batch ID: R194154	TestNo: EPA 6010B		Analysis Date: 10/10/2024	SeqNo: 6224979						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 0.230 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICSA1	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194154						
Client ID: ICSA	Batch ID: R194154	TestNo: EPA 6010B		Analysis Date: 10/10/2024	SeqNo: 6224843						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10540.500	50	10000	0	105	80	120				
Calcium	10224.660	500	10000	0	102	80	120				
Iron	10126.660	20	10000	0	101	80	120				
Magnesium	10140.280	100	10000	0	101	80	120				

Sample ID: ICSA1	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194154						
Client ID: ICSA	Batch ID: R194154	TestNo: EPA 6010B		Analysis Date: 10/10/2024	SeqNo: 6224844						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10523.180	50	10000	0	105	80	120				
Calcium	10071.630	500	10000	0	101	80	120				
Iron	9910.790	20	10000	0	99.1	80	120				
Magnesium	10021.620	100	10000	0	100	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194154						
Client ID: ICSA	Batch ID: R194154	TestNo: EPA 6010B		Analysis Date: 10/10/2024	SeqNo: 6224915						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10540.170	50	10000	0	105	80	120				
Calcium	9933.760	500	10000	0	99.3	80	120				
Iron	9992.680	20	10000	0	99.9	80	120				
Magnesium	9845.940	100	10000	0	98.5	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194154						
Client ID: ICSA	Batch ID: R194154	TestNo: EPA 6010B		Analysis Date: 10/10/2024	SeqNo: 6224916						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10516.740	50	10000	0	105	80	120				
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Qualifiers:

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- DO Surrogate Diluted Out
- E Value above quantitation range
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- Calculations are based on raw values
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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICSAB2		SampType: ICSAB		TestCode: 6010_WDPG		Units: µg/L		Prep Date:		RunNo: 194154		
Client ID: ICSAB		Batch ID: R194154		TestNo: EPA 6010B				Analysis Date: 10/10/2024		SeqNo: 6224916		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Calcium	9740.820	500	10000	0	97.4	80	120					
Iron	9757.750	20	10000	0	97.6	80	120					
Magnesium	9746.510	100	10000	0	97.5	80	120					

Sample ID: ICSA3		SampType: ICSA		TestCode: 6010_WDPG		Units: µg/L		Prep Date:		RunNo: 194154		
Client ID: ICSA		Batch ID: R194154		TestNo: EPA 6010B				Analysis Date: 10/10/2024		SeqNo: 6224937		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	10555.560	50	10000	0	106	80	120					
Calcium	9981.910	500	10000	0	99.8	80	120					
Iron	10039.060	20	10000	0	100	80	120					
Magnesium	9894.400	100	10000	0	98.9	80	120					

Sample ID: ICSAB3		SampType: ICSAB		TestCode: 6010_WDPG		Units: µg/L		Prep Date:		RunNo: 194154		
Client ID: ICSAB		Batch ID: R194154		TestNo: EPA 6010B				Analysis Date: 10/10/2024		SeqNo: 6224938		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	10536.450	50	10000	0	105	80	120					
Calcium	9795.830	500	10000	0	98.0	80	120					
Iron	9739.960	20	10000	0	97.4	80	120					
Magnesium	9731.560	100	10000	0	97.3	80	120					

Sample ID: ICSA4		SampType: ICSA		TestCode: 6010_WDPG		Units: µg/L		Prep Date:		RunNo: 194154		
Client ID: ICSA		Batch ID: R194154		TestNo: EPA 6010B				Analysis Date: 10/10/2024		SeqNo: 6224980		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	10548.400	50	10000	0	105	80	120					
Calcium	10046.010	500	10000	0	100	80	120					
Iron	10016.410	20	10000	0	100	80	120					

Qualifiers:

- | | | |
|---|--|--|
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| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICSA4	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194154						
Client ID: ICSA	Batch ID: R194154	TestNo: EPA 6010B		Analysis Date: 10/10/2024	SeqNo: 6224980						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Magnesium	9948.860	100	10000	0	99.5	80	120				

Sample ID: ICSAB4	SampType: ICSAB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194154						
Client ID: ICSAB	Batch ID: R194154	TestNo: EPA 6010B		Analysis Date: 10/10/2024	SeqNo: 6224981						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	10531.780	50	10000	0	105	80	120				
Calcium	9833.100	500	10000	0	98.3	80	120				
Iron	9722.930	20	10000	0	97.2	80	120				
Magnesium	9775.530	100	10000	0	97.8	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
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INTERNAL STANDARD SUMMARY



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INTERNAL STANDARD: 241010C

Instrument ID: NV00922-ICP4

Sample Name	Type	DF	Yttrium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
Blank	BLK	1	1	100	65-125	PASS
Standard 1	ICAL	1	1.01	101	65-125	PASS
Standard 2	ICAL	1	0.99	99	65-125	PASS
Standard 3	ICAL	1	1.02	102	65-125	PASS
Standard 4	ICAL	1	1.01	101	65-125	PASS
Standard 5	ICAL	1	1.01	101	65-125	PASS
Standard 6	ICAL	1	1.01	101	65-125	PASS
Standard 7	ICAL	1	0.98	98	65-125	PASS
ICV	ICV	1	1	100	65-125	PASS
ICB	ICB	1	1.01	101	65-125	PASS
LLCCV1	CCV1	1	1.01	101	65-125	PASS
LLCCV2	CCV1	1	1.02	102	65-125	PASS
ICSA1	ICSA	1	1.05	105	65-125	PASS
ICSAB1	ICSAB	1	1.05	105	65-125	PASS
LLCCV1	CCV1	1	1.02	102	65-125	PASS
CCV1	CCV	1	1.04	104	65-125	PASS
CCB1	CCB	1	1.05	105	65-125	PASS
CCV2	CCV	1	1.05	105	65-125	PASS
CCB2	CCB	1	1.06	106	65-125	PASS
CCV3	CCV	1	1.05	105	65-125	PASS
CCB3	CCB	1	1.06	106	65-125	PASS
CCV4	CCV	1	1.05	105	65-125	PASS
CCB4	CCB	1	1.06	106	65-125	PASS
CCV5	CCV	1	1.05	105	65-125	PASS
CCB5	CCB	1	1.07	107	65-125	PASS
CCV6	CCV	1	1.05	105	65-125	PASS
CCB6	CCB	1	1.07	107	65-125	PASS
ICSA2	ICSA	1	1.1	110	65-125	PASS
ICSAB2	ICSAB	1	1.1	110	65-125	PASS
CCV7	CCV	1	1.05	105	65-125	PASS
CCB7	CCB	1	1.06	106	65-125	PASS
CCV8	CCV	1	1.05	105	65-125	PASS
CCB8	CCB	1	1.06	106	65-125	PASS
ICSA3	ICSA	1	1.09	109	65-125	PASS
ICSAB3	ICSAB	1	1.1	110	65-125	PASS
CCV9	CCV	1	1.03	103	65-125	PASS
CCB9	CCB	1	1.05	105	65-125	PASS
MB-113178	MBLK	1	0.99	99	65-125	PASS
LCS-113178	LCS	1	1	100	65-125	PASS
N069101-003D	SAMP	1	0.98	98	65-125	PASS
N069101-004D	SAMP	1	0.94	94	65-125	PASS

INTERNAL STANDARD: 241010C

Instrument ID: NV00922-ICP4

			Yttrium, 1.0 mg/L			
Sample Name	Type	DF	Reported Conc	%REC	Criteria	Comment
N069101-005D	SAMP	1	0.96	96	65-125	PASS
N069101-006D	SAMP	1	1	100	65-125	PASS
N069105-001C	SAMP	1	0.92	92	65-125	PASS
N069105-002C	SAMP	1	0.9	90	65-125	PASS
N069105-003C	SAMP	1	0.94	94	65-125	PASS
N069105-004C	SAMP	1	0.92	92	65-125	PASS
CCV10	CCV	1	1.03	103	65-125	PASS
CCB10	CCB	1	1.05	105	65-125	PASS
N069105-005C	SAMP	1	0.93	93	65-125	PASS
N069105-006C	SAMP	1	0.92	92	65-125	PASS
N069105-008C	SAMP	1	0.95	95	65-125	PASS
N069105-009C	SAMP	1	0.96	96	65-125	PASS
N069105-009C	SAMP	5	1.01	101	65-125	PASS
N069105-009C-PS	PS	1	0.91	91	65-125	PASS
N069105-009CMS	MS	1	0.94	94	65-125	PASS
N069105-009CMSD	MSD	1	0.91	91	65-125	PASS
N069105-010C	SAMP	1	0.9	90	65-125	PASS
N069105-011C	SAMP	1	0.93	93	65-125	PASS
CCV11	CCV	1	1.01	101	65-125	PASS
CCB11	CCB	1	1.03	103	65-125	PASS
N069105-012C	SAMP	1	0.92	92	65-125	PASS
N069105-013C	SAMP	1	0.95	95	65-125	PASS
N069105-014C	SAMP	1	0.96	96	65-125	PASS
N069109-001C	SAMP	1	0.98	98	65-125	PASS
N069109-002C	SAMP	1	0.92	92	65-125	PASS
CCV12	CCV	1	1.02	102	65-125	PASS
CCB12	CCB	1	1.04	104	65-125	PASS
ICSA4	ICSA	1	1.03	103	65-125	PASS
ICSAB4	ICSAB	1	1.04	104	65-125	PASS
CCV13	CCV	1	1.03	103	65-125	PASS
CCB13	CCB	1	1.04	104	65-125	PASS
CCV14	CCV	1	1.04	104	65-125	PASS
CCB14	CCB	1	1.05	105	65-125	PASS
CCV15	CCV	1	1.04	104	65-125	PASS
CCV15	CCB	1	1.05	105	65-125	PASS
ICSAB5	ICSA	1	1.04	104	65-125	PASS
ICSAB5	ICSAB	1	1.04	104	65-125	PASS

SERIAL DILUTION/ POST DIGESTION SPIKE



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ASSET Laboratories

ICP-Metals in Water

Work Order No.: N069109
Test Method: EPA 6010B
Analysis Date: 10/10/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 113178

Instrument ID: NV00922-ICP4
Instrument Description: Agilent 5800VDV

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Fe. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069105-009C DT 5x	Iron	Fe	µg/L	192.45	NA	201.47	4.48%	10

REVIEWED BY:



10/28/2024

Note: NA - Not Applicable

10/28/24 19:52

N069109_6010B_113178_DT

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPB

Sample ID: N069105-009C-PS	SampType: PS	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194154						
Client ID: ZZZZZZ	Batch ID: 113178	TestNo: EPA 6010B EPA 3010A	Analysis Date: 10/10/2024	SeqNo: 6224966							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	307.700	20	100.0	201.5	106	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

MDL STUDY



ASSET LABORATORIES
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Method Detection Limits

Analytical Method: EPA 6010B
Digestion Method: 3010_W
Digestion Date: 1/31/2024-2/16/24
Instrument Name: ICP2/ ICP3
Analyst/Technician: DJ

Matrix: WATER
Unit: mg/L

Analyte	1	2	3	4	5	6	7	SD	AMT SPIKED (ppm)	MDLs	PQL	MDL
Beryllium	0.0010	0.0010	0.0010	0.0012	0.0012	0.0009	0.0009	0.00013	0.0010	0.00042	0.0010	0.0004
Boron	0.1015	0.0996	0.0981	0.0955	0.0962	0.0921	0.0811	0.00679	0.1000	0.02134	0.1000	0.0519
Magnesium	0.1018	0.1005	0.1004	0.1023	0.1006	0.0924	0.0926	0.00426	0.1000	0.01340	0.1000	0.0134
Silicon	0.0175	0.0205	0.0214	0.0114	0.0100	0.0210	0.0211	0.00489	0.0200	0.01537	0.0200	0.0154
Chromium	0.0009	0.0009	0.0009	0.0011	0.0009	0.0009	0.0010	0.00007	0.0010	0.00023	0.0010	0.0002
Manganese	0.0096	0.0095	0.0093	0.0101	0.0102	0.0102	0.0104	0.00042	0.0100	0.00133	0.0100	0.0013
Iron	0.0219	0.0207	0.0210	0.0226	0.0224	0.0193	0.0175	0.00184	0.0200	0.00577	0.0200	0.0058
Cobalt	0.0020	0.0018	0.0019	0.0019	0.0018	0.0021	0.0020	0.00013	0.0025	0.00039	0.0025	0.0004
Nickel	0.0055	0.0055	0.0052	0.0028	0.0033	0.0048	0.0047	0.00109	0.0050	0.00342	0.0050	0.0034
Copper	0.0056	0.0058	0.0054	0.0063	0.0058	0.0050	0.0053	0.00041	0.0050	0.00128	0.0050	0.0014
Zinc	0.0110	0.0103	0.0100	0.0106	0.0108	0.0092	0.0088	0.00086	0.0100	0.00269	0.0100	0.0027
Arsenic	0.0100	0.0080	0.0060	0.0084	0.0112	0.0132	0.0065	0.00256	0.0100	0.00805	0.0100	0.0081
Selenium	0.0110	0.0126	0.0120	0.0079	0.0137	0.0079	0.0072	0.00264	0.0100	0.00829	0.0100	0.0083
Molybdenum	0.0056	0.0053	0.0057	0.0044	0.0045	0.0051	0.0044	0.00056	0.0050	0.00177	0.0050	0.0018
Silver	0.0025	0.0025	0.0024	0.0019	0.0018	0.0033	0.0031	0.00056	0.0025	0.00175	0.0025	0.0018
Cadmium	0.0027	0.0026	0.0026	0.0016	0.0018	0.0023	0.0025	0.00043	0.0025	0.00136	0.0025	0.0014
Tin	0.0104	0.0095	0.0097	0.0114	0.0111	0.0087	0.0089	0.00104	0.0100	0.00328	0.0100	0.0033
Antimony	0.0090	0.0093	0.0110	0.0136	0.0122	0.0112	0.0087	0.00180	0.0100	0.00565	0.0100	0.0056
Barium	0.0026	0.0026	0.0026	0.0028	0.0028	0.0024	0.0024	0.00016	0.0025	0.00051	0.0025	0.0005
Thallium	0.0172	0.0169	0.0170	0.0165	0.0144	0.0131	0.0130	0.00188	0.0150	0.00592	0.0150	0.0059
Lead	0.0058	0.0060	0.0061	0.0046	0.0083	0.0049	0.0048	0.00125	0.0050	0.00393	0.0050	0.0039
Calcium	0.2188	0.2125	0.2073	0.2186	0.2230	0.1767	0.1699	0.02155	0.2000	0.06772	0.2000	0.0677
Vanadium	0.0026	0.0025	0.0027	0.0030	0.0029	0.0024	0.0023	0.00026	0.0025	0.00081	0.0025	0.0008
Aluminum	0.0523	0.0513	0.0508	0.0490	0.0501	0.0509	0.0482	0.00140	0.0500	0.00439	0.0500	0.0044
Titanium	0.0119	0.0116	0.0108	0.0100	0.0103	0.0105	0.0107	0.00069	0.0100	0.00216	0.0100	0.0022

Method Detection Limits (Blanks)

Analyte	1	2	3	4	5	6	7	SD	Average	MDLb
Beryllium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00006	0.0000	0.00019
Boron	0.000	0.000	-0.001	-0.005	-0.006	-0.045	-0.047	0.02126	-0.0149	0.05194
Magnesium	-0.001	-0.001	-0.001	0.000	0.001	0.000	-0.001	0.00074	-0.0004	0.00192
Silicon	-0.001	-0.004	-0.004	-0.002	-0.001	-0.012	-0.011	0.00477	-0.0049	0.01013
Chromium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00004	-0.0001	0.00008
Manganese	-0.001	-0.001	-0.001	0.000	0.000	0.000	0.000	0.00044	-0.0005	0.00090
Iron	0.000	0.000	0.000	-0.001	-0.001	-0.003	-0.003	0.00140	-0.0010	0.00337
Cobalt	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00012	-0.0001	0.00029
Nickel	0.000	0.000	0.000	-0.002	-0.002	0.000	0.000	0.00089	-0.0006	0.00224
Copper	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.00033	0.0003	0.00138
Zinc	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.00033	0.0000	0.00102
Arsenic	-0.001	-0.003	0.000	0.000	0.000	0.000	0.000	0.00091	-0.0007	0.00221
Selenium	0.004	0.000	0.002	0.001	0.003	-0.001	0.002	0.00153	0.0017	0.00649
Molybdenum	0.000	0.000	0.000	-0.001	-0.001	0.000	0.000	0.00032	-0.0003	0.00074
Silver	-0.001	-0.001	-0.001	-0.001	-0.001	0.000	0.000	0.00049	-0.0007	0.00083
Cadmium	0.000	0.000	0.000	-0.001	0.000	0.000	0.000	0.00029	-0.0001	0.00081
Tin	-0.001	-0.001	-0.001	0.001	0.000	0.000	-0.001	0.00063	-0.0005	0.00150
Antimony	0.000	-0.001	0.000	0.000	-0.001	0.004	0.000	0.00161	0.0002	0.00524
Barium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00008	0.0000	0.00025
Thallium	0.001	0.000	0.002	0.001	0.000	-0.001	-0.001	0.00104	0.0002	0.00343
Lead	0.000	-0.001	-0.001	-0.001	0.000	0.001	-0.001	0.00068	-0.0004	0.00173
Calcium	0.001	0.001	0.001	-0.003	-0.005	-0.003	-0.017	0.00638	-0.0036	0.01650
Vanadium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00012	0.0000	0.00038
Aluminum	0.000	0.001	0.001	-0.001	-0.001	-0.001	-0.002	0.00105	-0.0003	0.00300
Titanium	0.001	0.000	0.001	-0.001	-0.001	-.00003	0.000	0.00064	0.0000	0.00199

Note: Higher value between MDLs and MDLb will be used.

Method Detection Limits

Analytical Method: EPA 6010B
Digestion Method: EPA 3010A
Digestion Date: 2/8-2/12/2024
Analysis Date: 2/16-2/23/2024
Instrument Name: ICP-04
Analyst/Technician: NS/DBJ

Matrix: WATER
Unit: mg/L

Analyte	1	2	3	4	5	6	7	SD	AMT SPIKED (ppm)	MDLs	PQL	MDL
Beryllium	0.00096	0.00098	0.00096	0.00094	0.00114	0.00100	0.00093	0.00007	0.0010	0.00022	0.0010	0.0004
Boron	0.09627	0.09657	0.09643	0.09117	0.09044	0.09475	0.09499	0.00255	0.1000	0.00800	0.1000	0.0080
Magnesium	0.10052	0.10036	0.09959	0.10705	0.10731	0.09987	0.10054	0.00344	0.1000	0.01079	0.1000	0.0153
Silicon	0.01997	0.01949	0.01947	0.02053	0.02103	0.02063	0.02079	0.00063	0.0200	0.00198	0.0200	0.0020
Chromium	0.00100	0.00096	0.00096	0.00116	0.00117	0.00109	0.00115	0.00009	0.0010	0.00030	0.0010	0.0005
Manganese	0.00965	0.00966	0.00962	0.00727	0.00736	0.00964	0.00963	0.00113	0.0100	0.00356	0.0100	0.0037
Iron	0.01670	0.01666	0.01669	0.01930	0.01911	0.01418	0.01399	0.00209	0.0200	0.00657	0.0200	0.0066
Cobalt	0.00276	0.00227	0.00246	0.00248	0.00246	0.00188	0.00221	0.00028	0.0025	0.00087	0.0025	0.0009
Nickel	0.00479	0.00493	0.00510	0.00476	0.00489	0.00457	0.00453	0.00020	0.0050	0.00063	0.0050	0.0006
Copper	0.00508	0.00506	0.00488	0.00503	0.00521	0.00474	0.00486	0.00016	0.0050	0.00050	0.0050	0.0005
Zinc	0.01247	0.01227	0.01233	0.01015	0.01017	0.00939	0.00952	0.00139	0.0100	0.00438	0.0100	0.0044
Arsenic	0.00990	0.00949	0.00882	0.01052	0.01052	0.01070	0.01000	0.00067	0.0100	0.00210	0.0100	0.0021
Selenium	0.00898	0.00986	0.01063	0.01176	0.01126	0.01021	0.01046	0.00091	0.0100	0.00286	0.0100	0.0032
Molybdenum	0.00546	0.00537	0.00512	0.00602	0.00529	0.00458	0.00502	0.00044	0.0050	0.00139	0.0050	0.0021
Silver	0.00245	0.00240	0.00249	0.00200	0.00194	0.00221	0.00211	0.00022	0.0025	0.00070	0.0025	0.0010
Cadmium	0.00248	0.00248	0.00244	0.00239	0.00240	0.00219	0.00224	0.00012	0.0025	0.00036	0.0025	0.0004
Tin	0.00982	0.01010	0.00968	0.01041	0.01050	0.00990	0.00999	0.00030	0.0100	0.00095	0.0100	0.0010
Antimony	0.01076	0.01056	0.00998	0.01034	0.01208	0.00938	0.00979	0.00087	0.0100	0.00274	0.0100	0.0027
Barium	0.00266	0.00257	0.00258	0.00258	0.00257	0.00249	0.00254	0.00005	0.0025	0.00016	0.0025	0.0008
Thallium	0.01580	0.01557	0.01597	0.01222	0.01292	0.01486	0.01560	0.00151	0.0150	0.00475	0.0150	0.0048
Lead	0.00431	0.00500	0.00446	0.00447	0.00503	0.00422	0.00371	0.00046	0.0050	0.00144	0.0050	0.0014
Calcium	0.20228	0.20108	0.20096	0.20023	0.20038	0.19290	0.19351	0.00386	0.2000	0.01211	0.2000	0.0121
Vanadium	0.00265	0.00253	0.00241	0.00232	0.00229	0.00240	0.00246	0.00012	0.0025	0.00039	0.0025	0.0006
Aluminum	0.05361	0.05332	0.05336	0.05134	0.05238	0.05032	0.04987	0.00153	0.0500	0.00482	0.0500	0.0075
Titanium	0.01017	0.01017	0.01014	0.01005	0.01003	0.01004	0.01004	0.00007	0.0100	0.00020	0.0100	0.0012
Sodium	0.10464	0.10886	0.11103	0.10060	0.10108	0.10829	0.10960	0.00421	0.1000	0.01321	0.1000	0.0132
Strontium	0.02468	0.02576	0.02592	0.02543	0.02579	0.02513	0.02569	0.00044	0.0250	0.00139	0.0250	0.0014

BLANK

Analyte	1	2	3	4	5	6	7	SD	Average	MDL	PQL
Beryllium	-0.00048	-0.00014	-0.00014	0.00001	0.00001	-0.00003	-0.00002	0.00017	-0.00011	0.00043	0.0010
Boron	-0.00209	-0.00259	-0.00248	-0.00694	-0.00772	-0.00175	-0.00221	0.00252	-0.00368	0.00423	0.1000
Magnesium	0.00244	0.00147	0.00205	0.00943	0.00934	0.00459	0.00401	0.00334	0.00476	0.01526	0.1000
Silicon	-0.00009	-0.00039	-0.00061	-0.00016	-0.00044	-0.00044	-0.00071	0.00022	-0.00041	0.00029	0.0200
Chromium	0.00017	0.00009	0.00006	0.00027	0.00032	0.00008	0.00012	0.00010	0.00016	0.00047	0.0010
Manganese	-0.00054	-0.00051	-0.00054	-0.00311	-0.00312	0.00037	0.00037	0.00149	-0.00101	0.00368	0.0100
Iron	-0.00361	-0.00368	-0.00350	-0.00126	-0.00121	0.00037	-0.00627	0.00219	-0.00274	0.00416	0.0200
Cobalt	-0.00033	0.00009	-0.00016	-0.00021	-0.00058	-0.00032	-0.00036	0.00021	-0.00027	0.00038	0.0025
Nickel	-0.00036	-0.00009	-0.00024	-0.00021	-0.00033	-0.00022	-0.00023	0.00009	-0.00024	0.00004	0.0050
Copper	0.00005	0.00002	0.00000	0.00019	0.00028	-0.00001	0.00000	0.00011	0.00008	0.00043	0.0050
Zinc	0.00056	-0.00003	-0.00006	-0.00024	-0.00022	-0.00079	-0.00081	0.00047	-0.00023	0.00126	0.0100
Arsenic	-0.00003	-0.00086	-0.00030	-0.00052	0.00012	0.00051	0.00034	0.00049	-0.00011	0.00142	0.0100
Selenium	-0.00105	-0.00101	0.00003	-0.00013	-0.00033	0.00092	0.00175	0.00101	0.00003	0.00321	0.0100
Molybdenum	0.00035	0.00064	-0.00012	0.00102	0.00080	-0.00015	-0.00059	0.00059	0.00028	0.00212	0.0050
Silver	-0.00021	-0.00023	-0.00022	-0.00146	-0.00143	-0.00071	-0.00064	0.00055	-0.00070	0.00102	0.0025
Cadmium	-0.00003	-0.00002	-0.00003	-0.00008	-0.00009	-0.00026	-0.00030	0.00012	-0.00012	0.00025	0.0025
Tin	-0.00048	-0.00035	0.00010	-0.00014	0.00016	-0.00005	-0.00008	0.00023	-0.00012	0.00060	0.0100
Antimony	0.00008	0.00020	0.00049	-0.00016	0.00141	0.00021	0.00121	0.00059	0.00049	0.00236	0.0100
Barium	0.00006	0.00062	0.00005	0.00003	-0.00010	-0.00003	-0.00006	0.00024	0.00008	0.00085	0.0025
Thallium	0.00113	0.00056	0.00015	0.00095	0.00031	0.00135	0.00088	0.00044	0.00076	0.00214	0.0150
Lead	-0.00006	-0.00093	-0.00022	-0.00025	-0.00031	-0.00180	-0.00134	0.00067	-0.00070	0.00139	0.0050
Calcium	-0.00505	0.00006	0.00001	-0.00038	-0.00024	-0.00119	-0.00204	0.00183	-0.00126	0.00450	0.2000
Vanadium	0.00027	0.00033	0.00044	0.00022	0.00016	0.00010	0.00011	0.00012	0.00023	0.00062	0.0025
Aluminum	0.00375	0.00381	0.00445	0.00041	0.00100	0.00108	0.00110	0.00169	0.00223	0.00754	0.0500
Titanium	0.00001	0.00001	-0.00001	-0.00006	-0.00010	0.00000	0.00088	0.00034	0.00010	0.00119	0.0100
Sodium	0.00136	0.00379	0.00132	-0.00038	-0.00214	-0.00015	0.00331	0.00210	0.00102	0.00761	0.1000
Strontium	-0.00115	-0.00166	-0.00116	-0.00120	-0.00012	-0.00045	-0.00044	0.00055	-0.00088	0.00085	0.0200

Note: ICP-04 is an additional instrument, MDL is within 0.5 to 2.0 of existing MDL. Retain existing MDL.

EPA 6020 Dissolved



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
 REV 2.1
 072018

FIRST LEVEL REVIEW:

QC Batch Number: 113188
 ASSET #: N069109

Instrument ID: NV00922-ICP8
 Analyst: DBJ

Method:
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 10/14/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer NS 10/15/2024

Date: _____
 Date: _____

SAMPLE CALCULATION



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SAMPLE CALCULATION

METHOD: EPA 6020
TEST NAME: Heavy Metals by ICP-MS
MATRIX: Groundwater

FORMULA:

Calculate the Barium concentration, in ug/L in the original sample as follows:

$$\text{Barium, ug/L} = A * DF * PF$$

where:

A = ug/L, calculated concentration

DF = Dilution Factor

PF = Final Volume of Digestate, mL / Amount of Sample, mL

For Sample **N069109-001C**, the concentration in ug/L is calculated as follows:


$$\text{Barium, ug/L} = 38.8817 * 1 * (25 / 25)$$

$$\text{Barium, ug/L} = 38.88167$$

Reporting results in two significant figures,

$$\text{Barium, ug/L} = 39$$

Reviewed by:

 11/14/2024

% RSD SUMMARY



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PERCENT RSD SUMMARY: 241014A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	137 Ba [3]				55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.11	23.638	15	<PQL	0.14	4.766	15	PASS
Std2-0.5/5 ppb	ICAL	1	0.51	10.56	15	PASS	0.49	3.963	15	PASS
Std3-5/50 ppb	ICAL	1	4.75	1.939	15	PASS	4.72	3.733	15	PASS
Std4-10/100 ppb	ICAL	1	9.59	1.505	15	PASS	9.56	1.511	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.72	1.858	15	PASS	19.22	1.357	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.83	1.513	15	PASS	39.57	0.763	15	PASS
Std7-100/1000 ppb	ICAL	1	99.03	1.009	15	PASS	98.85	3.123	15	PASS
Std8-200/2000 ppb	ICAL	1	200.57	0.802	15	PASS	200.77	0.711	15	PASS
ICV	ICV	1	10.07	0.612	15	PASS	100.11	1.862	15	PASS
ICB	ICB	1	0	110.521	15	<PQL	0.01	38.089	15	<PQL
LLCCV1	CCV	1	0.09	25.457	20	<PQL	0.11	21.789	20	<PQL
LLCCV2	CCV	1	1.06	6.768	20	PASS	0.54	6.171	20	PASS
MLCCV1	CCV	1	19.4	0.146	15	PASS	19.3	2.682	15	PASS
ICSA1	ICSA	1	0.01	84.604	15	<PQL	0.01	99.601	15	<PQL
ICSAB1	ICSAB	1	20.35	0.366	15	PASS	19.93	0.799	15	PASS
CCV1	CCV	1	19.7	0.341	15	PASS	19.32	2.397	15	PASS
CCB1	CCB	1	0	431.944	15	<PQL	0	116.836	15	<PQL
ICSA2	ICSA	1	0.01	120.633	15	<PQL	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	20.67	0.034	15	PASS	20.22	1.826	15	PASS
CCV2	CCV	1	20.11	1.391	15	PASS	19.4	1.855	15	PASS
CCB2	CCB	1	0.01	85.784	15	<PQL	0	240.47	15	<PQL
CCV3	CCV	1	20.34	1.098	15	PASS	19.82	1.248	15	PASS
CCB3	CCB	1	0	103.691	15	<PQL	0	61.11	15	<PQL
CCV4	CCV	1	20.18	0.61	15	PASS	19.45	0.171	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL	0.01	118.215	15	<PQL
ICSA3	ICSA	1	0.01	100.691	15	<PQL	0.01	168.689	15	<PQL
ICSAB3	ICSAB	1	21.14	0.815	15	PASS	19.71	1.04	15	PASS
CCV5	CCV	1	20.11	1.18	15	PASS	19.67	1.507	15	PASS
CCB5	CCB	1	0	102.474	15	<PQL	0.02	44.251	15	<PQL
CCV6	CCV	1	19.95	0.645	15	PASS	19.76	0.626	15	PASS
CCB6	CCB	1	<0.000	N/A	15	<PQL	0.01	124.915	15	<PQL
MB-113188	MBLK	1	0.01	22.659	15	<PQL	0.02	23.445	15	<PQL
LCS-113188	LCS	1	10.92	1.153	15	PASS	101.46	1.371	15	PASS
N069108-001B	SAMP	1	136.59	0.724	15	PASS	1.76	1.502	15	PASS
N069105-002C	SAMP	1	66.1	1.077	15	PASS	537.7	0.732	15	PASS
N069105-003C	SAMP	1	31.85	0.416	15	PASS	51.34	1.271	15	PASS
N069105-004C	SAMP	1	54.62	1.016	15	PASS	142.35	0.209	15	PASS
N069105-005C	SAMP	1	130.06	1.095	15	PASS	2.9	3.883	15	PASS
N069105-006C	SAMP	1	80.43	0.9	15	PASS	48.62	1.955	15	PASS
N069105-008C	SAMP	1	37.55	1.915	15	PASS	74.19	2.465	15	PASS

PERCENT RSD SUMMARY: 241014A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	137 Ba [3]				55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
CCV7	CCV	1	19.99	1.826	15	PASS	19.89	0.397	15	PASS
CCB7	CCB	1	0.01	60.319	15	<PQL	<0.000	N/A	15	<PQL
N069105-009C	SAMP	1	54.47	1.61	15	PASS	275.33	1.469	15	PASS
N069105-009C	SAMP	5	11.17	1.113	15	PASS	57.01	1.756	15	PASS
N069105-009C-PS	PS	1	63.11	0.735	15	PASS	356.15	1.931	15	PASS
N069105-009CMS	MS	1	62.3	2.013	15	PASS	357.04	1.486	15	PASS
N069105-009CMSD	MSD	1	62.1	0.632	15	PASS	354.68	1.794	15	PASS
N069105-010C	SAMP	1	33.57	0.676	15	PASS	4.86	5.142	15	PASS
N069105-011C	SAMP	1	41.98	2.877	15	PASS	273.71	1.609	15	PASS
N069105-012C	SAMP	1	27.94	0.402	15	PASS	25.98	2.633	15	PASS
N069105-013C	SAMP	1	26.49	1.323	15	PASS	9.07	5.093	15	PASS
CCV8	CCV	1	20.29	0.597	15	PASS	20.26	0.907	15	PASS
CCB8	CCB	1	0.01	0.763	15	PASS	<0.000	N/A	15	<PQL
N069105-014C	SAMP	1	87	0.491	15	PASS	167.28	1.718	15	PASS
N069109-001C	SAMP	1	38.88	2.187	15	PASS	5.14	7.564	15	PASS
N069109-002C	SAMP	1	33.43	1.407	15	PASS	11.68	3.006	15	PASS
N069105-009C	SAMP	10	5.75	2.137	15	PASS	29.18	2.173	15	PASS
N069105-009C	SAMP	50	1.2	6.504	15	PASS	5.94	2.261	15	PASS
N069105-009C-PS	PS	10	15.76	2.684	15	PASS	130.7	1.322	15	PASS
N069105-009CMS	MS	10	6.46	2.634	15	PASS	37.48	2.5	15	PASS
N069105-009CMSD	MSD	10	7	1.433	15	PASS	40.52	0.773	15	PASS
CCV9	CCV	1	19.56	0.517	15	PASS	19.83	2.517	15	PASS
CCB9	CCB	1	0.01	25.327	15	<PQL	<0.000	N/A	15	<PQL
ICSA4	ICSA	1	0.01	105.51	15	<PQL	0	407.502	15	<PQL
ICSAB4	ICSAB	1	21.02	1.22	15	PASS	20.13	1.315	15	PASS

PERCENT RSD SUMMARY: 241014A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.12	58.625	15	FAIL
Std2-0.5/5 ppb	ICAL	1	0.52	24.42	15	FAIL
Std3-5/50 ppb	ICAL	1	4.74	4.234	15	PASS
Std4-10/100 ppb	ICAL	1	9.29	2.03	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.29	3.646	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	41.29	3.594	15	PASS
Std7-100/1000 ppb	ICAL	1	101.35	0.846	15	PASS
Std8-200/2000 ppb	ICAL	1	199.18	1.965	15	PASS
ICV	ICV	1	10.38	4.608	15	PASS
ICB	ICB	1	0.02	13.908	15	PASS
LLCCV1	CCV	1	0.09	59.805	20	<PQL
LLCCV2	CCV	1	0.15	33.467	20	NR!
MLCCV1	CCV	1	19.14	5.165	15	PASS
ICSA1	ICSA	1	0.03	30.978	15	<PQL
ICSAB1	ICSAB	1	19.97	3.532	15	PASS
CCV1	CCV	1	19.32	2.428	15	PASS
CCB1	CCB	1	0.01	565.768	15	<PQL
ICSA2	ICSA	1	0.02	223.037	15	<PQL
ICSAB2	ICSAB	1	19.54	1.679	15	PASS
CCV2	CCV	1	19.27	1.881	15	PASS
CCB2	CCB	1	0.03	85.148	15	<PQL
CCV3	CCV	1	19.37	6.4	15	PASS
CCB3	CCB	1	0.06	14.006	15	PASS
CCV4	CCV	1	18.75	1.544	15	PASS
CCB4	CCB	1	0.03	63.196	15	<PQL
ICSA3	ICSA	1	0.02	70.339	15	<PQL
ICSAB3	ICSAB	1	19.98	6.903	15	PASS
CCV5	CCV	1	19.6	9.497	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL
CCV6	CCV	1	19.4	2.621	15	PASS
CCB6	CCB	1	0.01	160.982	15	<PQL
MB-113188	MBLK	1	<0.000	N/A	15	<PQL
LCS-113188	LCS	1	10.36	3.737	15	PASS
N069108-001B	SAMP	1	2.78	2.836	15	PASS
N069105-002C	SAMP	1	35.7	0.912	15	PASS
N069105-003C	SAMP	1	1.98	15.219	15	NR!
N069105-004C	SAMP	1	3.4	5.376	15	PASS
N069105-005C	SAMP	1	2.2	15.666	15	NR!
N069105-006C	SAMP	1	1.21	14.481	15	PASS
N069105-008C	SAMP	1	3.04	5.109	15	PASS

PERCENT RSD SUMMARY: 241014A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
CCV7	CCV	1	19.66	3.486	15	PASS
CCB7	CCB	1	<0.000	N/A	15	<PQL
N069105-009C	SAMP	1	2.56	9.161	15	PASS
N069105-009C	SAMP	5	0.48	4.971	15	PASS
N069105-009C-PS	PS	1	13.8	3.383	15	PASS
N069105-009CMS	MS	1	13.84	2.691	15	PASS
N069105-009CMSD	MSD	1	13.58	5.198	15	PASS
N069105-010C	SAMP	1	5.26	7.843	15	PASS
N069105-011C	SAMP	1	6.15	4.493	15	PASS
N069105-012C	SAMP	1	2.87	9.699	15	PASS
N069105-013C	SAMP	1	1.72	15.337	15	NR!
CCV8	CCV	1	19.98	5.489	15	PASS
CCB8	CCB	1	<0.000	N/A	15	<PQL
N069105-014C	SAMP	1	16.4	1.822	15	PASS
N069109-001C	SAMP	1	0.98	12.825	15	PASS
N069109-002C	SAMP	1	1.28	11.844	15	PASS
N069105-009C	SAMP	10	0.19	64.124	15	NR!
N069105-009C	SAMP	50	0.02	124.715	15	<PQL
N069105-009C-PS	PS	10	10.93	2.816	15	PASS
N069105-009CMS	MS	10	1.26	10.845	15	PASS
N069105-009CMSD	MSD	10	1.49	10.102	15	PASS
CCV9	CCV	1	18.07	4.178	15	PASS
CCB9	CCB	1	0.02	127.065	15	<PQL
ICSA4	ICSA	1	0.02	185.254	15	<PQL
ICSAB4	ICSAB	1	19.76	0.903	15	PASS

ANALYSIS RUN LOG



ASSET LABORATORIES
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INJECTION LOG: 241014A

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1014001.d	RINSE	ICAL	1	10/14/24 1:30 PM
A1014002.d	RINSE	ICAL	1	10/14/24 1:34 PM
A1014003.d	Cal Blk	IBLK	1	10/14/24 1:39 PM
A1014004.d	Std1-0.1/1 ppb	ICAL	1	10/14/24 1:44 PM
A1014005.d	Std2-0.5/5 ppb	ICAL	1	10/14/24 1:48 PM
A1014006.d	Std3-5/50 ppb	ICAL	1	10/14/24 1:53 PM
A1014007.d	Std4-10/100 ppb	ICAL	1	10/14/24 1:58 PM
A1014008.d	Std5-4.0/20/200 ppb	ICAL	1	10/14/24 2:03 PM
A1014009.d	Std6-8.0/40/400 ppb	ICAL	1	10/14/24 2:07 PM
A1014010.d	Std7-100/1000 ppb	ICAL	1	10/14/24 2:12 PM
A1014011.d	Std8-200/2000 ppb	ICAL	1	10/14/24 2:17 PM
A1014012.d	ICV	ICV	1	10/14/24 2:24 PM
A1014013.d	ICB	ICB	1	10/14/24 2:28 PM
A1014014.d	LLCCV1	CCV	1	10/14/24 2:33 PM
A1014015.d	LLCCV2	CCV	1	10/14/24 2:38 PM
A1014016.d	MLCCV1	CCV	1	10/14/24 2:42 PM
A1014017.d	ICSA1	ICSA	1	10/14/24 2:47 PM
A1014018.d	ICSAB1	ICSAB	1	10/14/24 2:52 PM
A1014019.d	N069103-008D	SAMP	1	10/14/24 2:56 PM
A1014020.d	N069103-009D	SAMP	1	10/14/24 3:01 PM
A1014021.d	N069103-017D	SAMP	1	10/14/24 3:06 PM
A1014022.d	N069103-009D	SAMP	5	10/14/24 3:13 PM
A1014023.d	CCV1	CCV	1	10/14/24 3:17 PM
A1014024.d	CCB1	CCB	1	10/14/24 3:22 PM
A1014025.d	ICSA2	ICSA	1	10/14/24 3:27 PM
A1014026.d	ICSAB2	ICSAB	1	10/14/24 3:31 PM
A1014027.d	N069068-001D	SAMP	10	10/14/24 3:36 PM
A1014028.d	N069068-002C	SAMP	10	10/14/24 3:41 PM
A1014029.d	N069068-003C	SAMP	100	10/14/24 3:45 PM
A1014030.d	N069068-004B	SAMP	10	10/14/24 3:50 PM
A1014031.d	N069068-017D	SAMP	10	10/14/24 3:55 PM
A1014032.d	N069068-018C	SAMP	10	10/14/24 3:59 PM
A1014033.d	N069068-018C	SAMP	50	10/14/24 4:04 PM
A1014034.d	N069068-018C-PS	PS	10	10/14/24 4:09 PM
A1014035.d	N069068-018CMS	MS	10	10/14/24 4:13 PM
A1014036.d	N069068-018CMSD	MSD	10	10/14/24 4:18 PM
A1014037.d	CCV2	CCV	1	10/14/24 4:23 PM
A1014038.d	CCB2	CCB	1	10/14/24 4:27 PM
A1014039.d	N069062-001B	SAMP	10	10/14/24 4:32 PM
A1014040.d	N069062-002B	SAMP	10	10/14/24 4:37 PM
A1014041.d	N069062-003B	SAMP	10	10/14/24 4:41 PM
A1014042.d	N069064-003C	SAMP	10	10/14/24 4:46 PM

INJECTION LOG: 241014A

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1014043.d	N069064-004C	SAMP	10	10/14/24 4:51 PM
A1014044.d	N069065-004C	SAMP	1	10/14/24 4:55 PM
A1014045.d	N069065-004C	SAMP	10	10/14/24 5:00 PM
A1014046.d	N069065-011C	SAMP	1	10/14/24 5:05 PM
A1014047.d	N069065-011C	SAMP	10	10/14/24 5:09 PM
A1014048.d	N069065-012C	SAMP	10	10/14/24 5:14 PM
A1014049.d	CCV3	CCV	1	10/14/24 5:18 PM
A1014050.d	CCB3	CCB	1	10/14/24 5:23 PM
A1014051.d	N069065-004C	SAMP	1	10/14/24 5:28 PM
A1014052.d	N069065-011C	SAMP	1	10/14/24 5:33 PM
A1014053.d	N069065-013C	SAMP	10	10/14/24 5:37 PM
A1014054.d	RINSE	ICAL	1	10/14/24 5:42 PM
A1014055.d	CCV4	CCV	1	10/14/24 5:47 PM
A1014056.d	CCB4	CCB	1	10/14/24 5:51 PM
A1014057.d	ICSA3	ICSA	1	10/14/24 5:56 PM
A1014058.d	ICSAB3	ICSAB	1	10/14/24 6:01 PM
A1014059.d	MB-113183	MBLK	1	10/14/24 6:05 PM
A1014060.d	LCS-113183	LCS	1	10/14/24 6:10 PM
A1014061.d	N069081-005A	SAMP	1	10/14/24 6:15 PM
A1014062.d	N069081-005A	SAMP	5	10/14/24 6:19 PM
A1014063.d	N069081-005A-PS	PS	1	10/14/24 6:24 PM
A1014064.d	N069081-005A-MS	MS	1	10/14/24 6:29 PM
A1014065.d	N069081-005A-MSD	MSD	1	10/14/24 6:33 PM
A1014066.d	N069081-010A	SAMP	1	10/14/24 6:38 PM
A1014067.d	N069081-015A	SAMP	1	10/14/24 6:42 PM
A1014068.d	RINSE	ICAL	1	10/14/24 6:47 PM
A1014069.d	CCV5	CCV	1	10/14/24 6:52 PM
A1014070.d	CCB5	CCB	1	10/14/24 6:57 PM
A1014071.d	N069081-020A	SAMP	1	10/14/24 7:01 PM
A1014072.d	N069081-025A	SAMP	1	10/14/24 7:06 PM
A1014073.d	N069081-030A	SAMP	1	10/14/24 7:10 PM
A1014074.d	N069081-035A	SAMP	1	10/14/24 7:15 PM
A1014075.d	RINSE	ICAL	1	10/14/24 7:20 PM
A1014076.d	CCV6	CCV	1	10/14/24 7:24 PM
A1014077.d	CCB6	CCB	1	10/14/24 7:29 PM
A1014078.d	MB-113188	MBLK	1	10/14/24 7:34 PM
A1014079.d	LCS-113188	LCS	1	10/14/24 7:38 PM
A1014080.d	N069108-001B	SAMP	1	10/14/24 7:43 PM
A1014081.d	N069105-002C	SAMP	1	10/14/24 7:48 PM
A1014082.d	N069105-003C	SAMP	1	10/14/24 7:52 PM
A1014083.d	N069105-004C	SAMP	1	10/14/24 7:57 PM
A1014084.d	N069105-005C	SAMP	1	10/14/24 8:02 PM

INJECTION LOG: 241014A**Instrument ID: NV00922-ICP8**

Data File	Sample Name	Type	DF	Acq. Date-Time
A1014085.d	N069105-006C	SAMP	1	10/14/24 8:06 PM
A1014086.d	N069105-008C	SAMP	1	10/14/24 8:11 PM
A1014087.d	RINSE	ICAL	1	10/14/24 8:15 PM
A1014088.d	CCV7	CCV	1	10/14/24 8:20 PM
A1014089.d	CCB7	CCB	1	10/14/24 8:25 PM
A1014090.d	N069105-009C	SAMP	1	10/14/24 8:29 PM
A1014091.d	N069105-009C	SAMP	5	10/14/24 8:34 PM
A1014092.d	N069105-009C-PS	PS	1	10/14/24 8:39 PM
A1014093.d	N069105-009CMS	MS	1	10/14/24 8:43 PM
A1014094.d	N069105-009CMSD	MSD	1	10/14/24 8:48 PM
A1014095.d	N069105-010C	SAMP	1	10/14/24 8:53 PM
A1014096.d	N069105-011C	SAMP	1	10/14/24 8:57 PM
A1014097.d	N069105-012C	SAMP	1	10/14/24 9:02 PM
A1014098.d	N069105-013C	SAMP	1	10/14/24 9:07 PM
A1014099.d	RINSE	ICAL	1	10/14/24 9:11 PM
A1014100.d	CCV8	CCV	1	10/14/24 9:16 PM
A1014101.d	CCB8	CCB	1	10/14/24 9:20 PM
A1014102.d	N069105-014C	SAMP	1	10/14/24 9:25 PM
A1014103.d	N069109-001C	SAMP	1	10/14/24 9:30 PM
A1014104.d	N069109-002C	SAMP	1	10/14/24 9:34 PM
A1014105.d	N069105-009C	SAMP	10	10/14/24 9:39 PM
A1014106.d	N069105-009C	SAMP	50	10/14/24 9:44 PM
A1014107.d	N069105-009C-PS	PS	10	10/14/24 9:48 PM
A1014108.d	N069105-009CMS	MS	10	10/14/24 9:53 PM
A1014109.d	N069105-009CMSD	MSD	10	10/14/24 9:58 PM
A1014110.d	CCV9	CCV	1	10/14/24 10:03 PM
A1014111.d	CCB9	CCB	1	10/14/24 10:07 PM
A1014112.d	ICSA4	ICSA	1	10/14/24 10:12 PM
A1014113.d	ICSAB4	ICSAB	1	10/14/24 10:17 PM

SAMPLE PREPARATION LOG



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PREP BATCH REPORT

Prep Start Date: **10/10/2024 12:49:16 PM**

Reviewed/ Date: *JRB* **11/14/2024**

Page: 1 of 2

Prep End Date: **10/10/2024 4:40:00 PM**

Initials/ Date: for _____

Prep Factor Units Temp. (°C): Location:

Prep Batch **113188** Prep Code: **3010_W_MSDISS_TPK**

Technician: **Diane Jetajobe**

mL / mL **95.1 DB-4-20**

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-113188	Aqueous		25	<input type="checkbox"/>	25	1.000		
50ML LOT# J585566-8247								
MB-113188	Aqueous		25	<input type="checkbox"/>	25	1.000		
THERMOMETER ID: DIGESTION 7								
N069105-002C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069105-003C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069105-004C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069105-005C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069105-006C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069105-008C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069105-009C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069105-009CMS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069105-009CMSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069105-010C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069105-011C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17136	NITRIC ACID
17143	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-240815C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-240815D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-240815E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-240815F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: **10/10/2024 12:49:16 PM**

Prep End Date: **10/10/2024 4:40:00 PM**

Prep Batch **113188** Prep Code: **3010_W_MSDISS_TPK**

Reviewed/ Date: *JRB* **11/14/2024**

Initials/ Date: *JRB* _____

Technician: **Diane Jetajobe**

Page: 2 of 2

Prep Factor Units Temp. (°C): Location:
 mL / mL **95.1** **DB-4-20**

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N069105-012C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069105-013C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069105-014C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069108-001B	Surface Water	<2	25	<input type="checkbox"/>	25	1.000		
N069109-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069109-002C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17136	NITRIC ACID
17143	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-240815C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-240815D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-240815E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-240815F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

INSTRUMENT TUNING CHECK



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\241010B.b
Acq. Date-Time 2024-10-14 11:46:21
Report Comment —
Instrument Name G8421A SG19193757

[No Gas]

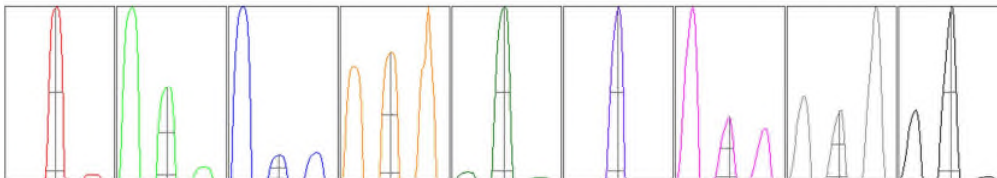
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	6546	65461.21	500.00		2.893	5.000
24	10.00	16276	162763.03	500.00		3.882	5.000
25	10.00	2155	21548.39	500.00		3.925	5.000
26	10.00	2463	24629.17	500.00		3.934	5.000
59	10.00	20813	208134.45	500.00		2.833	5.000
115	10.00	28439	284388.74	500.00		2.028	5.000
206	10.00	6484	64840.48	500.00		2.194	5.000
207	10.00	5159	51585.10	500.00		2.571	5.000
208	10.00	12932	129315.91	500.00		2.051	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.922 %
Doubly Charged 70 / 140 0.794 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	6398.49	8.90	8.90 - 9.10	
24	15950.06	23.90	23.90 - 24.10	
25	2150.17	24.90	24.90 - 25.10	
26	2419.04	25.90	25.90 - 26.10	
59	20430.91	58.95	58.90 - 59.10	
115	27846.24	115.00	114.90 - 115.10	
206	6136.64	206.00	205.90 - 206.10	
207	5006.30	206.95	206.90 - 207.10	
208	12767.82	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.39	0.490	0.900	
24	0.45	0.541	0.900	
25	0.43	0.543	0.900	
26	0.43	0.540	0.900	
59	0.41	0.572	0.900	
115	0.36	0.488	0.900	
206	0.37	0.570	0.900	
207	0.36	0.561	0.900	
208	0.37	0.578	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	2.0 mm	Torch V	1.5 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2620 V Pulse HV 1832 V

[H2]

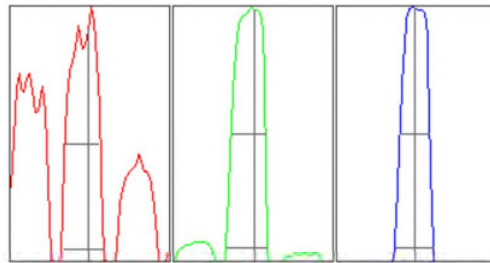
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		132	1319.25			7.908	
59		1664	16638.72			2.962	
115		21603	216030.04			2.156	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.804 %
 Doubly Charged 70 / 140 0.280 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	138.26	26.00	25.90 - 26.10	
59	1751.98	59.05	58.90 - 59.10	
115	22620.81	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.67	0.791	0.900	
59	0.65	0.781	0.900	
115	0.57	0.732	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	--	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth	8.0 mm	S/C Temp	2 °C		
Lens Parameters					
Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	—	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		
QP Parameters					
Mass Gain	131	Axis Gain	1.0002	QP Bias	-15.0 V
Mass Offset	126	Axis Offset	-0.03		
Hardware Settings					
Torch					
Torch H	2.0 mm	Torch V	1.5 mm		
EM					
Discriminator	4.5 mV	Analog HV	2620 V	Pulse HV	1832 V

[He]

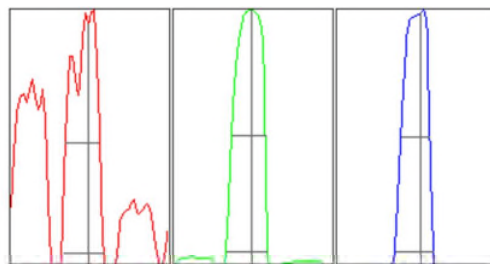
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		57	570.41			12.437	
59		3957	39569.18			1.884	
115		3572	35720.74			2.175	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.305 %
 Doubly Charged 70 / 140 1.016 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	64.75	26.00	25.90 - 26.10	
59	4030.23	59.00	58.90 - 59.10	
115	3652.54	115.10	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.64	0.785	0.900	
59	0.64	0.779	0.900	
115	0.56	0.730	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0002	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	2.0 mm	Torch V	1.5 mm
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EM

Discriminator	4.5 mV	Analog HV	2620 V	Pulse HV	1832 V
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INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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INITIAL CALIBRATION SUMMARY: 241014A

Instrument ID: NV00922-ICP8

Analyte	Data File	A1014003.d	A1014004.d	A1014005.d	A1014006.d	A1014007.d	A1014008.d	A1014009.d	A1014010.d	A1014011.d	R
	Acq. Date-Time	10/14/2024 01:39 PM	10/14/2024 01:44 PM	10/14/2024 01:48 PM	10/14/2024 01:53 PM	10/14/2024 01:58 PM	10/14/2024 02:03 PM	10/14/2024 02:07 PM	10/14/2024 02:12 PM	10/14/2024 02:17 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L		
45 Sc (ISTD) [2]	CPS	26447.6		26024.7	26458.7	26818.2	26556.7	26541.1	26518.8	26499.9	
55 Mn [2]	CPS	15.6		455.6	4328.4	8863.5	17636.1	36267.4	90452.8	183682.8	1.0000
72 Ge (ISTD) [2]	CPS	14667.7	14479.8	14143.9	14469.8	14463.1	14614.3	14272.9	14651	14824.5	
75 As [2]	CPS	10	35.6	115.6	994.5	1937.9	4057.2	8468.9	21322.8	42375.8	0.9999
159 Tb (ISTD) [3]	CPS	1236511.1		1220097	1230935.4	1214064.4	1220601.6	1216627.3	1231403.1	1240296.3	
137 Ba [3]	CPS	13.3		1233.4	11587.8	23050.7	47623	95873.9	241251.4	492151.9	1.0000

Standard Code
ICAL: 2MSST-240311B
ICAL: 2MSST-240311C
ICAL: 2MWST-240815K
ICV: 2MWST-240815G
LLICV: 2MWST-240815J
IS Mix: 2MWST-240815A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278						
Client ID: ICV	Batch ID: R194278	TestNo: EPA 6020	Analysis Date: 10/14/2024	SeqNo: 6232502							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.378	0.10	10.00	0	104	90	110				
Barium	10.074	1.0	10.00	0	101	90	110				
Manganese	100.106	0.50	100.0	0	100	90	110				

Sample ID LLCCV1	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278						
Client ID: ZZZZZ	Batch ID: R194278	TestNo: EPA 6020	Analysis Date: 10/14/2024	SeqNo: 6232504							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.092	0.10	0.1000	0	91.7	80	120				

Sample ID LLCCV2	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278						
Client ID: ZZZZZ	Batch ID: R194278	TestNo: EPA 6020	Analysis Date: 10/14/2024	SeqNo: 6232505							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	1.059	1.0	1.000	0	106	80	120				
Manganese	0.544	0.50	0.5000	0	109	80	120				

Sample ID MLCCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278						
Client ID: CCV	Batch ID: R194278	TestNo: EPA 6020	Analysis Date: 10/14/2024	SeqNo: 6232506							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.138	0.10	20.00	0	95.7	90	110				
Barium	19.396	1.0	20.00	0	97.0	90	110				
Manganese	19.303	0.50	20.00	0	96.5	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278						
Client ID: CCV	Batch ID: R194278	TestNo: EPA 6020		Analysis Date: 10/14/2024	SeqNo: 6232513						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.323	0.10	20.00	0	96.6	90	110				
Barium	19.696	1.0	20.00	0	98.5	90	110				
Manganese	19.322	0.50	20.00	0	96.6	90	110				

Sample ID CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278						
Client ID: CCV	Batch ID: R194278	TestNo: EPA 6020		Analysis Date: 10/14/2024	SeqNo: 6232527						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.270	0.10	20.00	0	96.4	90	110				
Barium	20.111	1.0	20.00	0	101	90	110				
Manganese	19.403	0.50	20.00	0	97.0	90	110				

Sample ID CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278						
Client ID: CCV	Batch ID: R194278	TestNo: EPA 6020		Analysis Date: 10/14/2024	SeqNo: 6232539						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.366	0.10	20.00	0	96.8	90	110				
Barium	20.344	1.0	20.00	0	102	90	110				
Manganese	19.825	0.50	20.00	0	99.1	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278						
Client ID: CCV	Batch ID: R194278	TestNo: EPA 6020		Analysis Date: 10/14/2024	SeqNo: 6232544						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.754	0.10	20.00	0	93.8	90	110				
Barium	20.177	1.0	20.00	0	101	90	110				
Manganese	19.454	0.50	20.00	0	97.3	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278						
Client ID: CCV	Batch ID: R194278	TestNo: EPA 6020		Analysis Date: 10/14/2024	SeqNo: 6232557						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.600	0.10	20.00	0	98.0	90	110				
Barium	20.106	1.0	20.00	0	101	90	110				
Manganese	19.668	0.50	20.00	0	98.3	90	110				

Sample ID CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278						
Client ID: CCV	Batch ID: R194278	TestNo: EPA 6020		Analysis Date: 10/14/2024	SeqNo: 6232563						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.400	0.10	20.00	0	97.0	90	110				
Barium	19.948	1.0	20.00	0	99.7	90	110				
Manganese	19.756	0.50	20.00	0	98.8	90	110				

Sample ID CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278						
Client ID: CCV	Batch ID: R194278	TestNo: EPA 6020		Analysis Date: 10/14/2024	SeqNo: 6232574						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.661	0.10	20.00	0	98.3	90	110				
Barium	19.995	1.0	20.00	0	100	90	110				
Manganese	19.895	0.50	20.00	0	99.5	90	110				

Sample ID CCV8	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278						
Client ID: CCV	Batch ID: R194278	TestNo: EPA 6020		Analysis Date: 10/14/2024	SeqNo: 6232585						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.985	0.10	20.00	0	99.9	90	110				
Barium	20.290	1.0	20.00	0	101	90	110				
Manganese	20.256	0.50	20.00	0	101	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV9	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278						
Client ID: CCV	Batch ID: R194278	TestNo: EPA 6020		Analysis Date: 10/14/2024	SeqNo: 6232595						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.065	0.10	20.00	0	90.3	90	110				
Barium	19.560	1.0	20.00	0	97.8	90	110				
Manganese	19.835	0.50	20.00	0	99.2	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278						
Client ID: ICB	Batch ID: R194278	TestNo: EPA 6020		Analysis Date: 10/14/2024	SeqNo: 6232503						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50

Sample ID CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278						
Client ID: CCB	Batch ID: R194278	TestNo: EPA 6020		Analysis Date: 10/14/2024	SeqNo: 6232514						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50

Sample ID CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278						
Client ID: CCB	Batch ID: R194278	TestNo: EPA 6020		Analysis Date: 10/14/2024	SeqNo: 6232528						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50

Sample ID CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278						
Client ID: CCB	Batch ID: R194278	TestNo: EPA 6020		Analysis Date: 10/14/2024	SeqNo: 6232540						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278
Client ID: CCB	Batch ID: R194278	TestNo: EPA 6020	Analysis Date: 10/14/2024	SeqNo: 6232545	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Barium	ND	1.0			
Manganese	ND	0.50			

Sample ID CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278
Client ID: CCB	Batch ID: R194278	TestNo: EPA 6020	Analysis Date: 10/14/2024	SeqNo: 6232558	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Barium	ND	1.0			
Manganese	ND	0.50			

Sample ID CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278
Client ID: CCB	Batch ID: R194278	TestNo: EPA 6020	Analysis Date: 10/14/2024	SeqNo: 6232564	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Barium	ND	1.0			
Manganese	ND	0.50			

Sample ID CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278
Client ID: CCB	Batch ID: R194278	TestNo: EPA 6020	Analysis Date: 10/14/2024	SeqNo: 6232575	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Barium	ND	1.0			
Manganese	ND	0.50			

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278						
Client ID: CCB	Batch ID: R194278	TestNo: EPA 6020		Analysis Date: 10/14/2024	SeqNo: 6232586						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278						
Client ID: CCB	Batch ID: R194278	TestNo: EPA 6020		Analysis Date: 10/14/2024	SeqNo: 6232596						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



ASSET LABORATORIES
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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278						
Client ID: ICSA	Batch ID: R194278	TestNo: EPA 6020	Analysis Date: 10/14/2024	SeqNo: 6232507							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278						
Client ID: ICSA	Batch ID: R194278	TestNo: EPA 6020	Analysis Date: 10/14/2024	SeqNo: 6232508							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.969	0.10	20.00	0	99.8	80	120				
Barium	20.353	1.0	20.00	0	102	80	120				
Manganese	19.929	0.50	20.00	0	99.6	80	120				

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278						
Client ID: ICSA	Batch ID: R194278	TestNo: EPA 6020	Analysis Date: 10/14/2024	SeqNo: 6232515							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278						
Client ID: ICSA	Batch ID: R194278	TestNo: EPA 6020	Analysis Date: 10/14/2024	SeqNo: 6232516							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.544	0.10	20.00	0	97.7	80	120				
Barium	20.675	1.0	20.00	0	103	80	120				
Manganese	20.217	0.50	20.00	0	101	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278						
Client ID: ICSA	Batch ID: R194278	TestNo: EPA 6020		Analysis Date: 10/14/2024	SeqNo: 6232546						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic
Barium
Manganese

ND
ND
ND

0.10
1.0
0.50

Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278						
Client ID: ICSA	Batch ID: R194278	TestNo: EPA 6020		Analysis Date: 10/14/2024	SeqNo: 6232547						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic
Barium
Manganese

19.983
21.138
19.713

0.10
1.0
0.50

20.00
20.00
20.00

0
0
0

99.9
106
98.6

80
80
80

120
120
120

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278						
Client ID: ICSA	Batch ID: R194278	TestNo: EPA 6020		Analysis Date: 10/14/2024	SeqNo: 6232597						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic
Barium
Manganese

ND
ND
ND

0.10
1.0
0.50

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278						
Client ID: ICSA	Batch ID: R194278	TestNo: EPA 6020		Analysis Date: 10/14/2024	SeqNo: 6232598						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic
Barium
Manganese

19.758
21.022
20.133

0.10
1.0
0.50

20.00
20.00
20.00

0
0
0

98.8
105
101

80
80
80

120
120
120

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

INTERNAL STANDARD SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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“Serving Clients with Passion and Professionalism”

INTERNAL STANDARD: 241014A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	1236511.1	1236511.1	100	PASS	30-150	26447.6	26447.6	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	1227965.3	1236511.1	99.31	PASS	30-150	26864.9	26447.6	101.58	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	1220097	1236511.1	98.67	PASS	30-150	26024.7	26447.6	98.4	PASS	30-150
Std3-5/50 ppb	ICAL	1	1230935.4	1236511.1	99.55	PASS	30-150	26458.7	26447.6	100.04	PASS	30-150
Std4-10/100 ppb	ICAL	1	1214064.4	1236511.1	98.18	PASS	30-150	26818.2	26447.6	101.4	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	1220601.6	1236511.1	98.71	PASS	30-150	26556.7	26447.6	100.41	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	1216627.3	1236511.1	98.39	PASS	30-150	26541.1	26447.6	100.35	PASS	30-150
Std7-100/1000 ppb	ICAL	1	1231403.1	1236511.1	99.59	PASS	30-150	26518.8	26447.6	100.27	PASS	30-150
Std8-200/2000 ppb	ICAL	1	1240296.3	1236511.1	100.31	PASS	30-150	26499.9	26447.6	100.2	PASS	30-150
ICV	ICV	1	1223925.1	1236511.1	98.98	PASS	30-150	26428.7	26447.6	99.93	PASS	30-150
ICB	ICB	1	1199642.1	1236511.1	97.02	PASS	30-150	26587.8	26447.6	100.53	PASS	30-150
LLCCV1	CCV	1	1211573.5	1236511.1	97.98	PASS	30-150	26533.3	26447.6	100.32	PASS	30-150
LLCCV2	CCV	1	1204934.9	1236511.1	97.45	PASS	30-150	26118.2	26447.6	98.75	PASS	30-150
MLCCV1	CCV	1	1216081.4	1236511.1	98.35	PASS	30-150	26357.5	26447.6	99.66	PASS	30-150
ICSA1	ICSA	1	1214051	1236511.1	98.18	PASS	30-150	26222.8	26447.6	99.15	PASS	30-150
ICSAB1	ICSAB	1	1202135.8	1236511.1	97.22	PASS	30-150	26396.4	26447.6	99.81	PASS	30-150
CCV1	CCV	1	999817.6	1236511.1	80.86	PASS	30-150	21175.7	26447.6	80.07	PASS	30-150
CCB1	CCB	1	990558.2	1236511.1	80.11	PASS	30-150	20894.2	26447.6	79	PASS	30-150
ICSA2	ICSA	1	984597.7	1236511.1	79.63	PASS	30-150	21013.2	26447.6	79.45	PASS	30-150
ICSAB2	ICSAB	1	973403.3	1236511.1	78.72	PASS	30-150	21048.8	26447.6	79.59	PASS	30-150
CCV2	CCV	1	943841.4	1236511.1	76.33	PASS	30-150	20774	26447.6	78.55	PASS	30-150
CCB2	CCB	1	926623.2	1236511.1	74.94	PASS	30-150	20715.1	26447.6	78.33	PASS	30-150
CCV3	CCV	1	965624.5	1236511.1	78.09	PASS	30-150	21535	26447.6	81.43	PASS	30-150
CCB3	CCB	1	973499.3	1236511.1	78.73	PASS	30-150	21570.6	26447.6	81.56	PASS	30-150
CCV4	CCV	1	918805.3	1236511.1	74.31	PASS	30-150	20865.3	26447.6	78.89	PASS	30-150
CCB4	CCB	1	932449.1	1236511.1	75.41	PASS	30-150	21085.6	26447.6	79.73	PASS	30-150
ICSA3	ICSA	1	946304.6	1236511.1	76.53	PASS	30-150	21311.4	26447.6	80.58	PASS	30-150
ICSAB3	ICSAB	1	948692	1236511.1	76.72	PASS	30-150	21690.8	26447.6	82.01	PASS	30-150
CCV5	CCV	1	1026799.3	1236511.1	83.04	PASS	30-150	22606.4	26447.6	85.48	PASS	30-150
CCB5	CCB	1	1018596.4	1236511.1	82.38	PASS	30-150	22733.2	26447.6	85.96	PASS	30-150
CCV6	CCV	1	1041074.4	1236511.1	84.19	PASS	30-150	22667.6	26447.6	85.71	PASS	30-150
CCB6	CCB	1	1034611.6	1236511.1	83.67	PASS	30-150	22664.3	26447.6	85.7	PASS	30-150
MB-113188	MBLK	1	1035793.8	1236511.1	83.77	PASS	30-150	22863.5	26447.6	86.45	PASS	30-150
LCS-113188	LCS	1	1057980.1	1236511.1	85.56	PASS	30-150	23157.2	26447.6	87.56	PASS	30-150
N069108-001B	SAMP	1	986234.3	1236511.1	79.76	PASS	30-150	21489.4	26447.6	81.25	PASS	30-150
N069105-002C	SAMP	1	785861.1	1236511.1	63.55	PASS	30-150	18442.5	26447.6	69.73	PASS	30-150
N069105-003C	SAMP	1	857921.4	1236511.1	69.38	PASS	30-150	20508.2	26447.6	77.54	PASS	30-150
N069105-004C	SAMP	1	868332.2	1236511.1	70.22	PASS	30-150	19868.5	26447.6	75.12	PASS	30-150
N069105-005C	SAMP	1	938591.5	1236511.1	75.91	PASS	30-150	20845.2	26447.6	78.82	PASS	30-150
N069105-006C	SAMP	1	882740.9	1236511.1	71.39	PASS	30-150	19198.8	26447.6	72.59	PASS	30-150
N069105-008C	SAMP	1	917461.6	1236511.1	74.2	PASS	30-150	20231.2	26447.6	76.5	PASS	30-150

INTERNAL STANDARD: 241014A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
CCV7	CCV	1	1072527.4	1236511.1	86.74	PASS	30-150	22212.6	26447.6	83.99	PASS	30-150
CCB7	CCB	1	1033662.8	1236511.1	83.6	PASS	30-150	21683	26447.6	81.98	PASS	30-150
N069105-009C	SAMP	1	796560.6	1236511.1	64.42	PASS	30-150	18431.3	26447.6	69.69	PASS	30-150
N069105-009C	SAMP	5	885013.6	1236511.1	71.57	PASS	30-150	18159.9	26447.6	68.66	PASS	30-150
N069105-009C-PS	PS	1	799294.7	1236511.1	64.64	PASS	30-150	19077.6	26447.6	72.13	PASS	30-150
N069105-009CMS	MS	1	818960	1236511.1	66.23	PASS	30-150	19107.6	26447.6	72.25	PASS	30-150
N069105-009CMSD	MSD	1	793310	1236511.1	64.16	PASS	30-150	17858.5	26447.6	67.52	PASS	30-150
N069105-010C	SAMP	1	741478.2	1236511.1	59.97	PASS	30-150	16778.5	26447.6	63.44	PASS	30-150
N069105-011C	SAMP	1	745620.3	1236511.1	60.3	PASS	30-150	17354.6	26447.6	65.62	PASS	30-150
N069105-012C	SAMP	1	809273.5	1236511.1	65.45	PASS	30-150	18163.3	26447.6	68.68	PASS	30-150
N069105-013C	SAMP	1	845640	1236511.1	68.39	PASS	30-150	18428	26447.6	69.68	PASS	30-150
CCV8	CCV	1	1045935.8	1236511.1	84.59	PASS	30-150	20225.6	26447.6	76.47	PASS	30-150
CCB8	CCB	1	1027234.4	1236511.1	83.08	PASS	30-150	20216.7	26447.6	76.44	PASS	30-150
N069105-014C	SAMP	1	1067918.2	1236511.1	86.37	PASS	30-150	20560.4	26447.6	77.74	PASS	30-150
N069109-001C	SAMP	1	904115.1	1236511.1	73.12	PASS	30-150	19901.9	26447.6	75.25	PASS	30-150
N069109-002C	SAMP	1	927106	1236511.1	74.98	PASS	30-150	19414.7	26447.6	73.41	PASS	30-150
N069105-009C	SAMP	10	980890.9	1236511.1	79.33	PASS	30-150	19410.2	26447.6	73.39	PASS	30-150
N069105-009C	SAMP	50	966430.6	1236511.1	78.16	PASS	30-150	18452.4	26447.6	69.77	PASS	30-150
N069105-009C-PS	PS	10	980129.7	1236511.1	79.27	PASS	30-150	19230	26447.6	72.71	PASS	30-150
N069105-009CMS	MS	10	994317.1	1236511.1	80.41	PASS	30-150	19524.8	26447.6	73.82	PASS	30-150
N069105-009CMSD	MSD	10	992217.5	1236511.1	80.24	PASS	30-150	19384.6	26447.6	73.29	PASS	30-150
CCV9	CCV	1	1033377.3	1236511.1	83.57	PASS	30-150	20351.3	26447.6	76.95	PASS	30-150
CCB9	CCB	1	1026547.6	1236511.1	83.02	PASS	30-150	20678.4	26447.6	78.19	PASS	30-150
ICSA4	ICSA	1	1036942.1	1236511.1	83.86	PASS	30-150	20747.4	26447.6	78.45	PASS	30-150
ICSAB4	ICSAB	1	1028324.9	1236511.1	83.16	PASS	30-150	21220.2	26447.6	80.23	PASS	30-150

INTERNAL STANDARD: 241014A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	14667.7	14667.7	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	14479.8	14667.7	98.72	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	14143.9	14667.7	96.43	PASS	30-150
Std3-5/50 ppb	ICAL	1	14469.8	14667.7	98.65	PASS	30-150
Std4-10/100 ppb	ICAL	1	14463.1	14667.7	98.61	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	14614.3	14667.7	99.64	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	14272.9	14667.7	97.31	PASS	30-150
Std7-100/1000 ppb	ICAL	1	14651	14667.7	99.89	PASS	30-150
Std8-200/2000 ppb	ICAL	1	14824.5	14667.7	101.07	PASS	30-150
ICV	ICV	1	14638.8	14667.7	99.8	PASS	30-150
ICB	ICB	1	14097.2	14667.7	96.11	PASS	30-150
LLCCV1	CCV	1	14582.1	14667.7	99.42	PASS	30-150
LLCCV2	CCV	1	14549.8	14667.7	99.2	PASS	30-150
MLCCV1	CCV	1	14520.9	14667.7	99	PASS	30-150
ICSA1	ICSA	1	14151.7	14667.7	96.48	PASS	30-150
ICSAB1	ICSAB	1	14281.8	14667.7	97.37	PASS	30-150
CCV1	CCV	1	12054.5	14667.7	82.18	PASS	30-150
CCB1	CCB	1	11669.7	14667.7	79.56	PASS	30-150
ICSA2	ICSA	1	11797.6	14667.7	80.43	PASS	30-150
ICSAB2	ICSAB	1	11812.1	14667.7	80.53	PASS	30-150
CCV2	CCV	1	11595.2	14667.7	79.05	PASS	30-150
CCB2	CCB	1	11674.2	14667.7	79.59	PASS	30-150
CCV3	CCV	1	12082.3	14667.7	82.37	PASS	30-150
CCB3	CCB	1	11795.4	14667.7	80.42	PASS	30-150
CCV4	CCV	1	11888.8	14667.7	81.05	PASS	30-150
CCB4	CCB	1	11773.1	14667.7	80.27	PASS	30-150
ICSA3	ICSA	1	11944.4	14667.7	81.43	PASS	30-150
ICSAB3	ICSAB	1	12250.2	14667.7	83.52	PASS	30-150
CCV5	CCV	1	12727.2	14667.7	86.77	PASS	30-150
CCB5	CCB	1	12641.6	14667.7	86.19	PASS	30-150
CCV6	CCV	1	12812.8	14667.7	87.35	PASS	30-150
CCB6	CCB	1	12736.1	14667.7	86.83	PASS	30-150
MB-113188	MBLK	1	12887.3	14667.7	87.86	PASS	30-150
LCS-113188	LCS	1	12812.8	14667.7	87.35	PASS	30-150
N069108-001B	SAMP	1	12163.4	14667.7	82.93	PASS	30-150
N069105-002C	SAMP	1	9667.3	14667.7	65.91	PASS	30-150
N069105-003C	SAMP	1	11160.5	14667.7	76.09	PASS	30-150
N069105-004C	SAMP	1	10759.1	14667.7	73.35	PASS	30-150
N069105-005C	SAMP	1	11358.4	14667.7	77.44	PASS	30-150
N069105-006C	SAMP	1	10453.4	14667.7	71.27	PASS	30-150
N069105-008C	SAMP	1	11549.7	14667.7	78.74	PASS	30-150

INTERNAL STANDARD: 241014A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
CCV7	CCV	1	12429.2	14667.7	84.74	PASS	30-150
CCB7	CCB	1	12336.9	14667.7	84.11	PASS	30-150
N069105-009C	SAMP	1	10122	14667.7	69.01	PASS	30-150
N069105-009C	SAMP	5	10350	14667.7	70.56	PASS	30-150
N069105-009C-PS	PS	1	10136.5	14667.7	69.11	PASS	30-150
N069105-009CMS	MS	1	10545.7	14667.7	71.9	PASS	30-150
N069105-009CMSD	MSD	1	9769.6	14667.7	66.61	PASS	30-150
N069105-010C	SAMP	1	9051.4	14667.7	61.71	PASS	30-150
N069105-011C	SAMP	1	9569.5	14667.7	65.24	PASS	30-150
N069105-012C	SAMP	1	9757.4	14667.7	66.52	PASS	30-150
N069105-013C	SAMP	1	10245.5	14667.7	69.85	PASS	30-150
CCV8	CCV	1	11811	14667.7	80.52	PASS	30-150
CCB8	CCB	1	11678.7	14667.7	79.62	PASS	30-150
N069105-014C	SAMP	1	11726.5	14667.7	79.95	PASS	30-150
N069109-001C	SAMP	1	11080.5	14667.7	75.54	PASS	30-150
N069109-002C	SAMP	1	10793.6	14667.7	73.59	PASS	30-150
N069105-009C	SAMP	10	11058.2	14667.7	75.39	PASS	30-150
N069105-009C	SAMP	50	10550.1	14667.7	71.93	PASS	30-150
N069105-009C-PS	PS	10	11141.6	14667.7	75.96	PASS	30-150
N069105-009CMS	MS	10	11033.7	14667.7	75.22	PASS	30-150
N069105-009CMSD	MSD	10	11207.2	14667.7	76.41	PASS	30-150
CCV9	CCV	1	12011.1	14667.7	81.89	PASS	30-150
CCB9	CCB	1	11844.3	14667.7	80.75	PASS	30-150
ICSA4	ICSA	1	12341.3	14667.7	84.14	PASS	30-150
ICSAB4	ICSAB	1	12201.3	14667.7	83.18	PASS	30-150

SERIAL DILUTION/ POST DIGESTION SPIKE



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N069109
Test Method: EPA 6020
Analysis Date: 10/14/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 113188

Instrument ID: NV00922-ICP8 (ICPMS-03)
Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069105-009C DT 5x	Arsenic	As	µg/L	2.383149	PASS	2.563119	7.02%	10
N069105-009C DT 5x	Barium	Ba	µg/L	55.85309	PASS	54.46761	2.54%	10
N069105-009C DT 50x	Manganese	Mn	µg/L	296.9974	PASS	291.7878	1.79%	10

Reviewed by:



11/14/2024

Note: NA - Not Applicable

10/31/24 21:38

N069109_6020_113188_DT

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069109
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID N069105-009C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278						
Client ID: ZZZZZZ	Batch ID: 113188	TestNo: EPA 6020	EPA 3010A	Analysis Date: 10/14/2024	SeqNo: 6232578						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	13.804	0.10	10.00	2.563	112	80	120				
Barium	63.113	1.0	10.00	54.47	86.5	80	120				

Sample ID N069105-009C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194278						
Client ID: ZZZZZZ	Batch ID: 113188	TestNo: EPA 6020	EPA 3010A	Analysis Date: 10/14/2024	SeqNo: 6232592						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	1307.016	5.0	1000	291.8	102	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

MDL STUDY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

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Method Detection Limit

Analytical Method: **EPA 6020B**
 Digestion Method: **3010**
 Date of Analysis: **2/15-2/19/2024**
 Digestion Date: **2/15-2/19/2024**
 Instrument Name: **NV0922-ICP8**
 Analysts: **DJ**

Matrix: **Water**
 Unit: **ug/L**

Analyte	1	2	3	4	5	6	7	AMT SPIKED, ppb	SD	MDLs	PQL	MDL
ANTIMONY	0.543	0.521	0.559	0.527	0.573	0.559	0.572	0.50	0.0208	0.0653	0.50	0.0653
ARSENIC	0.102	0.123	0.107	0.116	0.096	0.161	0.115	0.10	0.0212	0.0668	0.10	0.0668
BARIUM	1.103	1.065	1.083	1.081	1.094	1.066	1.060	1.00	0.0159	0.0499	1.00	0.0499
BERYLLIUM	0.533	0.524	0.557	0.541	0.564	0.565	0.502	0.50	0.0233	0.0733	0.50	0.0733
CADMIUM	0.523	0.562	0.529	0.559	0.491	0.544	0.533	0.50	0.0243	0.0763	0.50	0.0763
CHROMIUM	1.015	0.996	1.000	1.100	1.030	1.081	1.052	1.00	0.0402	0.1264	1.00	0.1264
COBALT	0.524	0.523	0.541	0.559	0.528	0.534	0.551	0.50	0.0138	0.0433	0.50	0.0433
COPPER	1.043	1.028	1.026	1.016	1.068	1.098	1.021	1.00	0.0301	0.0947	1.00	0.0947
IRON	11.041	10.660	10.783	11.168	10.989	10.919	10.802	10.00	0.1734	0.5449	10.00	0.5449
LEAD	1.076	1.068	1.091	1.077	1.083	1.040	1.040	1.00	0.0203	0.0637	1.00	0.0637
MANGANESE	0.558	0.529	0.519	0.541	0.532	0.525	0.554	0.50	0.0148	0.0465	0.50	0.0465
MOLYBDENUM	0.564	0.571	0.574	0.537	0.518	0.554	0.550	0.50	0.0200	0.0629	0.50	0.0629
NICKEL	1.025	1.059	1.057	0.947	0.974	1.069	1.036	1.00	0.0465	0.1461	1.00	0.1461
SELENIUM	0.679	0.622	0.547	0.429	0.439	0.552	0.506	0.50	0.0911	0.2863	0.50	0.2863
SILVER	0.525	0.538	0.555	0.545	0.551	0.530	0.518	0.50	0.0140	0.0439	0.50	0.0439
THALLIUM	0.503	0.493	0.491	0.555	0.525	0.504	0.499	0.50	0.0227	0.0713	0.50	0.0713
URANIUM	0.517	0.513	0.528	0.542	0.526	0.533	0.523	0.50	0.0097	0.0306	0.50	0.0306
VANADIUM	1.081	1.076	1.027	1.054	1.069	1.043	1.080	1.00	0.0209	0.0658	1.00	0.0658
ZINC	10.646	10.643	10.661	10.514	10.927	10.516	10.419	10.00	0.1631	0.5126	10.00	0.7534
ALUMINUM	10.305	10.064	10.146	10.336	10.592	10.459	10.670	10.00	0.2224	0.6990	10.00	0.6990



Method Detection Limit (Blanks)

Analyte	1	2	3	4	5	6	7	Mean	SD	MDLb
ANTIMONY	0.011	0.009	0.001	0.001	0.003	0.018	0.012	0.0080	0.0065	0.0285
ARSENIC	0.021	0.013	0.004	0.008	0.000	0.001	0.000	0.0067	0.0079	0.0316
BARIUM	0.000	0.018	0.014	0.000	0.003	0.001	0.003	0.0054	0.0072	0.0280
BERYLLIUM	0.003	0.005	0.007	0.002	0.005	0.014	0.003	0.0057	0.0039	0.0179
CADMIUM	0.000	0.002	0.000	0.000	0.000	0.001	0.000	0.0004	0.0007	0.0026
CHROMIUM	0.000	0.000	0.000	0.000	0.000	0.001	0.004	0.0008	0.0016	0.0059
COBALT	0.000	0.000	0.000	0.000	0.000	0.003	0.001	0.0006	0.0012	0.0042
COPPER	0.000	0.000	0.069	0.000	0.010	0.000	0.000	0.0113	0.0258	0.0924
IRON	0.000	0.000	0.000	0.236	0.187	0.020	0.112	0.0792	0.0996	0.3922
LEAD	0.001	0.000	0.000	0.002	0.001	0.001	0.001	0.0011	0.0009	0.0037
MANGANESE	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.0008	0.0020	0.0071
MOLYBDENUM	0.017	0.013	0.007	0.015	0.004	0.022	0.009	0.0126	0.0062	0.0321
NICKEL	0.000	0.000	0.062	0.000	0.000	0.017	0.013	0.0132	0.0228	0.0849
SELENIUM	0.007	0.027	0.000	0.000	0.019	0.000	0.013	0.0093	0.0107	0.0428
SILVER	0.004	0.002	0.002	0.000	0.000	0.001	0.000	0.0012	0.0014	0.0057
THALLIUM	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.0003	0.0008	0.0028
URANIUM	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.0001	0.0004	0.0013
VANADIUM	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.0003	0.0004	0.0016
ZINC	0.000	0.000	0.257	0.175	0.513	0.000	0.000	0.1350	0.1968	0.7534
ALUMINUM	0.000	0.000	0.106	0.000	0.000	0.170	0.295	0.0816	0.1160	0.4460

Note: Higher value between **MDLs** and **MDLb** will be used.



LOD PQL VERIFICATION 2024

Analytical Method: EPA 6020 / 200.8
Digestion Method: EPA 3010A
Date of Analysis: 1/20/2024
Digestion Date: 1/20/2024
Instrument Name: ICPMS3
Analysts: DBJ

Matrix: Water
Units: ug/L

N062388

Analyte	MDLs	LOD	ACTUAL LOD	PQL	ACTUAL PQL	% RECOVERY
ANTIMONY	0.0652	0.025	0.288	0.50	0.552	110
ARSENIC	0.0667	0.050	0.055	0.10	0.107	107
BARIUM	0.0498	0.500	0.547	1.00	1.049	105
BERYLLIUM	0.0732	0.250	0.253	0.50	0.502	100
CADMIUM	0.0763	0.250	0.255	0.50	0.498	100
CHROMIUM	0.1263	0.500	0.536	1.00	1.048	105
COBALT	0.0433	0.250	0.261	0.50	0.518	104
COPPER	0.0946	0.100	0.620	1.00	0.941	94
IRON	0.5444	5.000	5.219	10.00	10.531	105
LEAD	0.0636	0.500	0.513	1.00	1.035	104
MANGANESE	0.0464	0.250	0.261	0.50	0.602	120
MOLYBDENUM	0.0628	0.250	0.275	0.50	0.534	107
NICKEL	0.1460	0.500	0.492	1.00	1.184	118
SELENIUM	0.2861	0.250	0.272	0.50	0.536	107
SILVER	0.0438	0.250	0.277	0.50	0.534	107
THALLIUM	0.0712	0.250	0.264	0.50	0.508	102
URANIUM	0.0306	0.250	0.261	0.50	0.523	105
VANADIUM	0.0657	0.500	0.557	1.00	1.063	106
ZINC	0.5121	5.000	5.394	10.00	10.481	105
ALUMINUM	0.6983	5.000	5.519	10.00	10.395	104



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number : 518219
Report Level : II
Report Date : 10/31/2024

Analytical Report *prepared for:*

Sonny Lorenzo
Asset Laboratories
11110 Artersia Blvd,
Suite B
Cerritos, CA 90703

Location: N069145

Authorized for release by:

Quynhgiao Le, Project Manager
714-7716900
quynhgiao.le@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105



Sample Summary

Sonny Lorenzo
Asset Laboratories
11110 Artersia
Blvd,
Suite B
Cerritos, CA 90703

Lab Job #: 518219
Location: N069145
Date Received: 10/15/24

Sample ID	Lab ID	Collected	Matrix
N069145-001A / MW-34-080-1024	518219-001	10/10/24 09:22	Water
N069145-002A / MW-24-100-1024	518219-002	10/10/24 08:59	Water
N069145-003A / MW-43-025-Q424	518219-003	10/10/24 10:05	Water
N069145-004A / MW-53S-Q424	518219-004	10/10/24 10:32	Water
N069145-005A / MW-21-1024	518219-005	10/10/24 11:55	Water
N069145-006A / MW-71-035-1024	518219-006	10/10/24 11:18	Water
N069145-007A / MW-78-070-1024	518219-007	10/10/24 09:10	Water
N069145-008A / MW-904-Q424	518219-008	10/10/24 09:20	Water
N069145-009A / MW-78-142-1024	518219-009	10/10/24 08:38	Water
N069145-010A / MW-79-058-1024	518219-010	10/10/24 10:16	Water
N069145-011A / MW-79-102-1024	518219-011	10/10/24 09:48	Water
N069145-012A / MW-80-057-1024	518219-012	10/10/24 12:39	Water
N069145-013A / MW-80--082-1024	518219-013	10/10/24 12:16	Water
N069145-014A / MW-26-1024	518219-014	10/10/24 10:50	Water
N069145-015A / MW-51-1024	518219-015	10/10/24 11:35	Water

Case Narrative

Asset Laboratories
11110 Artersia Blvd,
Suite B
Cerritos, CA 90703
Sonny Lorenzo

Lab Job Number: 518219
Location: N069145
Date Received: 10/15/24

- This data package contains sample and QC results for fifteen water samples, requested for the above referenced project on 10/15/24. The samples were received cold and intact.
- Level II is also requested.



ASSET Laboratories

3151-3153 W Post Rd., Las Vegas, NV 89118
www.asset-labs.com
TEL: 7023072659 FAX: 7023072691

CHAIN-OF-CUSTODY RECORD

518219

QC Level: Level IV

4.4 / 4.5 IU
0 / CID

Subcontractor:

Enthalpy Analytical
931 W. Barkley Ave.
Orange, CA 92868

TEL: (714) 771-6900
FAX: (714) 538-1209
Acct #:

Field Sampler: Riggie Tep

14-Oct-24

Sample ID	Matrix	Date Collected	Bottle Type	SM5310B	Requested Tests	
N069145-001A / MW-34-080-1024	Groundwater	10/10/2024 9:22:00 AM	8OZP	1		
N069145-002A / MW-34-100-1024	Groundwater	10/10/2024 8:59:00 AM	8OZP	1		
N069145-003A / MW-43-025-Q424	Groundwater	10/10/2024 10:05:00 AM	8OZP	1		
N069145-004A / MW-53S-Q424	Groundwater	10/10/2024 10:32:00 AM	8OZP	1		
N069145-005A / MW-21-1024	Groundwater	10/10/2024 11:55:00 AM	8OZP	1		
N069145-006A / MW-71-035-1024	Groundwater	10/10/2024 11:18:00 AM	8OZP	1		
N069145-007A / MW-78-070-1024	Groundwater	10/10/2024 9:10:00 AM	8OZP	1		
N069145-008A / MW-904-Q424	Groundwater	10/10/2024 9:20:00 AM	8OZP	1		
N069145-009A / MW-78-142-1024	Groundwater	10/10/2024 8:38:00 AM	8OZP	1	MS/MSD	
N069145-010A / MW-79-058-1024	Groundwater	10/10/2024 10:16:00 AM	8OZP	1		
N069145-011A / MW-79-102-1024	Groundwater	10/10/2024 9:48:00 AM	8OZP	1		
N069145-012A / MW-80-057-1024	Groundwater	10/10/2024 12:39:00 PM	8OZP	1		
N069145-013A / MW-80-082-1024	Groundwater	10/10/2024 12:16:00 PM	8OZP	1		
N069145-014A / MW-26-1024	Groundwater	10/10/2024 10:50:00 AM	8OZP	1		
N069145-015A / MW-51-1024	Groundwater	10/10/2024 11:35:00 AM	8OZP	1		

General Comments: PLEASE EMAIL SAMPLE RECEIPT ACKNOWLEDGEMENT TO THE PM. ALWAYS CC: sonny.lorenzo@assetlaboratories.com

Please use PO#-N69145A Please email Invoices and Account Receivable Statements to elvira@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: Standard TAT

Please analyze for TOC by SM5310B. EDD requirement Labspec7 edata.

GLS#: 562116007

Date/Time	Date/Time
10/14/2024 1600	10/15/24 1526
Relinquished by: <i>EFanegof</i>	Received by: <i>AdDg</i>
Relinquished by:	Received by:

SAMPLE RECEIPT CHECKLIST



Section 1: General Info

Date Received: 10/15/24 WO# 518219 Client: Asset Labs

Section 2: Shipping / Custody

Are custody seals present? Yes No

Custody seals intact on arrival? N/A Yes No On cooler / box On samples

Shipping Info: _____

Section 3a: Condition / Packaging

Outside 0.0 - 6.0°C (0.0 - 10.0°C for microbiology) (PM notified)

Date Opened 10/15/24 By (initials) ABD Type of ice used: Wet Blue/Gel None

Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatures)

Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures)

If no cooler: Observed/Adjusted Temp (°C): _____ / _____ Thermometer/IR Gun: IR11 CF: 10.1

Cooler Temp (°C) #1: 4.4 / 4.5 #2: _____ / _____ #3: _____ / _____ #4: _____ / _____ #5: _____ / _____ #6: _____ / _____

Section 3b: Microbiology Samples

No microbiology samples submitted (skip 3b)

Within temp range 0.0 - 10.0°C or received on ice directly from field.

Adequate headspace for microbiology analysis.

Section 3c: Air Samples

No air samples submitted (skip 3c)

1.4L Canisters 6L Canisters Tedlar Bags MCE Cassettes Sorbent Tubes Other _____

Section 4: Containers / Labels / Samples

	YES	NO	N/A
1) Were custody papers present, filled properly, and legible?	/		
2) Is the sampler's name present on the CoC?	/		
3) Were containers received in good condition (unbroken / unopened / uncompromised)?	/		
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)			/
5) Were all of, and only, the correct samples received?	/		
6) Are sample labels present, legible, and in agreement with the CoC?	/		
7) Does the container count match the CoC?		/	
8) Was sufficient sample volume / mass received for the analyses requested?	/		
9) Were samples received in proper containers for the analyses requested?	/		
10) Were samples received with > 1/2 holding time remaining?	/		
11) Are samples properly preserved as indicated by CoC / labels?	/		
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?			/
13) Are VOA vials free from headspace/bubbles > 6mm?			/

Section 5: Explanations / Comments

PM notified

4.7: Sample -009: CoC container count is 1, we received 2 bottles (1 for MS/MSD)

Date Logged 10/15/24 By (print) ABD (sign) [Signature]
 Date Labeled 10/15/24 By (print) ABD (sign) [Signature]



800-322-5555
www.gls-us.com

Ship From
ADVANCED TECHNOLOGY
LABORATORIES, INC.
MARLON CARTIN
3151 W. POST RD.
LAS VEGAS, NV 89118

Tracking #: 562116007

PDS

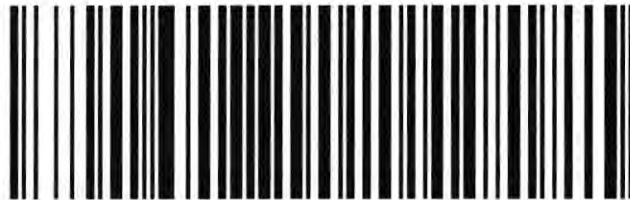


Ship To
ENHALPY ANALYTICAL
SAMPLE RECEIVING
931 W. BARKLEY AVE
ORANGE, CA 92868

ORANGE

S10219D

COD: \$0.00
Weight: 0 lb(s)
Reference:



17692351

Delivery Instructions:

Signature Type: STANDARD

ORC CA927-RD0

Print Date: 10/14/2024 9:36 AM

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

Analysis Results for 518219

Sonny Lorenzo
 Asset Laboratories
 11110 Artersia Blvd,
 Suite B
 Cerritos, CA 90703

Lab Job #: 518219
 Location: N069145
 Date Received: 10/15/24

Sample ID: N069145-001A / MW-34-080-1024 **Lab ID:** 518219-001 **Collected:** 10/10/24 09:22
Matrix: Water

518219-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	5.3		mg/L	1.0	1	353234	10/18/24	10/20/24	CKN

Sample ID: N069145-002A / MW-24-100-1024 **Lab ID:** 518219-002 **Collected:** 10/10/24 08:59
Matrix: Water

518219-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	2.7		mg/L	1.0	1	353234	10/18/24	10/20/24	CKN

Sample ID: N069145-003A / MW-43-025-Q424 **Lab ID:** 518219-003 **Collected:** 10/10/24 10:05
Matrix: Water

518219-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	12		mg/L	1.0	1	353234	10/18/24	10/20/24	CKN

Sample ID: N069145-004A / MW-53S-Q424 **Lab ID:** 518219-004 **Collected:** 10/10/24 10:32
Matrix: Water

518219-004 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	7.0		mg/L	1.0	1	353234	10/18/24	10/20/24	CKN

Sample ID: N069145-005A / MW-21-1024 **Lab ID:** 518219-005 **Collected:** 10/10/24 11:55
Matrix: Water

518219-005 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	6.8		mg/L	1.0	1	353234	10/18/24	10/20/24	CKN

Analysis Results for 518219

Sample ID: N069145-006A / MW-71-035-1024	Lab ID: 518219-006 Matrix: Water	Collected: 10/10/24 11:18
--	---	----------------------------------

518219-006 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	6.0		mg/L	1.0	1	353234	10/18/24	10/20/24	CKN

Sample ID: N069145-007A / MW-78-070-1024	Lab ID: 518219-007 Matrix: Water	Collected: 10/10/24 09:10
--	---	----------------------------------

518219-007 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	2.8		mg/L	1.0	1	353234	10/18/24	10/20/24	CKN

Sample ID: N069145-008A / MW-904-Q424	Lab ID: 518219-008 Matrix: Water	Collected: 10/10/24 09:20
---	---	----------------------------------

518219-008 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	2.6		mg/L	1.0	1	353234	10/18/24	10/20/24	CKN

Sample ID: N069145-009A / MW-78-142-1024	Lab ID: 518219-009 Matrix: Water	Collected: 10/10/24 08:38
--	---	----------------------------------

518219-009 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	1.6		mg/L	1.0	1	353234	10/18/24	10/20/24	CKN

Sample ID: N069145-010A / MW-79-058-1024	Lab ID: 518219-010 Matrix: Water	Collected: 10/10/24 10:16
--	---	----------------------------------

518219-010 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	3.0		mg/L	1.0	1	353234	10/18/24	10/20/24	CKN

Sample ID: N069145-011A / MW-79-102-1024	Lab ID: 518219-011 Matrix: Water	Collected: 10/10/24 09:48
--	---	----------------------------------

518219-011 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	4.5		mg/L	1.0	1	353234	10/18/24	10/20/24	CKN

Analysis Results for 518219

Sample ID: N069145-012A / MW-80-057-1024	Lab ID: 518219-012 Matrix: Water	Collected: 10/10/24 12:39
--	---	----------------------------------

518219-012 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	3.1		mg/L	1.0	1	353234	10/18/24	10/20/24	CKN

Sample ID: N069145-013A / MW-80--082-1024	Lab ID: 518219-013 Matrix: Water	Collected: 10/10/24 12:16
---	---	----------------------------------

518219-013 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	3.5		mg/L	1.0	1	353234	10/18/24	10/20/24	CKN

Sample ID: N069145-014A / MW-26-1024	Lab ID: 518219-014 Matrix: Water	Collected: 10/10/24 10:50
--	---	----------------------------------

518219-014 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	3.0		mg/L	1.0	1	353234	10/18/24	10/20/24	CKN

Sample ID: N069145-015A / MW-51-1024	Lab ID: 518219-015 Matrix: Water	Collected: 10/10/24 11:35
--	---	----------------------------------

518219-015 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	15		mg/L	1.0	1	353234	10/18/24	10/20/24	CKN

Batch QC

Type: Blank	Lab ID: QC1196572	Batch: 353234
Matrix: Water	Method: SM 5310B	Prep Method: SM 5310B

QC1196572 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Total Organic Carbon	ND		mg/L	1.0	10/18/24	10/20/24

Type: Lab Control Sample	Lab ID: QC1196573	Batch: 353234
Matrix: Water	Method: SM 5310B	Prep Method: SM 5310B

QC1196573 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Organic Carbon	24.32	25.00	mg/L	97%		80-120

Type: Matrix Spike	Lab ID: QC1196574	Batch: 353234
Matrix (Source ID): Water (518219-009)	Method: SM 5310B	Prep Method: SM 5310B

QC1196574 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Total Organic Carbon	28.21	1.564	25.00	mg/L	107%		80-120	1

Type: Matrix Spike Duplicate	Lab ID: QC1196575	Batch: 353234
Matrix (Source ID): Water (518219-009)	Method: SM 5310B	Prep Method: SM 5310B

QC1196575 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Total Organic Carbon	28.32	1.564	25.00	mg/L	107%		80-120	0	20	1

ND Not Detected

ARCADIS

Project: PG&E Topock - PCM

Project No.: 30211191

ASSET Laboratories Work Order:

N069146

ANALYTICAL and QC RESULTS SAMPLE RECEIVING ITEMS

PRIVILEGED AND CONFIDENTIAL



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NEVADA
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ASSET Laboratories Work Order: N069146

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November 01, 2024

Laura Madsen
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661
TEL: 1 720 344 3771
FAX:

Workorder No.: N069146

RE: PG&E Topock - PCM, 30211191

Attention: Laura Madsen

Enclosed are the results for sample(s) received on October 10, 2024 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

The reported results relate only to the samples as received and parameters tested by the laboratory.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

 for

Nancy Sibucio
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - Las Vegas.



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CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30211191
Lab Order: N069146

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 218.6:

Dilution was necessary for some samples due to matrix interference. Samples were analyzed at lower dilution however matrix spike recovery and/or retention time criteria were not met indicating possible matrix interference. Samples were reported at dilution that meets matrix spike recovery limit and the detected peak within retention time window.

Analytical Comments for EPA 300:

Dilution was necessary due to precipitation of sample upon addition of eluent.

Analytical Comments for EPA 6020_Dissolved:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Chromium in QC samples N069146-013CMS and N069146-013CMSD since the analyte concentration in the sample is disproportionate to the spike level. Post Spike (PS) passed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.



ASSET Laboratories

Date: 01-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30211191
Lab Order: N069146
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N069146-001A	MW-34-080-1024	Groundwater	10/10/2024 9:22:00 AM	10/10/2024	11/1/2024
N069146-001B	MW-34-080-1024	Groundwater	10/10/2024 9:22:00 AM	10/10/2024	11/1/2024
N069146-001C	MW-34-080-1024	Groundwater	10/10/2024 9:22:00 AM	10/10/2024	11/1/2024
N069146-002A	MW-34-100-1024	Groundwater	10/10/2024 8:59:00 AM	10/10/2024	11/1/2024
N069146-002B	MW-34-100-1024	Groundwater	10/10/2024 8:59:00 AM	10/10/2024	11/1/2024
N069146-002C	MW-34-100-1024	Groundwater	10/10/2024 8:59:00 AM	10/10/2024	11/1/2024
N069146-003A	MW-09-Q424	Groundwater	10/10/2024 12:58:00 PM	10/10/2024	11/1/2024
N069146-003B	MW-09-Q424	Groundwater	10/10/2024 12:58:00 PM	10/10/2024	11/1/2024
N069146-003C	MW-09-Q424	Groundwater	10/10/2024 12:58:00 PM	10/10/2024	11/1/2024
N069146-004A	MW-43-025-EB-Q424	Groundwater	10/10/2024 9:45:00 AM	10/10/2024	11/1/2024
N069146-005A	MW-43-025-Q424	Groundwater	10/10/2024 10:05:00 AM	10/10/2024	11/1/2024
N069146-005B	MW-43-025-Q424	Groundwater	10/10/2024 10:05:00 AM	10/10/2024	11/1/2024
N069146-005C	MW-43-025-Q424	Groundwater	10/10/2024 10:05:00 AM	10/10/2024	11/1/2024
N069146-006A	MW-53S-Q424	Groundwater	10/10/2024 10:32:00 AM	10/10/2024	11/1/2024
N069146-006B	MW-53S-Q424	Groundwater	10/10/2024 10:32:00 AM	10/10/2024	11/1/2024
N069146-006C	MW-53S-Q424	Groundwater	10/10/2024 10:32:00 AM	10/10/2024	11/1/2024
N069146-007A	MW-21-1024	Groundwater	10/10/2024 11:55:00 AM	10/10/2024	11/1/2024
N069146-007B	MW-21-1024	Groundwater	10/10/2024 11:55:00 AM	10/10/2024	11/1/2024
N069146-007C	MW-21-1024	Groundwater	10/10/2024 11:55:00 AM	10/10/2024	11/1/2024
N069146-008A	MW-21-EB-1024	Groundwater	10/10/2024 11:35:00 AM	10/10/2024	11/1/2024
N069146-009A	MW-71-035-1024	Groundwater	10/10/2024 11:18:00 AM	10/10/2024	11/1/2024
N069146-009B	MW-71-035-1024	Groundwater	10/10/2024 11:18:00 AM	10/10/2024	11/1/2024
N069146-009C	MW-71-035-1024	Groundwater	10/10/2024 11:18:00 AM	10/10/2024	11/1/2024
N069146-010A	EB-707-Q424	Groundwater	10/10/2024 1:08:00 PM	10/10/2024	11/1/2024
N069146-011A	MW-78-070-1024	Groundwater	10/10/2024 9:10:00 AM	10/10/2024	11/1/2024
N069146-011B	MW-78-070-1024	Groundwater	10/10/2024 9:10:00 AM	10/10/2024	11/1/2024
N069146-011C	MW-78-070-1024	Groundwater	10/10/2024 9:10:00 AM	10/10/2024	11/1/2024
N069146-012A	MW-904-Q424	Groundwater	10/10/2024 9:20:00 AM	10/10/2024	11/1/2024
N069146-012B	MW-904-Q424	Groundwater	10/10/2024 9:20:00 AM	10/10/2024	11/1/2024



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CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30211191
Lab Order: N069146
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N069146-012C	MW-904-Q424	Groundwater	10/10/2024 9:20:00 AM	10/10/2024	11/1/2024
N069146-013A	MW-78-142-1024	Groundwater	10/10/2024 8:38:00 AM	10/10/2024	11/1/2024
N069146-013B	MW-78-142-1024	Groundwater	10/10/2024 8:38:00 AM	10/10/2024	11/1/2024
N069146-013C	MW-78-142-1024	Groundwater	10/10/2024 8:38:00 AM	10/10/2024	11/1/2024



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ANALYTICAL RESULTS

Print Date: 01-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-001

Client Sample ID: MW-34-080-1024
Collection Date: 10/10/2024 9:22:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241011B	QC Batch: R194216			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.19	1.0	µg/L	5	10/11/2024 10:33 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-002

Client Sample ID: MW-34-100-1024
Collection Date: 10/10/2024 8:59:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241011B QC Batch: R194216 PrepDate: Analyst: RAB
 Hexavalent Chromium ND 0.19 1.0 µg/L 5 10/11/2024 10:52 PM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 01-Nov-24

CLIENT: ARCADIS U.S., Inc. - California	Client Sample ID: MW-09-Q424
Lab Order: N069146	
Project: PG&E Topock - PCM, 30211191	Collection Date: 10/10/2024 12:58:00 PM
Lab ID: N069146-003	Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
				EPA 218.6			
RunID: NV00922-IC7_241012A	QC Batch: R194221			PrepDate:	Analyst: RAB		
Hexavalent Chromium	39	0.19	1.0	µg/L	5	10/12/2024 03:54 PM	
DISSOLVED METALS BY ICP-MS							
				EPA 3010A			
				EPA 6020			
RunID: NV00922-ICP8_241016E	QC Batch: 113224			PrepDate: 10/11/2024	Analyst: DJ		
Chromium	41	0.13	1.0	µg/L	1	10/17/2024 05:04 AM	

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 01-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-004

Client Sample ID: MW-43-025-EB-Q424
Collection Date: 10/10/2024 9:45:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	-----	------	-------	----	---------------

HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241011B	QC Batch: R194216			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	10/11/2024 07:05 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 01-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-005

Client Sample ID: MW-43-025-Q424
Collection Date: 10/10/2024 10:05:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241011B	QC Batch: R194216				PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20		µg/L	1	10/11/2024 07:43 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241016E	QC Batch: 113224				PrepDate: 10/11/2024		Analyst: DJ
Chromium	ND	0.13	1.0		µg/L	1	10/17/2024 05:13 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 01-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-006

Client Sample ID: MW-53S-Q424
Collection Date: 10/10/2024 10:32:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241011B	QC Batch: R194216				PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20		µg/L	1	10/11/2024 08:02 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241016E	QC Batch: 113224				PrepDate: 10/11/2024		Analyst: DJ
Chromium	ND	0.13	1.0		µg/L	1	10/17/2024 05:32 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 01-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-007

Client Sample ID: MW-21-1024
Collection Date: 10/10/2024 11:55:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241012A	QC Batch: R194221			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.19	1.0	µg/L	5	10/12/2024 08:49 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 01-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-008

Client Sample ID: MW-21-EB-1024
Collection Date: 10/10/2024 11:35:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241011B	QC Batch: R194216			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	10/11/2024 08:40 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 01-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-009

Client Sample ID: MW-71-035-1024
Collection Date: 10/10/2024 11:18:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241011B	QC Batch: R194216			PrepDate:		Analyst: RAB
Hexavalent Chromium	2.0	0.039	0.20	µg/L	1	10/11/2024 08:59 PM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 01-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-010

Client Sample ID: EB-707-Q424
Collection Date: 10/10/2024 1:08:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241011B	QC Batch: R194216			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	10/11/2024 09:36 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 01-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-011

Client Sample ID: MW-78-070-1024
Collection Date: 10/10/2024 9:10:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241012A	QC Batch: R194221			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.19	1.0	µg/L	5	10/12/2024 04:13 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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Print Date: 01-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-012

Client Sample ID: MW-904-Q424
Collection Date: 10/10/2024 9:20:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241012A	QC Batch: R194221			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.19	1.0	µg/L	5	10/12/2024 04:51 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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Print Date: 01-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-013

Client Sample ID: MW-78-142-1024
Collection Date: 10/10/2024 8:38:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241011B	QC Batch: R194216			PrepDate:		Analyst: RAB
Hexavalent Chromium	450	3.9	20	µg/L	100	10/11/2024 04:17 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID MB-R194216	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194216							
Client ID: PBW	Batch ID: R194216	TestNo: EPA 218.6		Analysis Date: 10/11/2024	SeqNo: 6228120							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.039	0.20									

Sample ID LCS-R194216	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194216							
Client ID: LCSW	Batch ID: R194216	TestNo: EPA 218.6		Analysis Date: 10/11/2024	SeqNo: 6228121							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.069	0.039	0.20	5.000	0	101	90	110				

Sample ID N069146-013AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194216							
Client ID: ZZZZZ	Batch ID: R194216	TestNo: EPA 218.6		Analysis Date: 10/11/2024	SeqNo: 6228123							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	934.480	3.9	20	500.0	448.9	97.1	90	110				

Sample ID N069146-013AMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194216							
Client ID: ZZZZZ	Batch ID: R194216	TestNo: EPA 218.6		Analysis Date: 10/11/2024	SeqNo: 6228124							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	941.340	3.9	20	500.0	448.9	98.5	90	110	934.5	0.731	20	

Sample ID N069102-001ADUP	SampType: DUP	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194216							
Client ID: ZZZZZ	Batch ID: R194216	TestNo: EPA 218.6		Analysis Date: 10/11/2024	SeqNo: 6228126							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.116	0.039	0.20						1.097	1.74	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069146-004AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194216							
Client ID: ZZZZZZ	Batch ID: R194216	TestNo: EPA 218.6		Analysis Date: 10/11/2024	SeqNo: 6228134							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.010	0.039	0.20	1.000	0	101	90	110				

Sample ID N069146-005AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194216							
Client ID: ZZZZZZ	Batch ID: R194216	TestNo: EPA 218.6		Analysis Date: 10/11/2024	SeqNo: 6228138							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.963	0.039	0.20	1.000	0	96.3	90	110				

Sample ID N069146-006AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194216							
Client ID: ZZZZZZ	Batch ID: R194216	TestNo: EPA 218.6		Analysis Date: 10/11/2024	SeqNo: 6228140							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.963	0.039	0.20	1.000	0	96.3	90	110				

Sample ID N069146-008AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194216							
Client ID: ZZZZZZ	Batch ID: R194216	TestNo: EPA 218.6		Analysis Date: 10/11/2024	SeqNo: 6228142							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.063	0.039	0.20	1.000	0	106	90	110				

Sample ID N069146-009AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194216							
Client ID: ZZZZZZ	Batch ID: R194216	TestNo: EPA 218.6		Analysis Date: 10/11/2024	SeqNo: 6228144							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	7.067	0.039	0.20	5.000	2.003	101	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069146-010AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194216							
Client ID: ZZZZZZ	Batch ID: R194216	TestNo: EPA 218.6		Analysis Date: 10/11/2024	SeqNo: 6228148							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.065	0.039	0.20	1.000	0	106	90	110				

Sample ID N069146-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194216							
Client ID: ZZZZZZ	Batch ID: R194216	TestNo: EPA 218.6		Analysis Date: 10/11/2024	SeqNo: 6228150							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.784	0.19	1.0	5.000	0	95.7	90	110				

Sample ID N069146-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194216							
Client ID: ZZZZZZ	Batch ID: R194216	TestNo: EPA 218.6		Analysis Date: 10/11/2024	SeqNo: 6228152							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.914	0.19	1.0	5.000	0	98.3	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID LCS-R194221	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221							
Client ID: LCSW	Batch ID: R194221	TestNo: EPA 218.6		Analysis Date: 10/12/2024	SeqNo: 6228214							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.405	0.039	0.20	5.000	0	108	90	110				

Sample ID MB-R194221	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221							
Client ID: PBW	Batch ID: R194221	TestNo: EPA 218.6		Analysis Date: 10/12/2024	SeqNo: 6228215							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.039	0.20									

Sample ID N069148-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221							
Client ID: ZZZZZ	Batch ID: R194221	TestNo: EPA 218.6		Analysis Date: 10/12/2024	SeqNo: 6228217							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	190.946	0.77	4.0	100.0	88.11	103	90	110				

Sample ID N069148-001AMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221							
Client ID: ZZZZZ	Batch ID: R194221	TestNo: EPA 218.6		Analysis Date: 10/12/2024	SeqNo: 6228218							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	187.792	0.77	4.0	100.0	88.11	99.7	90	110	190.9	1.67	20	

Sample ID N069103-003ADUP	SampType: DUP	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221							
Client ID: ZZZZZ	Batch ID: R194221	TestNo: EPA 218.6		Analysis Date: 10/12/2024	SeqNo: 6228220							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	19.953	0.19	1.0						19.32	3.21	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069146-007AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221							
Client ID: ZZZZZZ	Batch ID: R194221	TestNo: EPA 218.6		Analysis Date: 10/12/2024	SeqNo: 6228222							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.797	0.19	1.0	5.000	0	95.9	90	110
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Sample ID N069147-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221							
Client ID: ZZZZZZ	Batch ID: R194221	TestNo: EPA 218.6		Analysis Date: 10/12/2024	SeqNo: 6228227							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	3.611	0.039	0.20	1.000	2.585	103	90	110
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Sample ID N069147-006AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221							
Client ID: ZZZZZZ	Batch ID: R194221	TestNo: EPA 218.6		Analysis Date: 10/12/2024	SeqNo: 6228229							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	2.999	0.039	0.20	1.000	2.010	98.9	90	110
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Sample ID N069147-007AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221							
Client ID: ZZZZZZ	Batch ID: R194221	TestNo: EPA 218.6		Analysis Date: 10/12/2024	SeqNo: 6228231							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	1.051	0.039	0.20	1.000	0	105	90	110
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Sample ID N069147-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221							
Client ID: ZZZZZZ	Batch ID: R194221	TestNo: EPA 218.6		Analysis Date: 10/12/2024	SeqNo: 6228235							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.886	0.19	1.0	5.000	0	97.7	90	110
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| (M) Test is modified | | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069147-004AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221							
Client ID: ZZZZZ	Batch ID: R194221	TestNo: EPA 218.6		Analysis Date: 10/12/2024	SeqNo: 6228237							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.216	0.19	1.0	5.000	0	104	90	110				

Sample ID N069147-005AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221							
Client ID: ZZZZZ	Batch ID: R194221	TestNo: EPA 218.6		Analysis Date: 10/12/2024	SeqNo: 6228239							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.185	0.19	1.0	5.000	0	104	90	110				

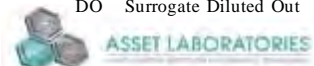
Sample ID N069146-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221							
Client ID: ZZZZZ	Batch ID: R194221	TestNo: EPA 218.6		Analysis Date: 10/12/2024	SeqNo: 6228248							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	64.631	0.19	1.0	25.00	39.37	101	90	110				

Sample ID N069146-011AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221							
Client ID: ZZZZZ	Batch ID: R194221	TestNo: EPA 218.6		Analysis Date: 10/12/2024	SeqNo: 6228250							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.953	0.19	1.0	5.000	0	99.1	90	110				

Sample ID N069146-012AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221							
Client ID: ZZZZZ	Batch ID: R194221	TestNo: EPA 218.6		Analysis Date: 10/12/2024	SeqNo: 6228254							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.947	0.19	1.0	5.000	0	98.9	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| (M) Test is modified | | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID MB-113224	SampType: MBLK	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 10/11/2024	RunNo: 194446							
Client ID: PBW	Batch ID: 113224	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/17/2024	SeqNo: 6244520							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium ND 0.13 1.0

Sample ID LCS-113224	SampType: LCS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 10/11/2024	RunNo: 194446							
Client ID: LCSW	Batch ID: 113224	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/17/2024	SeqNo: 6244521							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 9.793 0.13 1.0 10.00 0 97.9 85 115

Sample ID N069146-013CMS	SampType: MS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 10/11/2024	RunNo: 194926							
Client ID: ZZZZZ	Batch ID: 113224	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/29/2024	SeqNo: 6270683							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 455.822 1.3 10 10.00 470.4 -146 75 125 S

Sample ID N069146-013CMSD	SampType: MSD	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 10/11/2024	RunNo: 194926							
Client ID: ZZZZZ	Batch ID: 113224	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/29/2024	SeqNo: 6270685							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 455.140 1.3 10 10.00 470.4 -153 75 125 455.8 0.150 20 S

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID N069146-013C-PS	SampType: PS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446							
Client ID: ZZZZZZ	Batch ID: 113224	TestNo: EPA 6020	EPA 3010A	Analysis Date: 10/17/2024	SeqNo: 6244548							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	577.710	1.3	10	100.0	470.4	107	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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ICP-MS-Metals in Water

Work Order No.: N069146
Test Method: EPA 6020
Analysis Date: 10/16/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 113224

Instrument ID: NV00922-ICP8 (ICPMS-03)
Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069146-013C DT 5x	Chromium	Cr	µg/L	475.8044	PASS	470.4066	1.15%	10

50X

Nancy 11/1/2024

Note: NA - Not Applicable

11/01/24 14:24

N069146_6020_113224_DT

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 01-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-001

Client Sample ID: MW-34-080-1024
Collection Date: 10/10/2024 9:22:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241011A	QC Batch: R194191				PrepDate:		Analyst: RAB
Sulfate	350	17	25		mg/L	50	10/11/2024 11:08 AM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241011A	QC Batch: R194197				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	10/11/2024 02:24 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-002

Client Sample ID: MW-34-100-1024
Collection Date: 10/10/2024 8:59:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241011A	QC Batch: R194191				PrepDate:		Analyst: RAB
Sulfate	1100	34	50		mg/L	100	10/11/2024 11:25 AM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241011A	QC Batch: R194197				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	10/11/2024 02:40 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 01-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-003

Client Sample ID: MW-09-Q424
Collection Date: 10/10/2024 12:58:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241011A	QC Batch: R194197	PrepDate:	Analyst: RAB
Nitrate as N	10 0.24 0.50	mg/L	10 10/11/2024 11:53 AM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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ANALYTICAL RESULTS

Print Date: 01-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-005

Client Sample ID: MW-43-025-Q424
Collection Date: 10/10/2024 10:05:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241011A	QC Batch: R194197	PrepDate:	Analyst: RAB
Nitrate as N	ND 0.24	0.50	mg/L 10 10/11/2024 12:09 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 01-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-006

Client Sample ID: MW-53S-Q424
Collection Date: 10/10/2024 10:32:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241011A	QC Batch: R194197	PrepDate:	Analyst: RAB
Nitrate as N	ND 0.24	0.50	mg/L 10 10/11/2024 12:25 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-007

Client Sample ID: MW-21-1024
Collection Date: 10/10/2024 11:55:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241011A	QC Batch: R194191				PrepDate:		Analyst: RAB
Sulfate	710	34	50		mg/L	100	10/11/2024 11:41 AM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241011A	QC Batch: R194197				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	10/11/2024 01:13 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-009

Client Sample ID: MW-71-035-1024
Collection Date: 10/10/2024 11:18:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241011A	QC Batch: R194191				PrepDate:		Analyst: RAB
Sulfate	1100	34	50		mg/L	100	10/11/2024 11:57 AM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241011A	QC Batch: R194197				PrepDate:		Analyst: RAB
Nitrate as N	7.8	0.24	0.50		mg/L	10	10/11/2024 01:29 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-011

Client Sample ID: MW-78-070-1024
Collection Date: 10/10/2024 9:10:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241011A	QC Batch: R194191				PrepDate:		Analyst: RAB
Sulfate	290	17	25		mg/L	50	10/11/2024 12:14 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241011A	QC Batch: R194197				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	10/11/2024 01:45 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-012

Client Sample ID: MW-904-Q424
Collection Date: 10/10/2024 9:20:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241011A	QC Batch: R194191				PrepDate:		Analyst: RAB
Sulfate	290	17	25		mg/L	50	10/11/2024 01:02 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241011A	QC Batch: R194197				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	10/11/2024 02:09 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-013

Client Sample ID: MW-78-142-1024
Collection Date: 10/10/2024 8:38:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241011A	QC Batch: R194191				PrepDate:		Analyst: RAB
Sulfate	410	17	25		mg/L	50	10/11/2024 10:19 AM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241011A	QC Batch: R194197				PrepDate:		Analyst: RAB
Nitrate as N	0.64	0.24	0.50		mg/L	10	10/11/2024 10:33 AM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID	MB-R194191_SO4	SampType:	MBLK	TestCode:	300_W_SO4P	Units:	mg/L	Prep Date:		RunNo:	194191			
Client ID:	PBW	Batch ID:	R194191	TestNo:	EPA 300.0			Analysis Date:	10/11/2024	SeqNo:	6227003			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		ND		0.34	0.50									

Sample ID	LCS-R194191_SO4	SampType:	LCS	TestCode:	300_W_SO4P	Units:	mg/L	Prep Date:		RunNo:	194191			
Client ID:	LCSW	Batch ID:	R194191	TestNo:	EPA 300.0			Analysis Date:	10/11/2024	SeqNo:	6227004			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		3.934		0.34	0.50	4.000	0	98.3	90	110				

Sample ID	N069146-013BMS	SampType:	MS	TestCode:	300_W_SO4P	Units:	mg/L	Prep Date:		RunNo:	194191			
Client ID:	ZZZZZ	Batch ID:	R194191	TestNo:	EPA 300.0			Analysis Date:	10/11/2024	SeqNo:	6227006			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		608.455		17	25	200.0	406.3	101	80	120				

Sample ID	N069146-013BMSD	SampType:	MSD	TestCode:	300_W_SO4P	Units:	mg/L	Prep Date:		RunNo:	194191			
Client ID:	ZZZZZ	Batch ID:	R194191	TestNo:	EPA 300.0			Analysis Date:	10/11/2024	SeqNo:	6227007			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		605.435		17	25	200.0	406.3	99.6	80	120	608.5	0.498	20	

Sample ID	N069147-001BDUP	SampType:	DUP	TestCode:	300_W_SO4P	Units:	mg/L	Prep Date:		RunNo:	194191			
Client ID:	ZZZZZ	Batch ID:	R194191	TestNo:	EPA 300.0			Analysis Date:	10/11/2024	SeqNo:	6227022			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		316.150		17	25						318.7	0.811	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID N069147-001BMS	SampType: MS	TestCode: 300_W_SO4P Units: mg/L	Prep Date:	RunNo: 194191								
Client ID: ZZZZZZ	Batch ID: R194191	TestNo: EPA 300.0	Analysis Date: 10/11/2024	SeqNo: 6227023								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	511.375	17	25	200.0	318.7	96.3	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID MB-R194197_NO3	SampType: MBLK	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194197							
Client ID: PBW	Batch ID: R194197	TestNo: EPA 300.0		Analysis Date: 10/11/2024	SeqNo: 6227123							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.024 0.050

Sample ID LCS-R194197_NO3	SampType: LCS	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194197							
Client ID: LCSW	Batch ID: R194197	TestNo: EPA 300.0		Analysis Date: 10/11/2024	SeqNo: 6227124							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 1.263 0.024 0.050 1.250 0 101 90 110

Sample ID N069146-013BMS	SampType: MS	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194197							
Client ID: ZZZZZ	Batch ID: R194197	TestNo: EPA 300.0		Analysis Date: 10/11/2024	SeqNo: 6227126							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 12.587 0.24 0.50 12.50 0.6420 95.6 80 120

Sample ID N069146-013BMSD	SampType: MSD	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194197							
Client ID: ZZZZZ	Batch ID: R194197	TestNo: EPA 300.0		Analysis Date: 10/11/2024	SeqNo: 6227127							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 12.538 0.24 0.50 12.50 0.6420 95.2 80 120 12.59 0.390 20

Sample ID N069147-001BDUP	SampType: DUP	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194197							
Client ID: ZZZZZ	Batch ID: R194197	TestNo: EPA 300.0		Analysis Date: 10/11/2024	SeqNo: 6227147							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.24 0.50 0 0 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID N069147-001BMS	SampType: MS	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194197							
Client ID: ZZZZZZ	Batch ID: R194197	TestNo: EPA 300.0		Analysis Date: 10/11/2024	SeqNo: 6227148							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	12.213	0.24	0.50	12.50	0	97.7	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |



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ANALYTICAL RESULTS

Print Date: 01-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-001

Client Sample ID: MW-34-080-1024
Collection Date: 10/10/2024 9:22:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP4_241011E	QC Batch: 113210			PrepDate:	10/11/2024	Analyst: DJ	
Iron	180	5.8	20		µg/L	1	10/12/2024 01:29 AM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 01-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-002

Client Sample ID: MW-34-100-1024
Collection Date: 10/10/2024 8:59:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP4_241011E	QC Batch: 113210			PrepDate:	10/11/2024	Analyst: DJ	
Iron	87	5.8	20		µg/L	1	10/12/2024 01:32 AM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 01-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-005

Client Sample ID: MW-43-025-Q424
Collection Date: 10/10/2024 10:05:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP4_241011E	QC Batch: 113210			PrepDate:	10/11/2024	Analyst: DJ	
Iron	6800	5.8	20		µg/L	1	10/12/2024 01:34 AM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 01-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-006

Client Sample ID: MW-53S-Q424
Collection Date: 10/10/2024 10:32:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP4_241011E	QC Batch: 113210			PrepDate:	10/11/2024	Analyst: DJ	
Iron	6800	5.8	20		µg/L	1	10/12/2024 01:36 AM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 01-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-007

Client Sample ID: MW-21-1024
Collection Date: 10/10/2024 11:55:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP4_241011E	QC Batch: 113210			PrepDate:	10/11/2024	Analyst: DJ	
Iron	2500	5.8	20		µg/L	1	10/12/2024 01:38 AM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 01-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-009

Client Sample ID: MW-71-035-1024
Collection Date: 10/10/2024 11:18:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP4_241011E	QC Batch: 113210			PrepDate:	10/11/2024	Analyst: DJ	
Iron	ND	5.8	20		µg/L	1	10/12/2024 01:41 AM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 01-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-011

Client Sample ID: MW-78-070-1024
Collection Date: 10/10/2024 9:10:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP4_241011E	QC Batch: 113210			PrepDate:	10/11/2024	Analyst: DJ	
Iron	ND	5.8	20		µg/L	1	10/12/2024 01:43 AM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 01-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-012

Client Sample ID: MW-904-Q424
Collection Date: 10/10/2024 9:20:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP4_241011E	QC Batch: 113210			PrepDate:	10/11/2024	Analyst: DJ	
Iron	ND	5.8	20		µg/L	1	10/12/2024 01:45 AM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 01-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-013

Client Sample ID: MW-78-142-1024
Collection Date: 10/10/2024 8:38:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP4_241011E	QC Batch: 113210			PrepDate:	10/11/2024	Analyst: DJ	
Iron	ND	5.8	20		µg/L	1	10/12/2024 01:52 AM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID MB-113210	SampType: MBLK	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 10/11/2024	RunNo: 194223							
Client ID: PBW	Batch ID: 113210	TestNo: EPA 6010B EPA 3010A		Analysis Date: 10/12/2024	SeqNo: 6229406							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	5.900	5.8	20									

Sample ID LCS-113210	SampType: LCS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 10/11/2024	RunNo: 194223							
Client ID: LCSW	Batch ID: 113210	TestNo: EPA 6010B EPA 3010A		Analysis Date: 10/12/2024	SeqNo: 6229407							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	109.840	5.8	20	100.0	0	110	85	115				

Sample ID N069146-013CMS	SampType: MS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 10/11/2024	RunNo: 194223							
Client ID: ZZZZZ	Batch ID: 113210	TestNo: EPA 6010B EPA 3010A		Analysis Date: 10/12/2024	SeqNo: 6229421							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	115.970	5.8	20	100.0	13.21	103	75	125				

Sample ID N069146-013CMSD	SampType: MSD	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 10/11/2024	RunNo: 194223							
Client ID: ZZZZZ	Batch ID: 113210	TestNo: EPA 6010B EPA 3010A		Analysis Date: 10/12/2024	SeqNo: 6229422							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	121.600	5.8	20	100.0	13.21	108	75	125	116.0	4.74	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

Calculations are based on raw values

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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID N069146-013C-PS	SampType: PS	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223							
Client ID: ZZZZZ	Batch ID: 113210	TestNo: EPA 6010B EPA 3010A		Analysis Date: 10/12/2024	SeqNo: 6229420							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	120.230	5.8	20	100.0	13.21	107	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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ICP-Metals in Water

Work Order No.: N069146
Test Method: EPA 6010B
Analysis Date: 10/12/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 113210

Instrument ID: NV00922-ICP4
Instrument Description: Agilent 5800VDV

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Fe. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069146-013C DT 5x	Iron	Fe	µg/L	0	NA	13.21	100.00%	10

REVIEWED BY:



10/28/2024

Note: NA - Not Applicable

10/28/24 20:01

N069146_6010B_113210_DT

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 01-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-001

Client Sample ID: MW-34-080-1024
Collection Date: 10/10/2024 9:22:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241016D	QC Batch:	113224	PrepDate:	10/11/2024	Analyst:	DJ
Arsenic	1.5	0.067	0.10	µg/L	1	10/17/2024 04:54 AM	
Barium	46	0.050	1.0	µg/L	1	10/17/2024 04:54 AM	
Manganese	120	0.046	0.50	µg/L	1	10/17/2024 04:54 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 01-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-002

Client Sample ID: MW-34-100-1024
Collection Date: 10/10/2024 8:59:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241016D	QC Batch:	113224	PrepDate:	10/11/2024	Analyst:	DJ
Arsenic	1.4	0.067	0.10	µg/L	1	10/17/2024	04:59 AM
Barium	20	0.050	1.0	µg/L	1	10/17/2024	04:59 AM
Manganese	47	0.046	0.50	µg/L	1	10/17/2024	04:59 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-003

Client Sample ID: MW-09-Q424
Collection Date: 10/10/2024 12:58:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241027B	QC Batch:	113224	PrepDate:	10/11/2024	Analyst:	DJ
Arsenic	2.4	0.067	0.10	µg/L	1	10/28/2024	06:30 AM
Manganese	1.6	0.046	0.50	µg/L	1	10/17/2024	05:04 AM
Molybdenum	4.0	0.063	0.50	µg/L	1	10/17/2024	05:04 AM
Selenium	3.9	0.29	0.50	µg/L	1	10/17/2024	05:04 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 01-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-005

Client Sample ID: MW-43-025-Q424
Collection Date: 10/10/2024 10:05:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241016D	QC Batch:	113224	PrepDate:	10/11/2024	Analyst:	DJ
Arsenic	30	0.067	0.10	µg/L	1	10/17/2024	05:13 AM
Barium	110	0.050	1.0	µg/L	1	10/17/2024	05:13 AM
Manganese	550	0.46	5.0	µg/L	10	10/17/2024	05:18 AM
Molybdenum	6.5	0.063	0.50	µg/L	1	10/17/2024	05:13 AM
Selenium	ND	0.29	0.50	µg/L	1	10/17/2024	05:13 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 01-Nov-24

CLIENT:	ARCADIS U.S., Inc. - California	Client Sample ID:	MW-53S-Q424
Lab Order:	N069146		
Project:	PG&E Topock - PCM, 30211191	Collection Date:	10/10/2024 10:32:00 AM
Lab ID:	N069146-006	Matrix:	GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241016D	QC Batch: 113224			PrepDate: 10/11/2024		Analyst: DJ
Arsenic	ND	0.067	0.10	µg/L	1	10/17/2024 05:32 AM
Barium	320	0.50	10	µg/L	10	10/17/2024 05:36 AM
Manganese	1700	0.46	5.0	µg/L	10	10/17/2024 05:36 AM
Molybdenum	1.4	0.063	0.50	µg/L	1	10/17/2024 05:32 AM
Selenium	ND	0.29	0.50	µg/L	1	10/17/2024 05:32 AM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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ANALYTICAL RESULTS

Print Date: 01-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-007

Client Sample ID: MW-21-1024
Collection Date: 10/10/2024 11:55:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241016D	QC Batch:	113224	PrepDate:	10/11/2024	Analyst:	DJ
Arsenic	4.6	0.067	0.10	µg/L	1	10/17/2024 05:41 AM	
Barium	88	0.050	1.0	µg/L	1	10/17/2024 05:41 AM	
Manganese	810	0.46	5.0	µg/L	10	10/28/2024 06:24 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-009

Client Sample ID: MW-71-035-1024
Collection Date: 10/10/2024 11:18:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241016D	QC Batch: 113224			PrepDate: 10/11/2024		Analyst: DJ	
Arsenic	1.6	0.067	0.10	µg/L	1	10/17/2024 05:50 AM	
Barium	45	0.050	1.0	µg/L	1	10/17/2024 05:50 AM	
Manganese	4.9	0.046	0.50	µg/L	1	10/17/2024 05:50 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 01-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-011

Client Sample ID: MW-78-070-1024
Collection Date: 10/10/2024 9:10:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241016D	QC Batch:	113224	PrepDate:	10/11/2024	Analyst:	DJ
Arsenic	1.0	0.067	0.10	µg/L	1	10/17/2024	05:55 AM
Barium	120	0.050	1.0	µg/L	1	10/17/2024	05:55 AM
Manganese	420	0.46	5.0	µg/L	10	10/17/2024	06:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-012

Client Sample ID: MW-904-Q424
Collection Date: 10/10/2024 9:20:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241016D	QC Batch:	113224	PrepDate:	10/11/2024	Analyst:	DJ
Arsenic	1.1	0.067	0.10	µg/L	1	10/17/2024 06:04 AM	
Barium	110	0.050	1.0	µg/L	1	10/17/2024 06:04 AM	
Manganese	290	0.46	5.0	µg/L	10	10/17/2024 06:09 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 01-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069146
Project: PG&E Topock - PCM, 30211191
Lab ID: N069146-013

Client Sample ID: MW-78-142-1024
Collection Date: 10/10/2024 8:38:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241016D	QC Batch:	113224	PrepDate:	10/11/2024	Analyst:	DJ
Arsenic	3.4	0.067	0.10	µg/L	1	10/17/2024	06:23 AM
Barium	29	0.050	1.0	µg/L	1	10/17/2024	06:23 AM
Manganese	6.8	0.046	0.50	µg/L	1	10/17/2024	06:23 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



ASSET LABORATORIES

CALIFORNIA | P:562.219.7435 F:562.219.7436
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703
 ELAP Cert 2921
 NV Cert CA01638

NEVADA | P:702.307.2659 F:702.307.2691
 3151 W. Post Rd., Las Vegas, NV 89118
 ELAP Cert 2676 | NV Cert NV00922
 ORELAP Cert 4046

“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID MB-113224	SampType: MBLK	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/11/2024	RunNo: 194443							
Client ID: PBW	Batch ID: 113224	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/17/2024	SeqNo: 6244151							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.067	0.10									
Barium	ND	0.050	1.0									
Manganese	ND	0.046	0.50									
Molybdenum	ND	0.063	0.50									
Selenium	ND	0.29	0.50									

Sample ID LCS-113224	SampType: LCS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/11/2024	RunNo: 194443							
Client ID: LCSW	Batch ID: 113224	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/17/2024	SeqNo: 6244152							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.125	0.067	0.10	10.00	0	91.2	85	115				
Barium	10.650	0.050	1.0	10.00	0	106	85	115				
Manganese	97.698	0.046	0.50	100.0	0	97.7	85	115				
Molybdenum	9.838	0.063	0.50	10.00	0	98.4	85	115				
Selenium	9.904	0.29	0.50	10.00	0	99.0	85	115				

Sample ID N069146-013CMS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/11/2024	RunNo: 194443							
Client ID: ZZZZZ	Batch ID: 113224	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/17/2024	SeqNo: 6244180							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	13.594	0.067	0.10	10.00	3.417	102	75	125				
Barium	39.676	0.050	1.0	10.00	29.24	104	75	125				
Manganese	95.549	0.046	0.50	100.0	6.819	88.7	75	125				
Molybdenum	23.924	0.063	0.50	10.00	13.59	103	75	125				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

Calculations are based on raw values



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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID N069146-013CMSD SampType: MSD TestCode: 6020_DIS_TP Units: µg/L Prep Date: 10/11/2024 RunNo: 194443												
Client ID: ZZZZZZ Batch ID: 113224 TestNo: EPA 6020 EPA 3010A Analysis Date: 10/17/2024 SeqNo: 6244182												
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	13.392	0.067	0.10	10.00	3.417	99.8	75	125	13.59	1.50	20	
Barium	38.865	0.050	1.0	10.00	29.24	96.3	75	125	39.68	2.06	20	
Manganese	95.933	0.046	0.50	100.0	6.819	89.1	75	125	95.55	0.401	20	
Molybdenum	23.933	0.063	0.50	10.00	13.59	103	75	125	23.92	0.0371	20	

Sample ID N069146-013CMS SampType: MS TestCode: 6020_DIS_TP Units: µg/L Prep Date: 10/11/2024 RunNo: 194443												
Client ID: ZZZZZZ Batch ID: 113224 TestNo: EPA 6020 EPA 3010A Analysis Date: 10/17/2024 SeqNo: 6272717												
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	11.418	0.29	0.50	10.00	1.732	96.9	75	125				

Sample ID N069146-013CMSD SampType: MSD TestCode: 6020_DIS_TP Units: µg/L Prep Date: 10/11/2024 RunNo: 194443												
Client ID: ZZZZZZ Batch ID: 113224 TestNo: EPA 6020 EPA 3010A Analysis Date: 10/17/2024 SeqNo: 6272719												
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	12.294	0.29	0.50	10.00	1.732	106	75	125	11.42	7.39	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



ASSET LABORATORIES

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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID N069146-013C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443							
Client ID: ZZZZZZ	Batch ID: 113224	TestNo: EPA 6020	EPA 3010A	Analysis Date: 10/17/2024	SeqNo: 6244178							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	13.330	0.067	0.10	10.00	3.417	99.1	80	120				
Barium	39.365	0.050	1.0	10.00	29.24	101	80	120				
Manganese	95.908	0.046	0.50	100.0	6.819	89.1	80	120				
Molybdenum	24.183	0.063	0.50	10.00	13.59	106	80	120				

Sample ID N069146-013C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443							
Client ID: ZZZZZZ	Batch ID: 113224	TestNo: EPA 6020	EPA 3010A	Analysis Date: 10/17/2024	SeqNo: 6272715							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	11.613	0.29	0.50	10.00	1.732	98.8	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N069146
 Test Method: EPA 6020
 Analysis Date: 10/16/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 113224

Instrument ID: NV00922-ICP8 (ICPMS-03)
 Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Mn. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069146-013C DT 5x	Arsenic	As	µg/L	3.207192	PASS	3.41695	6.14%	10
N069146-013C DT 5x	Barium	Ba	µg/L	29.39423	PASS	29.23634	0.54%	10
N069146-013C DT 5x	Manganese	Mn	µg/L	6.952814	NA	6.818849	1.96%	10
N069146-013C DT 5x	Molybdenum	Mo	µg/L	13.17971	PASS	13.59022	3.02%	10

ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N069146
 Test Method: EPA 6020
 Analysis Date: 10/16/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 113224

Instrument ID: NV00922-ICP8 (ICPMS-03)
 Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Se. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069146-013C DT 5x	Selenium	Se	µg/L	1.454847	NA	1.732162	16.01%	10

SAMPLE RECEIVING ITEMS



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”



Client: Arcadis		Report to: Laura Madsen		Bill to: Janet Newman		EDD R:	
Address: 630 Plaza Dr, Suite 200		Company: Arcadis		Address:		Excel EDD	
Address: Highlands Ranch, CO 80129		Email: laura.madsen@arcadiv.com		Address:		GeoTracker	
Phone: 720-344-3500		Address:		Email to: janet.newman@arcadiv.com		Labspec	
Fax:		Address:		P.O.#		Others	
Submitted By: <i>Riggo T.</i>		Phone: 949 293-2445		Fax:		Specify:	
Title: <i>Field Tech</i>		Phone: 720-344-3771		Fax:		RWQCB	
Signature: <i>Riggo T.</i>		Date: <i>10/10/24</i>		Global ID:		Regulatory	
I hereby authorize ASSET Labs to perform the tests indicated below.		I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for		Sample Temp: <i>3.5c/3.4c/4.5c</i>		Specify State:	

Project Name: PG&E Topock - PCM		Signature: <i>Riggo T.</i>		Date: <i>10/10/24</i>		Sample Temp: <i>3.5c/3.4c/4.5c</i>	
Project Number: 30211191		Signature: <i>Riggo T.</i>		Date: <i>10/10/24</i>		Courier: <i>Asset</i>	
Matrix		Ground		X Sediment		Tracking No.:	
Potable		Soil		Other Solid		Remarks:	
NPDES		Surface		Others		Remarks:	

Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH	Nitrate as N, sulfate (EPA 300.0)	Dissolved metals (SW6020) FF: HNO3 Arsenic, Iron, Barium, Manganese	Dissolved metals (SW6020) FF: HNO3 Total Dissolved Chromium,	Dissolved metals (SW6020) FF: HNO3 Molybdenum, Selenium	Total Organic Carbon (SM5310C); H2SO4	Dissolved metals (SW6020) FF: HNO3 Arsenic, Manganese	Ammonia as Nitrogen (SM4500NH3); H2SO4	Nitrate as N (EPA 300.0)	Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
1	N069146-001	MW-34-080-1024	10/10/2024	9:22		X	X	X							E	3	P	BNS	
2	-002	MW-34-100-1024	10/10/2024	8:59		X	X	X							E	3	P	BNS	
3	-003	MW-09-Q424	10/10/2024	12:58		X			X	X		X			E	3	P	BNS	
4	-004	MW-43-025-EB-Q424	10/10/2024	9:45		X								X	E	1	P	BNS	
5	-005	MW-43-025-Q424	10/10/2024	10:05		X		X	X	X					E	3	P	BNS	
6	-006	MW-535-Q424	10/10/2024	10:32		X		X	X	X					E	3	P	BNS	
7	-007	MW-21-1024	10/10/2024	11:55		X	X	X							E	3	P	BNS	
8	-008	MW-21-EB-1024	10/10/2024	11:35		X									E	1	P	BNS	
9	-009	MW-71-035-1024	10/10/2024	11:18		X	X	X							E	3	P	BNS	
10	-010	EB-707-Q424	10/10/2024	13:08		X									E	3	P	BNS	
11	-011	MW-78-070-1024	10/10/2024	9:10		X	X	X							E	3	P	BNS	
12	-012	MW-904-Q424	10/10/2024	9:20		X	X	X							E	3	P	BNS	
13	-013	MW-78-142-1024	10/10/2024	8:38		X	X	X							E	3	P	BNS	MSMSD
14															E	3	P	BNS	

Relinquished by (Signature and Printed Name): <i>Riggo T.</i>	Date/Time: <i>10/10/24 1608</i>	Relinquished by (Signature and Printed Name): <i>Dr. Ernesto Hernandez</i>	Date/Time: <i>10/10/24 1608</i>	Turn Around Time (TAT):	Special Instruction:
Relinquished by (Signature and Printed Name): <i>Dr. Ernesto Hernandez</i>	Date/Time: <i>10/10/24 1800</i>	Relinquished by (Signature and Printed Name): <i>Dr. Ernesto Hernandez</i>	Date/Time: <i>10/10/24 1800</i>	<input type="checkbox"/> A < 24 Hrs or Same Day TAT <input type="checkbox"/> B = Next Workday <input type="checkbox"/> C = 2 Workdays <input type="checkbox"/> D = 3 Workdays <input checked="" type="checkbox"/> E = Routine 5-7 Workdays	
Relinquished by (Signature and Printed Name):	Date/Time:	Relinquished by (Signature and Printed Name):	Date/Time:	TAT Starts at 8 AM the following day if samples received after 3:00PM.	

Terms		5. Trip Blanks and Equipment Blanks are billable sample.		Preservatives:		Container Type:	
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.		6. Asset Laboratories is not responsible for samples collected using incorrect methodology.		H=HCL		T=Tube	
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis.		7. Terms are net 30 days.		N=HNO3		V=VOA	
3. Less than 24 Hrs. -200% Next Day=100% 2 Workdays=50% 3 Workdays=35% 4 Workdays=20%		8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.		S=H2SO4		P=Pin	
4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project.		9. For subcontract analysis, TAT and Surcharges will vary.		C=4°C		G=Glass	
				Z=Zn(AC)2		J=Jar	
				O=NaOH		M=Metal	
				T=Na2S2O3		C=Can	
				Others/Specify: B (NH4)2SO4/NH4OH			

White=Laboratory Copy

Yellow=Customer's Copy

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

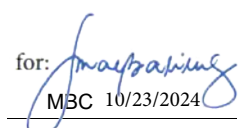
Cooler Received/Opened On: 10/10/2024 Workorder: N069146
 Rep sample Temp (Deg C): 3.5/3.4/4.5 IR Gun ID: 4
 Temp Blank: Yes No
 Carrier name: ASSET
 Last 4 digits of Tracking No.: NA Packing Material Used: None
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

- | | | | |
|---|---|-----------------------------|---|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 14. Water - pH acceptable upon receipt?
Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 15. Did the bottle labels indicate correct preservatives used? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 16. Were there Non-Conformance issues at login?
Was Client notified? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

Comments:

Checklist Completed By: EF Fanegof 10/11/2024

Reviewed By: for: 
M3C 10/23/2024

ASSET Laboratories

WORK ORDER Summary

11-Oct-24

WorkOrder: N069146

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30211191

QC Level: Level IV

Date Received: 10/10/2024 6:00 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N069146-001A	MW-34-080-1024	10/10/2024 9:22:00 AM	10/25/2024	Groundwater	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069146-001B			10/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069146-001C			10/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069146-002A	MW-34-100-1024	10/10/2024 8:59:00 AM	10/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069146-002B			10/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069146-002C			10/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069146-003A	MW-09-Q424	10/10/2024 12:58:00 PM	10/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069146-003B			10/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069146-003C			10/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069146-004A	MW-43-025-EB-Q424	10/10/2024 9:45:00 AM	10/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069146-005A	MW-43-025-Q424	10/10/2024 10:05:00 AM	10/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069146-005B			10/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

11-Oct-24

WorkOrder: N069146

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30211191

QC Level: Level IV

Date Received: 10/10/2024 6:00 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N069146-005B	MW-43-025-Q424	10/10/2024 10:05:00 AM	10/25/2024	Groundwater	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069146-005C			10/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069146-006A	MW-53S-Q424	10/10/2024 10:32:00 AM	10/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069146-006B			10/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069146-006C			10/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069146-007A	MW-21-1024	10/10/2024 11:55:00 AM	10/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069146-007B			10/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069146-007C			10/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069146-008A	MW-21-EB-1024	10/10/2024 11:35:00 AM	10/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069146-009A	MW-71-035-1024	10/10/2024 11:18:00 AM	10/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069146-009B			10/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

11-Oct-24

WorkOrder: N069146

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30211191

QC Level: Level IV

Date Received: 10/10/2024 6:00 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N069146-009B	MW-71-035-1024	10/10/2024 11:18:00 AM	10/25/2024	Groundwater	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069146-009C			10/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069146-010A	EB-707-Q424	10/10/2024 1:08:00 PM	10/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069146-011A	MW-78-070-1024	10/10/2024 9:10:00 AM	10/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069146-011B			10/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069146-011C			10/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069146-012A	MW-904-Q424	10/10/2024 9:20:00 AM	10/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069146-012B			10/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069146-012C			10/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069146-013A	MW-78-142-1024	10/10/2024 8:38:00 AM	10/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
N069146-013B			10/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

11-Oct-24

WorkOrder: N069146

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30211191

QC Level: Level IV

Date Received: 10/10/2024 6:00 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N069146-013B	MW-78-142-1024	10/10/2024 8:38:00 AM	10/25/2024	Groundwater	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
N069146-013C			10/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
N069146-014A	FOLDER	10/25/2024	10/25/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			10/25/2024		Folder	Level IV Report	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			10/25/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

List of Analysts

ASSET Laboratories Work Order: N069146

NAME	TEST METHOD
Ria Abes	EPA 218.6, EPA 300.0
Diane Jetajobe	EPA 6010B_Dissolved, EPA 6020_Dissolved



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EPA 218.6



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IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
REV 2.0
011416

QC Batch Number: R194216
ASSET #: N069146

Instrument ID: NV00922-IC7
Analyst: RBA
Date Analyzed: 10/11/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria? (r = 0.995, r = 0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)	X			X		
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?	X			X		
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?	X			X		
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)	X			X		
14. For Hinkley DOM samples, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?	X					X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?	X			X		
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)	X			X		
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments: **Dilution was necessary for some samples due to matrix interference.**

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA

Date: _____

2nd Level Reviewer d/Rocha 10/24/2024

Date: _____



IC Technical Batch Review Checklist (ARCUS02)

ASSET LABORATORIES - LAS VEGAS

IC ARCUS
REV 2.0
011416

QC Batch Number: R194221
ASSET #: N069146

Instrument ID: NV00922-IC7
Analyst: RBA
Date Analyzed: 10/12/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria? (r = 0.995, r = 0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)	X			X		
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X	X	
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?	X			X		
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?	X			X		
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)	X			X		
14. For Hinkley DOM samples, matrix spike protocol performed on all samples ? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?	X			X		
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?	X					X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed ?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)	X			X		
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments: Detection of Cr6+ in CCB4 is >0.02ppb criteria. However, sample affected is >10X the calibration blank detection. **and non-detect.**

Dilution was necessary for some samples due to matrix interference.

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA

Date: _____

2nd Level Reviewer MRecha 10/24/2024

Date: _____

SAMPLE CALCULATION



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Sample Calculation

METHOD: EPA 218.6
TEST NAME: HEXAVALENT CHROMIUM BY IC
MATRIX: Groundwater

FORMULA:

Calculate the Hexavalent Chromium concentration, in $\mu\text{g/L}$, in the original sample as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = A * \text{DF}$$

where:

A = $\mu\text{g/L}$, IC Cr+6 calculated concentration
DF = dilution factor

For Sample **N069146-003A** , the concentration in $\mu\text{g/L}$ is calculated as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = 7.8739 * 5$$

$$\text{Cr}^{+6}, \mu\text{g/L} = 39.3695$$

Reporting results in two significant figures,

$$\text{Cr}^{+6}, \mu\text{g/L} = 39$$

Reviewed by:

MRecha 11/13/2024

ANALYSIS RUN LOG



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INJECTION LOG: 241001A**Instrument ID: NV00922-IC7**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/01/24 10:06 AM	Not Reported
2	BLANK	BLANK	1	Hexavalent Chromium	10/01/24 10:20 AM	Not Reported
3	iBLANK	iBLANK	1	Hexavalent Chromium	10/01/24 10:29 AM	Reported
4	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:39 AM	Reported
5	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:48 AM	Reported
6	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:58 AM	Reported
7	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:07 AM	Reported
8	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:17 AM	Reported
9	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:26 AM	Reported
10	ICV	ICV	1	Hexavalent Chromium	10/01/24 11:38 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/01/24 11:48 AM	Reported
12	ICB	ICB	1	Hexavalent Chromium	10/01/24 11:57 AM	Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241001A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	01/Oct/24 12:28:25
No. of Injections:	15	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/01/2024 10:06	Finished	BLANK
2	BLANK	2	1000	Unknown		10/01/2024 10:20	Finished	BLANK
3	iBLANK	3	1000	Unknown		10/01/2024 10:29	Finished	INSTRUMENT BLANK
4	STD1-0.2 ppb	4	1000	Calibration Standard	01	10/01/2024 10:39	Finished	0.2 ppb, IWST-240729A, 2uL>
5	STD2-1.0 ppb	5	1000	Calibration Standard	02	10/01/2024 10:48	Finished	1.0 ppb, IWST-240729A, 10uL>
6	STD3-5.0 ppb	6	1000	Calibration Standard	03	10/01/2024 10:58	Finished	5.0 ppb, IWST-240729A, 50uL>
7	STD4-10.0 ppb	7	1000	Calibration Standard	04	10/01/2024 11:07	Finished	10 ppb, IWST-240729A, 100uL>
8	STD5-15.0 ppb	8	1000	Calibration Standard	05	10/01/2024 11:17	Finished	15 ppb, IWST-240729A, 150uL>
9	STD6-20.0 ppb	9	1000	Calibration Standard	06	10/01/2024 11:26	Finished	20 ppb, IWST-240729A, 200uL>
10	ICV,ICV,1,	10	1000	Unknown		10/01/2024 11:38	Finished	ICV @5ppb, IWST-240729B
11	PQL@0.2ppb,CCV2,	11	1000	Unknown		10/01/2024 11:48	Finished	PQL @ 0.2ppb
12	ICB,ICB,1	12	1000	Unknown		10/01/2024 11:57	Finished	ICB R240708C
13	SHUTDOWN	22	1000	Unknown		n.a.	Finished	
14	Eluent: R240930A	23	1000	Unknown		n.a.	Finished	
15	PCR: R240930B	24	1000	Unknown		n.a.	Finished	

INJECTION LOG: 241011A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/01/24 10:06 AM	Not Reported
2	BLANK	BLANK	1	Hexavalent Chromium	10/01/24 10:20 AM	Not Reported
3	iBLANK	iBLANK	1	Hexavalent Chromium	10/01/24 10:29 AM	Reported
4	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:39 AM	Reported
5	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:48 AM	Reported
6	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:58 AM	Reported
7	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:07 AM	Reported
8	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:17 AM	Reported
9	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:26 AM	Reported
10	BLANK	BLANK	1	Hexavalent Chromium	10/11/24 9:13 AM	Not Reported
11	CCV-1	CCV	1	Hexavalent Chromium	10/11/24 9:26 AM	Reported
12	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/11/24 9:35 AM	NOT Reported
13	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/11/24 9:52 AM	Reported
14	CCB-1	CCB	1	Hexavalent Chromium	10/11/24 10:03 AM	Reported
15	MB-R194215	MBLK	1	Hexavalent Chromium	10/11/24 10:12 AM	Reported
16	LCS-R194215	LCS	1	Hexavalent Chromium	10/11/24 10:22 AM	Reported
17	N069105-005A	SAMP	5	Hexavalent Chromium	10/11/24 10:35 AM	Reported
18	N069105-005AMS	MS	5	Hexavalent Chromium	10/11/24 10:46 AM	Reported
19	N069105-011A	SAMP	5	Hexavalent Chromium	10/11/24 10:56 AM	Reported
20	N069105-011AMS	MS	5	Hexavalent Chromium	10/11/24 11:05 AM	Reported
21	N069105-012A	SAMP	5	Hexavalent Chromium	10/11/24 11:15 AM	Reported
22	N069105-012AMS	MS	5	Hexavalent Chromium	10/11/24 11:24 AM	Reported
23	N069105-007A	SAMP	1	Hexavalent Chromium	10/11/24 11:33 AM	Reported
24	N069105-007AMS	MS	1	Hexavalent Chromium	10/11/24 11:43 AM	Reported
25	CCV-2	CCV1	1	Hexavalent Chromium	10/11/24 11:52 AM	Reported
26	CCB-2	CCB	1	Hexavalent Chromium	10/11/24 12:02 PM	Reported
27	N069062-001A	SAMP	1	Hexavalent Chromium	10/11/24 12:11 PM	Reported
28	N069062-001AMS	MS	1	Hexavalent Chromium	10/11/24 12:21 PM	Reported
29	N069062-002A	SAMP	1	Hexavalent Chromium	10/11/24 12:30 PM	Reported
30	N069062-002AMS	MS	1	Hexavalent Chromium	10/11/24 12:40 PM	Reported
31	N069062-003A	SAMP	1	Hexavalent Chromium	10/11/24 12:49 PM	Reported
32	N069062-003AMS	MS	1	Hexavalent Chromium	10/11/24 12:59 PM	Reported
33	N069103-010A	SAMP	1	Hexavalent Chromium	10/11/24 1:08 PM	Reported
34	N069103-012A	SAMP	1	Hexavalent Chromium	10/11/24 1:18 PM	Reported
35	N069103-013A	SAMP	1	Hexavalent Chromium	10/11/24 1:27 PM	Reported
36	N069103-014A	SAMP	1	Hexavalent Chromium	10/11/24 1:36 PM	Reported
37	CCV-3	CCV	1	Hexavalent Chromium	10/11/24 1:46 PM	Reported
38	CCB-3	CCB	1	Hexavalent Chromium	10/11/24 1:55 PM	Reported
39	N069103-015A	SAMP	1	Hexavalent Chromium	10/11/24 2:05 PM	Reported
40	N069103-016A	SAMP	1	Hexavalent Chromium	10/11/24 2:14 PM	Reported
41	N069103-017A	SAMP	1	Hexavalent Chromium	10/11/24 2:24 PM	Reported
42	N069101-002A	SAMP	1	Hexavalent Chromium	10/11/24 2:33 PM	Reported

INJECTION LOG: 241011A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069101-003A	SAMP	1	Hexavalent Chromium	10/11/24 2:43 PM	Reported
44	N069101-004A	SAMP	1	Hexavalent Chromium	10/11/24 2:52 PM	Reported
45	N069101-005A	SAMP	1	Hexavalent Chromium	10/11/24 3:02 PM	Reported
46	N069101-006A	SAMP	1	Hexavalent Chromium	10/11/24 3:11 PM	Reported
47	N069105-011AMSD	MSD	5	Hexavalent Chromium	10/11/24 3:21 PM	Reported
48	CCV-4	CCV1	1	Hexavalent Chromium	10/11/24 3:30 PM	Reported
49	CCB-4	CCB	1	Hexavalent Chromium	10/11/24 3:39 PM	Reported
50	N069103-010ADUP	DUP	1	Hexavalent Chromium	10/11/24 3:49 PM	Reported
51	MB-R194216	MBLK	1	Hexavalent Chromium	10/11/24 3:58 PM	Reported
52	LCS-R194216	LCS	1	Hexavalent Chromium	10/11/24 4:08 PM	Reported
53	N069146-013A	SAMP	100	Hexavalent Chromium	10/11/24 4:17 PM	Reported
54	N069146-013AMS	MS	100	Hexavalent Chromium	10/11/24 4:32 PM	Reported
55	N069146-013AMSD	MSD	100	Hexavalent Chromium	10/11/24 4:43 PM	Reported
56	N069102-001A	SAMP	1	Hexavalent Chromium	10/11/24 4:53 PM	Reported
57	N069102-001ADUP	DUP	1	Hexavalent Chromium	10/11/24 5:02 PM	Reported
58	N069102-002A	SAMP	1	Hexavalent Chromium	10/11/24 5:12 PM	Reported
59	N069102-003A	SAMP	1	Hexavalent Chromium	10/11/24 5:21 PM	Reported
60	CCV-5	CCV	1	Hexavalent Chromium	10/11/24 5:30 PM	Reported
61	CCB-5	CCB	1	Hexavalent Chromium	10/11/24 5:40 PM	Reported
62	N069102-004A	SAMP	1	Hexavalent Chromium	10/11/24 5:49 PM	Reported
63	N069102-005A	SAMP	1	Hexavalent Chromium	10/11/24 5:59 PM	Reported
64	N069146-001A	SAMP	1	Hexavalent Chromium	10/11/24 6:08 PM	Not Reported
65	N069146-001AMS	MS	1	Hexavalent Chromium	10/11/24 6:18 PM	Not Reported
66	N069146-002A	SAMP	1	Hexavalent Chromium	10/11/24 6:27 PM	Not Reported
67	N069146-002AMS	MS	1	Hexavalent Chromium	10/11/24 6:37 PM	Not Reported
68	N069146-003A	SAMP	1	Hexavalent Chromium	10/11/24 6:46 PM	Not Reported
69	N069146-003AMS	MS	1	Hexavalent Chromium	10/11/24 6:56 PM	Not Reported
70	N069146-004A	SAMP	1	Hexavalent Chromium	10/11/24 7:05 PM	Reported
71	N069146-004AMS	MS	1	Hexavalent Chromium	10/11/24 7:15 PM	Reported
72	CCV-6	CCV1	1	Hexavalent Chromium	10/11/24 7:24 PM	Reported
73	CCB-6	CCB	1	Hexavalent Chromium	10/11/24 7:33 PM	Reported
74	N069146-005A	SAMP	1	Hexavalent Chromium	10/11/24 7:43 PM	Reported
75	N069146-005AMS	MS	1	Hexavalent Chromium	10/11/24 7:52 PM	Reported
76	N069146-006A	SAMP	1	Hexavalent Chromium	10/11/24 8:02 PM	Reported
77	N069146-006AMS	MS	1	Hexavalent Chromium	10/11/24 8:11 PM	Reported
78	N069146-007A	SAMP	1	Hexavalent Chromium	10/11/24 8:21 PM	Not Reported
79	N069146-007AMS	MS	1	Hexavalent Chromium	10/11/24 8:30 PM	Not Reported
80	N069146-008A	SAMP	1	Hexavalent Chromium	10/11/24 8:40 PM	Reported
81	N069146-008AMS	MS	1	Hexavalent Chromium	10/11/24 8:49 PM	Reported
82	N069146-009A	SAMP	1	Hexavalent Chromium	10/11/24 8:59 PM	Reported
83	N069146-009AMS	MS	1	Hexavalent Chromium	10/11/24 9:08 PM	Reported
84	CCV-7	CCV	1	Hexavalent Chromium	10/11/24 9:18 PM	Reported

INJECTION LOG: 241011A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	CCB-7	CCB	1	Hexavalent Chromium	10/11/24 9:27 PM	Reported
86	N069146-010A	SAMP	1	Hexavalent Chromium	10/11/24 9:36 PM	Reported
87	N069146-010AMS	MS	1	Hexavalent Chromium	10/11/24 9:46 PM	Reported
88	N069146-011A	SAMP	1	Hexavalent Chromium	10/11/24 9:55 PM	Not Reported
89	N069146-011AMS	MS	1	Hexavalent Chromium	10/11/24 10:05 PM	Not Reported
90	N069146-012A	SAMP	1	Hexavalent Chromium	10/11/24 10:14 PM	Not Reported
91	N069146-012AMS	MS	1	Hexavalent Chromium	10/11/24 10:24 PM	Not Reported
92	N069146-001A	SAMP	5	Hexavalent Chromium	10/11/24 10:33 PM	Reported
93	N069146-001AMS	MS	5	Hexavalent Chromium	10/11/24 10:43 PM	Reported
94	N069146-002A	SAMP	5	Hexavalent Chromium	10/11/24 10:52 PM	Reported
95	N069146-002AMS	MS	5	Hexavalent Chromium	10/11/24 11:02 PM	Reported
96	CCV-8	CCV1	1	Hexavalent Chromium	10/11/24 11:11 PM	Reported
97	CCB-8	CCB	1	Hexavalent Chromium	10/11/24 11:20 PM	Reported
98	N069146-007A	SAMP	5	Hexavalent Chromium	10/11/24 11:30 PM	Not Reported
99	N069146-007AMS	MS	5	Hexavalent Chromium	10/11/24 11:39 PM	Not Reported
100	N069103-003A	SAMP	5	Hexavalent Chromium	10/11/24 11:49 PM	Not Reported
101	CCV-9	CCV	1	Hexavalent Chromium	10/11/24 11:58 PM	Not Reported
102	CCB-9	CCB	1	Hexavalent Chromium	10/12/24 12:08 AM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241011A	Created On:	24Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	12/Oct/24 00:38:33
No. of Injections:	105	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/01/2024 10:06	Finished	BLANK
2	BLANK	2	1000	Unknown		10/01/2024 10:20	Finished	BLANK
3	iBLANK	3	1000	Unknown		10/01/2024 10:29	Finished	INSTRUMENT BLANK
4	STD1-0.2 ppb	4	1000	Calibration Standard	01	10/01/2024 10:39	Finished	0.2 ppb, IWST-240729A, 2uL>
5	STD2-1.0 ppb	5	1000	Calibration Standard	02	10/01/2024 10:48	Finished	1.0 ppb, IWST-240729A, 10uL>
6	STD3-5.0 ppb	6	1000	Calibration Standard	03	10/01/2024 10:58	Finished	5.0 ppb, IWST-240729A, 50uL>
7	STD4-10.0 ppb	7	1000	Calibration Standard	04	10/01/2024 11:07	Finished	10 ppb, IWST-240729A, 100uL>
8	STD5-15.0 ppb	8	1000	Calibration Standard	05	10/01/2024 11:17	Finished	15 ppb, IWST-240729A, 150uL>
9	STD6-20.0 ppb	9	1000	Calibration Standard	06	10/01/2024 11:26	Finished	20 ppb, IWST-240729A, 200uL>
10	BLANK	1	1000	Unknown		10/11/2024 09:13	Finished	BLANK
11	CCV-1.CCV,1,	2	1000	Unknown		10/11/2024 09:26	Finished	CCV @5ppb, IWST-240729A
12	PQL@0.2ppb.CCV2,	3	1000	Unknown		10/11/2024 09:35	Finished	PQL @ 0.2ppb
13	PQL@0.2ppb.CCV2,	1	1000	Unknown		10/11/2024 09:52	Finished	PQL @ 0.2ppb
14	CCB-1.CCB,1,	2	1000	Unknown		10/11/2024 10:03	Finished	CCB R240923C
15	MB-H2O.MBLK,1,	3	1000	Unknown		10/11/2024 10:12	Finished	MB R240923C
16	LCS-H2O.LCS,1,	4	1000	Unknown		10/11/2024 10:22	Finished	LCS @5ppb, IWST-240729B
17	N069105-005A,SAMF	1	1000	Unknown		10/11/2024 10:35	Finished	SAMP,2>10 mL
18	N069105-005AMS,MS	2	1000	Unknown		10/11/2024 10:46	Finished	MS (1ppb), IWST-240729B,2>10 mL
19	N069105-011A,SAMF	3	1000	Unknown		10/11/2024 10:56	Finished	SAMP,2>10 mL
20	N069105-011AMS,MS	4	1000	Unknown		10/11/2024 11:05	Finished	MS (1ppb), IWST-240729B,2>10 mL
21	N069105-012A,SAMF	5	1000	Unknown		10/11/2024 11:15	Finished	SAMP,2>10 mL
22	N069105-012AMS,MS	6	1000	Unknown		10/11/2024 11:24	Finished	MS (1ppb), IWST-240729B,2>10 mL
23	N069105-007A,SAMF	7	1000	Unknown		10/11/2024 11:33	Finished	SAMP,10 mL
24	N069105-007AMS,MS	8	1000	Unknown		10/11/2024 11:43	Finished	MS (1ppb), IWST-240729B,10r
25	CCV-2.CCV1,1,	9	1000	Unknown		10/11/2024 11:52	Finished	CCV @10ppb, IWST-240729A
26	CCB-2.CCB,1,	10	1000	Unknown		10/11/2024 12:02	Finished	CCB R240923C
27	N069062-001A,SAMF	11	1000	Unknown		10/11/2024 12:11	Finished	SAMP,10 mL
28	N069062-001AMS,MS	12	1000	Unknown		10/11/2024 12:21	Finished	MS (1ppb), IWST-240729B,10r
29	N069062-002A,SAMF	13	1000	Unknown		10/11/2024 12:30	Finished	SAMP,10 mL
30	N069062-002AMS,MS	14	1000	Unknown		10/11/2024 12:40	Finished	MS (1ppb), IWST-240729B,10r
31	N069062-003A,SAMF	15	1000	Unknown		10/11/2024 12:49	Finished	SAMP,10 mL
32	N069062-003AMS,MS	16	1000	Unknown		10/11/2024 12:59	Finished	MS (1ppb), IWST-240729B,10r
33	N069103-010A,SAMF	17	1000	Unknown		10/11/2024 13:08	Finished	SAMP,10 mL
34	N069103-012A,SAMF	18	1000	Unknown		10/11/2024 13:18	Finished	SAMP,10 mL
35	N069103-013A,SAMF	19	1000	Unknown		10/11/2024 13:27	Finished	SAMP,10 mL
36	N069103-014A,SAMF	20	1000	Unknown		10/11/2024 13:36	Finished	SAMP,10 mL
37	CCV-3.CCV,1,	21	1000	Unknown		10/11/2024 13:46	Finished	CCV @5ppb, IWST-240729A
38	CCB-3.CCB,1,	22	1000	Unknown		10/11/2024 13:55	Finished	CCB R240923C
39	N069103-015A,SAMF	23	1000	Unknown		10/11/2024 14:05	Finished	SAMP,10 mL
40	N069103-016A,SAMF	24	1000	Unknown		10/11/2024 14:14	Finished	SAMP,10 mL
41	N069103-017A,SAMF	25	1000	Unknown		10/11/2024 14:24	Finished	SAMP,10 mL
42	N069101-002A,SAMF	26	1000	Unknown		10/11/2024 14:33	Finished	SAMP,10 mL
43	N069101-003A,SAMF	27	1000	Unknown		10/11/2024 14:43	Finished	SAMP,10 mL
44	N069101-004A,SAMF	28	1000	Unknown		10/11/2024 14:52	Finished	SAMP,10 mL
45	N069101-005A,SAMF	29	1000	Unknown		10/11/2024 15:02	Finished	SAMP,10 mL
46	N069101-006A,SAMF	30	1000	Unknown		10/11/2024 15:11	Finished	SAMP,10 mL
47	N069105-011AMSD,MS	31	1000	Unknown		10/11/2024 15:21	Finished	MSD (1ppb), IWST-240729B,2
48	CCV-4.CCV1,1,	32	1000	Unknown		10/11/2024 15:30	Finished	CCV @10ppb, IWST-240729A
49	CCB-4.CCB,1,	33	1000	Unknown		10/11/2024 15:39	Finished	CCB R240923C
50	N069103-010ADUP,D	34	1000	Unknown		10/11/2024 15:49	Finished	DUP,10 mL
51	MB-2.MBLK,1,	35	1000	Unknown		10/11/2024 15:58	Finished	MB R240923C
52	LCS-2.LCS,1,	36	1000	Unknown		10/11/2024 16:08	Finished	LCS @5ppb, IWST-240729B
53	N069146-013A,SAMF	37	1000	Unknown		10/11/2024 16:17	Finished	SAMP,0.1>10 mL
54	N069146-013AMS,MS	1	1000	Unknown		10/11/2024 16:32	Finished	MS (5ppb), IWST-240729B,0.1
55	N069146-013AMSD,MS	2	1000	Unknown		10/11/2024 16:43	Finished	MSD (5ppb), IWST-240729B,0
56	N069102-001A,SAMF	3	1000	Unknown		10/11/2024 16:53	Finished	SAMP,10 mL
57	N069102-001ADUP,D	4	1000	Unknown		10/11/2024 17:02	Finished	DUP,10 mL
58	N069102-002A,SAMF	5	1000	Unknown		10/11/2024 17:12	Finished	SAMP,10 mL
59	N069102-003A,SAMF	6	1000	Unknown		10/11/2024 17:21	Finished	SAMP,10 mL
60	CCV-5.CCV,1,	7	1000	Unknown		10/11/2024 17:30	Finished	CCV @5ppb, IWST-240729A

61	CCB-5.CCB,1,	8	1000	Unknown		10/11/2024 17:40	Finished	CCB R240923C
62	N069102-004A,SAMP	9	1000	Unknown		10/11/2024 17:49	Finished	SAMP,10 mL
63	N069102-005A,SAMP	10	1000	Unknown		10/11/2024 17:59	Finished	SAMP,10 mL
64	N069146-001A,SAMP	11	1000	Unknown		10/11/2024 18:08	Finished	SAMP,10 mL
65	N069146-001AMS,MS	12	1000	Unknown		10/11/2024 18:18	Finished	MS (1ppb), IWST-240729B,10r
66	N069146-002A,SAMP	13	1000	Unknown		10/11/2024 18:27	Finished	SAMP,10 mL
67	N069146-002AMS,MS	14	1000	Unknown		10/11/2024 18:37	Finished	MS (1ppb), IWST-240729B,10r
68	N069146-003A,SAMP	15	1000	Unknown		10/11/2024 18:46	Finished	SAMP,10 mL
69	N069146-003AMS,MS	16	1000	Unknown		10/11/2024 18:56	Finished	MS (1ppb), IWST-240729B,10r
70	N069146-004A,SAMP	17	1000	Unknown		10/11/2024 19:05	Finished	SAMP,10 mL
71	N069146-004AMS,MS	18	1000	Unknown		10/11/2024 19:15	Finished	MS (1ppb), IWST-240729B,10r
72	CCV-6.CCV1,1,	19	1000	Unknown		10/11/2024 19:24	Finished	CCV @10ppb, IWST-240729A
73	CCB-6.CCB,1,	20	1000	Unknown		10/11/2024 19:33	Finished	CCB R240923C
74	N069146-005A,SAMP	21	1000	Unknown		10/11/2024 19:43	Finished	SAMP,10 mL
75	N069146-005AMS,MS	22	1000	Unknown		10/11/2024 19:52	Finished	MS (1ppb), IWST-240729B,10r
76	N069146-006A,SAMP	23	1000	Unknown		10/11/2024 20:02	Finished	SAMP,10 mL
77	N069146-006AMS,MS	24	1000	Unknown		10/11/2024 20:11	Finished	MS (1ppb), IWST-240729B,10r
78	N069146-007A,SAMP	25	1000	Unknown		10/11/2024 20:21	Finished	SAMP,10 mL
79	N069146-007AMS,MS	26	1000	Unknown		10/11/2024 20:30	Finished	MS (1ppb), IWST-240729B,10r
80	N069146-008A,SAMP	27	1000	Unknown		10/11/2024 20:40	Finished	SAMP,10 mL
81	N069146-008AMS,MS	28	1000	Unknown		10/11/2024 20:49	Finished	MS (1ppb), IWST-240729B,10r
82	N069146-009A,SAMP	29	1000	Unknown		10/11/2024 20:59	Finished	SAMP,10 mL
83	N069146-009AMS,MS	30	1000	Unknown		10/11/2024 21:08	Finished	MS (5ppb), IWST-240729B,10r
84	CCV-7.CCV,1,	31	1000	Unknown		10/11/2024 21:18	Finished	CCV @5ppb, IWST-240729A
85	CCB-7.CCB,1,	32	1000	Unknown		10/11/2024 21:27	Finished	CCB R240923C
86	N069146-010A,SAMP	33	1000	Unknown		10/11/2024 21:36	Finished	SAMP,10 mL
87	N069146-010AMS,MS	34	1000	Unknown		10/11/2024 21:46	Finished	MS (1ppb), IWST-240729B,10r
88	N069146-011A,SAMP	35	1000	Unknown		10/11/2024 21:55	Finished	SAMP,10 mL
89	N069146-011AMS,MS	36	1000	Unknown		10/11/2024 22:05	Finished	MS (1ppb), IWST-240729B,10r
90	N069146-012A,SAMP	37	1000	Unknown		10/11/2024 22:14	Finished	SAMP,10 mL
91	N069146-012AMS,MS	38	1000	Unknown		10/11/2024 22:24	Finished	MS (1ppb), IWST-240729B,10r
92	N069146-001A,SAMP	39	1000	Unknown		10/11/2024 22:33	Finished	SAMP,2>10 mL
93	N069146-001AMS,MS	40	1000	Unknown		10/11/2024 22:43	Finished	MS (1ppb), IWST-240729B,2>
94	N069146-002A,SAMP	41	1000	Unknown		10/11/2024 22:52	Finished	SAMP,2>10 mL
95	N069146-002AMS,MS	42	1000	Unknown		10/11/2024 23:02	Finished	MS (1ppb), IWST-240729B,2>
96	CCV-8.CCV1,1,	43	1000	Unknown		10/11/2024 23:11	Finished	CCV @10ppb, IWST-240729A
97	CCB-8.CCB,1,	44	1000	Unknown		10/11/2024 23:20	Finished	CCB R240923C
98	N069146-007A,SAMP	45	1000	Unknown		10/11/2024 23:30	Finished	SAMP,2>10 mL
99	N069146-007AMS,MS	46	1000	Unknown		10/11/2024 23:39	Finished	MS (1ppb), IWST-240729B,2>
100	N069103-003A,SAMP	47	1000	Unknown		10/11/2024 23:49	Finished	SAMP,2>10 mL
101	CCV-9.CCV,1,	48	1000	Unknown		10/11/2024 23:58	Finished	CCV @5ppb, IWST-240729A
102	CCB-9.CCB,1,	49	1000	Unknown		10/12/2024 00:08	Finished	CCB R240923C
103	SHUTDOWN	50	1000	Unknown		10/12/2024 00:17	Finished	
104	Eluent: R241007A	51	1000	Unknown		n.a.	Finished	
105	PCR: R241007B	CurrentVial	1000	Unknown		n.a.	Finished	

INJECTION LOG: 241012A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/01/24 10:06 AM	Not Reported
2	BLANK	BLANK	1	Hexavalent Chromium	10/01/24 10:20 AM	Not Reported
3	iBLANK	iBLANK	1	Hexavalent Chromium	10/01/24 10:29 AM	Reported
4	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:39 AM	Reported
5	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:48 AM	Reported
6	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:58 AM	Reported
7	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:07 AM	Reported
8	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:17 AM	Reported
9	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:26 AM	Reported
10	BLANK	BLANK	1	Hexavalent Chromium	10/12/24 6:29 AM	Not Reported
11	CCV-1	CCV	1	Hexavalent Chromium	10/12/24 6:42 AM	Reported
12	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/12/24 6:52 AM	Reported
13	CCB-1	CCB	1	Hexavalent Chromium	10/12/24 7:01 AM	Reported
14	MB-H2O	MBLK	1	Hexavalent Chromium	10/12/24 7:11 AM	Not Reported
15	LCS-R194221	LCS	1	Hexavalent Chromium	10/12/24 7:20 AM	Reported
16	MB-R194221	MBLK	1	Hexavalent Chromium	10/12/24 7:37 AM	Reported
17	N069148-001A	SAMP	20	Hexavalent Chromium	10/12/24 7:48 AM	Reported
18	N069148-001AMS	MS	20	Hexavalent Chromium	10/12/24 7:58 AM	Reported
19	N069148-001AMSD	MSD	20	Hexavalent Chromium	10/12/24 8:07 AM	Reported
20	N069103-003A	SAMP	5	Hexavalent Chromium	10/12/24 8:16 AM	Reported
21	N069103-003ADUP	DUP	5	Hexavalent Chromium	10/12/24 8:37 AM	Reported
22	N069146-007A	SAMP	5	Hexavalent Chromium	10/12/24 8:49 AM	Reported
23	N069146-007AMS	MS	5	Hexavalent Chromium	10/12/24 8:58 AM	Reported
24	N069148-002A	SAMP	1	Hexavalent Chromium	10/12/24 9:08 AM	Reported
25	CCV-2	CCV1	1	Hexavalent Chromium	10/12/24 10:50 AM	Reported
26	CCB-2	CCB	1	Hexavalent Chromium	10/12/24 11:01 AM	Reported
27	N069147-001A	SAMP	1	Hexavalent Chromium	10/12/24 11:10 AM	Reported
28	N069147-001AMS	MS	1	Hexavalent Chromium	10/12/24 11:20 AM	Reported
29	N069147-002A	SAMP	1	Hexavalent Chromium	10/12/24 11:29 AM	Not Reported
30	N069147-002AMS	MS	1	Hexavalent Chromium	10/12/24 11:39 AM	Not Reported
31	N069147-006A	SAMP	1	Hexavalent Chromium	10/12/24 11:48 AM	Reported
32	N069147-006AMS	MS	1	Hexavalent Chromium	10/12/24 11:58 AM	Reported
33	N069147-007A	SAMP	1	Hexavalent Chromium	10/12/24 12:07 PM	Reported
34	N069147-007AMS	MS	1	Hexavalent Chromium	10/12/24 12:17 PM	Reported
35	N069147-003A	SAMP	1	Hexavalent Chromium	10/12/24 12:26 PM	Not Reported
36	N069147-003AMS	MS	1	Hexavalent Chromium	10/12/24 12:36 PM	Not Reported
37	CCV-3	CCV	1	Hexavalent Chromium	10/12/24 12:45 PM	Reported
38	CCB-3	CCB	1	Hexavalent Chromium	10/12/24 12:54 PM	Reported
39	N069147-004A	SAMP	1	Hexavalent Chromium	10/12/24 1:04 PM	Not Reported
40	N069147-004AMS	MS	1	Hexavalent Chromium	10/12/24 1:13 PM	Not Reported
41	N069147-005A	SAMP	1	Hexavalent Chromium	10/12/24 1:23 PM	Not Reported
42	N069147-005AMS	MS	1	Hexavalent Chromium	10/12/24 1:32 PM	Not Reported

INJECTION LOG: 241012A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069147-003A	SAMP	5	Hexavalent Chromium	10/12/24 1:42 PM	Reported
44	N069147-003AMS	MS	5	Hexavalent Chromium	10/12/24 1:51 PM	Reported
45	N069147-004A	SAMP	5	Hexavalent Chromium	10/12/24 2:01 PM	Reported
46	N069147-004AMS	MS	5	Hexavalent Chromium	10/12/24 2:10 PM	Reported
47	N069147-005A	SAMP	5	Hexavalent Chromium	10/12/24 2:20 PM	Reported
48	N069147-005AMS	MS	5	Hexavalent Chromium	10/12/24 2:29 PM	Reported
49	CCV-4	CCV1	1	Hexavalent Chromium	10/12/24 2:39 PM	Reported
50	CCB-4	CCB	1	Hexavalent Chromium	10/12/24 2:48 PM	Reported
51	N069148-003A	SAMP	5	Hexavalent Chromium	10/12/24 2:57 PM	Not Reported
52	N069148-004A	SAMP	1	Hexavalent Chromium	10/12/24 3:07 PM	Reported
53	N069148-005A	SAMP	1	Hexavalent Chromium	10/12/24 3:16 PM	Reported
54	N069148-006A	SAMP	5	Hexavalent Chromium	10/12/24 3:26 PM	Reported
55	N069148-007A	SAMP	10	Hexavalent Chromium	10/12/24 3:35 PM	Reported
56	N069148-008A	SAMP	5	Hexavalent Chromium	10/12/24 3:45 PM	Reported
57	N069146-003A	SAMP	5	Hexavalent Chromium	10/12/24 3:54 PM	Reported
58	N069146-003AMS	MS	5	Hexavalent Chromium	10/12/24 4:04 PM	Reported
59	N069146-011A	SAMP	5	Hexavalent Chromium	10/12/24 4:13 PM	Reported
60	N069146-011AMS	MS	5	Hexavalent Chromium	10/12/24 4:23 PM	Reported
61	CCV-5	CCV	1	Hexavalent Chromium	10/12/24 4:32 PM	Reported
62	CCB-5	CCB	1	Hexavalent Chromium	10/12/24 4:41 PM	Reported
63	N069146-012A	SAMP	5	Hexavalent Chromium	10/12/24 4:51 PM	Reported
64	N069146-012AMS	MS	5	Hexavalent Chromium	10/12/24 5:00 PM	Reported
65	CCV-6	CCV1	1	Hexavalent Chromium	10/12/24 5:10 PM	Reported
66	CCB-6	CCB	1	Hexavalent Chromium	10/12/24 5:19 PM	Reported
67	BLANK	BLANK	1	Hexavalent Chromium	10/12/24 5:29 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241012A	Created On:	24Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	12/Oct/24 17:59:32
No. of Injections:	70	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/01/2024 10:06	Finished	BLANK
2	BLANK	2	1000	Unknown		10/01/2024 10:20	Finished	BLANK
3	iBLANK	3	1000	Unknown		10/01/2024 10:29	Finished	INSTRUMENT BLANK
4	STD1-0.2 ppb	4	1000	Calibration Standard	01	10/01/2024 10:39	Finished	0.2 ppb, IWST-240729A, 2uL>
5	STD2-1.0 ppb	5	1000	Calibration Standard	02	10/01/2024 10:48	Finished	1.0 ppb, IWST-240729A, 10uL>
6	STD3-5.0 ppb	6	1000	Calibration Standard	03	10/01/2024 10:58	Finished	5.0 ppb, IWST-240729A, 50uL>
7	STD4-10.0 ppb	7	1000	Calibration Standard	04	10/01/2024 11:07	Finished	10 ppb, IWST-240729A, 100uL>
8	STD5-15.0 ppb	8	1000	Calibration Standard	05	10/01/2024 11:17	Finished	15 ppb, IWST-240729A, 150uL>
9	STD6-20.0 ppb	9	1000	Calibration Standard	06	10/01/2024 11:26	Finished	20 ppb, IWST-240729A, 200uL>
10	BLANK	1	1000	Unknown		10/12/2024 06:29	Finished	BLANK
11	CCV-1.CCV,1,	2	1000	Unknown		10/12/2024 06:42	Finished	CCV @5ppb, IWST-240729A
12	PQL@0.2ppb.CCV2,	3	1000	Unknown		10/12/2024 06:52	Finished	PQL @ 0.2ppb
13	CCB-1.CCB,1,	4	1000	Unknown		10/12/2024 07:01	Finished	CCB R240923C
14	MB-H2O.MBLK,1,	5	1000	Unknown		10/12/2024 07:11	Finished	MB R240923C
15	LCS-H2O.LCS,1,	6	1000	Unknown		10/12/2024 07:20	Finished	LCS @5ppb, IWST-240729B
16	MB-H2O.MBLK,1,	1	1000	Unknown		10/12/2024 07:37	Finished	MB R240923C
17	N069148-001A,SAMF	2	1000	Unknown		10/12/2024 07:48	Finished	SAMP.0.5>10 mL
18	N069148-001AMS,MS	3	1000	Unknown		10/12/2024 07:58	Finished	MS (5ppb), IWST-240729B,0.5
19	N069148-001AMSD,MS	4	1000	Unknown		10/12/2024 08:07	Finished	MSD (5ppb), IWST-240729B,0.5
20	N069103-003A,SAMF	5	1000	Unknown		10/12/2024 08:16	Finished	SAMP,2>10 mL
21	N069103-003ADUP,MS	1	1000	Unknown		10/12/2024 08:37	Finished	DUP,2>10 mL
22	N069146-007A,SAMF	2	1000	Unknown		10/12/2024 08:49	Finished	SAMP,2>10 mL
23	N069146-007AMS,MS	3	1000	Unknown		10/12/2024 08:58	Finished	MS (1ppb), IWST-240729B,2>10
24	N069148-002A,SAMF	4	1000	Unknown		10/12/2024 09:08	Finished	SAMP,10 mL
25	CCV-2.CCV1,1,	1	1000	Unknown		10/12/2024 10:50	Finished	CCV @10ppb, IWST-240729A
26	CCB-2.CCB,1,	2	1000	Unknown		10/12/2024 11:01	Finished	CCB R240923C
27	N069147-001A,SAMF	3	1000	Unknown		10/12/2024 11:10	Finished	SAMP,10 mL
28	N069147-001AMS,MS	4	1000	Unknown		10/12/2024 11:20	Finished	MS (1ppb), IWST-240729B,10r
29	N069147-002A,SAMF	5	1000	Unknown		10/12/2024 11:29	Finished	SAMP,10 mL
30	N069147-002AMS,MS	6	1000	Unknown		10/12/2024 11:39	Finished	MS (1ppb), IWST-240729B,10r
31	N069147-006A,SAMF	7	1000	Unknown		10/12/2024 11:48	Finished	SAMP,10 mL
32	N069147-006AMS,MS	8	1000	Unknown		10/12/2024 11:58	Finished	MS (1ppb), IWST-240729B,10r
33	N069147-007A,SAMF	9	1000	Unknown		10/12/2024 12:07	Finished	SAMP,10 mL
34	N069147-007AMS,MS	10	1000	Unknown		10/12/2024 12:17	Finished	DUP,10 mL
35	N069147-003A,SAMF	11	1000	Unknown		10/12/2024 12:26	Finished	SAMP,10 mL
36	N069147-003AMS,MS	12	1000	Unknown		10/12/2024 12:36	Finished	MS (1ppb), IWST-240729B,10r
37	CCV-3.CCV,1,	13	1000	Unknown		10/12/2024 12:45	Finished	CCV @5ppb, IWST-240729A
38	CCB-3.CCB,1,	14	1000	Unknown		10/12/2024 12:54	Finished	CCB R240923C
39	N069147-004A,SAMF	15	1000	Unknown		10/12/2024 13:04	Finished	SAMP,10 mL
40	N069147-004AMS,MS	16	1000	Unknown		10/12/2024 13:13	Finished	MS (1ppb), IWST-240729B,10r
41	N069147-005A,SAMF	17	1000	Unknown		10/12/2024 13:23	Finished	SAMP,10 mL
42	N069147-005AMS,MS	18	1000	Unknown		10/12/2024 13:32	Finished	MS (1ppb), IWST-240729B,10r
43	N069147-003A,SAMF	19	1000	Unknown		10/12/2024 13:42	Finished	SAMP,2>10 mL
44	N069147-003AMS,MS	20	1000	Unknown		10/12/2024 13:51	Finished	MS (1ppb), IWST-240729B,2>10
45	N069147-004A,SAMF	21	1000	Unknown		10/12/2024 14:01	Finished	SAMP,2>10 mL
46	N069147-004AMS,MS	22	1000	Unknown		10/12/2024 14:10	Finished	MS (1ppb), IWST-240729B,2>10
47	N069147-005A,SAMF	23	1000	Unknown		10/12/2024 14:20	Finished	SAMP,2>10 mL
48	N069147-005AMS,MS	24	1000	Unknown		10/12/2024 14:29	Finished	MS (1ppb), IWST-240729B,2>10
49	CCV-4.CCV1,1,	25	1000	Unknown		10/12/2024 14:39	Finished	CCV @10ppb, IWST-240729A
50	CCB-4.CCB,1,	26	1000	Unknown		10/12/2024 14:48	Finished	CCB R240923C
51	N069148-003A,SAMF	27	1000	Unknown		10/12/2024 14:57	Finished	SAMP,2>10 mL
52	N069148-004A,SAMF	28	1000	Unknown		10/12/2024 15:07	Finished	SAMP,10 mL
53	N069148-005A,SAMF	29	1000	Unknown		10/12/2024 15:16	Finished	SAMP,10 mL
54	N069148-006A,SAMF	30	1000	Unknown		10/12/2024 15:26	Finished	SAMP,2>10 mL
55	N069148-007A,SAMF	31	1000	Unknown		10/12/2024 15:35	Finished	SAMP,1>10 mL
56	N069148-008A,SAMF	32	1000	Unknown		10/12/2024 15:45	Finished	SAMP,2>10 mL
57	N069146-003A,SAMF	33	1000	Unknown		10/12/2024 15:54	Finished	SAMP,2>10 mL
58	N069146-003AMS,MS	34	1000	Unknown		10/12/2024 16:04	Finished	MS (1ppb), IWST-240729B,2>10
59	N069146-011A,SAMF	35	1000	Unknown		10/12/2024 16:13	Finished	SAMP,2>10 mL
60	N069146-011AMS,MS	36	1000	Unknown		10/12/2024 16:23	Finished	MS (1ppb), IWST-240729B,2>10

61	CCV-5.CCV,1,	37	1000	Unknown		10/12/2024 16:32	Finished	CCV @5ppb, IWST-240729A
62	CCB-5.CCB,1,	38	1000	Unknown		10/12/2024 16:41	Finished	CCB R240923C
63	N069146-012A,SAMP	39	1000	Unknown		10/12/2024 16:51	Finished	SAMP,2>10 mL
64	N069146-012AMS,MS	40	1000	Unknown		10/12/2024 17:00	Finished	MS (1ppb), IWST-240729B,2>10 mL
65	CCV-6.CCV1,1,	41	1000	Unknown		10/12/2024 17:10	Finished	CCV @10ppb, IWST-240729A
66	CCB-6.CCB,1,	42	1000	Unknown		10/12/2024 17:19	Finished	CCB R240923C
67	BLANK	43	1000	Unknown		10/12/2024 17:29	Finished	BLANK
68	SHUTDOWN	44	1000	Unknown		10/12/2024 17:38	Finished	
69	Eluent: R241012A	45	1000	Unknown		n.a.	Finished	
70	PCR: R241012B	46	1000	Unknown		n.a.	Finished	



SAMPLE PREPARATION LOG



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

Hexavalent Chromium Preparation and Runlog

Sample Preparation

Date Prepared: 10/11/24 Reagent ID:
 Time Prepared: 0920H Sulfuric Acid: 16620
 Prepared By: RA Diphenylcarbazide: 16810 *Low NaOH*
 NH4OH + NH4SO4 eluent: N241012A *N241002A*
 NH4OH + NH4SO4 buffer: N240923C

Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1) NO6914 - 1A	8.41	9.44	200mL	-200mL	+6	
2) 2A	8.58	9.48			+6	
3) 3A	9.37	-				
4) 4A	9.68	-				
5) 5A	9.14	9.35			+3	
6) 6A	9.72	-				
7) 7A	9.77	-				
8) 8A	9.69	-				
9) 9A	9.31	-				
10) 10A	9.72	-				
11) 11A	9.74	-				
12) 12A	9.35	-				
13) 13A	9.48	-				
14) NO69147 - 1A	9.52	-				
15) 2A	9.77	-				
3A	9.74	-				

Sample Preparation

Date Prepared: 10/11/24 Reagent ID:
 Time Prepared: 0920H Sulfuric Acid: 16620
 Prepared By: RA Diphenylcarbazide: 16810 *Low NaOH*
 NH4OH + NH4SO4 eluent: N241012A *N241002A*
 NH4OH + NH4SO4 buffer: N240923C

Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1) NO69147 - 4A	9.38	-	200mL	200mL		
2) 5A	9.40	-				
3) 6A	9.43	-				
4) 7A	9.63	-				
5) NO69148 - 1A	9.52	-				
6) 2A	9.74	-				
7) 3A	8.95	9.53			+5	
8) 4A	9.73	-				
9) 5A	9.74	-				
10) 6A	9.47	-				
11) 7A	9.28	-				
12) 8A	8.86	9.49			+5	
13) 9A	9.44	-				
14) 10A	8.95	9.79			+3	
15) 11A	9.34	-				
12A	9.38	-				

Logbook No. 25

INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
INTEGRATION OF ENVIRONMENTAL TECHNOLOGIES

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"Serving Clients with Passion and Professionalism"

(EPA 218.6) - INITIAL CALIBRATION

Instrument ID: NV00922-IC7
Date Calibrated: 10/1/2024

Initial Calibration:

Hexavalent Chromium	STD1	STD2	STD3	STD4	STD5	STD6	
COMPOUND, in ug/L	0.2	1	5	10	15	20	R ²
Area,mAU*min	0.0546	0.2704	1.3745	2.7397	4.0756	5.4103	1.0000
Measured, in ug/L	0.201100	0.996000	5.063000	10.091900	15.012700	19.929000	
Relative Error (%RE)	0.5%		1.3%				

	Stock	Working
Standard Concentration:	1,000,000 PPB	1,000 PPB
Standard ID:	ISST-240705H	IWST-240729A

Calibration Acceptance Criteria: > 0.999 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
INTEGRATION • INNOVATION • IMPROVEMENT

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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194216						
Client ID: ICV	Batch ID: R194216	TestNo: EPA 218.6	Analysis Date: 10/1/2024	SeqNo: 6228114							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.802	0.20	5.000	0	96.0	90	110				

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194216						
Client ID: ZZZZZ	Batch ID: R194216	TestNo: EPA 218.6	Analysis Date: 10/1/2024	SeqNo: 6228115							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.194	0.20	0.2000	0	97.0	80	120				

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194216						
Client ID: ZZZZZ	Batch ID: R194216	TestNo: EPA 218.6	Analysis Date: 10/11/2024	SeqNo: 6228117							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.202	0.20	0.2000	0	101	80	120				

Sample ID CCV-4	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194216						
Client ID: ZZZZZ	Batch ID: R194216	TestNo: EPA 218.6	Analysis Date: 10/11/2024	SeqNo: 6228118							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	10.147	0.20	10.00	0	101	95	105				

Sample ID CCV-5	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194216						
Client ID: CCV	Batch ID: R194216	TestNo: EPA 218.6	Analysis Date: 10/11/2024	SeqNo: 6228129							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.032	0.20	5.000	0	101	95	105				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCV-6	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194216						
Client ID: ZZZZZ	Batch ID: R194216	TestNo: EPA 218.6	Analysis Date: 10/11/2024	SeqNo: 6228135							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	10.354	0.20	10.00	0	104	95	105				

Sample ID CCV-7	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194216						
Client ID: CCV	Batch ID: R194216	TestNo: EPA 218.6	Analysis Date: 10/11/2024	SeqNo: 6228145							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.096	0.20	5.000	0	102	95	105				

Sample ID CCV-8	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194216						
Client ID: ZZZZZ	Batch ID: R194216	TestNo: EPA 218.6	Analysis Date: 10/11/2024	SeqNo: 6228153							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	10.117	0.20	10.00	0	101	95	105				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221
Client ID: ICV	Batch ID: R194221	TestNo: EPA 218.6	Analysis Date: 10/1/2024	SeqNo: 6228208	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	4.802	0.20	5.000	0	96.0 90 110

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221
Client ID: ZZZZZ	Batch ID: R194221	TestNo: EPA 218.6	Analysis Date: 10/1/2024	SeqNo: 6228209	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	0.194	0.20	0.2000	0	97.0 80 120

Sample ID CCV-1	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221
Client ID: CCV	Batch ID: R194221	TestNo: EPA 218.6	Analysis Date: 10/12/2024	SeqNo: 6228211	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	5.070	0.20	5.000	0	101 95 105

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221
Client ID: ZZZZZ	Batch ID: R194221	TestNo: EPA 218.6	Analysis Date: 10/12/2024	SeqNo: 6228212	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	0.220	0.20	0.2000	0	110 80 120

Sample ID CCV-2	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221
Client ID: ZZZZZ	Batch ID: R194221	TestNo: EPA 218.6	Analysis Date: 10/12/2024	SeqNo: 6228224	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	10.331	0.20	10.00	0	103 95 105

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCV-3	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221						
Client ID: CCV	Batch ID: R194221	TestNo: EPA 218.6	Analysis Date: 10/12/2024	SeqNo: 6228232							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.044	0.20	5.000	0	101	95	105				

Sample ID CCV-4	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221						
Client ID: ZZZZZ	Batch ID: R194221	TestNo: EPA 218.6	Analysis Date: 10/12/2024	SeqNo: 6228240							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	10.338	0.20	10.00	0	103	95	105				

Sample ID CCV-5	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221						
Client ID: CCV	Batch ID: R194221	TestNo: EPA 218.6	Analysis Date: 10/12/2024	SeqNo: 6228251							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.052	0.20	5.000	0	101	95	105				

Sample ID CCV-6	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221						
Client ID: ZZZZZ	Batch ID: R194221	TestNo: EPA 218.6	Analysis Date: 10/12/2024	SeqNo: 6228255							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	10.248	0.20	10.00	0	102	95	105				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
INTEGRATION • INNOVATION • IMPROVEMENT

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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194216						
Client ID: ICB	Batch ID: R194216	TestNo: EPA 218.6		Analysis Date: 10/1/2024	SeqNo: 6228116						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-4	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194216						
Client ID: CCB	Batch ID: R194216	TestNo: EPA 218.6		Analysis Date: 10/11/2024	SeqNo: 6228119						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-5	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194216						
Client ID: CCB	Batch ID: R194216	TestNo: EPA 218.6		Analysis Date: 10/11/2024	SeqNo: 6228130						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-6	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194216						
Client ID: CCB	Batch ID: R194216	TestNo: EPA 218.6		Analysis Date: 10/11/2024	SeqNo: 6228136						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-7	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194216						
Client ID: CCB	Batch ID: R194216	TestNo: EPA 218.6		Analysis Date: 10/11/2024	SeqNo: 6228146						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCB-8	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194216						
Client ID: CCB	Batch ID: R194216	TestNo: EPA 218.6		Analysis Date: 10/11/2024	SeqNo: 6228154						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221
Client ID: ICB	Batch ID: R194221	TestNo: EPA 218.6		Analysis Date: 10/1/2024	SeqNo: 6228210
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND

0.20

Sample ID CCB-1	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221
Client ID: CCB	Batch ID: R194221	TestNo: EPA 218.6		Analysis Date: 10/12/2024	SeqNo: 6228213
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND

0.20

Sample ID CCB-2	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221
Client ID: CCB	Batch ID: R194221	TestNo: EPA 218.6		Analysis Date: 10/12/2024	SeqNo: 6228225
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND

0.20

Sample ID CCB-3	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221
Client ID: CCB	Batch ID: R194221	TestNo: EPA 218.6		Analysis Date: 10/12/2024	SeqNo: 6228233
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND

0.20

Sample ID CCB-4	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221
Client ID: CCB	Batch ID: R194221	TestNo: EPA 218.6		Analysis Date: 10/12/2024	SeqNo: 6228241
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

0.200

0.20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

Detection of Cr6+ in CCB4 is >0.02ppb criteria. However, sample affected is >10X the calibration blank detection. **and non-detect.**

jm 11/4/2024 **107**

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCB-5	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221
Client ID: CCB	Batch ID: R194221	TestNo: EPA 218.6	Analysis Date: 10/12/2024	SeqNo: 6228252	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-6	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221
Client ID: CCB	Batch ID: R194221	TestNo: EPA 218.6	Analysis Date: 10/12/2024	SeqNo: 6228256	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

RETENTION TIME SUMMARY



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL TECHNOLOGIES

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NEVADA
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"Serving Clients with Passion and Professionalism"

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/11/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.990	
CCV-1	5.865	
CCV-2	5.865	
CCV-3	5.865	
CCV-4	5.865	
CCV-5	5.865	
CCV-6	5.856	
CCV-7	5.856	
CCV-8	5.856	

Average 5.862
Actual RT Window 5.782 - 5.942
Applied RT Window 5.662 - 6.062

MB-R194215	N.A.	N.A.
LCS-R194215	5.865	PASS
N069105-005A	5.840	PASS
N069105-005AMS	5.831	PASS
N069105-011A	5.815	PASS
N069105-011AMS	5.815	PASS
N069105-012A	N.A.	N.A.
N069105-012AMS	5.840	PASS
N069105-007A	N.A.	N.A.
N069105-007AMS	5.865	PASS
N069062-001A	5.723	PASS
N069062-001AMS	5.715	PASS
N069062-002A	N.A.	N.A.
N069062-002AMS	5.681	PASS
N069062-003A	N.A.	N.A.
N069062-003AMS	5.715	PASS
N069103-010A	5.865	PASS
N069103-012A	5.681	PASS
N069103-013A	5.673	PASS
N069103-014A	N.A.	N.A.

Reviewed by:
M Rocha 10/24/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/11/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.990	
CCV-1	5.865	
CCV-2	5.865	
CCV-3	5.865	
CCV-4	5.865	
CCV-5	5.865	
CCV-6	5.856	
CCV-7	5.856	
CCV-8	5.856	

Average 5.862
Actual RT Window 5.782 - 5.942
Applied RT Window 5.662 - 6.062

N069103-015A	N.A.	N.A.
N069103-016A	N.A.	N.A.
N069103-017A	5.790	PASS
N069101-002A	N.A.	N.A.
N069101-003A	N.A.	N.A.
N069101-004A	N.A.	N.A.
N069101-005A	N.A.	N.A.
N069101-006A	N.A.	N.A.
N069105-011AMSD	5.806	PASS
N069103-010ADUP	5.856	PASS
MB-R194216	N.A.	N.A.
LCS-R194216	5.865	PASS
N069146-013A	5.856	PASS
N069146-013AMS	5.856	PASS
N069146-013AMSD	5.856	PASS
N069102-001A	5.856	PASS
N069102-001ADUP	5.856	PASS
N069102-002A	5.840	PASS
N069102-003A	5.848	PASS
N069102-004A	N.A.	N.A.

Reviewed by:

MRecha 10/24/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/11/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.990	
CCV-1	5.865	
CCV-2	5.865	
CCV-3	5.865	
CCV-4	5.865	
CCV-5	5.865	
CCV-6	5.856	
CCV-7	5.856	
CCV-8	5.856	

Average 5.862
Actual RT Window 5.782 - 5.942
Applied RT Window 5.662 - 6.062

N069102-005A	5.840	PASS
N069146-001A	N.A.	N.A.
N069146-001AMS	5.681	PASS
N069146-002A	N.A.	N.A.
N069146-002AMS	N.A.	N.A.
N069146-003A	5.815	PASS
N069146-003AMS	5.815	PASS
N069146-004A	N.A.	N.A.
N069146-004AMS	5.856	PASS
N069146-005A	N.A.	N.A.
N069146-005AMS	5.840	PASS
N069146-006A	N.A.	N.A.
N069146-006AMS	5.848	PASS
N069146-007A	N.A.	N.A.
N069146-007AMS	N.A.	N.A.
N069146-008A	N.A.	N.A.
N069146-008AMS	5.856	PASS
N069146-009A	5.781	PASS
N069146-009AMS	5.781	PASS
N069146-010A	N.A.	N.A.

Reviewed by:

MRecha 10/24/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/11/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.990	
CCV-1	5.865	
CCV-2	5.865	
CCV-3	5.865	
CCV-4	5.865	
CCV-5	5.865	
CCV-6	5.856	
CCV-7	5.856	
CCV-8	5.856	

Average 5.862
Actual RT Window 5.782 - 5.942
Applied RT Window 5.662 - 6.062

N069146-010AMS	5.856	PASS
N069146-011A	N.A.	N.A.
N069146-011AMS	5.681	PASS
N069146-012A	N.A.	N.A.
N069146-012AMS	5.698	PASS
N069146-001A	N.A.	N.A.
N069146-001AMS	5.831	PASS
N069146-002A	N.A.	N.A.
N069146-002AMS	5.815	PASS
N069146-007A	N.A.	N.A.
N069146-007AMS	5.815	PASS
N069103-003A	5.848	PASS

Reviewed by:

d/Recha 10/24/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/12/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.990	
CCV-1	5.848	
CCV-2	5.848	
CCV-3	5.848	
CCV-4	5.848	
CCV-5	5.848	
CCV-6	5.848	

Average 5.848
Actual RT Window 5.768 - 5.928
Applied RT Window 5.648 - 6.048

LCS-R194221	5.873	PASS
MB-R194221	N.A.	N.A.
N069148-001A	5.848	PASS
N069148-001AMS	5.848	PASS
N069148-001AMSD	5.848	PASS
N069103-003A	5.848	PASS
N069103-003ADUP	5.848	PASS
N069146-007A	N.A.	N.A.
N069146-007AMS	5.806	PASS
N069148-002A	N.A.	N.A.
N069147-001A	5.681	PASS
N069147-001AMS	5.681	PASS
N069147-002A	N.A.	N.A.
N069147-002AMS	5.673	PASS
N069147-006A	5.823	PASS
N069147-006AMS	5.823	PASS
N069147-007A	N.A.	N.A.
N069147-007AMS	5.848	PASS
N069147-003A	N.A.	N.A.
N069147-003AMS	5.681	PASS
N069147-004A	N.A.	N.A.
N069147-004AMS	5.673	PASS

Reviewed by:

AlRecha 10/24/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/12/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.990	
CCV-1	5.848	
CCV-2	5.848	
CCV-3	5.848	
CCV-4	5.848	
CCV-5	5.848	
CCV-6	5.848	

Average 5.848
Actual RT Window 5.768 - 5.928
Applied RT Window 5.648 - 6.048

N069147-005A	N.A.	N.A.
N069147-005AMS	5.690	PASS
N069147-003A	N.A.	N.A.
N069147-003AMS	5.823	PASS
N069147-004A	N.A.	N.A.
N069147-004AMS	5.815	PASS
N069147-005A	N.A.	N.A.
N069147-005AMS	5.823	PASS
N069148-003A	5.831	PASS
N069148-004A	5.840	PASS
N069148-005A	5.831	PASS
N069148-006A	5.840	PASS
N069148-007A	5.848	PASS
N069148-008A	5.840	PASS
N069146-003A	5.840	PASS
N069146-003AMS	5.840	PASS
N069146-011A	N.A.	N.A.
N069146-011AMS	5.815	PASS
N069146-012A	N.A.	N.A.
N069146-012AMS	5.815	PASS

Reviewed by:

MRecha 10/24/2024

MDL STUDY



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL AND ENVIRONMENTAL TECHNOLOGIES

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"Serving Clients with Passion and Professionalism"

METHOD DETECTION LIMIT (Spiked)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): 10/4/2022, 11/15/2022, 1/4/2023, 3/1/2023, 4/4/2023, 5/16/2023, 7/10/2023, 8/2/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: ug/L

Instrument Name: **IC-07**

Datafile 221004A D12 221115A D12 230104A D11 230301C D14 230404A D11 230516A D11 230710A D12 230802A D11

Analyte	#1	#2	#3	#4	#5	#6	#7	#8	Spike Conc., ug/L	SD	t _(n-1) value	MDLs	PQL
Hexavalent Chromium	0.199	0.194	0.169	0.190	0.167	0.194	0.201	0.185	0.20	0.0129	2.998	0.0387	0.20

METHOD DETECTION LIMIT (Blanks)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Instrument Name: **IC-07**

Analyte	MDLb	#of Records
Hexavalent Chromium	0.00	166

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

RAW DATA



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INJECTION LOG: 241001A**Instrument ID: NV00922-IC7**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/01/24 10:06 AM	Not Reported
2	BLANK	BLANK	1	Hexavalent Chromium	10/01/24 10:20 AM	Not Reported
3	iBLANK	iBLANK	1	Hexavalent Chromium	10/01/24 10:29 AM	Reported
4	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:39 AM	Reported
5	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:48 AM	Reported
6	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:58 AM	Reported
7	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:07 AM	Reported
8	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:17 AM	Reported
9	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:26 AM	Reported
10	ICV	ICV	1	Hexavalent Chromium	10/01/24 11:38 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/01/24 11:48 AM	Reported
12	ICB	ICB	1	Hexavalent Chromium	10/01/24 11:57 AM	Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241001A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	01/Oct/24 12:28:25
No. of Injections:	15	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/01/2024 10:06	Finished	BLANK
2	BLANK	2	1000	Unknown		10/01/2024 10:20	Finished	BLANK
3	iBLANK	3	1000	Unknown		10/01/2024 10:29	Finished	INSTRUMENT BLANK
4	STD1-0.2 ppb	4	1000	Calibration Standard	01	10/01/2024 10:39	Finished	0.2 ppb, IWST-240729A, 2uL>
5	STD2-1.0 ppb	5	1000	Calibration Standard	02	10/01/2024 10:48	Finished	1.0 ppb, IWST-240729A, 10uL>
6	STD3-5.0 ppb	6	1000	Calibration Standard	03	10/01/2024 10:58	Finished	5.0 ppb, IWST-240729A, 50uL>
7	STD4-10.0 ppb	7	1000	Calibration Standard	04	10/01/2024 11:07	Finished	10 ppb, IWST-240729A, 100uL>
8	STD5-15.0 ppb	8	1000	Calibration Standard	05	10/01/2024 11:17	Finished	15 ppb, IWST-240729A, 150uL>
9	STD6-20.0 ppb	9	1000	Calibration Standard	06	10/01/2024 11:26	Finished	20 ppb, IWST-240729A, 200uL>
10	ICV,ICV,1,	10	1000	Unknown		10/01/2024 11:38	Finished	ICV @5ppb, IWST-240729B
11	PQL@0.2ppb,CCV2,	11	1000	Unknown		10/01/2024 11:48	Finished	PQL @ 0.2ppb
12	ICB,ICB,1	12	1000	Unknown		10/01/2024 11:57	Finished	ICB R240708C
13	SHUTDOWN	22	1000	Unknown		n.a.	Finished	
14	Eluent: R240930A	23	1000	Unknown		n.a.	Finished	
15	PCR: R240930B	24	1000	Unknown		n.a.	Finished	

Reviewed by:

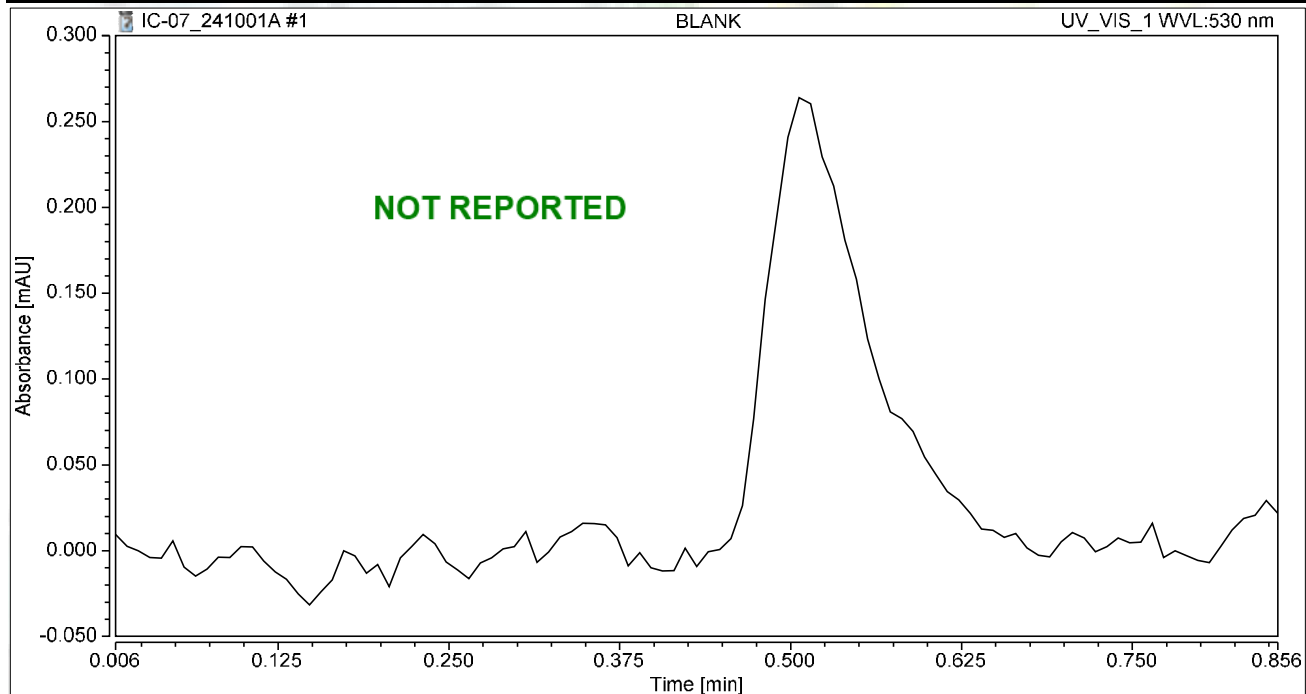
d/Rocha 10/6/2024

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	0.85
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 10:06	Sample Weight:	1.0000

Chromatogram



Integration Results

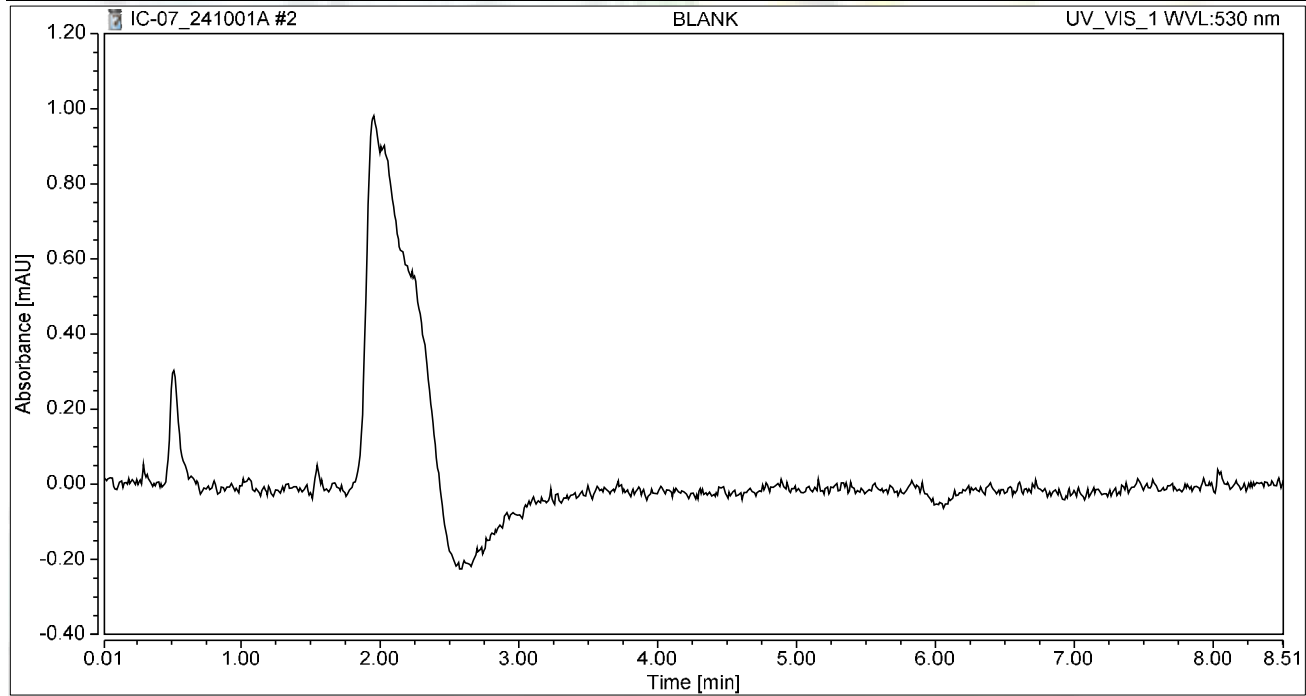
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 10:20	Sample Weight:	1.0000

Chromatogram



Integration Results

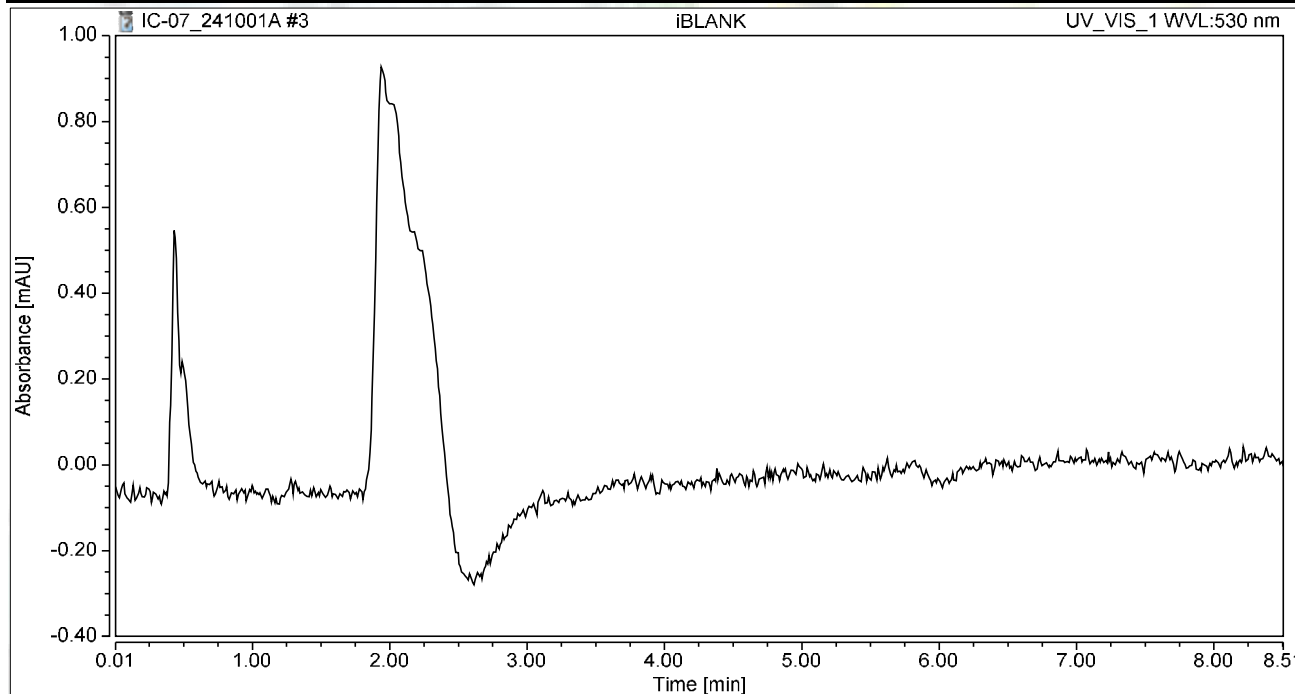
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	iBLANK	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 10:29	Sample Weight:	1.0000

Chromatogram



Integration Results

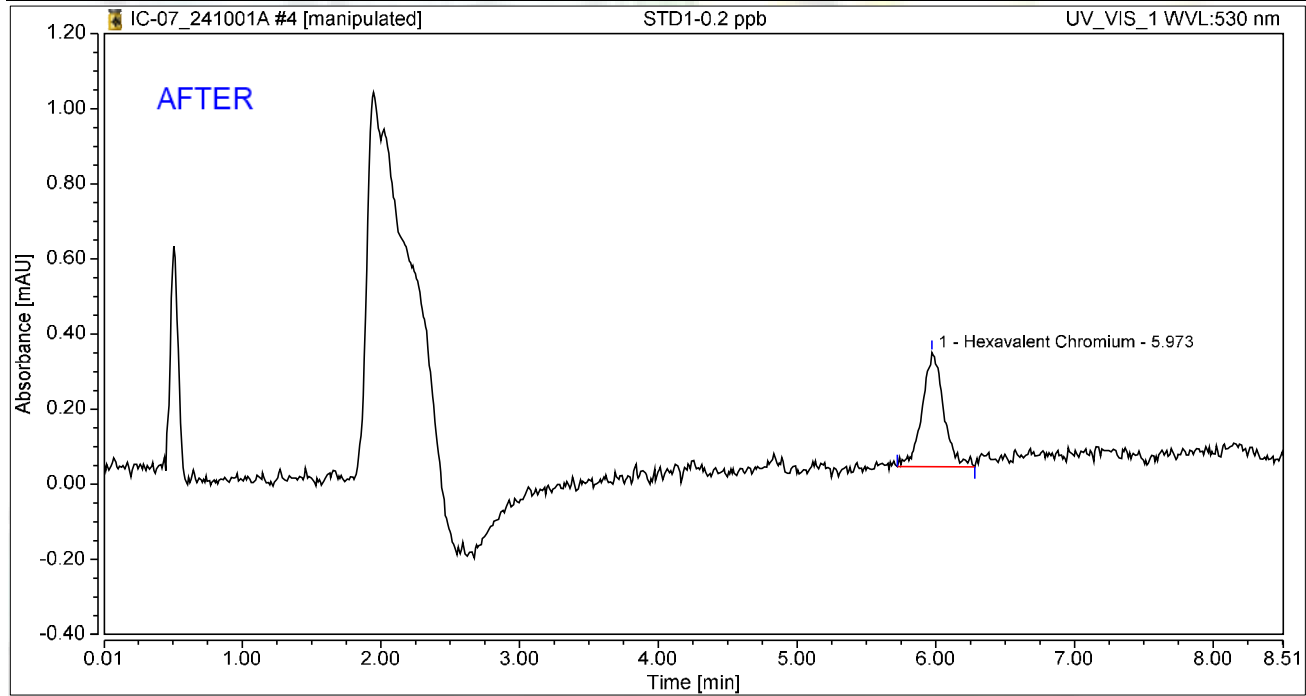
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	STD1-0.2 ppb	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	01	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 10:39	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.973	0.055	0.304	100.00	100.00	0.2011
Total:			0.055	0.304	100.00	100.00	

Reviewed by:

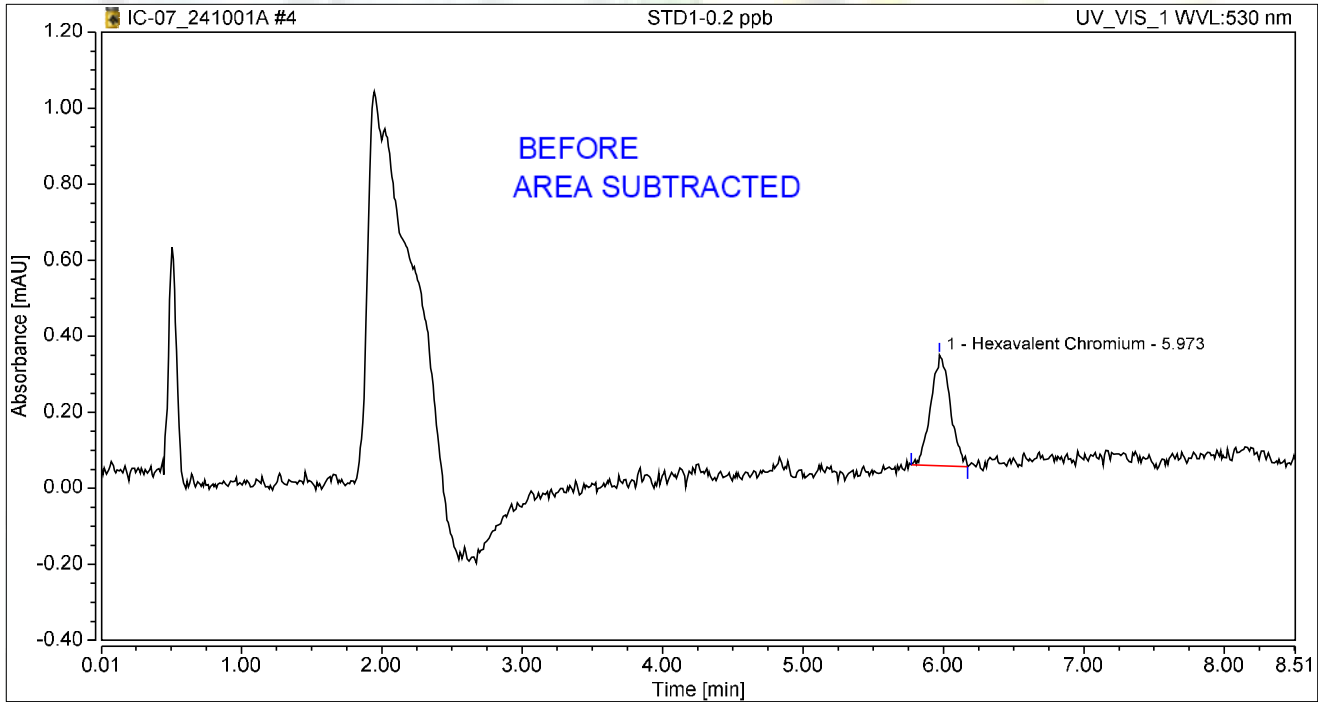
d/Rocha 10/6/2024

Chromatogram and Results

Injection Details

Injection Name:	STD1-0.2 ppb	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	01	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 10:39	Sample Weight:	1.0000

Chromatogram



Integration Results

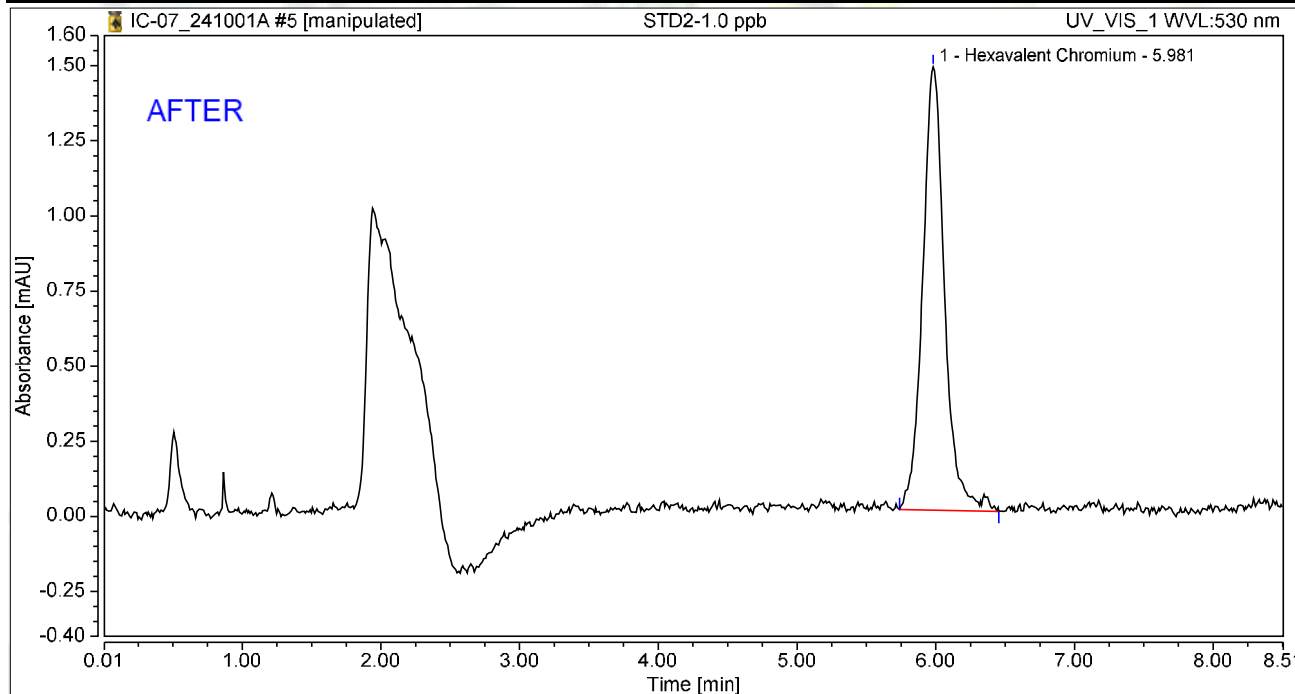
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.973	0.047	0.291	100.00	100.00	0.1740
Total:			0.047	0.291	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD2-1.0 ppb	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	02	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 10:48	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.981	0.270	1.476	100.00	100.00	0.9960
Total:			0.270	1.476	100.00	100.00	

Reviewed by:

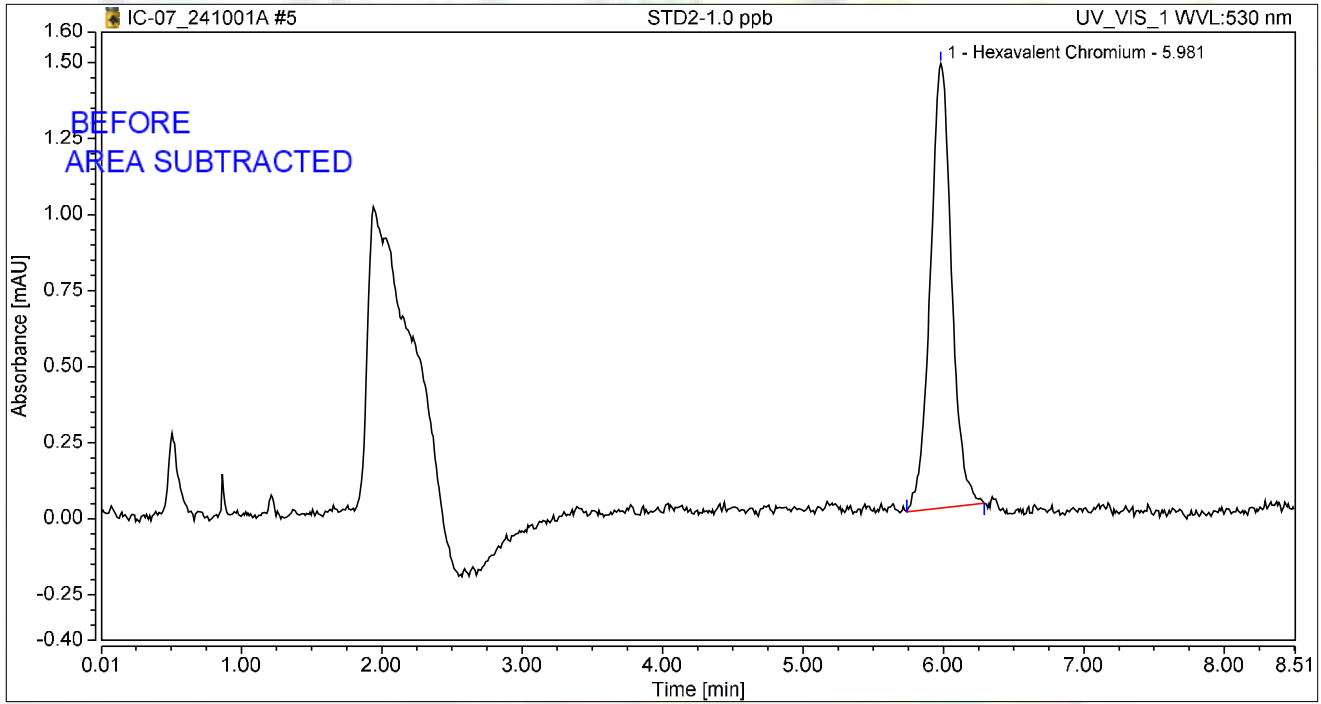
MRecha 10/6/2024

Chromatogram and Results

Injection Details

Injection Name:	STD2-1.0 ppb	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	02	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 10:48	Sample Weight:	1.0000

Chromatogram



Integration Results

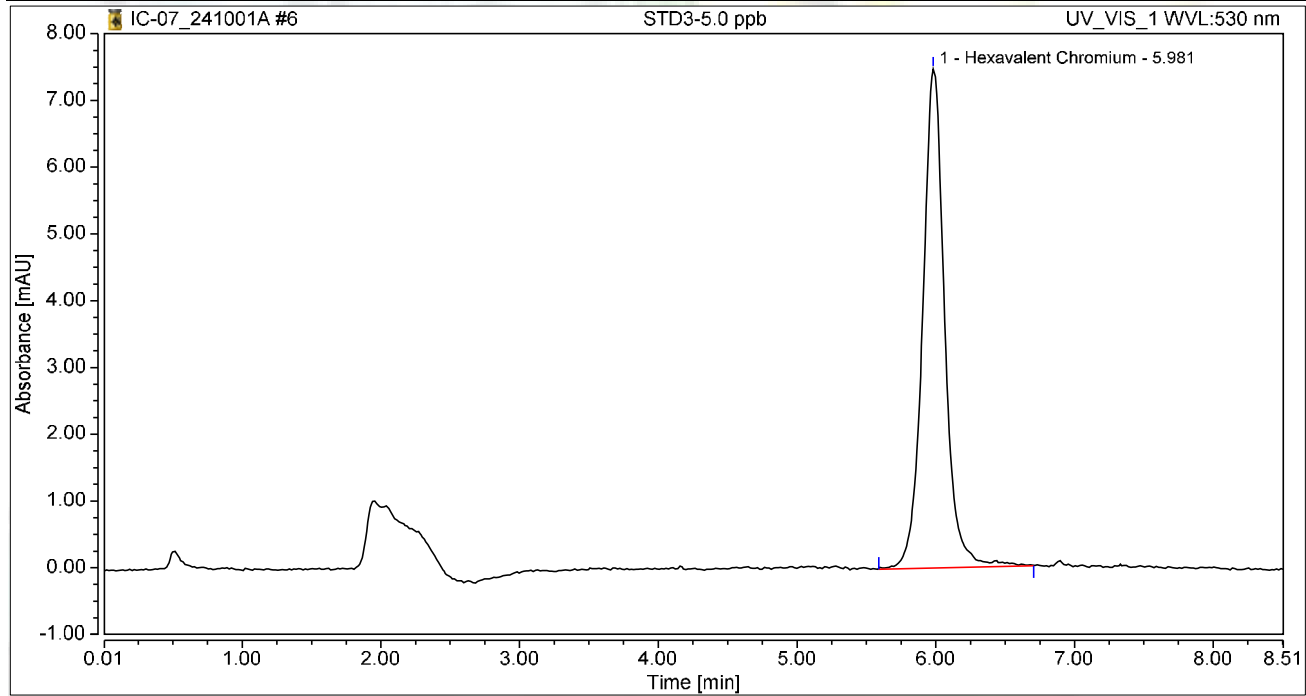
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.981	0.256	1.461	100.00	100.00	0.9449
Total:			0.256	1.461	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD3-5.0 ppb	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	03	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 10:58	Sample Weight:	1.0000

Chromatogram



Integration Results

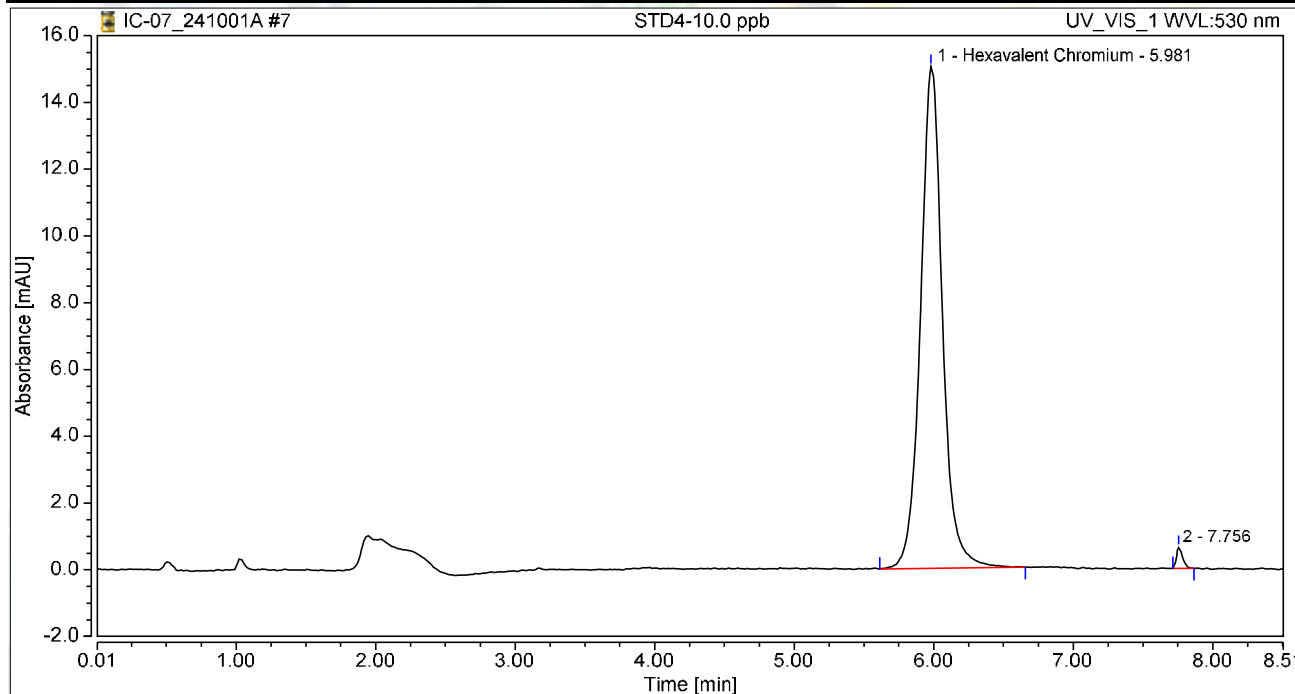
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.981	1.375	7.475	100.00	100.00	5.0630
Total:			1.375	7.475	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD4-10.0 ppb	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	04	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 11:07	Sample Weight:	1.0000

Chromatogram



Integration Results

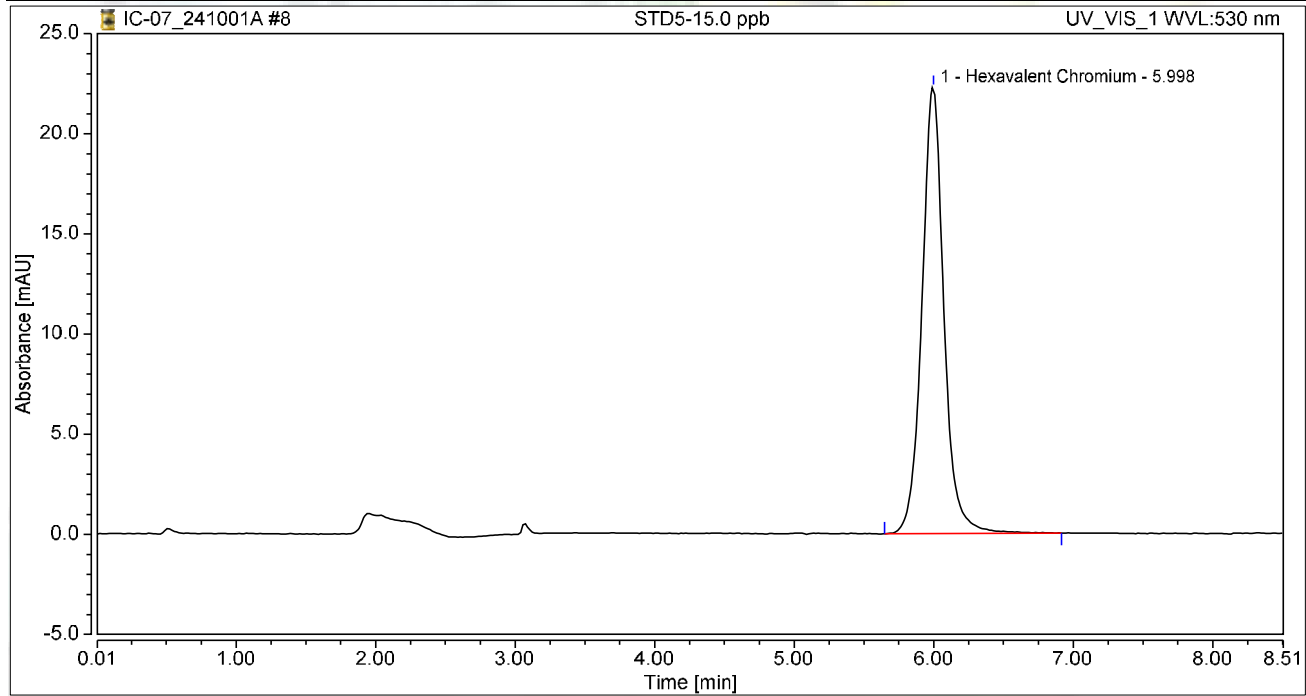
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.981	2.740	15.035	98.84	96.00	10.0919
2		7.756	0.032	0.626	1.16	4.00	n.a.
Total:			2.772	15.661	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD5-15.0 ppb	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	05	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 11:17	Sample Weight:	1.0000

Chromatogram



Integration Results

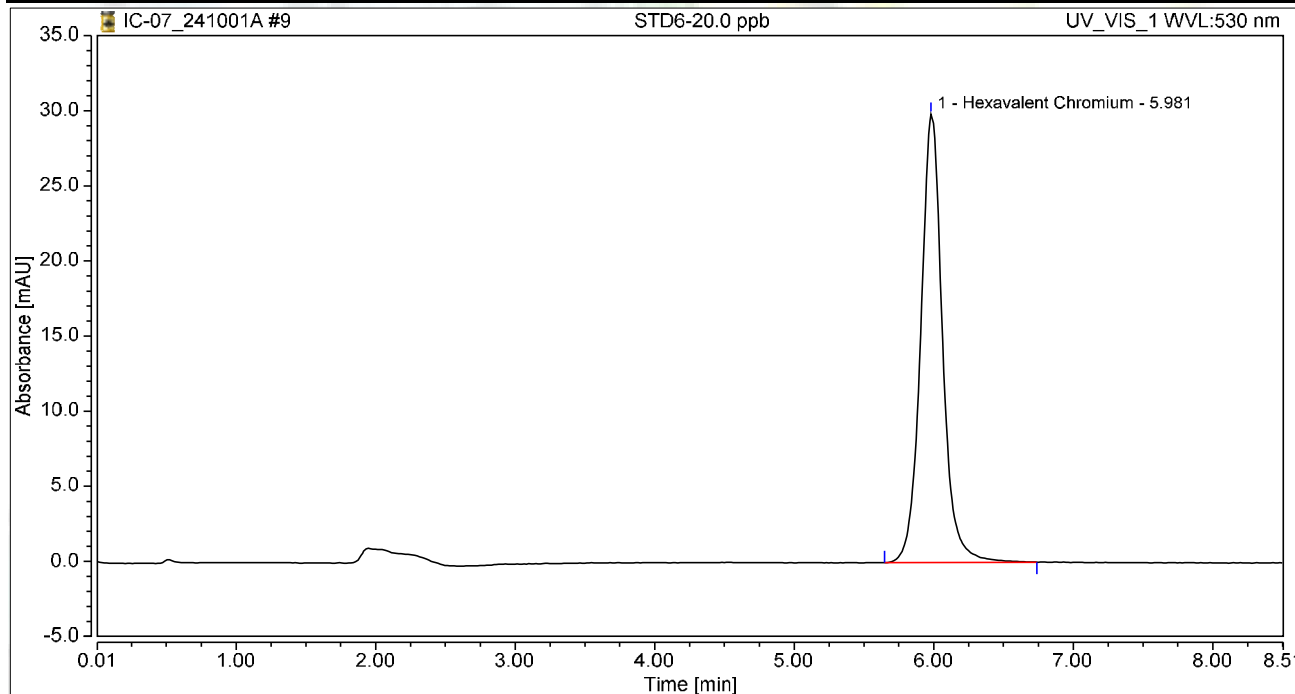
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.998	4.076	22.277	100.00	100.00	15.0127
Total:			4.076	22.277	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD6-20.0 ppb	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	06	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 11:26	Sample Weight:	1.0000

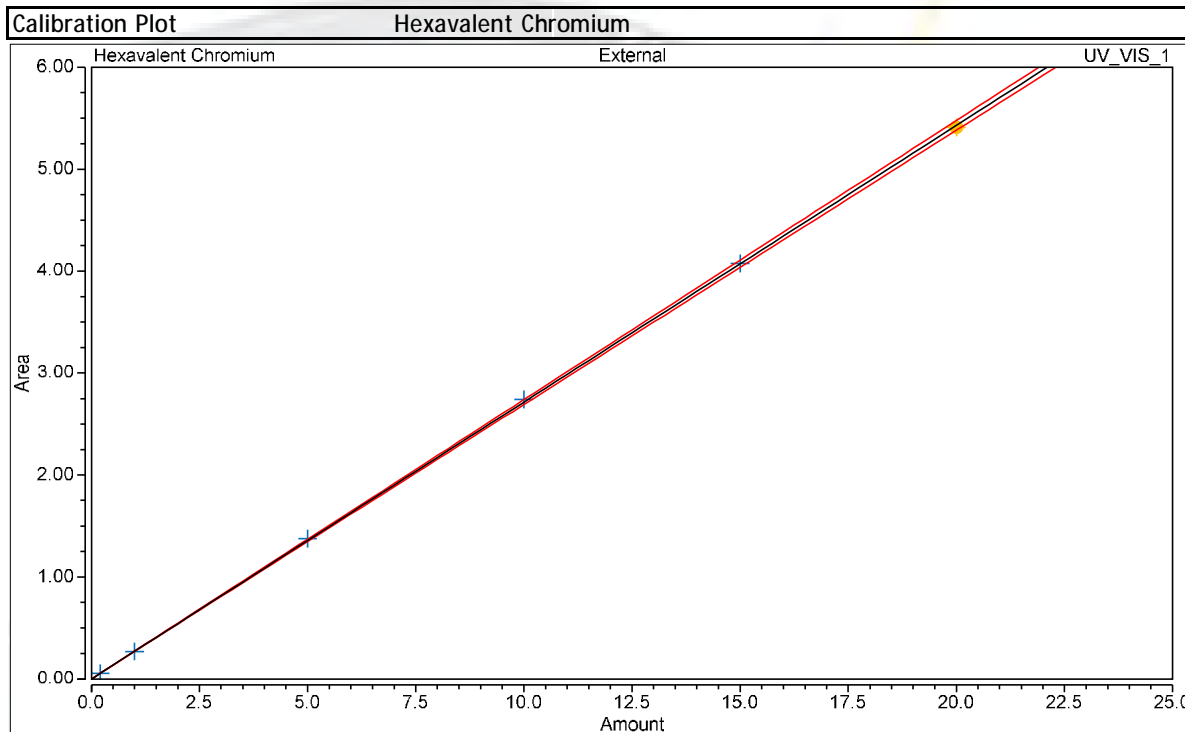
Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.981	5.410	29.843	100.00	100.00	19.9290
Total:			5.410	29.843	100.00	100.00	

Initial Calibration Summary			
Calibration Details		Hexavalent Chromium	
Calibration Type	Lin	Offset (C0)	0.0000
Evaluation Type	Area	Slope (C1)	0.2715
Number of Calibration Points	6	Curve (C2)	0.0000
Number of disabled Calibration Points	0	R-Square	0.99994



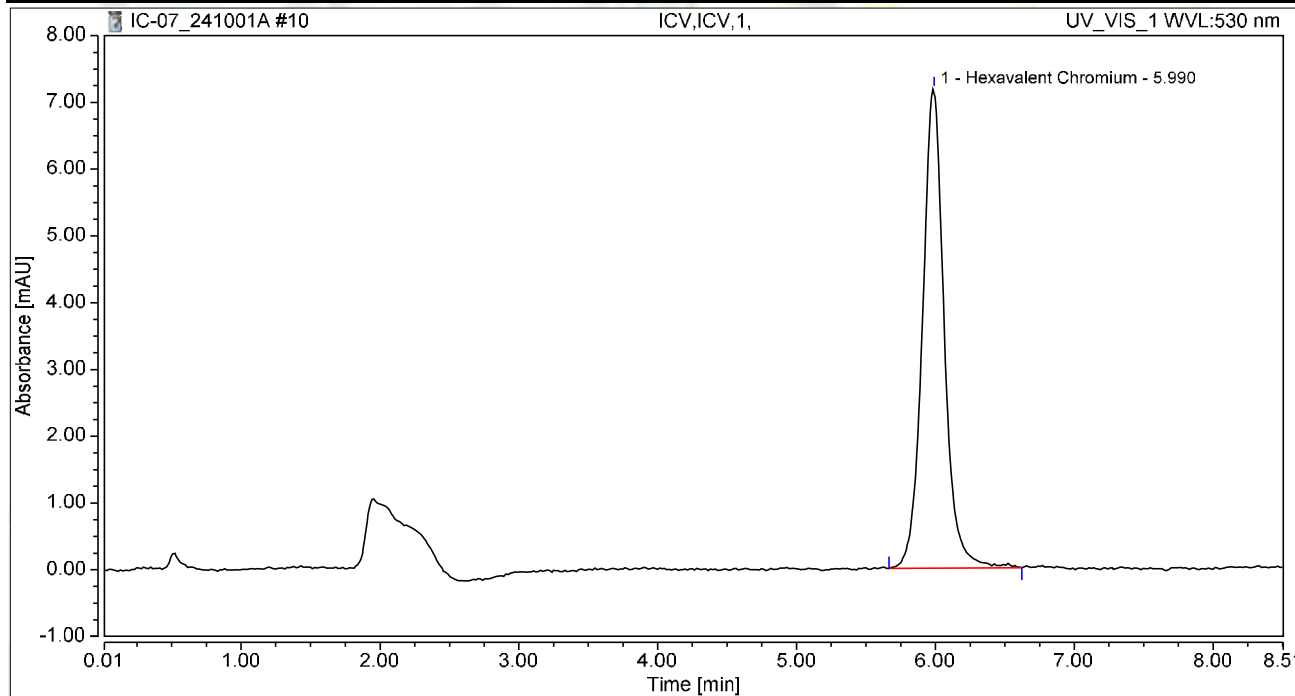
Calibration Results		Hexavalent Chromium				
No.	Injection Name	Calibration Level	X Value	Y Value	Area mAU*min	Height mAU
4	STD1-0.2 ppb	01	0.2000	0.0546	0.055	0.304
5	STD2-1.0 ppb	02	1.0000	0.2704	0.270	1.476
6	STD3-5.0 ppb	03	5.0000	1.3745	1.375	7.475
7	STD4-10.0 ppb	04	10.0000	2.7397	2.740	15.035
8	STD5-15.0 ppb	05	15.0000	4.0756	4.076	22.277
9	STD6-20.0 ppb	06	20.0000	5.4103	5.410	29.843

Chromatogram and Results

Injection Details

Injection Name:	ICV,ICV,1,	Run Time (min):	8.49
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 11:38	Sample Weight:	1.0000

Chromatogram



Integration Results

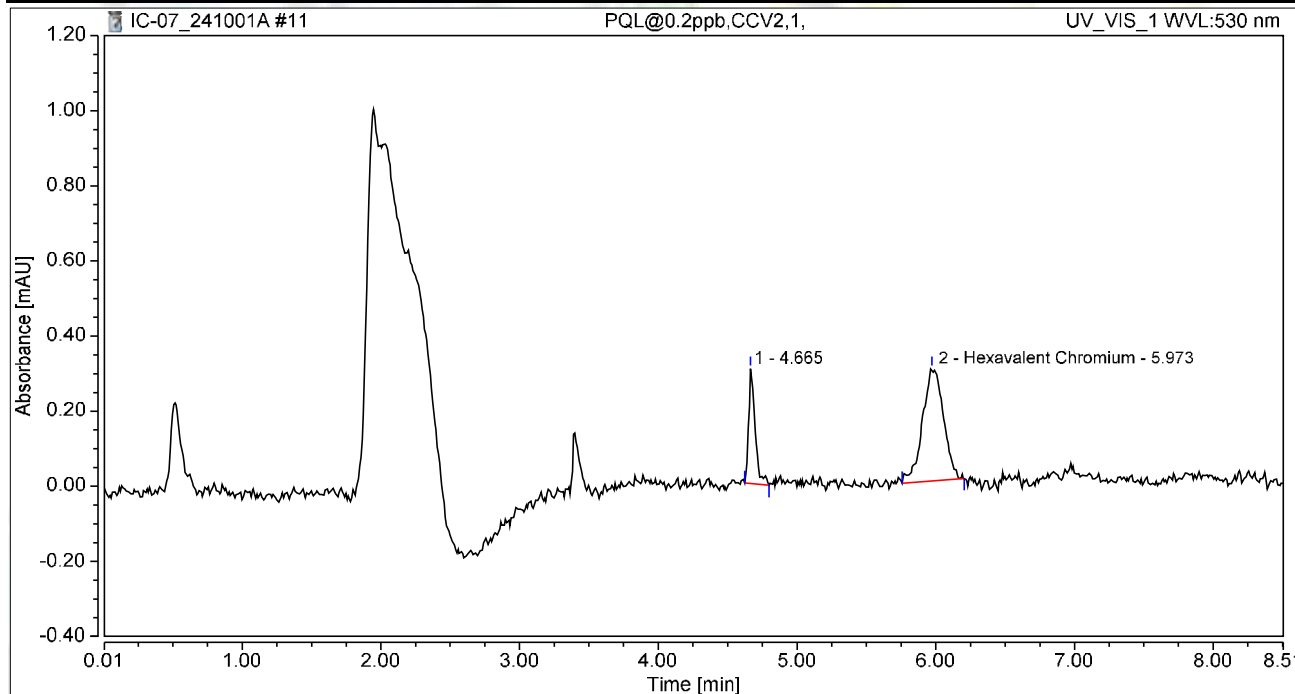
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.990	1.304	7.179	100.00	100.00	4.8023
Total:			1.304	7.179	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 11:48	Sample Weight:	1.0000

Chromatogram



Integration Results

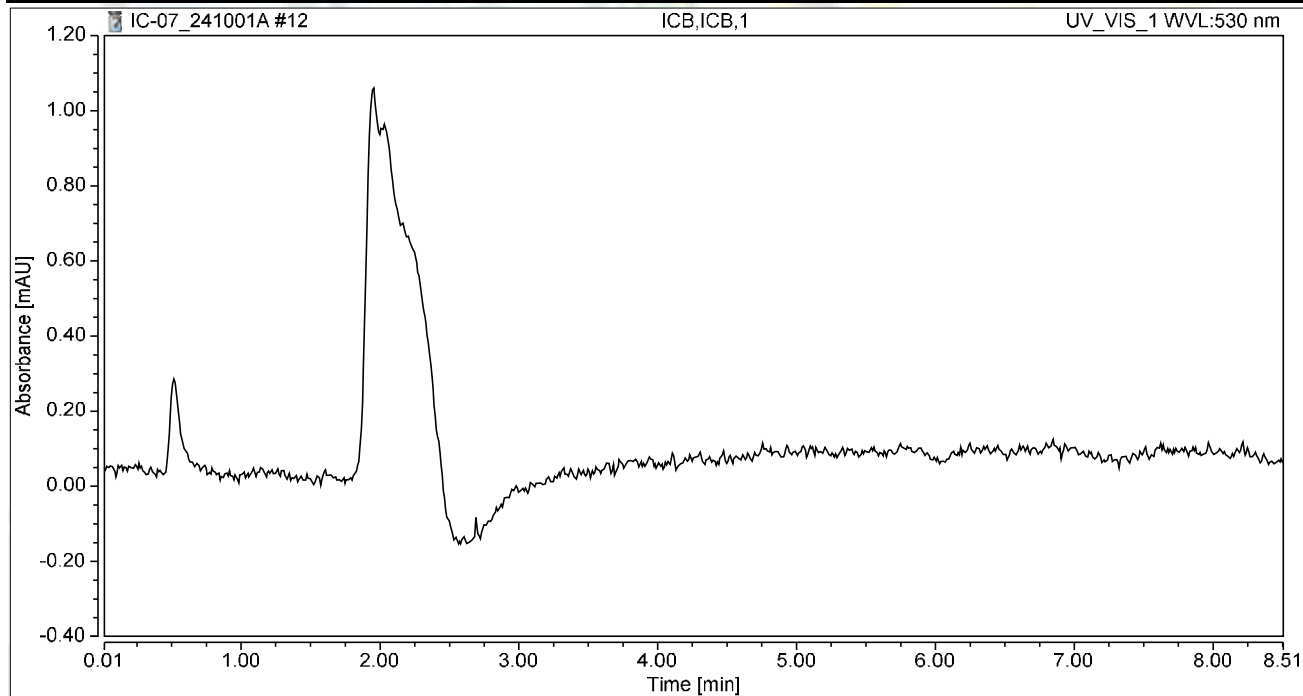
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		4.665	0.017	0.306	24.06	50.53	n.a.
2	Hexavalent Chromium	5.973	0.053	0.299	75.94	49.47	0.1940
Total:			0.069	0.605	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	ICB,ICB,1	Run Time (min):	8.49
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 11:57	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

RAW DATA



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P: 702.307.2659 F: 702.307.2691

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INJECTION LOG: 241011A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/01/24 10:06 AM	Not Reported
2	BLANK	BLANK	1	Hexavalent Chromium	10/01/24 10:20 AM	Not Reported
3	iBLANK	iBLANK	1	Hexavalent Chromium	10/01/24 10:29 AM	Reported
4	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:39 AM	Reported
5	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:48 AM	Reported
6	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:58 AM	Reported
7	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:07 AM	Reported
8	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:17 AM	Reported
9	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:26 AM	Reported
10	BLANK	BLANK	1	Hexavalent Chromium	10/11/24 9:13 AM	Not Reported
11	CCV-1	CCV	1	Hexavalent Chromium	10/11/24 9:26 AM	Reported
12	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/11/24 9:35 AM	NOT Reported
13	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/11/24 9:52 AM	Reported
14	CCB-1	CCB	1	Hexavalent Chromium	10/11/24 10:03 AM	Reported
15	MB-R194215	MBLK	1	Hexavalent Chromium	10/11/24 10:12 AM	Reported
16	LCS-R194215	LCS	1	Hexavalent Chromium	10/11/24 10:22 AM	Reported
17	N069105-005A	SAMP	5	Hexavalent Chromium	10/11/24 10:35 AM	Reported
18	N069105-005AMS	MS	5	Hexavalent Chromium	10/11/24 10:46 AM	Reported
19	N069105-011A	SAMP	5	Hexavalent Chromium	10/11/24 10:56 AM	Reported
20	N069105-011AMS	MS	5	Hexavalent Chromium	10/11/24 11:05 AM	Reported
21	N069105-012A	SAMP	5	Hexavalent Chromium	10/11/24 11:15 AM	Reported
22	N069105-012AMS	MS	5	Hexavalent Chromium	10/11/24 11:24 AM	Reported
23	N069105-007A	SAMP	1	Hexavalent Chromium	10/11/24 11:33 AM	Reported
24	N069105-007AMS	MS	1	Hexavalent Chromium	10/11/24 11:43 AM	Reported
25	CCV-2	CCV1	1	Hexavalent Chromium	10/11/24 11:52 AM	Reported
26	CCB-2	CCB	1	Hexavalent Chromium	10/11/24 12:02 PM	Reported
27	N069062-001A	SAMP	1	Hexavalent Chromium	10/11/24 12:11 PM	Reported
28	N069062-001AMS	MS	1	Hexavalent Chromium	10/11/24 12:21 PM	Reported
29	N069062-002A	SAMP	1	Hexavalent Chromium	10/11/24 12:30 PM	Reported
30	N069062-002AMS	MS	1	Hexavalent Chromium	10/11/24 12:40 PM	Reported
31	N069062-003A	SAMP	1	Hexavalent Chromium	10/11/24 12:49 PM	Reported
32	N069062-003AMS	MS	1	Hexavalent Chromium	10/11/24 12:59 PM	Reported
33	N069103-010A	SAMP	1	Hexavalent Chromium	10/11/24 1:08 PM	Reported
34	N069103-012A	SAMP	1	Hexavalent Chromium	10/11/24 1:18 PM	Reported
35	N069103-013A	SAMP	1	Hexavalent Chromium	10/11/24 1:27 PM	Reported
36	N069103-014A	SAMP	1	Hexavalent Chromium	10/11/24 1:36 PM	Reported
37	CCV-3	CCV	1	Hexavalent Chromium	10/11/24 1:46 PM	Reported
38	CCB-3	CCB	1	Hexavalent Chromium	10/11/24 1:55 PM	Reported
39	N069103-015A	SAMP	1	Hexavalent Chromium	10/11/24 2:05 PM	Reported
40	N069103-016A	SAMP	1	Hexavalent Chromium	10/11/24 2:14 PM	Reported
41	N069103-017A	SAMP	1	Hexavalent Chromium	10/11/24 2:24 PM	Reported
42	N069101-002A	SAMP	1	Hexavalent Chromium	10/11/24 2:33 PM	Reported

INJECTION LOG: 241011A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069101-003A	SAMP	1	Hexavalent Chromium	10/11/24 2:43 PM	Reported
44	N069101-004A	SAMP	1	Hexavalent Chromium	10/11/24 2:52 PM	Reported
45	N069101-005A	SAMP	1	Hexavalent Chromium	10/11/24 3:02 PM	Reported
46	N069101-006A	SAMP	1	Hexavalent Chromium	10/11/24 3:11 PM	Reported
47	N069105-011AMSD	MSD	5	Hexavalent Chromium	10/11/24 3:21 PM	Reported
48	CCV-4	CCV1	1	Hexavalent Chromium	10/11/24 3:30 PM	Reported
49	CCB-4	CCB	1	Hexavalent Chromium	10/11/24 3:39 PM	Reported
50	N069103-010ADUP	DUP	1	Hexavalent Chromium	10/11/24 3:49 PM	Reported
51	MB-R194216	MBLK	1	Hexavalent Chromium	10/11/24 3:58 PM	Reported
52	LCS-R194216	LCS	1	Hexavalent Chromium	10/11/24 4:08 PM	Reported
53	N069146-013A	SAMP	100	Hexavalent Chromium	10/11/24 4:17 PM	Reported
54	N069146-013AMS	MS	100	Hexavalent Chromium	10/11/24 4:32 PM	Reported
55	N069146-013AMSD	MSD	100	Hexavalent Chromium	10/11/24 4:43 PM	Reported
56	N069102-001A	SAMP	1	Hexavalent Chromium	10/11/24 4:53 PM	Reported
57	N069102-001ADUP	DUP	1	Hexavalent Chromium	10/11/24 5:02 PM	Reported
58	N069102-002A	SAMP	1	Hexavalent Chromium	10/11/24 5:12 PM	Reported
59	N069102-003A	SAMP	1	Hexavalent Chromium	10/11/24 5:21 PM	Reported
60	CCV-5	CCV	1	Hexavalent Chromium	10/11/24 5:30 PM	Reported
61	CCB-5	CCB	1	Hexavalent Chromium	10/11/24 5:40 PM	Reported
62	N069102-004A	SAMP	1	Hexavalent Chromium	10/11/24 5:49 PM	Reported
63	N069102-005A	SAMP	1	Hexavalent Chromium	10/11/24 5:59 PM	Reported
64	N069146-001A	SAMP	1	Hexavalent Chromium	10/11/24 6:08 PM	Not Reported
65	N069146-001AMS	MS	1	Hexavalent Chromium	10/11/24 6:18 PM	Not Reported
66	N069146-002A	SAMP	1	Hexavalent Chromium	10/11/24 6:27 PM	Not Reported
67	N069146-002AMS	MS	1	Hexavalent Chromium	10/11/24 6:37 PM	Not Reported
68	N069146-003A	SAMP	1	Hexavalent Chromium	10/11/24 6:46 PM	Not Reported
69	N069146-003AMS	MS	1	Hexavalent Chromium	10/11/24 6:56 PM	Not Reported
70	N069146-004A	SAMP	1	Hexavalent Chromium	10/11/24 7:05 PM	Reported
71	N069146-004AMS	MS	1	Hexavalent Chromium	10/11/24 7:15 PM	Reported
72	CCV-6	CCV1	1	Hexavalent Chromium	10/11/24 7:24 PM	Reported
73	CCB-6	CCB	1	Hexavalent Chromium	10/11/24 7:33 PM	Reported
74	N069146-005A	SAMP	1	Hexavalent Chromium	10/11/24 7:43 PM	Reported
75	N069146-005AMS	MS	1	Hexavalent Chromium	10/11/24 7:52 PM	Reported
76	N069146-006A	SAMP	1	Hexavalent Chromium	10/11/24 8:02 PM	Reported
77	N069146-006AMS	MS	1	Hexavalent Chromium	10/11/24 8:11 PM	Reported
78	N069146-007A	SAMP	1	Hexavalent Chromium	10/11/24 8:21 PM	Not Reported
79	N069146-007AMS	MS	1	Hexavalent Chromium	10/11/24 8:30 PM	Not Reported
80	N069146-008A	SAMP	1	Hexavalent Chromium	10/11/24 8:40 PM	Reported
81	N069146-008AMS	MS	1	Hexavalent Chromium	10/11/24 8:49 PM	Reported
82	N069146-009A	SAMP	1	Hexavalent Chromium	10/11/24 8:59 PM	Reported
83	N069146-009AMS	MS	1	Hexavalent Chromium	10/11/24 9:08 PM	Reported
84	CCV-7	CCV	1	Hexavalent Chromium	10/11/24 9:18 PM	Reported

INJECTION LOG: 241011A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	CCB-7	CCB	1	Hexavalent Chromium	10/11/24 9:27 PM	Reported
86	N069146-010A	SAMP	1	Hexavalent Chromium	10/11/24 9:36 PM	Reported
87	N069146-010AMS	MS	1	Hexavalent Chromium	10/11/24 9:46 PM	Reported
88	N069146-011A	SAMP	1	Hexavalent Chromium	10/11/24 9:55 PM	Not Reported
89	N069146-011AMS	MS	1	Hexavalent Chromium	10/11/24 10:05 PM	Not Reported
90	N069146-012A	SAMP	1	Hexavalent Chromium	10/11/24 10:14 PM	Not Reported
91	N069146-012AMS	MS	1	Hexavalent Chromium	10/11/24 10:24 PM	Not Reported
92	N069146-001A	SAMP	5	Hexavalent Chromium	10/11/24 10:33 PM	Reported
93	N069146-001AMS	MS	5	Hexavalent Chromium	10/11/24 10:43 PM	Reported
94	N069146-002A	SAMP	5	Hexavalent Chromium	10/11/24 10:52 PM	Reported
95	N069146-002AMS	MS	5	Hexavalent Chromium	10/11/24 11:02 PM	Reported
96	CCV-8	CCV1	1	Hexavalent Chromium	10/11/24 11:11 PM	Reported
97	CCB-8	CCB	1	Hexavalent Chromium	10/11/24 11:20 PM	Reported
98	N069146-007A	SAMP	5	Hexavalent Chromium	10/11/24 11:30 PM	Not Reported
99	N069146-007AMS	MS	5	Hexavalent Chromium	10/11/24 11:39 PM	Not Reported
100	N069103-003A	SAMP	5	Hexavalent Chromium	10/11/24 11:49 PM	Not Reported
101	CCV-9	CCV	1	Hexavalent Chromium	10/11/24 11:58 PM	Not Reported
102	CCB-9	CCB	1	Hexavalent Chromium	10/12/24 12:08 AM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241011A	Created On:	24Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	12/Oct/24 00:38:33
No. of Injections:	105	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/01/2024 10:06	Finished	BLANK
2	BLANK	2	1000	Unknown		10/01/2024 10:20	Finished	BLANK
3	iBLANK	3	1000	Unknown		10/01/2024 10:29	Finished	INSTRUMENT BLANK
4	STD1-0.2 ppb	4	1000	Calibration Standard	01	10/01/2024 10:39	Finished	0.2 ppb, IWST-240729A, 2uL>
5	STD2-1.0 ppb	5	1000	Calibration Standard	02	10/01/2024 10:48	Finished	1.0 ppb, IWST-240729A, 10uL>
6	STD3-5.0 ppb	6	1000	Calibration Standard	03	10/01/2024 10:58	Finished	5.0 ppb, IWST-240729A, 50uL>
7	STD4-10.0 ppb	7	1000	Calibration Standard	04	10/01/2024 11:07	Finished	10 ppb, IWST-240729A, 100uL>
8	STD5-15.0 ppb	8	1000	Calibration Standard	05	10/01/2024 11:17	Finished	15 ppb, IWST-240729A, 150uL>
9	STD6-20.0 ppb	9	1000	Calibration Standard	06	10/01/2024 11:26	Finished	20 ppb, IWST-240729A, 200uL>
10	BLANK	1	1000	Unknown		10/11/2024 09:13	Finished	BLANK
11	CCV-1.CCV,1,	2	1000	Unknown		10/11/2024 09:26	Finished	CCV @5ppb, IWST-240729A
12	PQL@0.2ppb.CCV2,	3	1000	Unknown		10/11/2024 09:35	Finished	PQL @ 0.2ppb
13	PQL@0.2ppb.CCV2,	1	1000	Unknown		10/11/2024 09:52	Finished	PQL @ 0.2ppb
14	CCB-1.CCB,1,	2	1000	Unknown		10/11/2024 10:03	Finished	CCB R240923C
15	MB-H2O.MBLK,1,	3	1000	Unknown		10/11/2024 10:12	Finished	MB R240923C
16	LCS-H2O.LCS,1,	4	1000	Unknown		10/11/2024 10:22	Finished	LCS @5ppb, IWST-240729B
17	N069105-005A,SAMP	1	1000	Unknown		10/11/2024 10:35	Finished	SAMP,2>10 mL
18	N069105-005AMS,MS	2	1000	Unknown		10/11/2024 10:46	Finished	MS (1ppb), IWST-240729B,2>10 mL
19	N069105-011A,SAMP	3	1000	Unknown		10/11/2024 10:56	Finished	SAMP,2>10 mL
20	N069105-011AMS,MS	4	1000	Unknown		10/11/2024 11:05	Finished	MS (1ppb), IWST-240729B,2>10 mL
21	N069105-012A,SAMP	5	1000	Unknown		10/11/2024 11:15	Finished	SAMP,2>10 mL
22	N069105-012AMS,MS	6	1000	Unknown		10/11/2024 11:24	Finished	MS (1ppb), IWST-240729B,2>10 mL
23	N069105-007A,SAMP	7	1000	Unknown		10/11/2024 11:33	Finished	SAMP,10 mL
24	N069105-007AMS,MS	8	1000	Unknown		10/11/2024 11:43	Finished	MS (1ppb), IWST-240729B,10r
25	CCV-2.CCV1,1,	9	1000	Unknown		10/11/2024 11:52	Finished	CCV @10ppb, IWST-240729A
26	CCB-2.CCB,1,	10	1000	Unknown		10/11/2024 12:02	Finished	CCB R240923C
27	N069062-001A,SAMP	11	1000	Unknown		10/11/2024 12:11	Finished	SAMP,10 mL
28	N069062-001AMS,MS	12	1000	Unknown		10/11/2024 12:21	Finished	MS (1ppb), IWST-240729B,10r
29	N069062-002A,SAMP	13	1000	Unknown		10/11/2024 12:30	Finished	SAMP,10 mL
30	N069062-002AMS,MS	14	1000	Unknown		10/11/2024 12:40	Finished	MS (1ppb), IWST-240729B,10r
31	N069062-003A,SAMP	15	1000	Unknown		10/11/2024 12:49	Finished	SAMP,10 mL
32	N069062-003AMS,MS	16	1000	Unknown		10/11/2024 12:59	Finished	MS (1ppb), IWST-240729B,10r
33	N069103-010A,SAMP	17	1000	Unknown		10/11/2024 13:08	Finished	SAMP,10 mL
34	N069103-012A,SAMP	18	1000	Unknown		10/11/2024 13:18	Finished	SAMP,10 mL
35	N069103-013A,SAMP	19	1000	Unknown		10/11/2024 13:27	Finished	SAMP,10 mL
36	N069103-014A,SAMP	20	1000	Unknown		10/11/2024 13:36	Finished	SAMP,10 mL
37	CCV-3.CCV,1,	21	1000	Unknown		10/11/2024 13:46	Finished	CCV @5ppb, IWST-240729A
38	CCB-3.CCB,1,	22	1000	Unknown		10/11/2024 13:55	Finished	CCB R240923C
39	N069103-015A,SAMP	23	1000	Unknown		10/11/2024 14:05	Finished	SAMP,10 mL
40	N069103-016A,SAMP	24	1000	Unknown		10/11/2024 14:14	Finished	SAMP,10 mL
41	N069103-017A,SAMP	25	1000	Unknown		10/11/2024 14:24	Finished	SAMP,10 mL
42	N069101-002A,SAMP	26	1000	Unknown		10/11/2024 14:33	Finished	SAMP,10 mL
43	N069101-003A,SAMP	27	1000	Unknown		10/11/2024 14:43	Finished	SAMP,10 mL
44	N069101-004A,SAMP	28	1000	Unknown		10/11/2024 14:52	Finished	SAMP,10 mL
45	N069101-005A,SAMP	29	1000	Unknown		10/11/2024 15:02	Finished	SAMP,10 mL
46	N069101-006A,SAMP	30	1000	Unknown		10/11/2024 15:11	Finished	SAMP,10 mL
47	N069105-011AMSD,N	31	1000	Unknown		10/11/2024 15:21	Finished	MSD (1ppb), IWST-240729B,2
48	CCV-4.CCV1,1,	32	1000	Unknown		10/11/2024 15:30	Finished	CCV @10ppb, IWST-240729A
49	CCB-4.CCB,1,	33	1000	Unknown		10/11/2024 15:39	Finished	CCB R240923C
50	N069103-010ADUP,D	34	1000	Unknown		10/11/2024 15:49	Finished	DUP,10 mL
51	MB-2.MBLK,1,	35	1000	Unknown		10/11/2024 15:58	Finished	MB R240923C
52	LCS-2.LCS,1,	36	1000	Unknown		10/11/2024 16:08	Finished	LCS @5ppb, IWST-240729B
53	N069146-013A,SAMP	37	1000	Unknown		10/11/2024 16:17	Finished	SAMP,0.1>10 mL
54	N069146-013AMS,MS	1	1000	Unknown		10/11/2024 16:32	Finished	MS (5ppb), IWST-240729B,0.1
55	N069146-013AMSD,N	2	1000	Unknown		10/11/2024 16:43	Finished	MSD (5ppb), IWST-240729B,0
56	N069102-001A,SAMP	3	1000	Unknown		10/11/2024 16:53	Finished	SAMP,10 mL
57	N069102-001ADUP,D	4	1000	Unknown		10/11/2024 17:02	Finished	DUP,10 mL
58	N069102-002A,SAMP	5	1000	Unknown		10/11/2024 17:12	Finished	SAMP,10 mL
59	N069102-003A,SAMP	6	1000	Unknown		10/11/2024 17:21	Finished	SAMP,10 mL
60	CCV-5.CCV,1,	7	1000	Unknown		10/11/2024 17:30	Finished	CCV @5ppb, IWST-240729A

61	CCB-5.CCB,1,	8	1000	Unknown	10/11/2024 17:40	Finished	CCB R240923C
62	N069102-004A,SAMP	9	1000	Unknown	10/11/2024 17:49	Finished	SAMP,10 mL
63	N069102-005A,SAMP	10	1000	Unknown	10/11/2024 17:59	Finished	SAMP,10 mL
64	N069146-001A,SAMP	11	1000	Unknown	10/11/2024 18:08	Finished	SAMP,10 mL
65	N069146-001AMS,MS	12	1000	Unknown	10/11/2024 18:18	Finished	MS (1ppb), IWST-240729B,10r
66	N069146-002A,SAMP	13	1000	Unknown	10/11/2024 18:27	Finished	SAMP,10 mL
67	N069146-002AMS,MS	14	1000	Unknown	10/11/2024 18:37	Finished	MS (1ppb), IWST-240729B,10r
68	N069146-003A,SAMP	15	1000	Unknown	10/11/2024 18:46	Finished	SAMP,10 mL
69	N069146-003AMS,MS	16	1000	Unknown	10/11/2024 18:56	Finished	MS (1ppb), IWST-240729B,10r
70	N069146-004A,SAMP	17	1000	Unknown	10/11/2024 19:05	Finished	SAMP,10 mL
71	N069146-004AMS,MS	18	1000	Unknown	10/11/2024 19:15	Finished	MS (1ppb), IWST-240729B,10r
72	CCV-6.CCV1,1,	19	1000	Unknown	10/11/2024 19:24	Finished	CCV @10ppb, IWST-240729A
73	CCB-6.CCB,1,	20	1000	Unknown	10/11/2024 19:33	Finished	CCB R240923C
74	N069146-005A,SAMP	21	1000	Unknown	10/11/2024 19:43	Finished	SAMP,10 mL
75	N069146-005AMS,MS	22	1000	Unknown	10/11/2024 19:52	Finished	MS (1ppb), IWST-240729B,10r
76	N069146-006A,SAMP	23	1000	Unknown	10/11/2024 20:02	Finished	SAMP,10 mL
77	N069146-006AMS,MS	24	1000	Unknown	10/11/2024 20:11	Finished	MS (1ppb), IWST-240729B,10r
78	N069146-007A,SAMP	25	1000	Unknown	10/11/2024 20:21	Finished	SAMP,10 mL
79	N069146-007AMS,MS	26	1000	Unknown	10/11/2024 20:30	Finished	MS (1ppb), IWST-240729B,10r
80	N069146-008A,SAMP	27	1000	Unknown	10/11/2024 20:40	Finished	SAMP,10 mL
81	N069146-008AMS,MS	28	1000	Unknown	10/11/2024 20:49	Finished	MS (1ppb), IWST-240729B,10r
82	N069146-009A,SAMP	29	1000	Unknown	10/11/2024 20:59	Finished	SAMP,10 mL
83	N069146-009AMS,MS	30	1000	Unknown	10/11/2024 21:08	Finished	MS (5ppb), IWST-240729B,10r
84	CCV-7.CCV,1,	31	1000	Unknown	10/11/2024 21:18	Finished	CCV @5ppb, IWST-240729A
85	CCB-7.CCB,1,	32	1000	Unknown	10/11/2024 21:27	Finished	CCB R240923C
86	N069146-010A,SAMP	33	1000	Unknown	10/11/2024 21:36	Finished	SAMP,10 mL
87	N069146-010AMS,MS	34	1000	Unknown	10/11/2024 21:46	Finished	MS (1ppb), IWST-240729B,10r
88	N069146-011A,SAMP	35	1000	Unknown	10/11/2024 21:55	Finished	SAMP,10 mL
89	N069146-011AMS,MS	36	1000	Unknown	10/11/2024 22:05	Finished	MS (1ppb), IWST-240729B,10r
90	N069146-012A,SAMP	37	1000	Unknown	10/11/2024 22:14	Finished	SAMP,10 mL
91	N069146-012AMS,MS	38	1000	Unknown	10/11/2024 22:24	Finished	MS (1ppb), IWST-240729B,10r
92	N069146-001A,SAMP	39	1000	Unknown	10/11/2024 22:33	Finished	SAMP,2>10 mL
93	N069146-001AMS,MS	40	1000	Unknown	10/11/2024 22:43	Finished	MS (1ppb), IWST-240729B,2>
94	N069146-002A,SAMP	41	1000	Unknown	10/11/2024 22:52	Finished	SAMP,2>10 mL
95	N069146-002AMS,MS	42	1000	Unknown	10/11/2024 23:02	Finished	MS (1ppb), IWST-240729B,2>
96	CCV-8.CCV1,1,	43	1000	Unknown	10/11/2024 23:11	Finished	CCV @10ppb, IWST-240729A
97	CCB-8.CCB,1,	44	1000	Unknown	10/11/2024 23:20	Finished	CCB R240923C
98	N069146-007A,SAMP	45	1000	Unknown	10/11/2024 23:30	Finished	SAMP,2>10 mL
99	N069146-007AMS,MS	46	1000	Unknown	10/11/2024 23:39	Finished	MS (1ppb), IWST-240729B,2>
100	N069103-003A,SAMP	47	1000	Unknown	10/11/2024 23:49	Finished	SAMP,2>10 mL
101	CCV-9.CCV,1,	48	1000	Unknown	10/11/2024 23:58	Finished	CCV @5ppb, IWST-240729A
102	CCB-9.CCB,1,	49	1000	Unknown	10/12/2024 00:08	Finished	CCB R240923C
103	SHUTDOWN	50	1000	Unknown	10/12/2024 00:17	Finished	
104	Eluent: R241007A	51	1000	Unknown	n.a.	Finished	
105	PCR: R241007B	CurrentVial	1000	Unknown	n.a.	Finished	

Reviewed by:

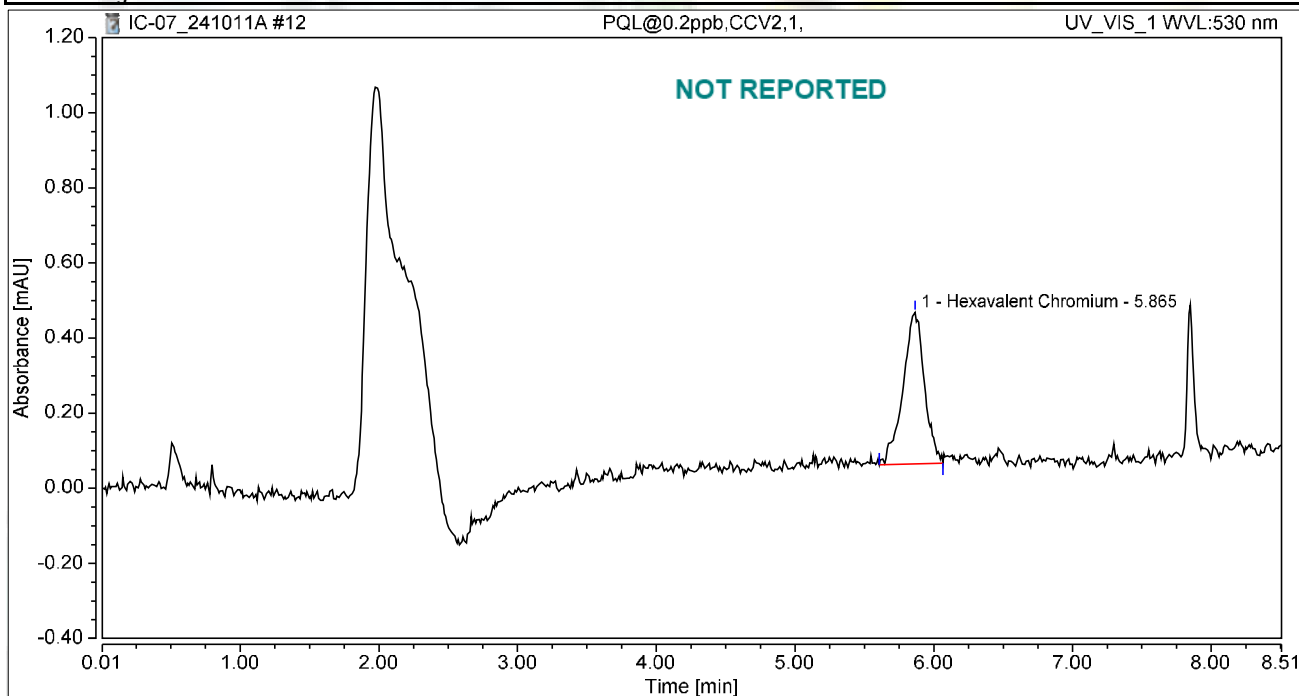
M. Rocha 10/24/2024

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 09:35	Sample Weight:	1.0000

Chromatogram



Integration Results

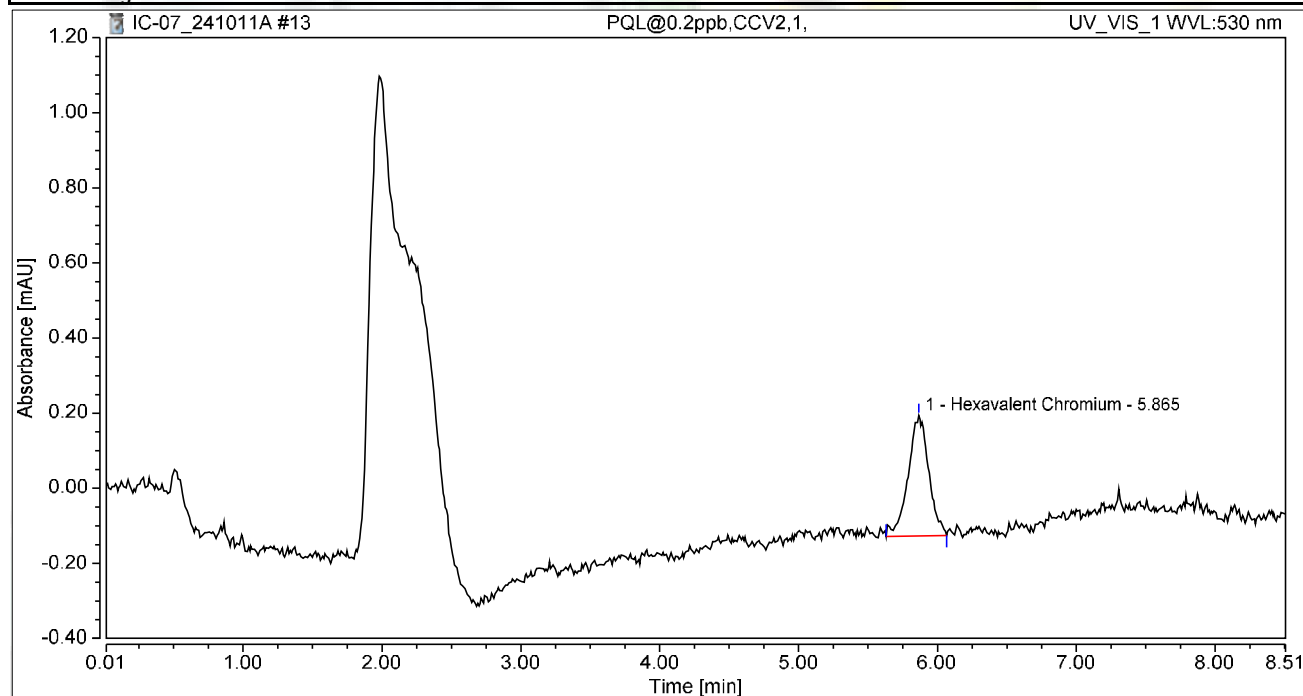
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.865	0.072	0.403	100.00	100.00	0.2648
Total:			0.072	0.403	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 09:52	Sample Weight:	1.0000

Chromatogram



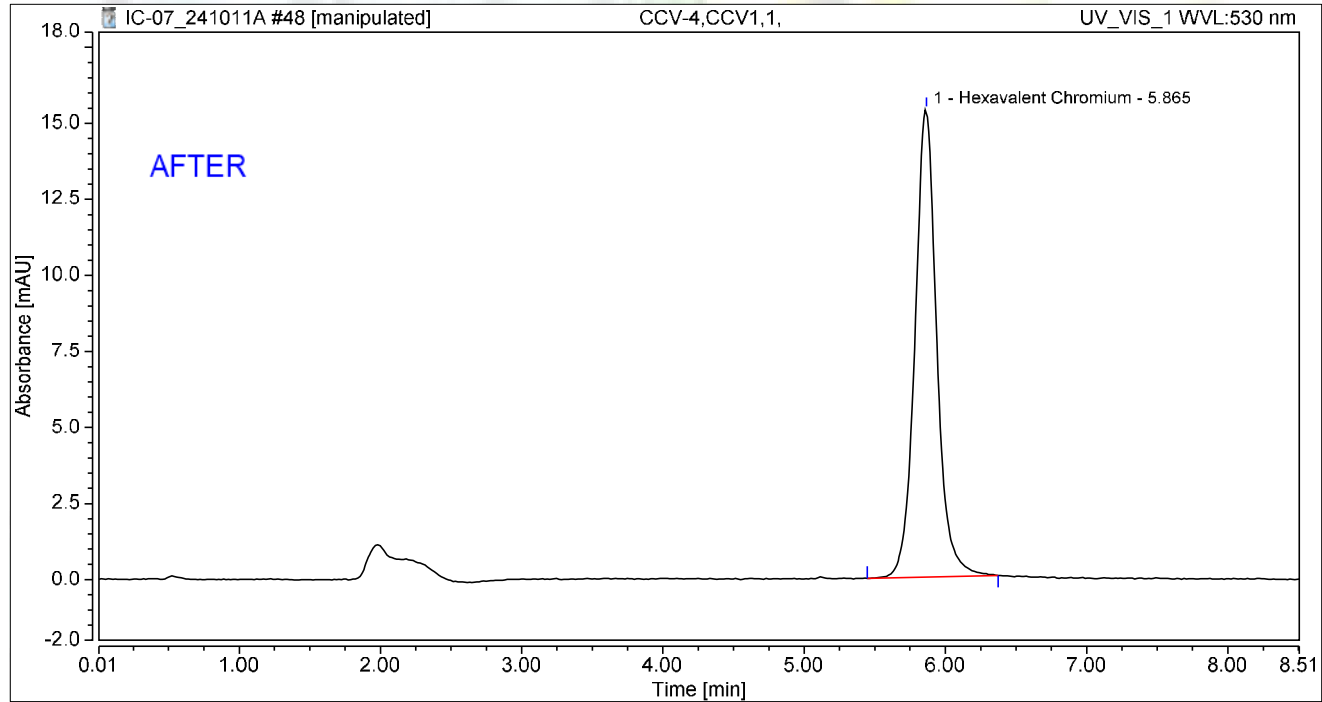
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.865	0.055	0.321	100.00	100.00	0.2018
Total:			0.055	0.321	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	CCV-4,CCV1,1,	Run Time (min): 8.50
Vial Number:	32	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Oct/24 15:30	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.865	2.755	15.379	100.00	100.00	10.1468
Total:			2.755	15.379	100.00	100.00	

Reviewed by:

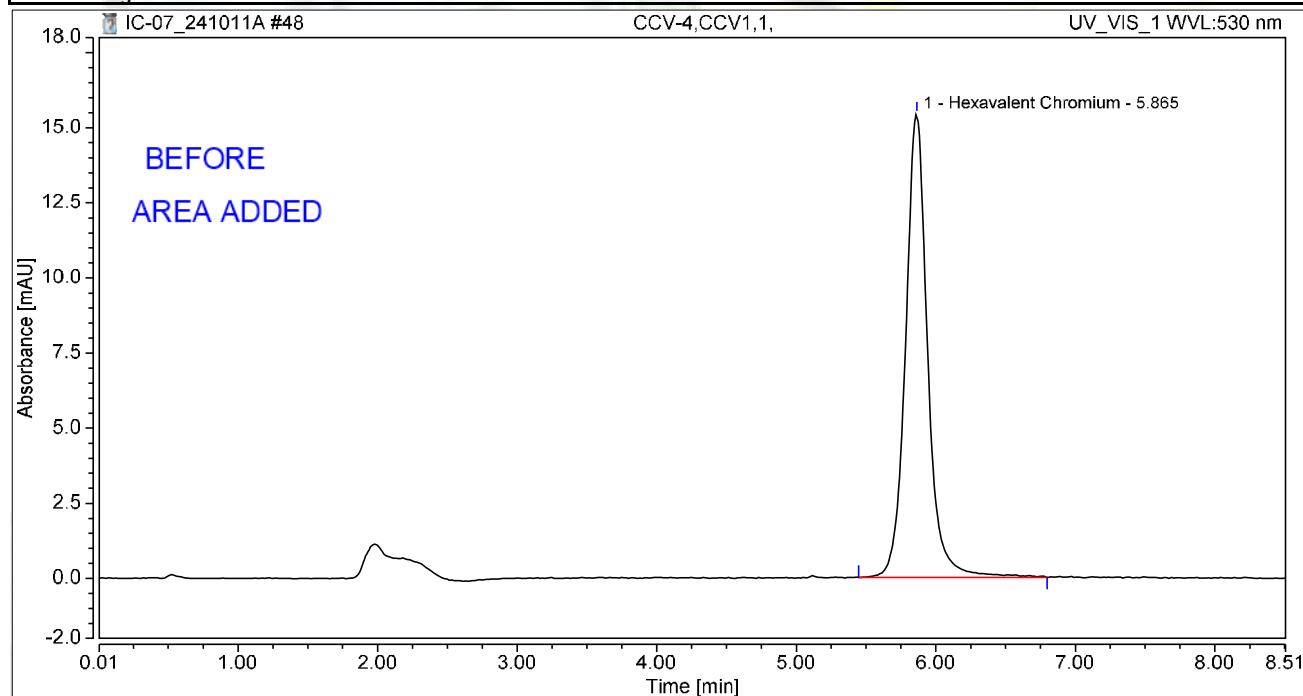
d/Rocha 10/24/2024

Chromatogram and Results

Injection Details

Injection Name:	CCV-4,CCV1,1,	Run Time (min):	8.50
Vial Number:	32	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 15:30	Sample Weight:	1.0000

Chromatogram



Integration Results

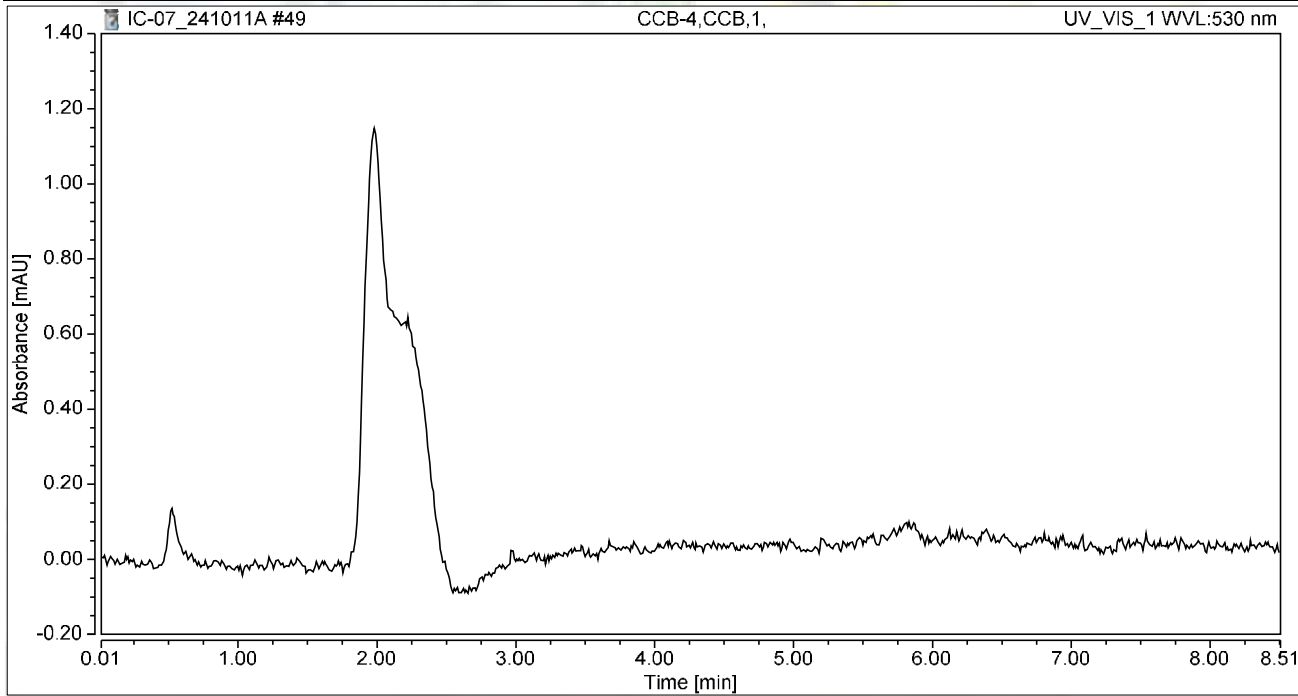
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.865	2.826	15.425	100.00	100.00	10.4109
Total:			2.826	15.425	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-4,CCB,1,	Run Time (min):	8.49
Vial Number:	33	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 15:39	Sample Weight:	1.0000

Chromatogram



Integration Results

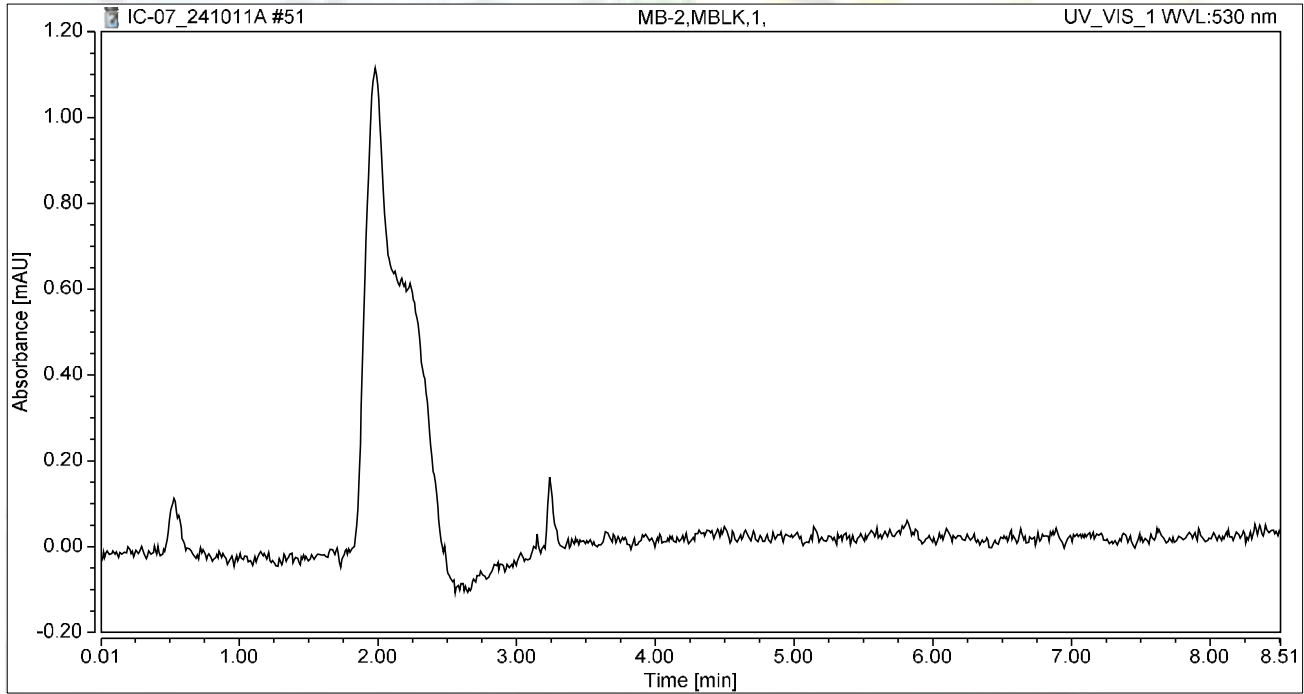
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-2,MBLK,1,	Run Time (min):	8.50
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 15:58	Sample Weight:	1.0000

Chromatogram



Integration Results

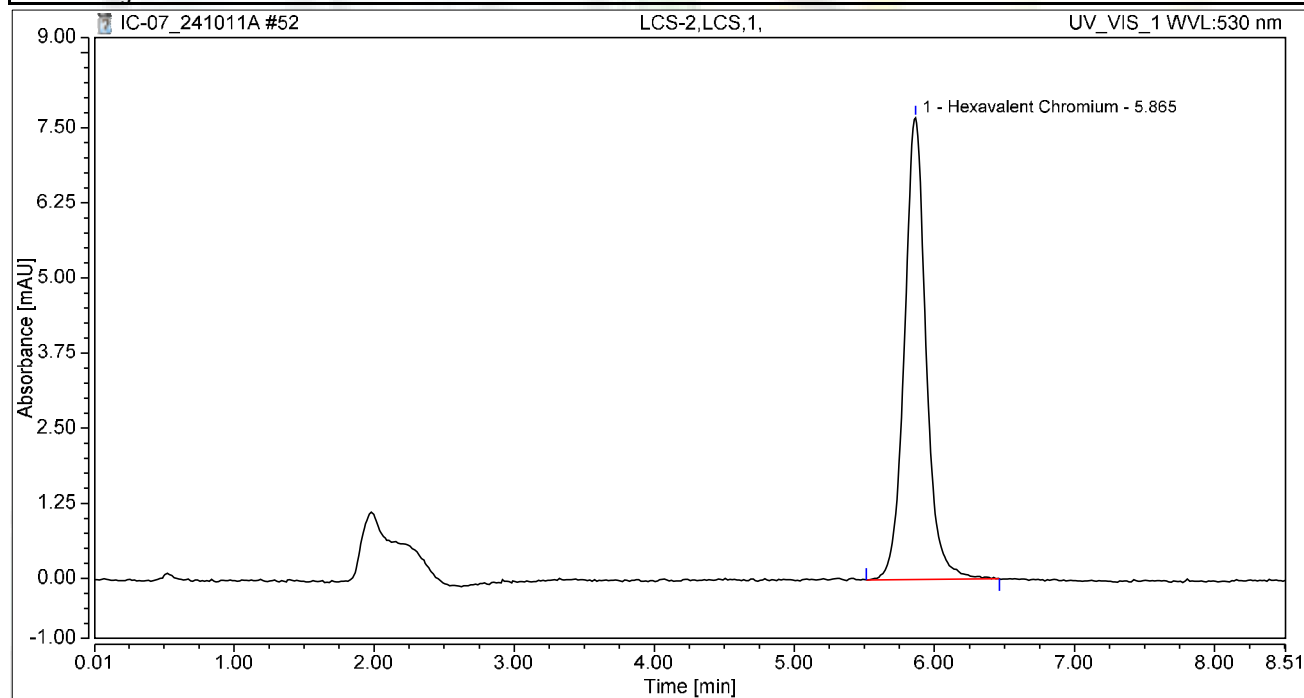
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-2,LCS,1,	Run Time (min):	8.50
Vial Number:	36	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 16:08	Sample Weight:	1.0000

Chromatogram



Integration Results

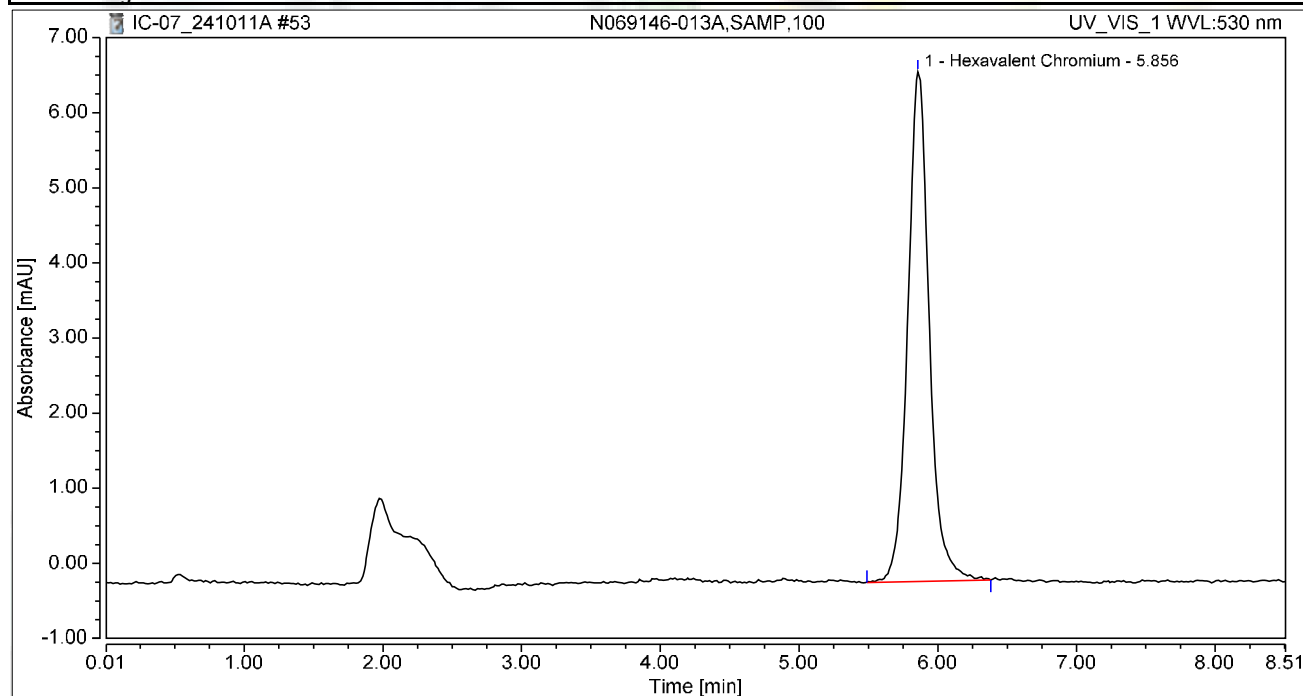
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.865	1.376	7.688	100.00	100.00	5.0691
Total:			1.376	7.688	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-013A,SAMP,100	Run Time (min):	8.50
Vial Number:	37	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 16:17	Sample Weight:	1.0000

Chromatogram



Integration Results

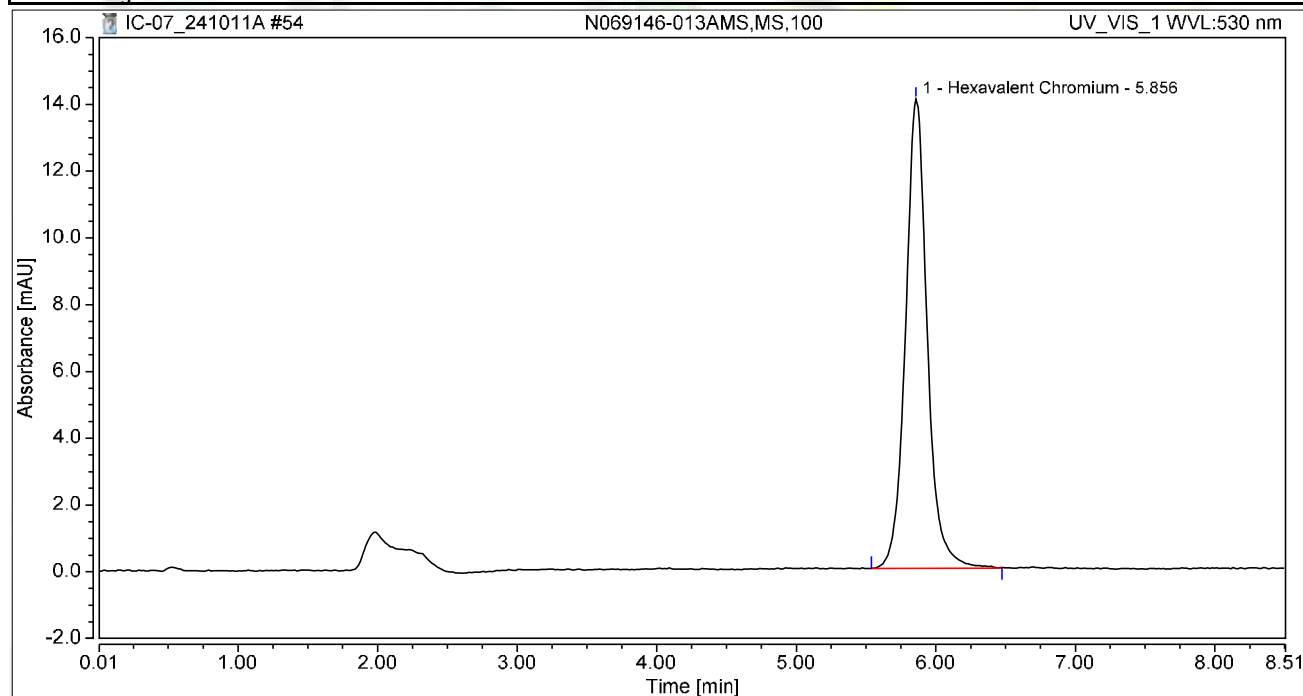
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.856	1.219	6.783	100.00	100.00	4.4893
Total:			1.219	6.783	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-013AMS,MS,100	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 16:32	Sample Weight:	1.0000

Chromatogram



Integration Results

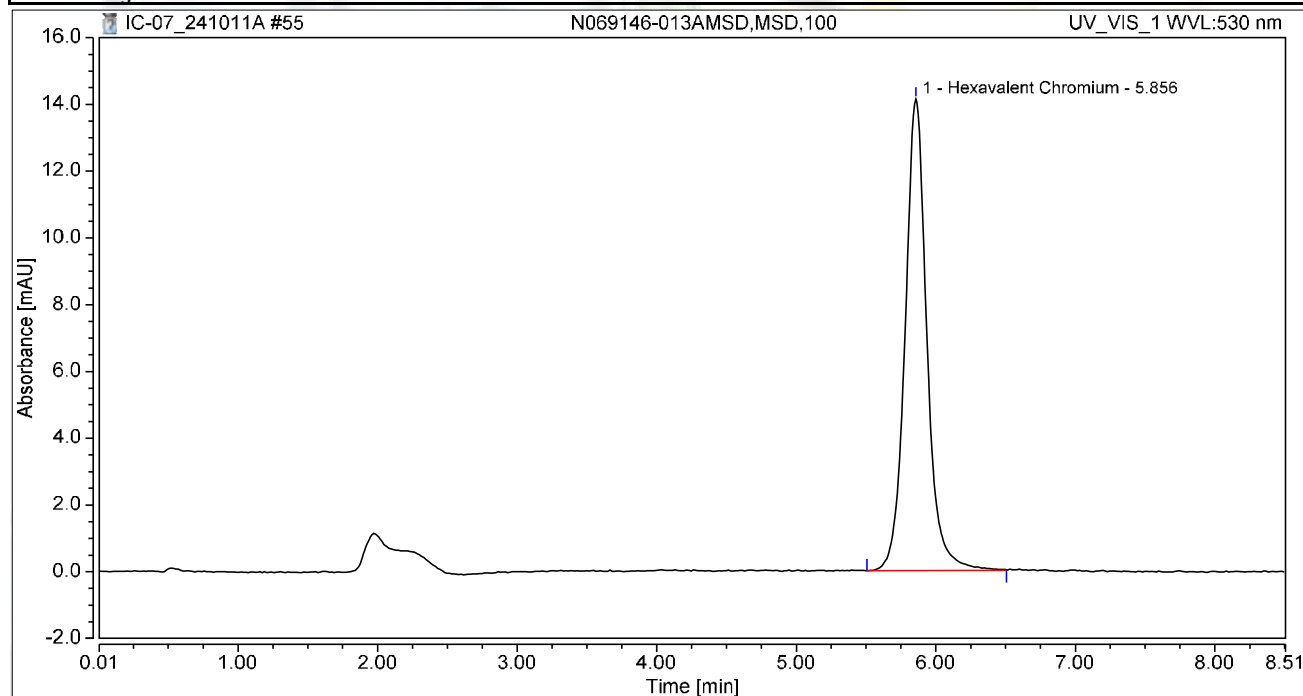
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.856	2.537	14.060	100.00	100.00	9.3448
Total:			2.537	14.060	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-013AMSD,MSD,100	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 16:43	Sample Weight:	1.0000

Chromatogram



Integration Results

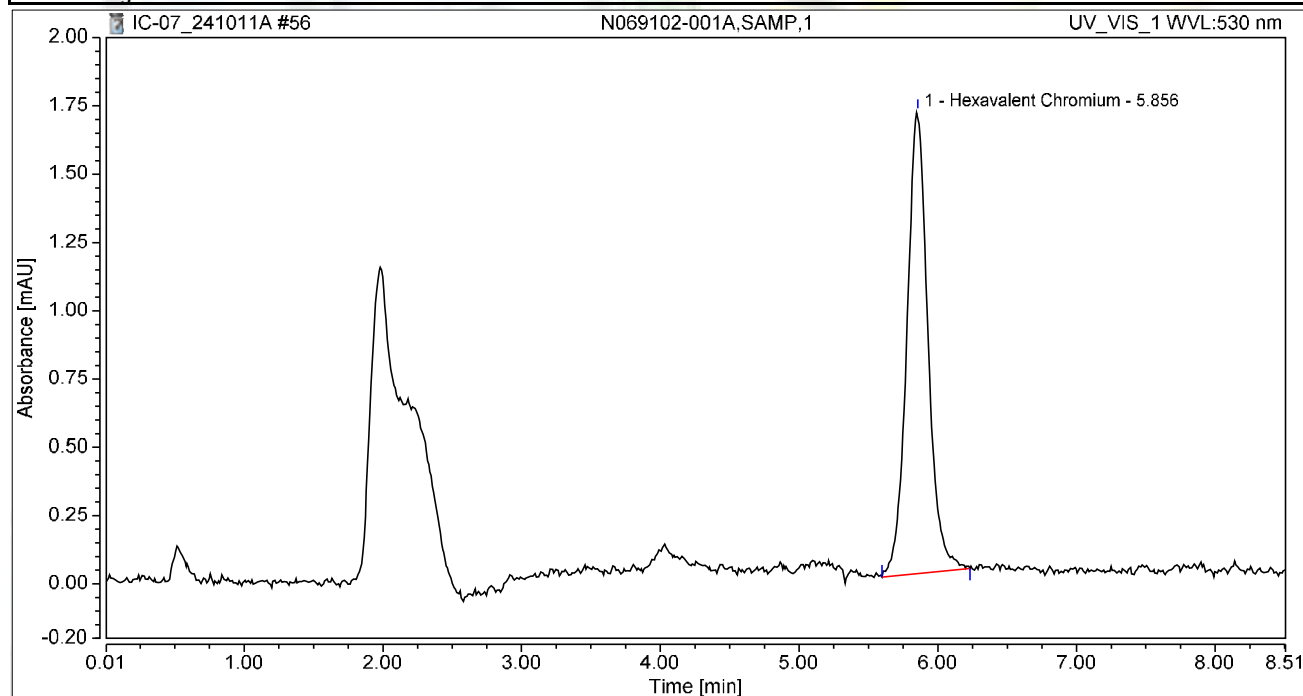
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.856	2.556	14.131	100.00	100.00	9.4134
Total:			2.556	14.131	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069102-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 16:53	Sample Weight:	1.0000

Chromatogram



Integration Results

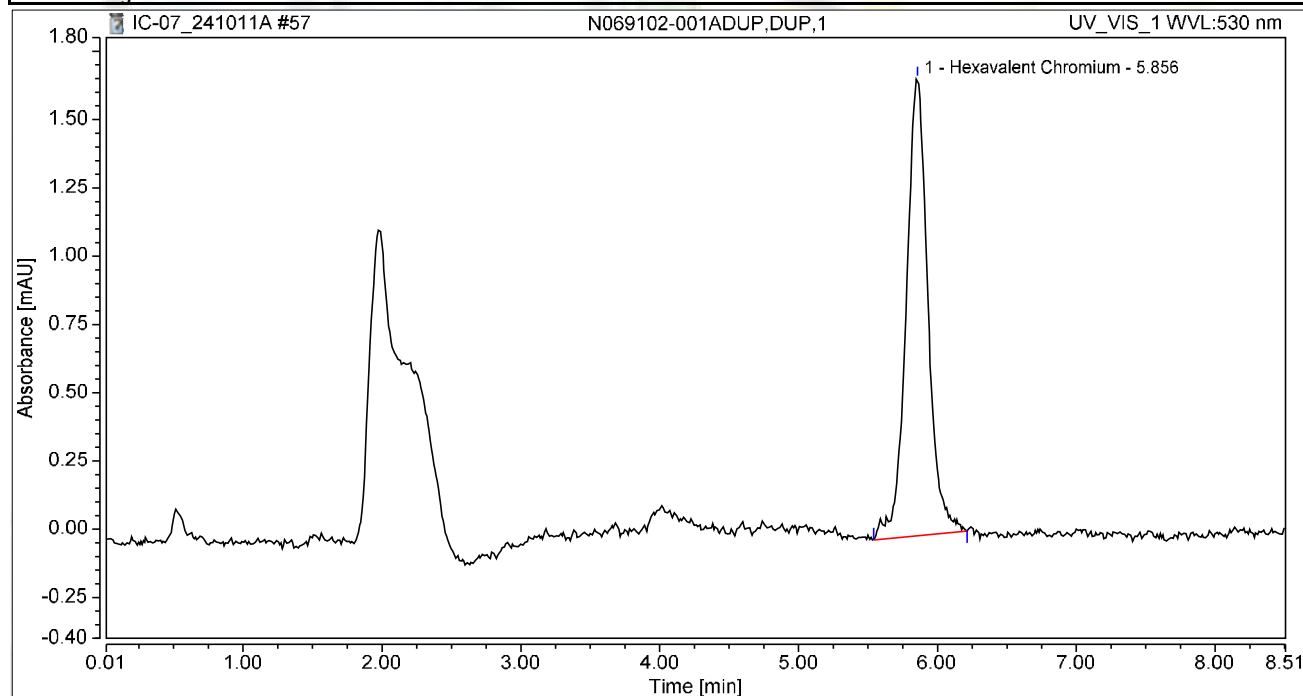
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.856	0.298	1.692	100.00	100.00	1.0969
Total:			0.298	1.692	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069102-001ADUP,DUP,1	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 17:02	Sample Weight:	1.0000

Chromatogram



Integration Results

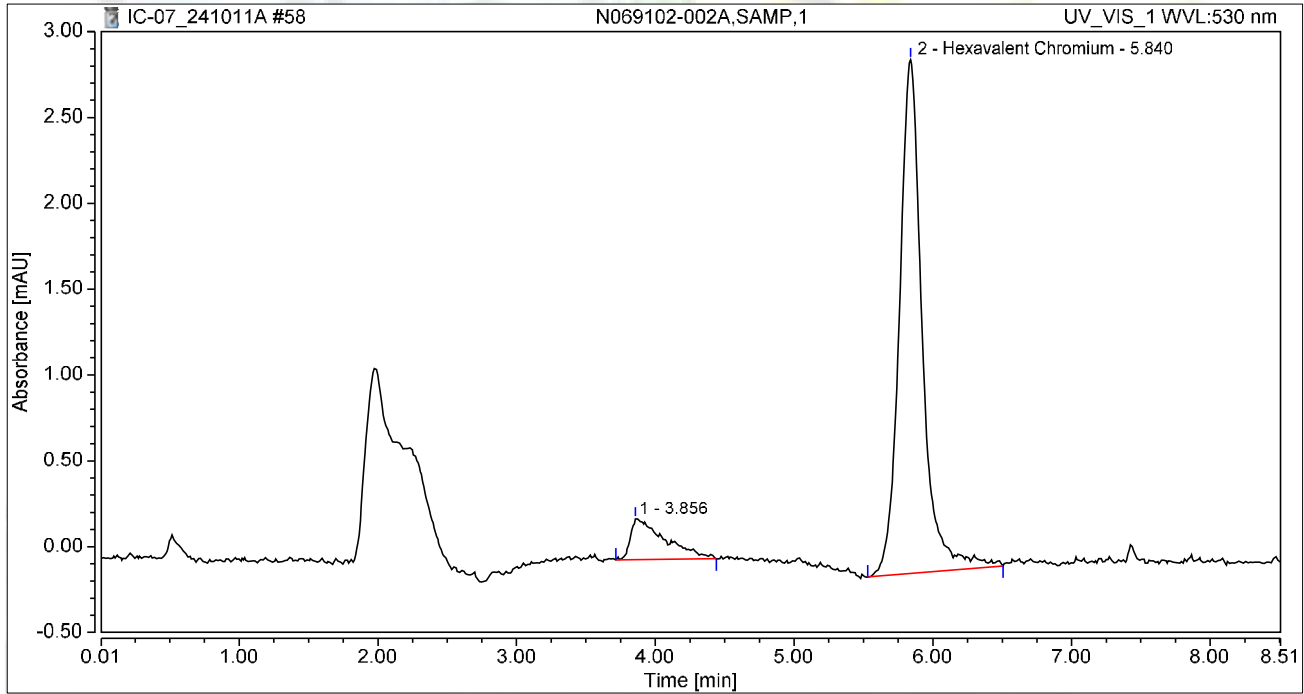
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.856	0.303	1.674	100.00	100.00	1.1162
Total:			0.303	1.674	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069102-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 17:12	Sample Weight:	1.0000

Chromatogram



Integration Results

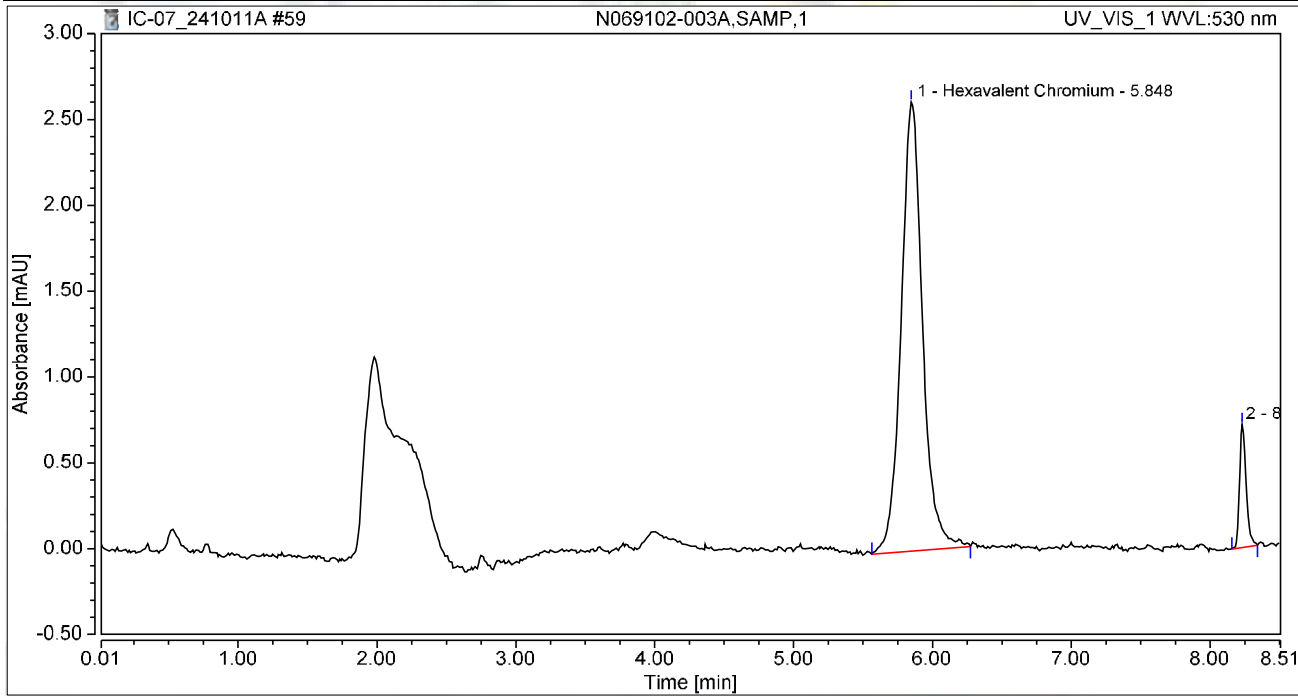
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.856	0.069	0.236	10.71	7.32	n.a.
2	Hexavalent Chromium	5.840	0.572	2.993	89.29	92.68	2.1056
Total:			0.640	3.229	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069102-003A,SAMP,1	Run Time (min):	8.49
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 17:21	Sample Weight:	1.0000

Chromatogram



Integration Results

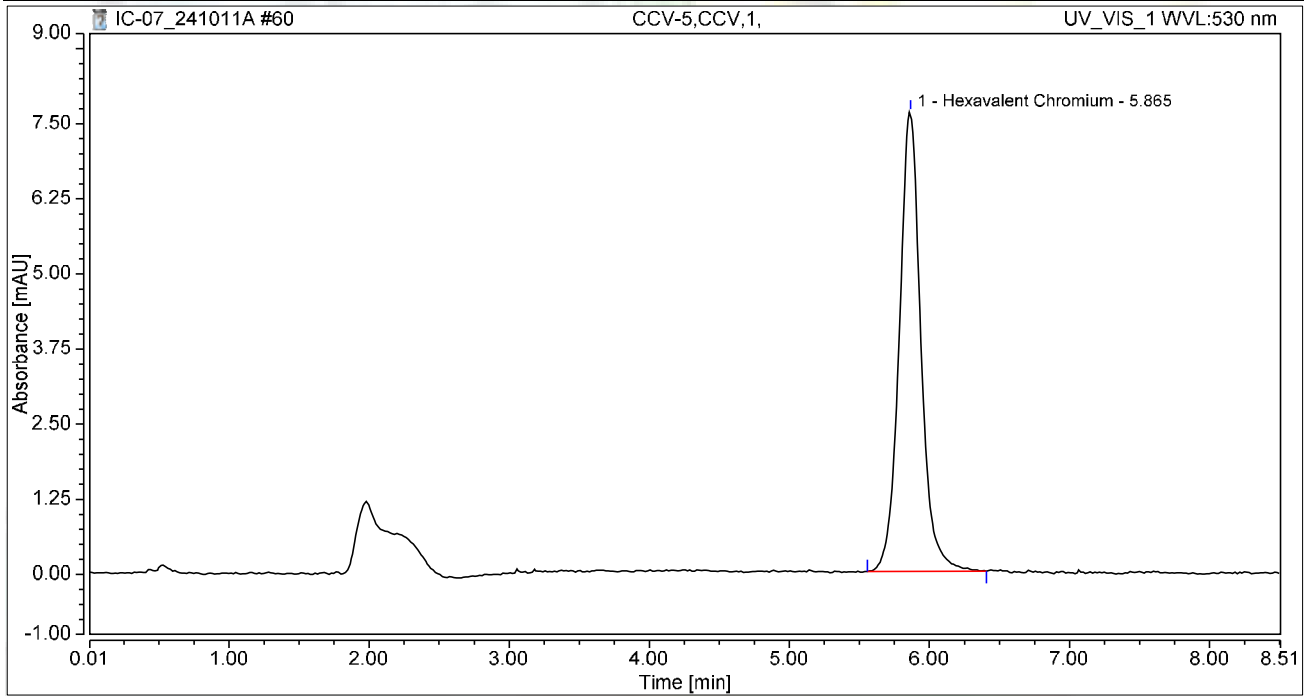
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.848	0.467	2.616	92.18	78.52	1.7184
2		8.231	0.040	0.716	7.82	21.48	n.a.
Total:			0.506	3.332	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 17:30	Sample Weight:	1.0000

Chromatogram



Integration Results

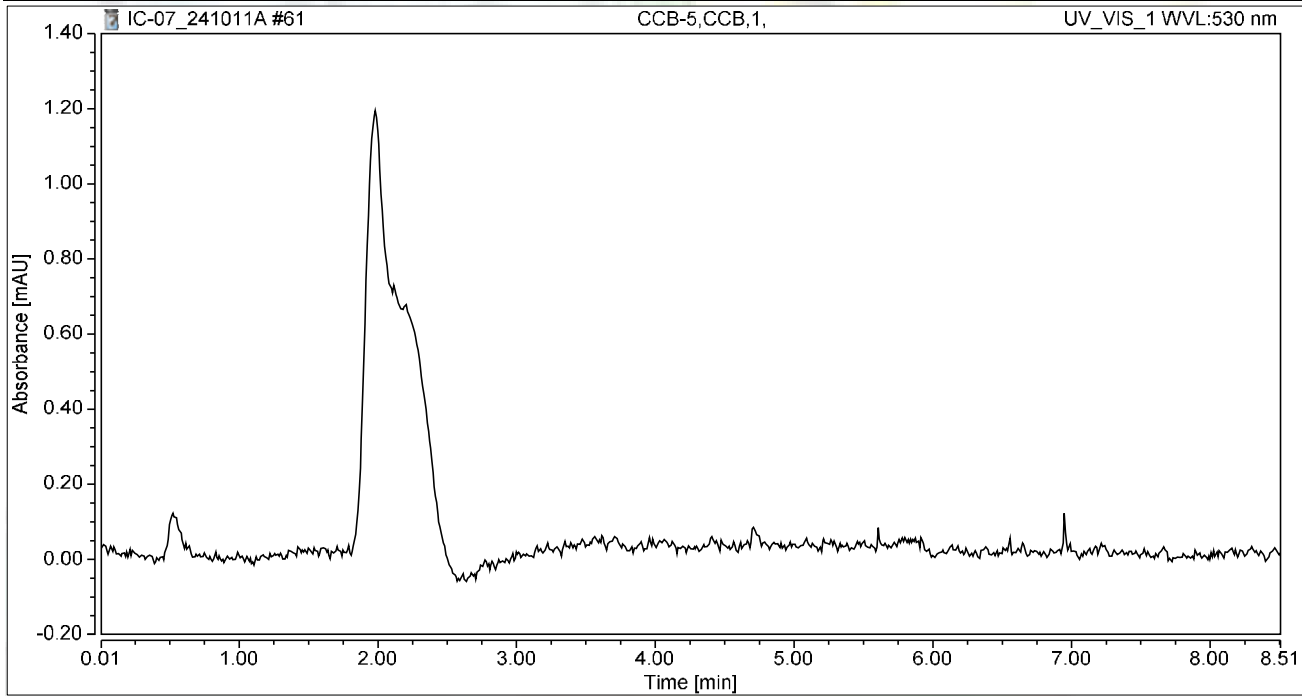
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.865	1.366	7.645	100.00	100.00	5.0319
Total:			1.366	7.645	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 17:40	Sample Weight:	1.0000

Chromatogram



Integration Results

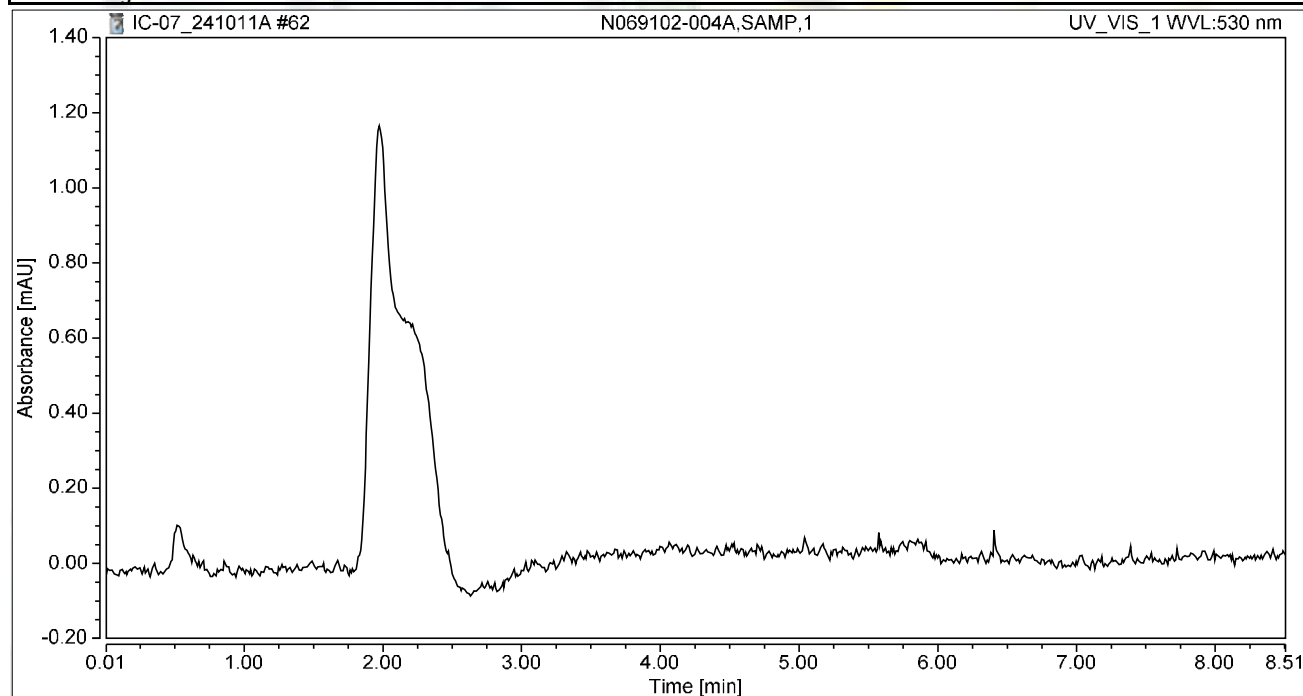
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069102-004A,SAMP,1	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 17:49	Sample Weight:	1.0000

Chromatogram



Integration Results

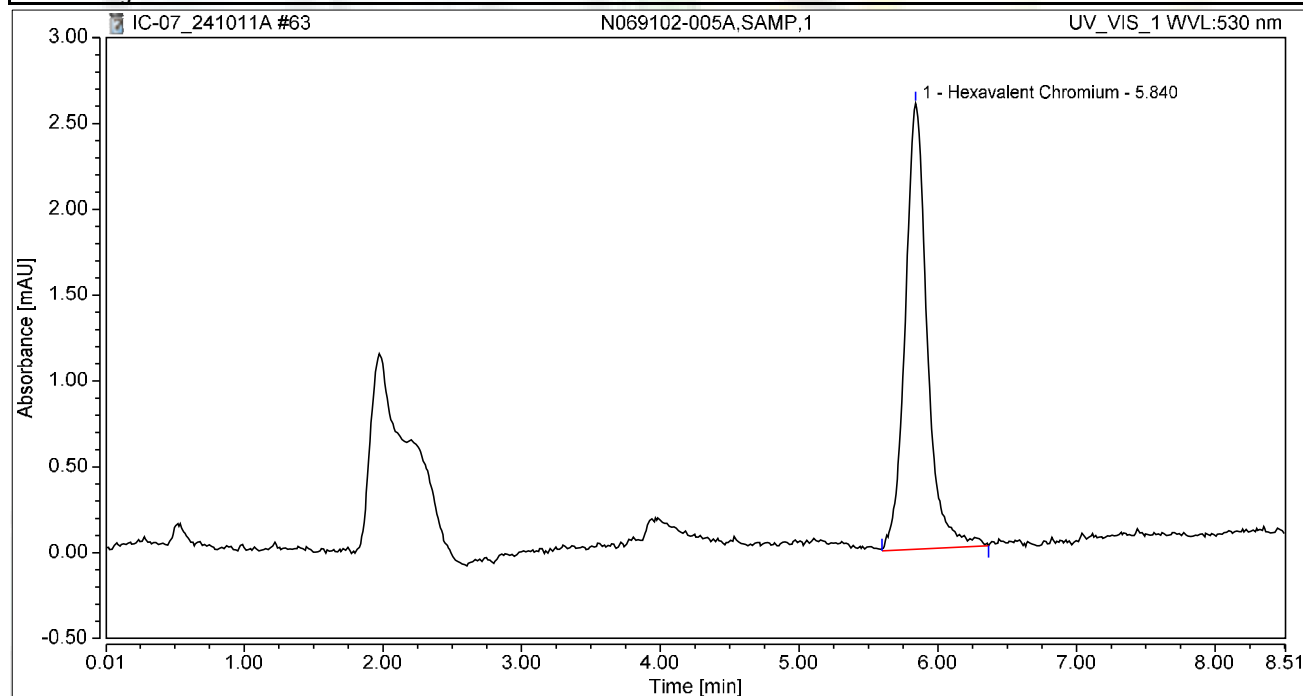
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069102-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 17:59	Sample Weight:	1.0000

Chromatogram



Integration Results

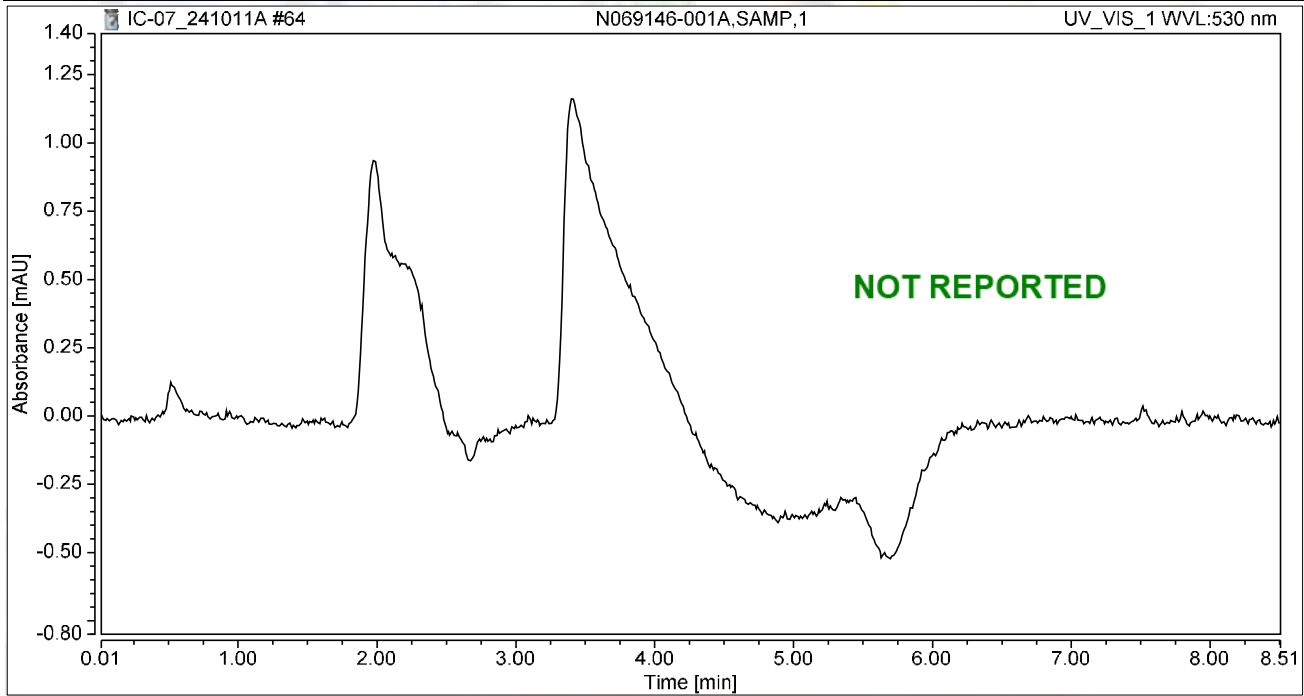
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.840	0.476	2.596	100.00	100.00	1.7540
Total:			0.476	2.596	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-001A,SAMP,1	Run Time (min):	8.49
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 18:08	Sample Weight:	1.0000

Chromatogram



Integration Results

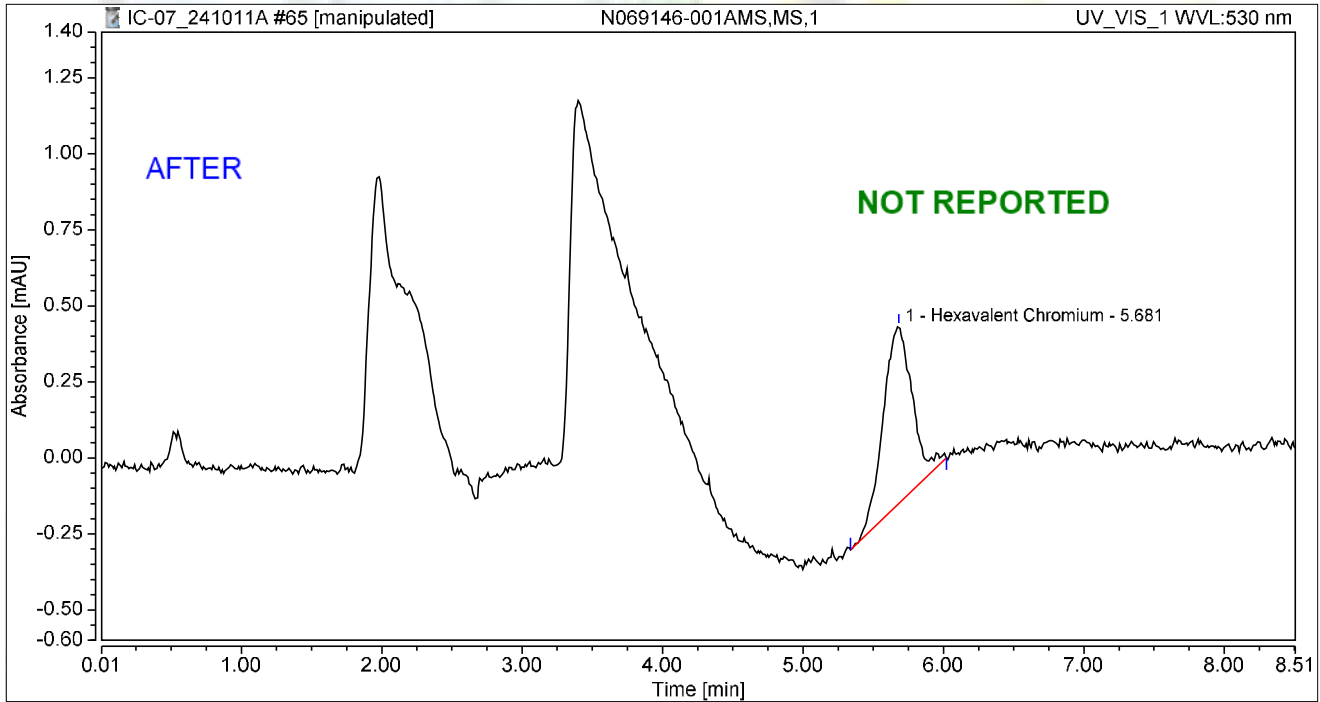
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-001AMS,MS,1	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 18:18	Sample Weight:	1.0000

Chromatogram



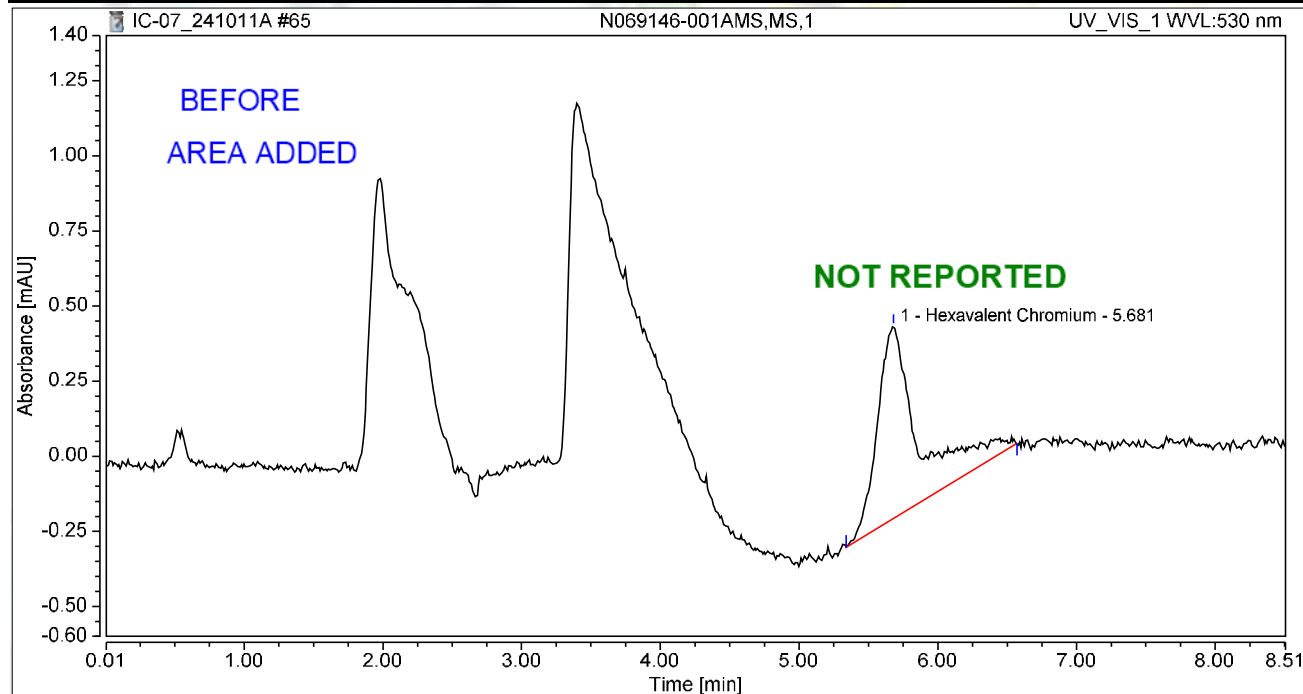
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.141	0.584	100.00	100.00	0.5196
Total:			0.141	0.584	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069146-001AMS,MS,1	Run Time (min): 8.50
Vial Number:	12	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Oct/24 18:18	Sample Weight: 1.0000

Chromatogram



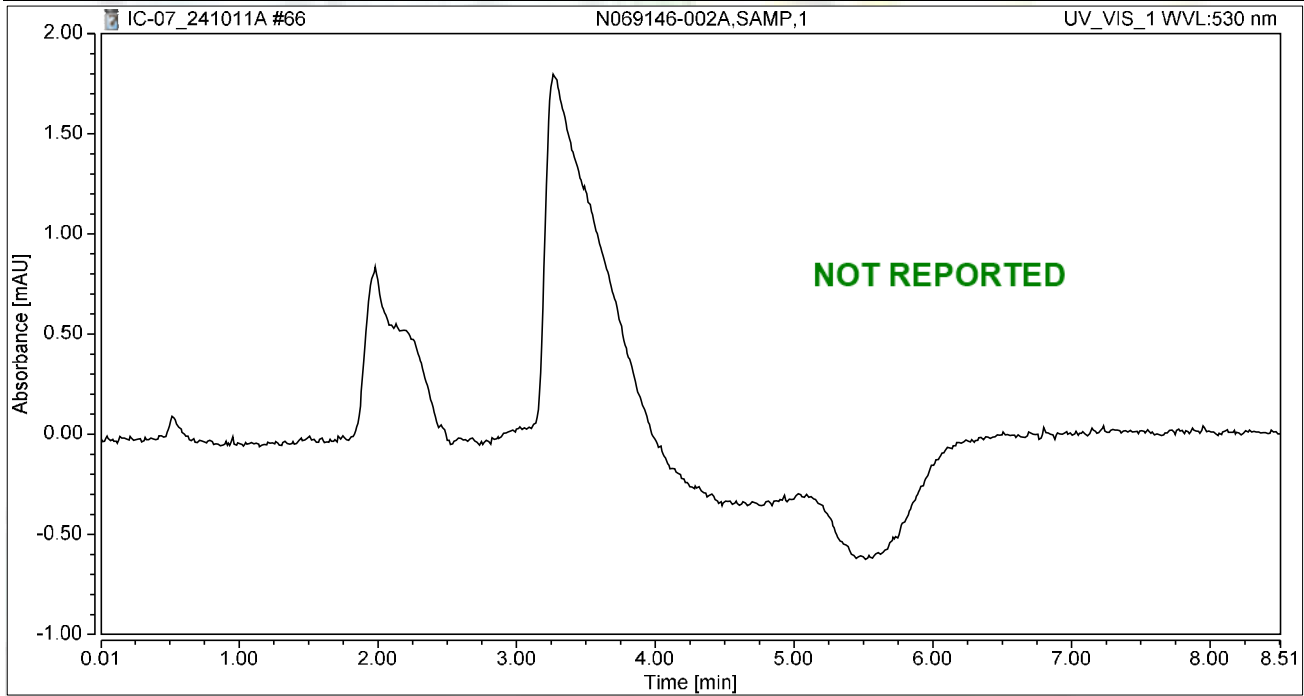
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.218	0.640	100.00	100.00	0.8013
Total:			0.218	0.640	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 18:27	Sample Weight:	1.0000

Chromatogram



Integration Results

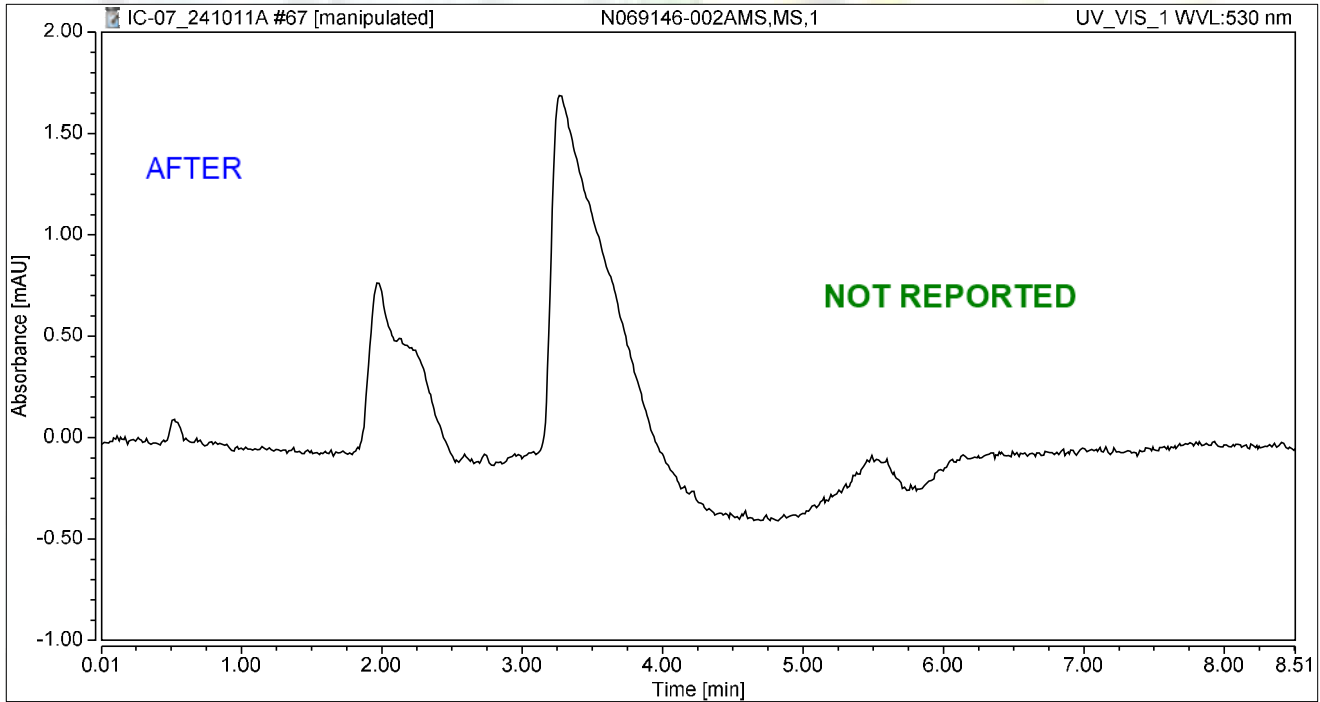
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 18:37	Sample Weight:	1.0000

Chromatogram



Integration Results

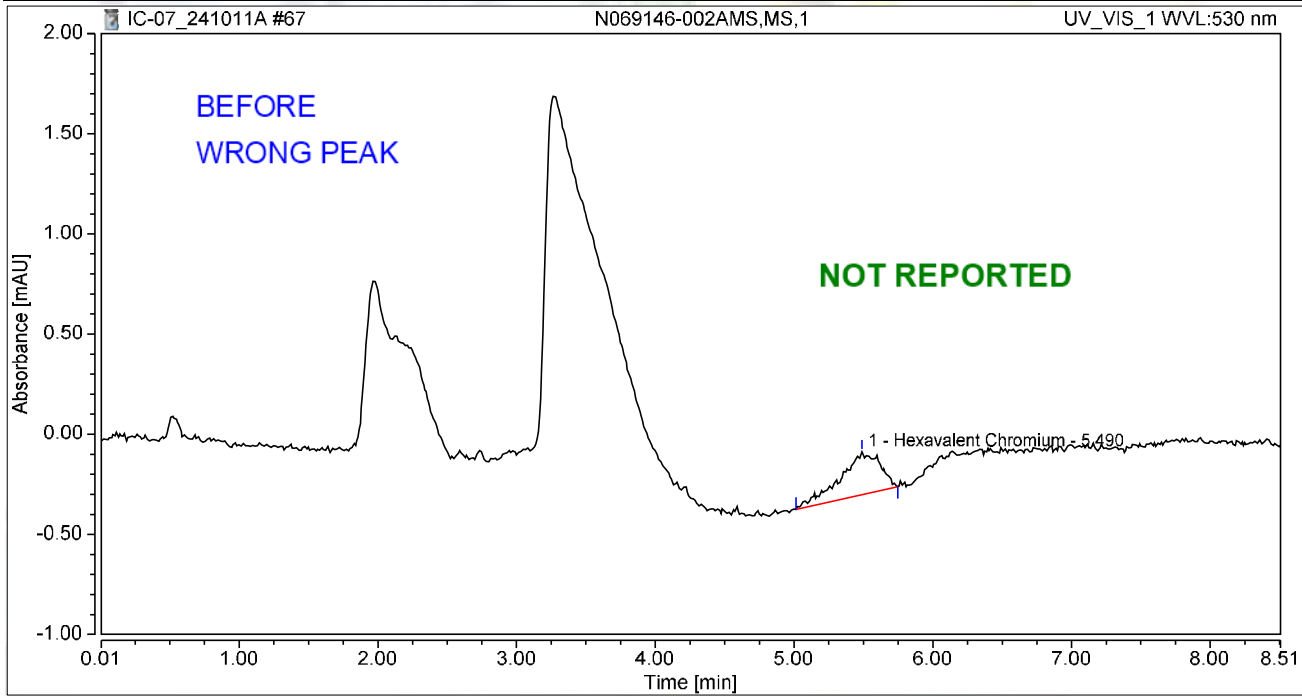
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 18:37	Sample Weight:	1.0000

Chromatogram



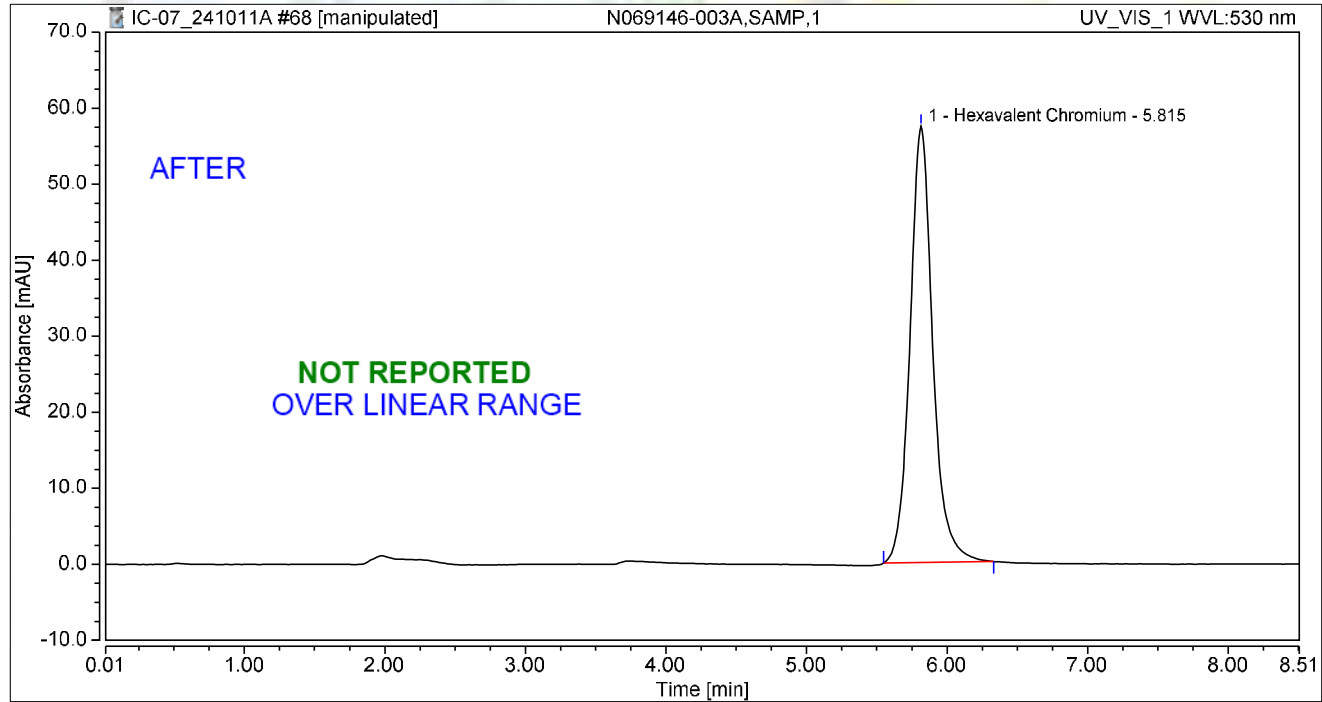
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.490	0.070	0.213	100.00	100.00	0.2565
Total:			0.070	0.213	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069146-003A,SAMP,1	Run Time (min): 8.49
Vial Number:	15	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Oct/24 18:46	Sample Weight: 1.0000

Chromatogram



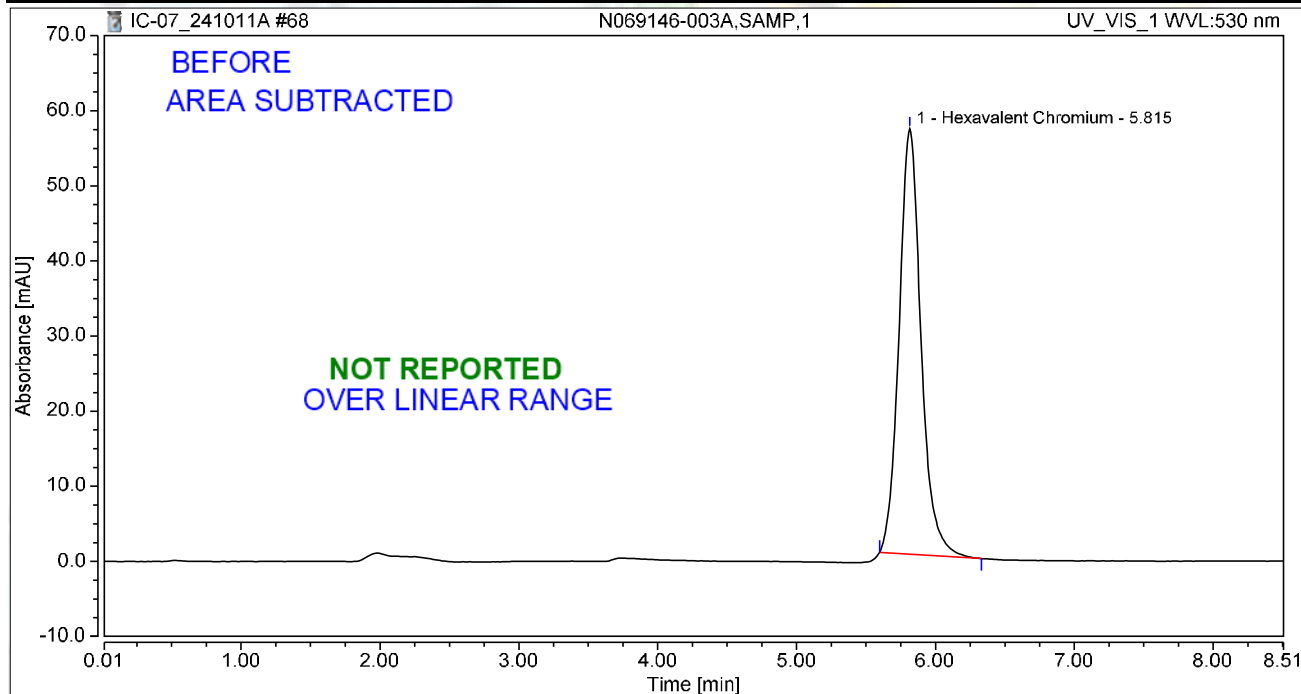
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.815	10.761	57.368	100.00	100.00	39.6385
Total:			10.761	57.368	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-003A,SAMP,1	Run Time (min):	8.49
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 18:46	Sample Weight:	1.0000

Chromatogram



Integration Results

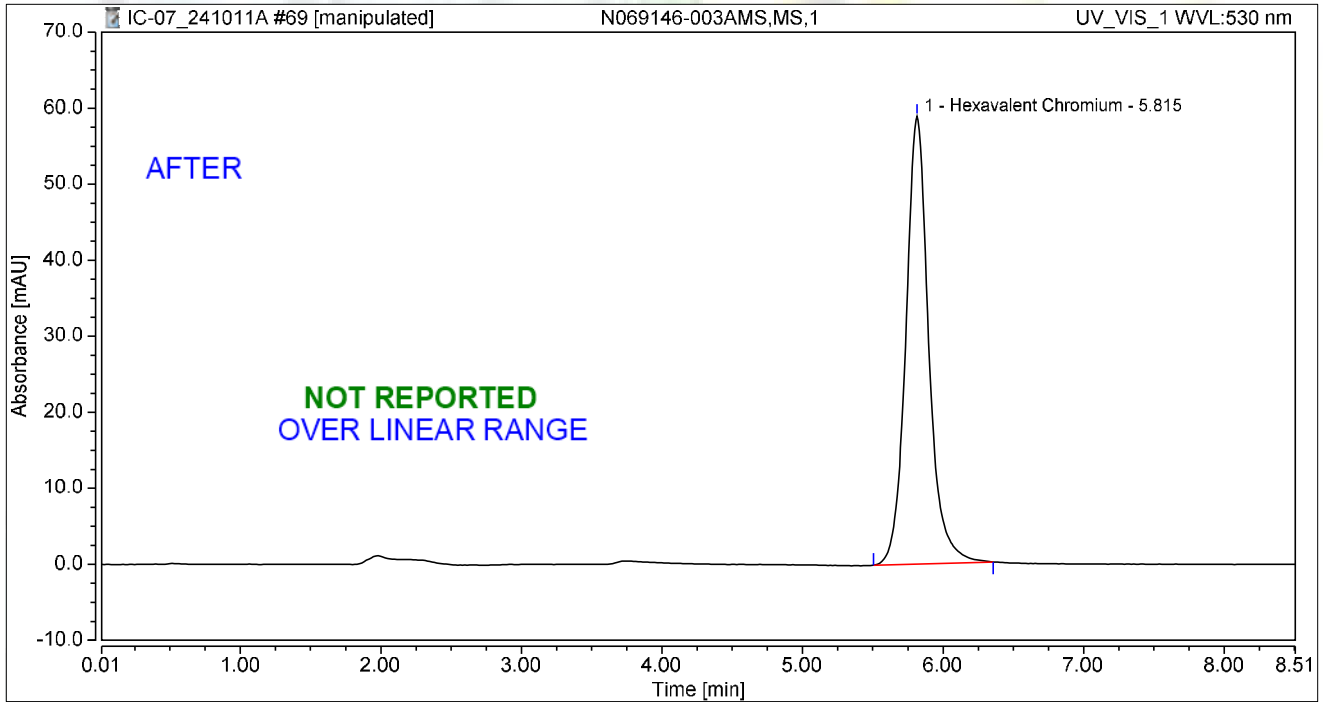
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.815	10.354	56.626	100.00	100.00	38.1390
Total:			10.354	56.626	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-003AMS,MS,1	Run Time (min):	8.49
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 18:56	Sample Weight:	1.0000

Chromatogram



Integration Results

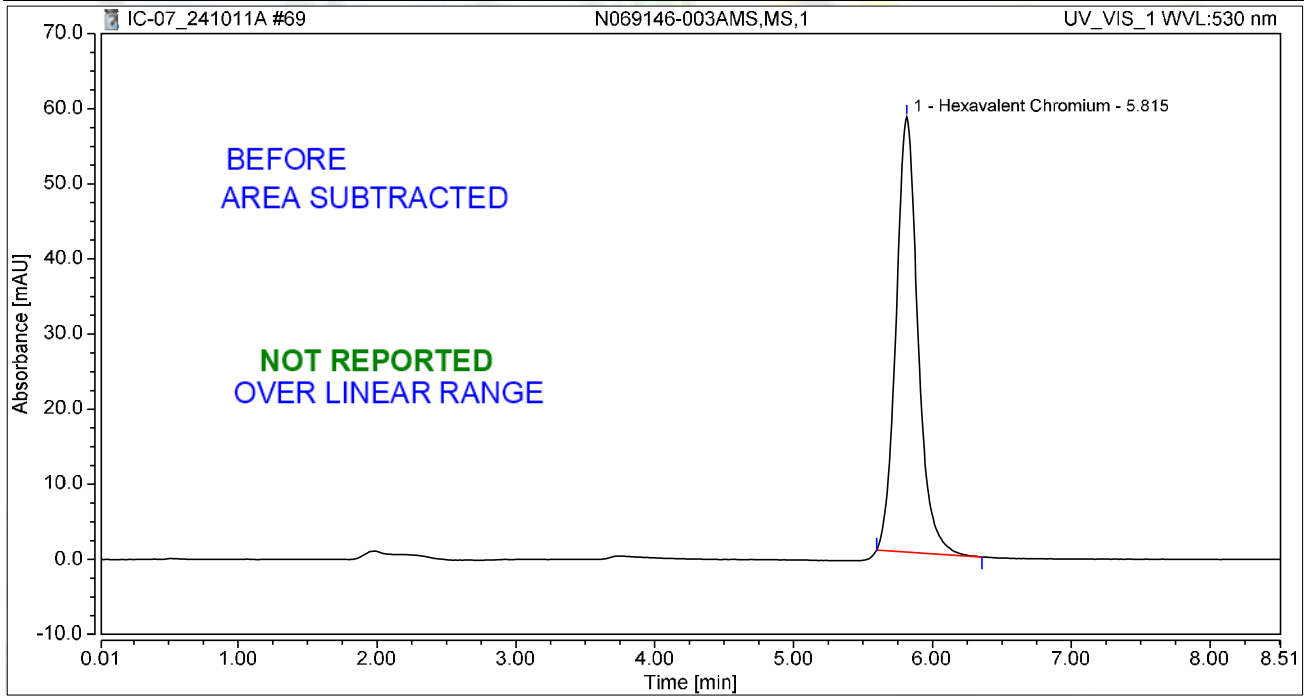
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.815	11.100	58.870	100.00	100.00	40.8877
Total:			11.100	58.870	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-003AMS,MS,1	Run Time (min):	8.49
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 18:56	Sample Weight:	1.0000

Chromatogram



Integration Results

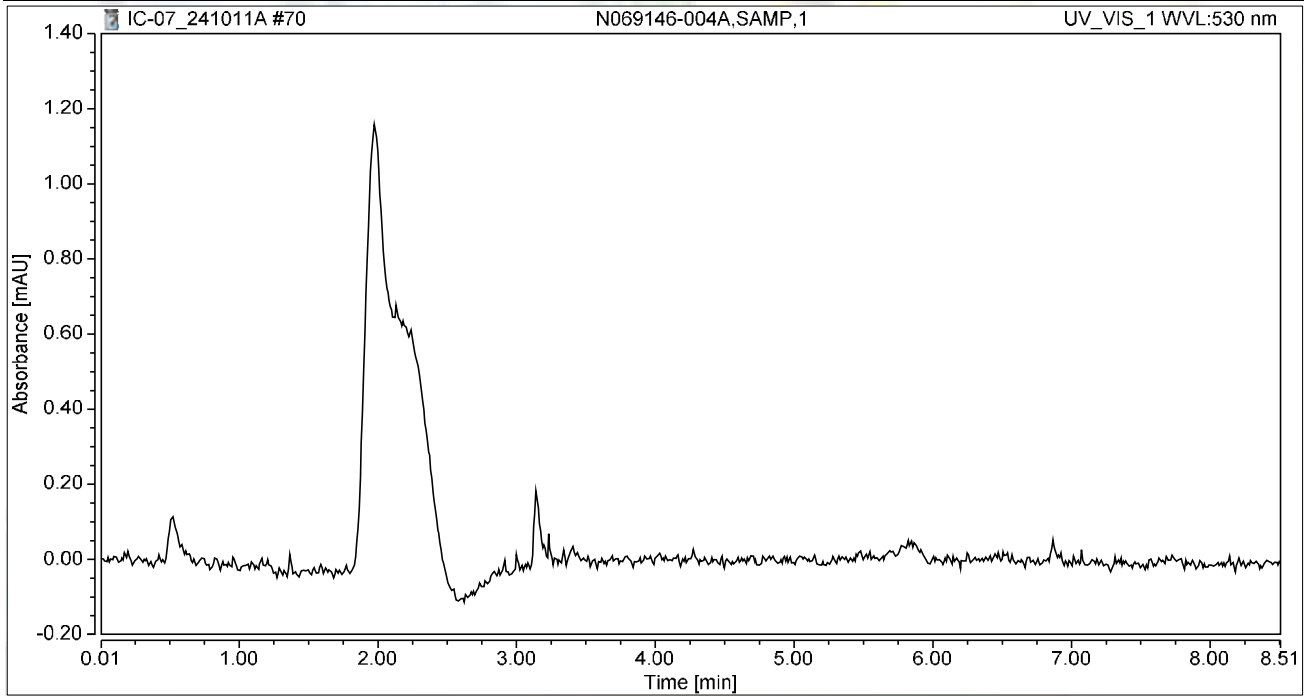
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.815	10.564	57.932	100.00	100.00	38.9116
Total:			10.564	57.932	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-004A,SAMP,1	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 19:05	Sample Weight:	1.0000

Chromatogram



Integration Results

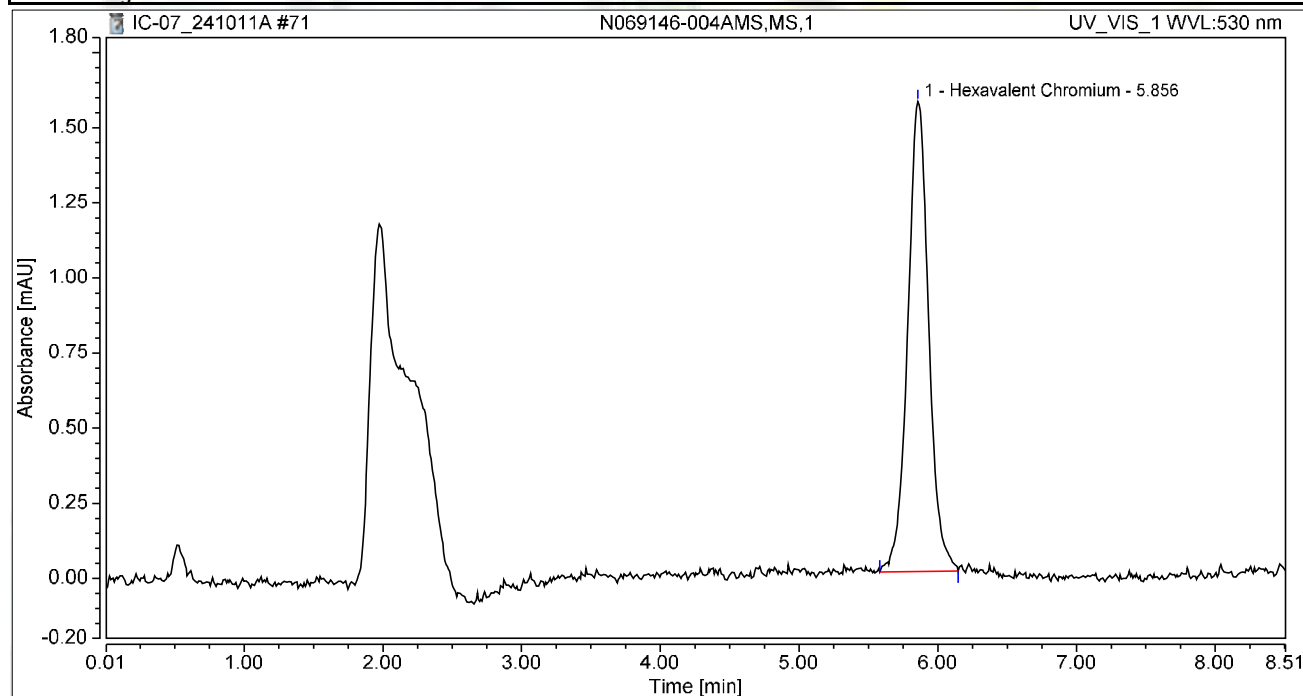
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-004AMS,MS,1	Run Time (min):	8.50
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 19:15	Sample Weight:	1.0000

Chromatogram



Integration Results

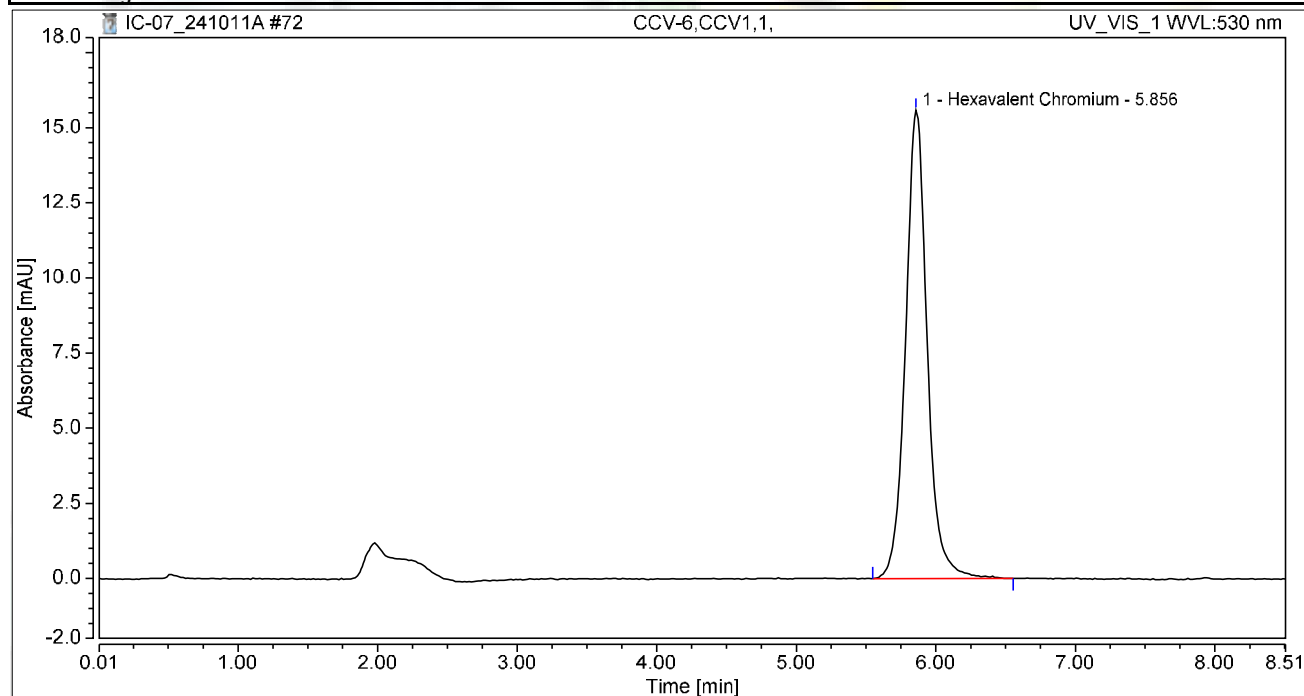
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.856	0.274	1.564	100.00	100.00	1.0098
Total:			0.274	1.564	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-6,CCV1,1,	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 19:24	Sample Weight:	1.0000

Chromatogram



Integration Results

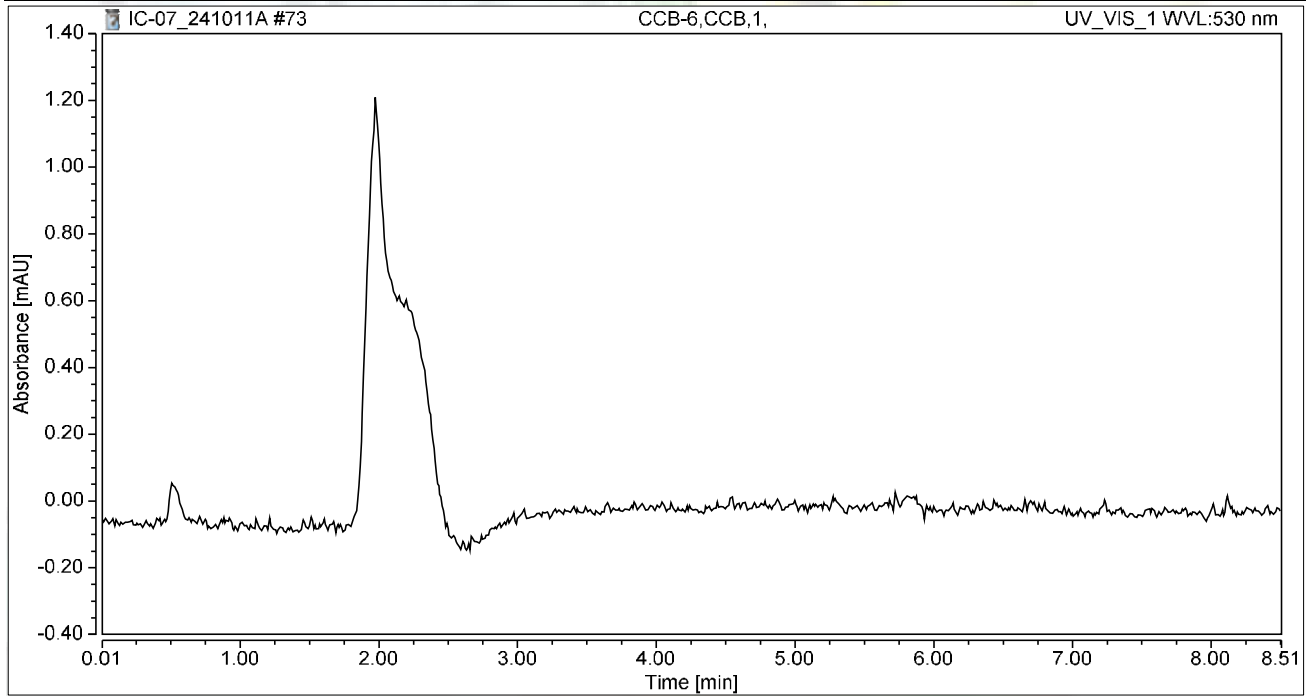
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.856	2.811	15.590	100.00	100.00	10.3535
Total:			2.811	15.590	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-6,CCB,1,	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 19:33	Sample Weight:	1.0000

Chromatogram



Integration Results

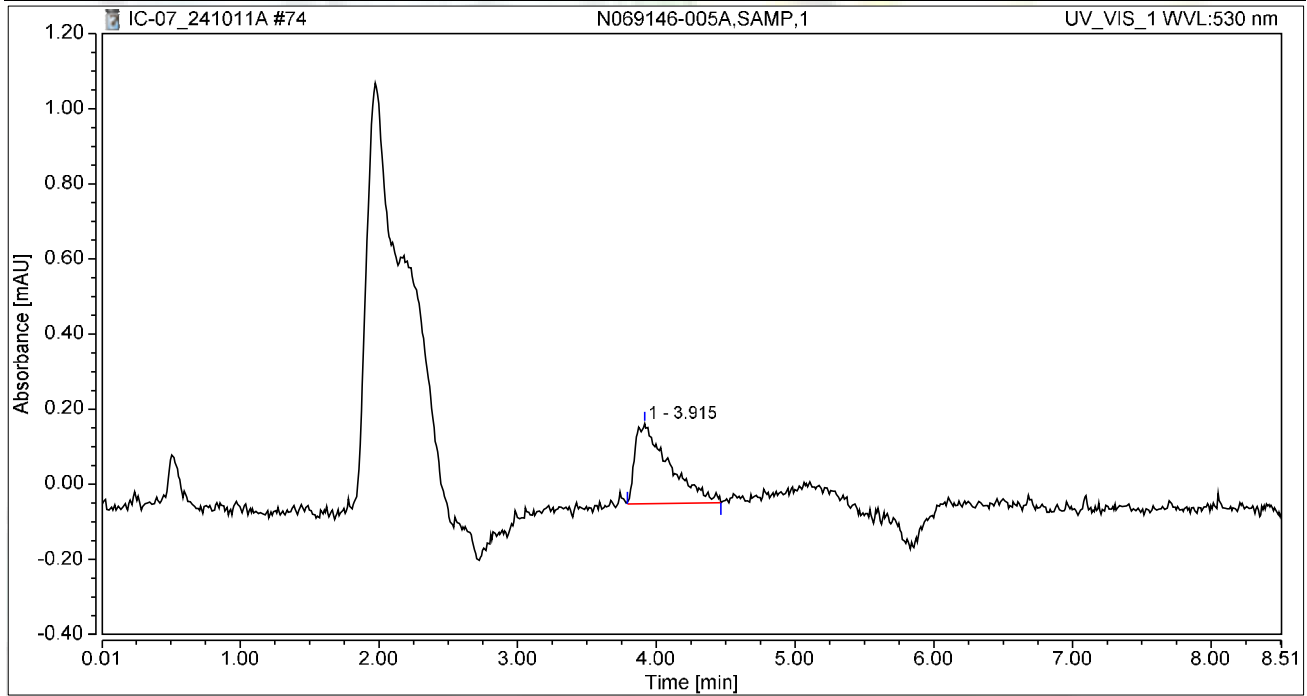
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 19:43	Sample Weight:	1.0000

Chromatogram



Integration Results

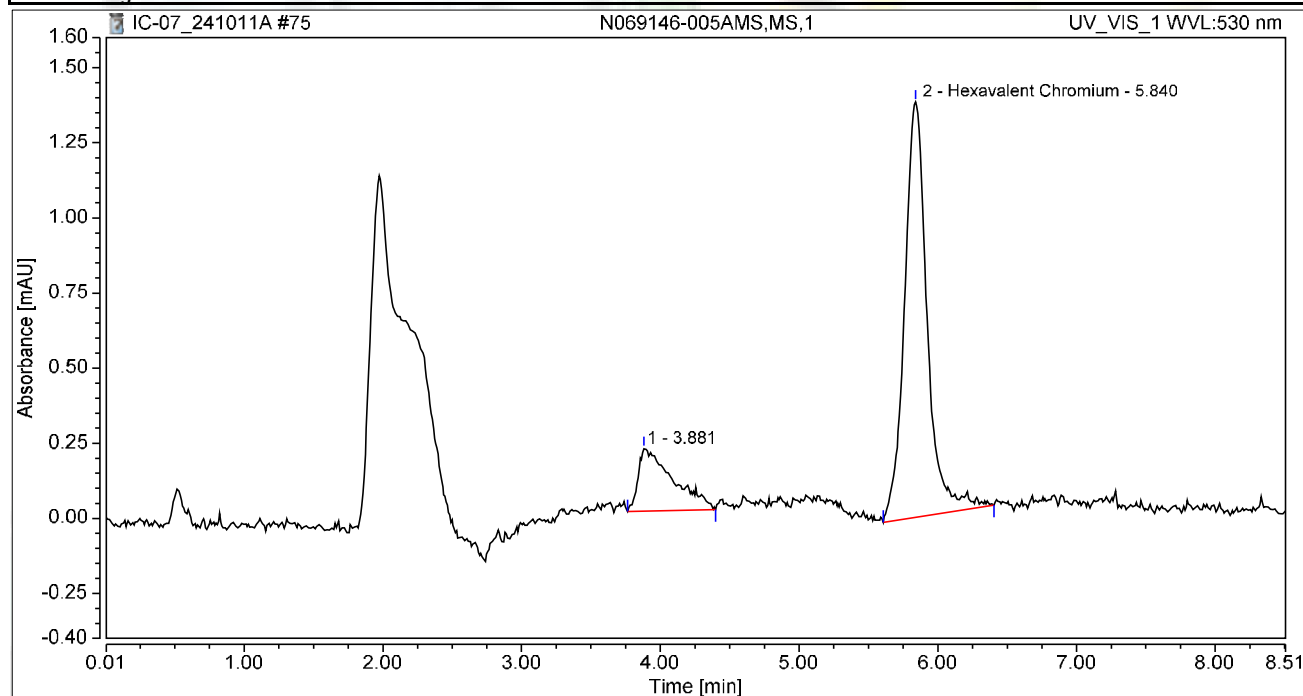
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.915	0.061	0.212	100.00	100.00	n.a.
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.061	0.212	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-005AMS,MS,1	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 19:52	Sample Weight:	1.0000

Chromatogram



Integration Results

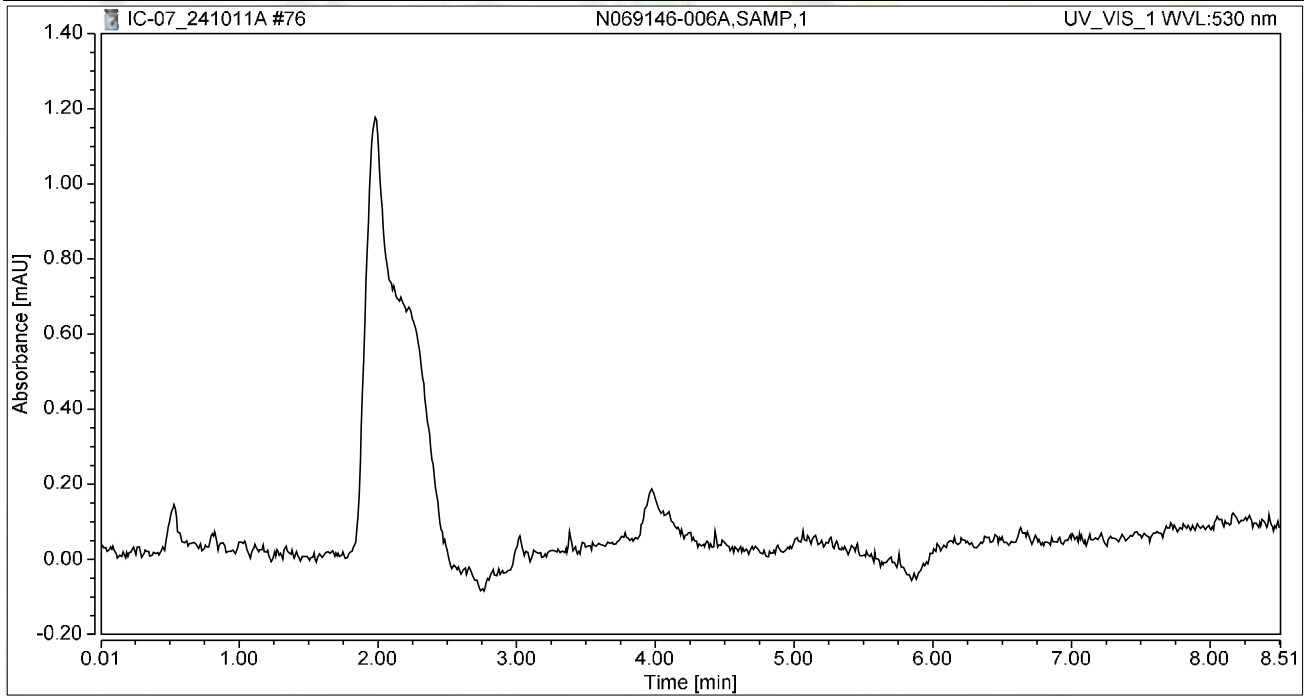
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.881	0.061	0.208	18.85	13.09	n.a.
2	Hexavalent Chromium	5.840	0.261	1.383	81.15	86.91	0.9628
Total:			0.322	1.591	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-006A,SAMP,1	Run Time (min):	8.50
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 20:02	Sample Weight:	1.0000

Chromatogram



Integration Results

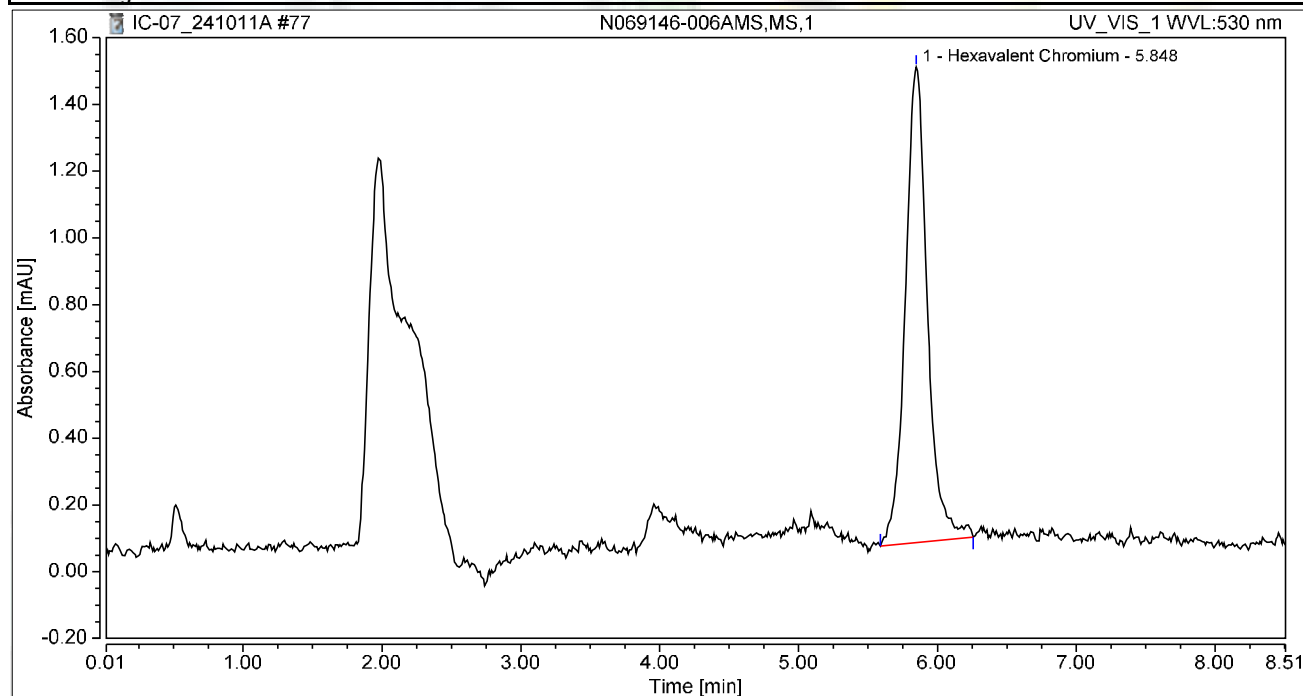
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-006AMS,MS,1	Run Time (min):	8.49
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 20:11	Sample Weight:	1.0000

Chromatogram



Integration Results

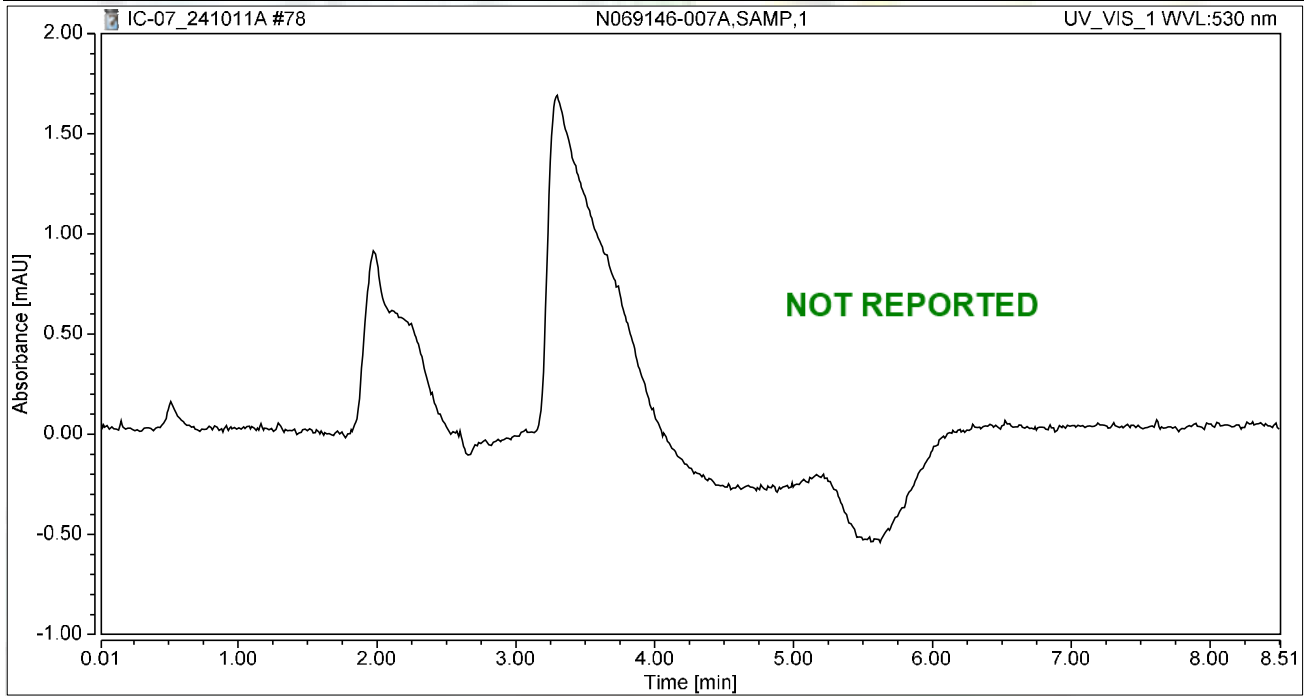
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.848	0.262	1.425	100.00	100.00	0.9634
Total:			0.262	1.425	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-007A,SAMP,1	Run Time (min):	8.49
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 20:21	Sample Weight:	1.0000

Chromatogram



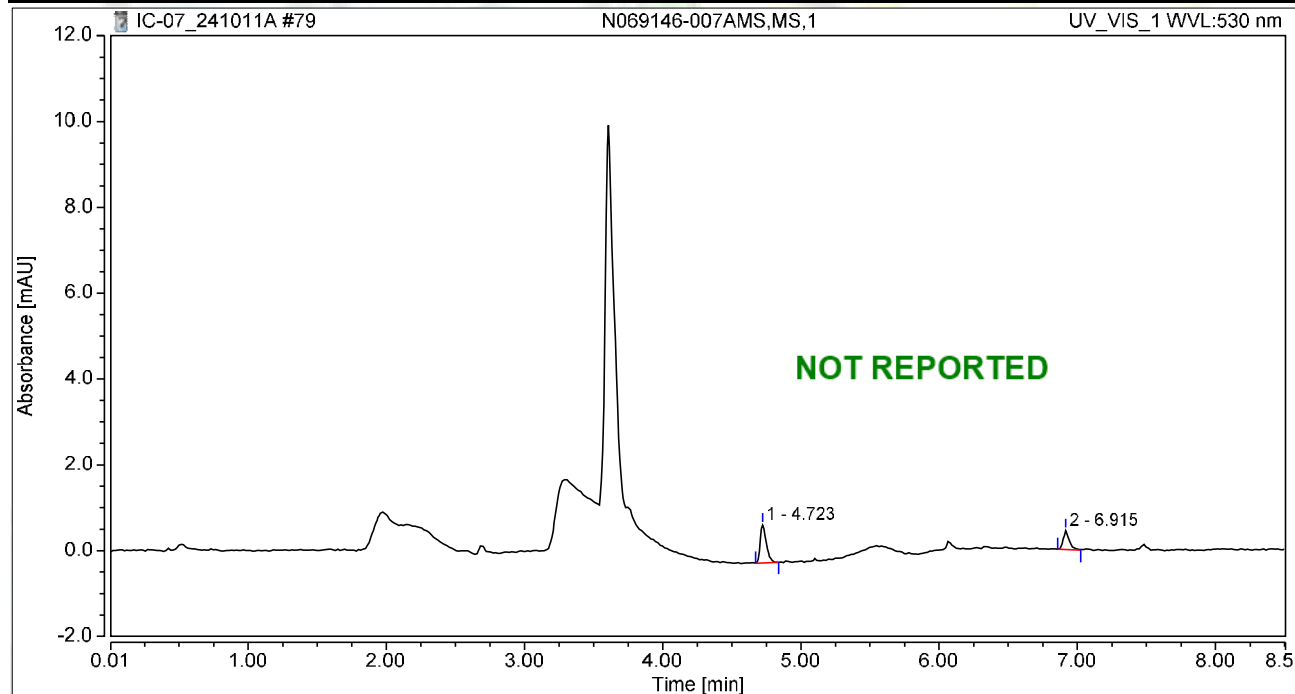
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069146-007AMS,MS,1	Run Time (min): 8.50
Vial Number:	26	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Oct/24 20:30	Sample Weight: 1.0000

Chromatogram



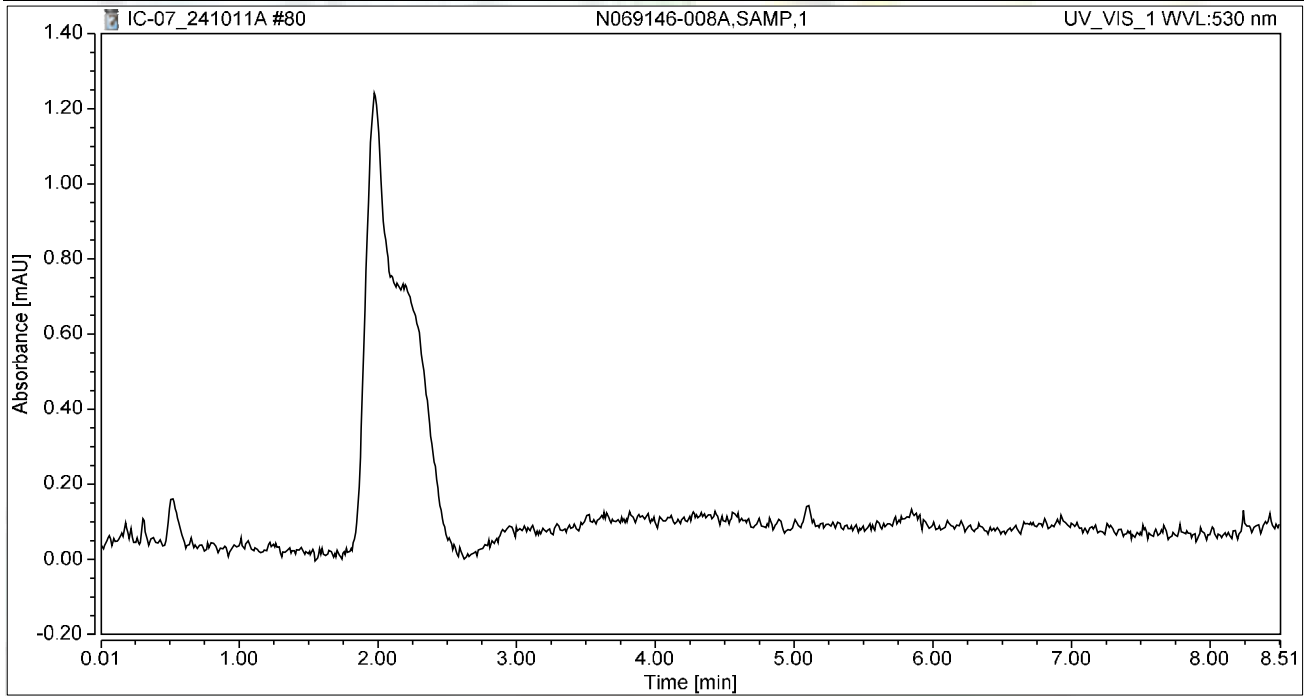
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		4.723	0.046	0.883	67.51	66.50	n.a.
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2		6.915	0.022	0.445	32.49	33.50	n.a.
Total:			0.068	1.327	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-008A,SAMP,1	Run Time (min):	8.50
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 20:40	Sample Weight:	1.0000

Chromatogram



Integration Results

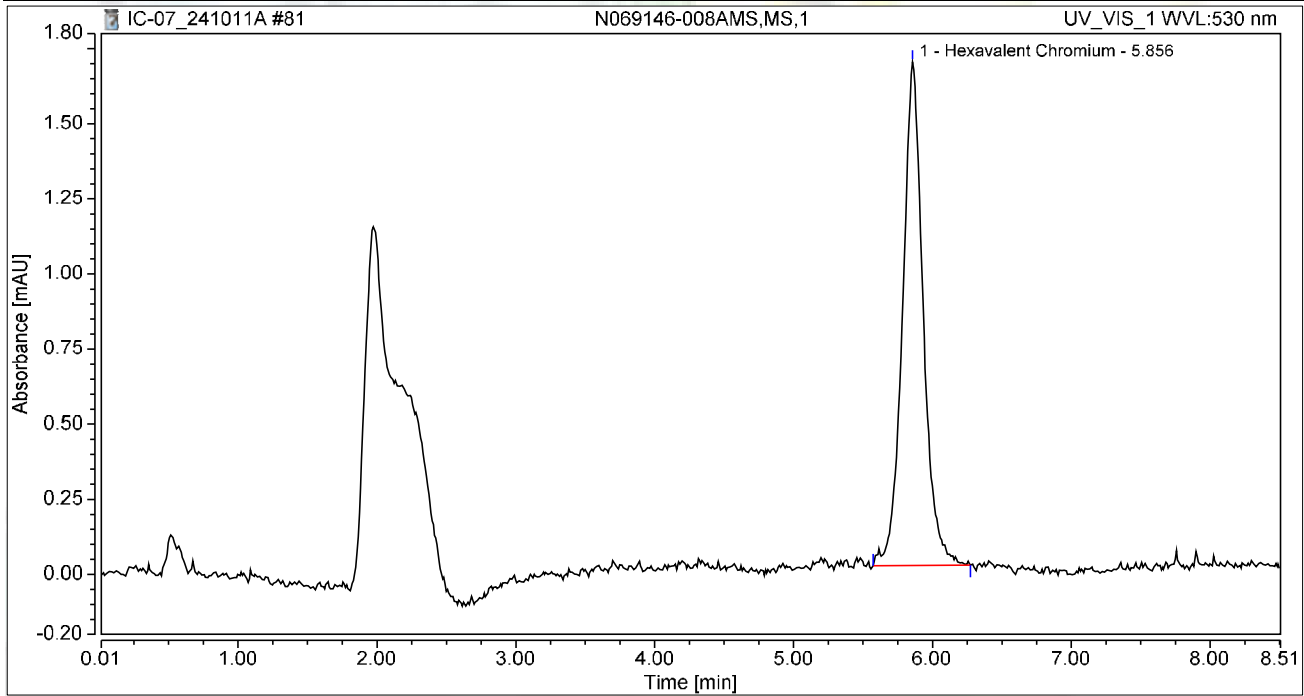
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-008AMS,MS,1	Run Time (min):	8.49
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 20:49	Sample Weight:	1.0000

Chromatogram



Integration Results

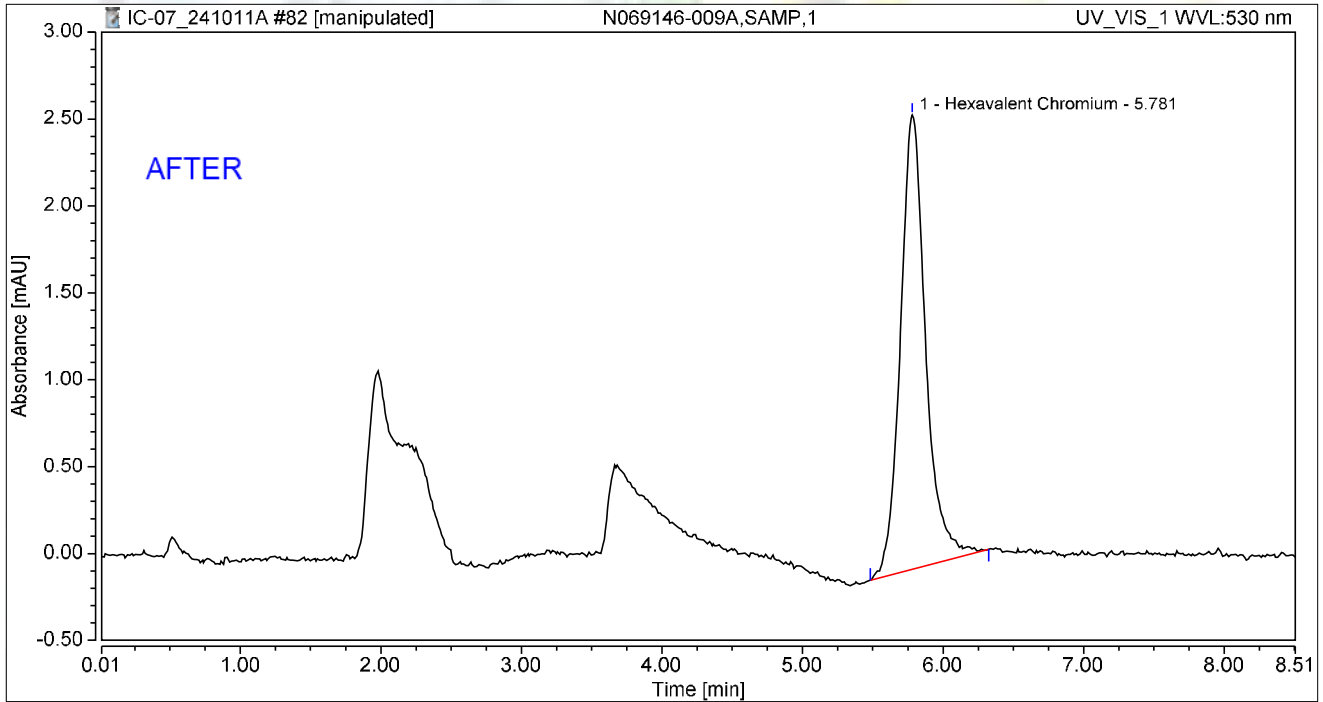
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.856	0.288	1.676	100.00	100.00	1.0627
Total:			0.288	1.676	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-009A,SAMP,1	Run Time (min):	8.49
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 20:59	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.781	0.544	2.612	100.00	100.00	2.0029
Total:			0.544	2.612	100.00	100.00	

Reviewed by:

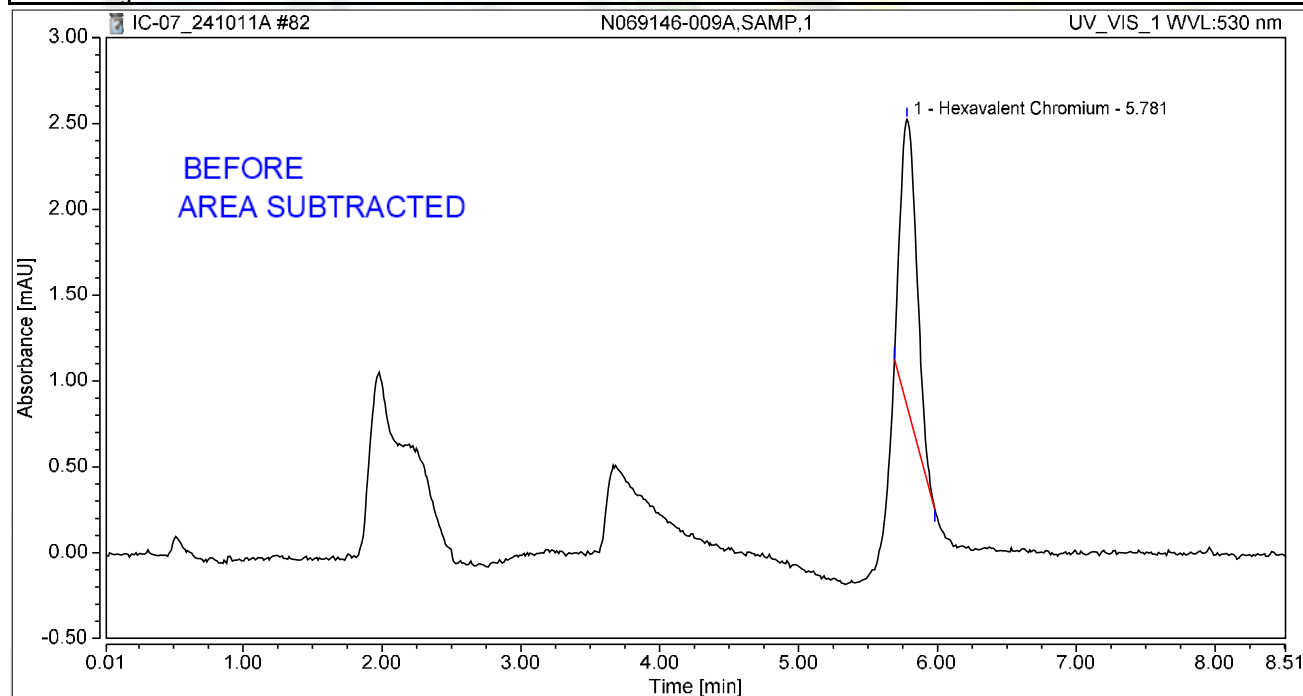
M. Rocha 10/24/2024

Chromatogram and Results

Injection Details

Injection Name:	N069146-009A,SAMP,1	Run Time (min):	8.49
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 20:59	Sample Weight:	1.0000

Chromatogram



Integration Results

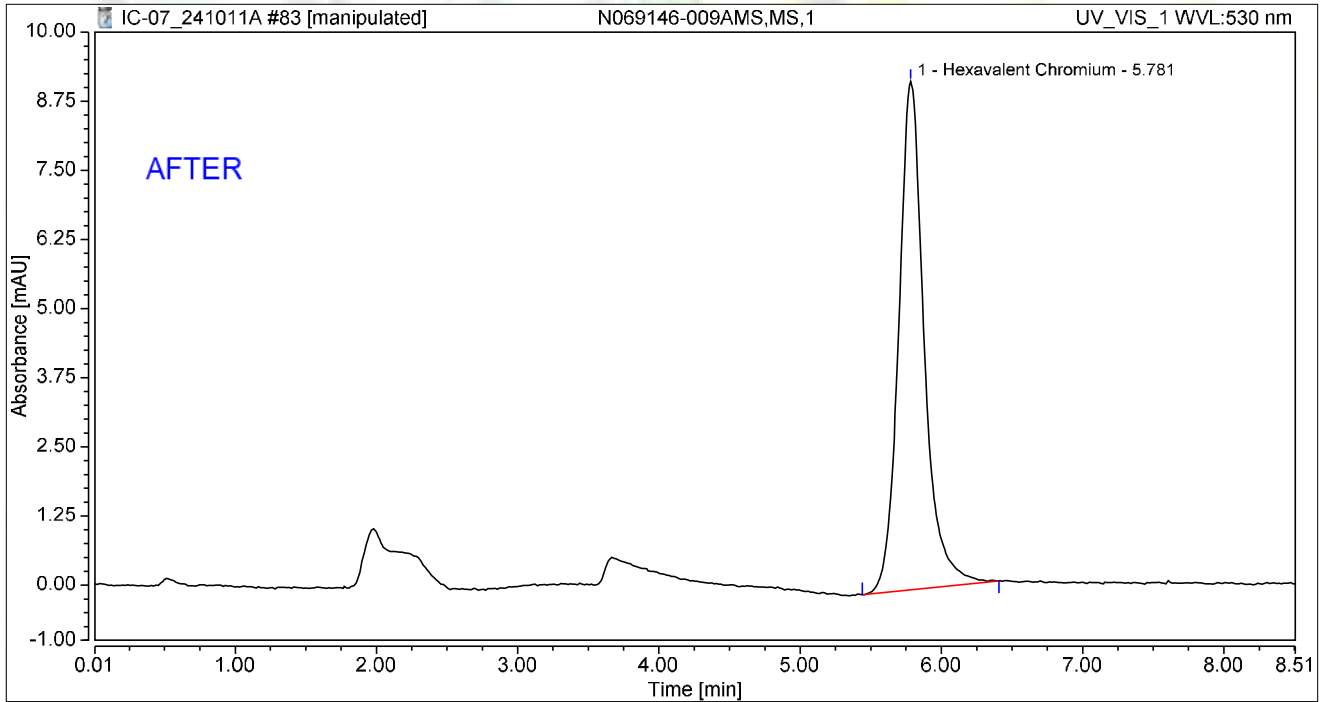
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.781	0.231	1.670	100.00	100.00	0.8527
Total:			0.231	1.670	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-009AMS,MS,1	Run Time (min):	8.50
Vial Number:	30	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 21:08	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.781	1.919	9.196	100.00	100.00	7.0671
Total:			1.919	9.196	100.00	100.00	

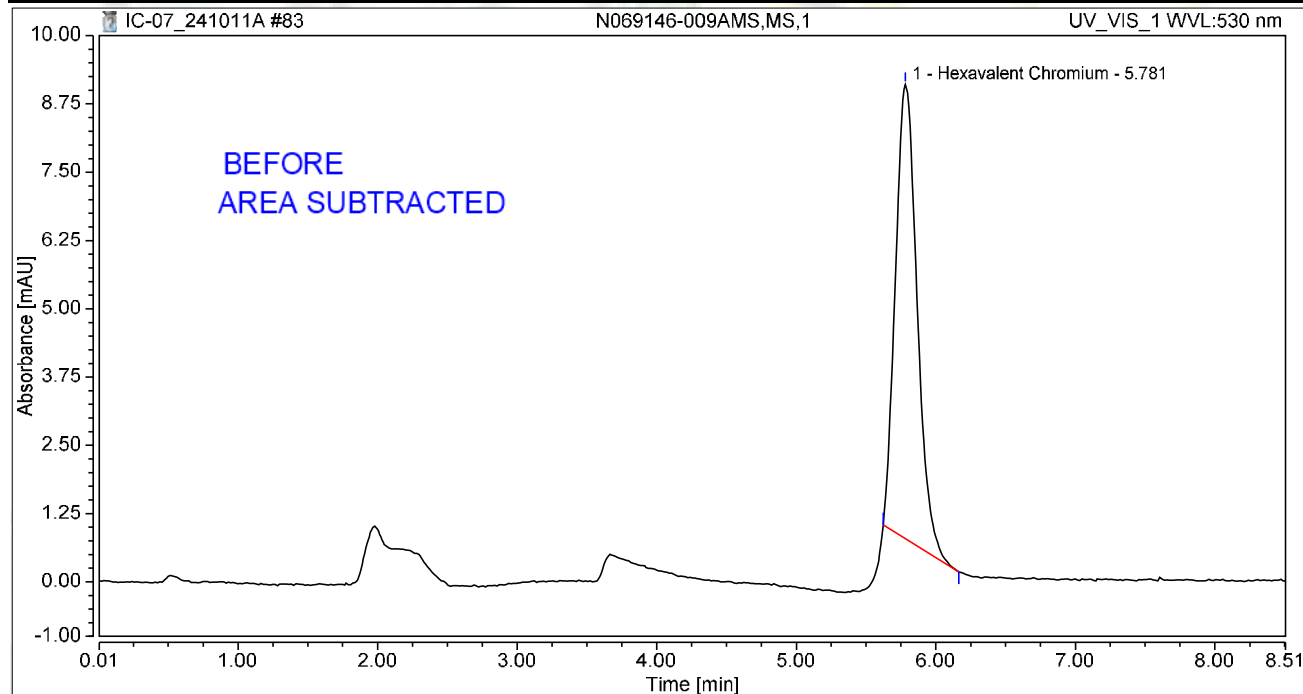
Reviewed by:

d/Recha 10/24/2024

Chromatogram and Results

Injection Details		
Injection Name:	N069146-009AMS,MS,1	Run Time (min): 8.50
Vial Number:	30	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Oct/24 21:08	Sample Weight: 1.0000

Chromatogram



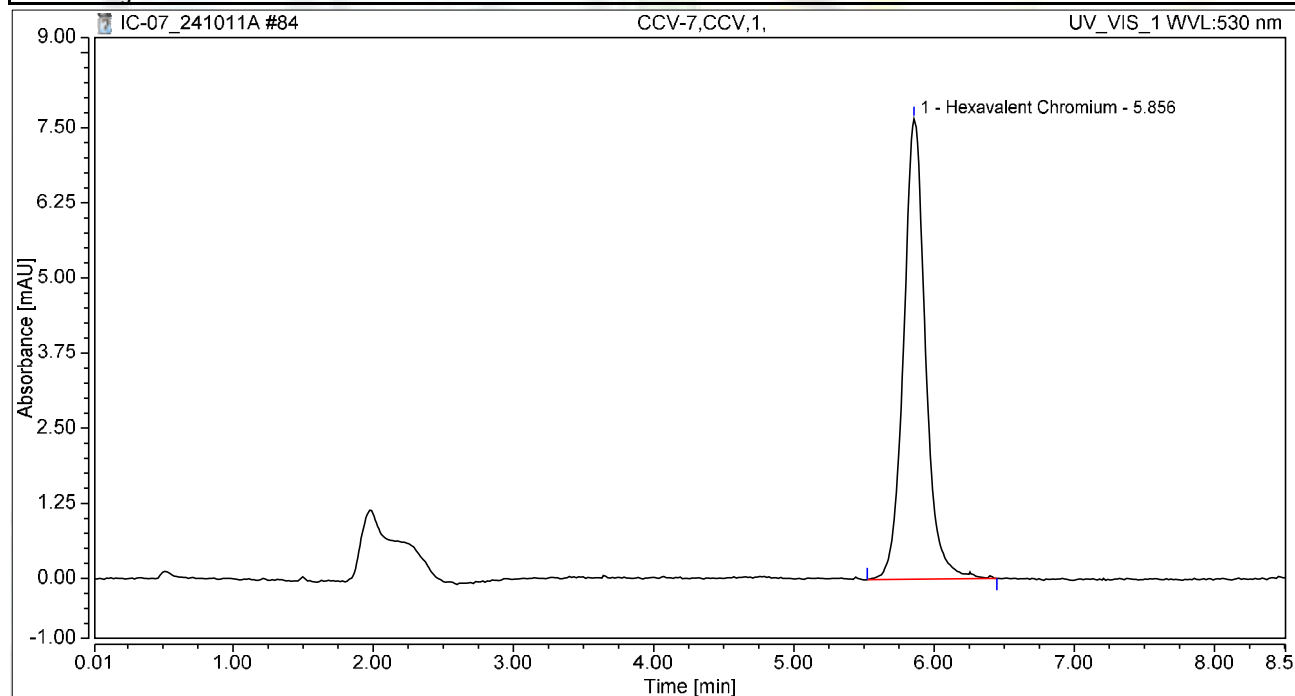
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.781	1.496	8.317	100.00	100.00	5.5096
Total:			1.496	8.317	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-7,CCV,1,	Run Time (min):	8.49
Vial Number:	31	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 21:18	Sample Weight:	1.0000

Chromatogram



Integration Results

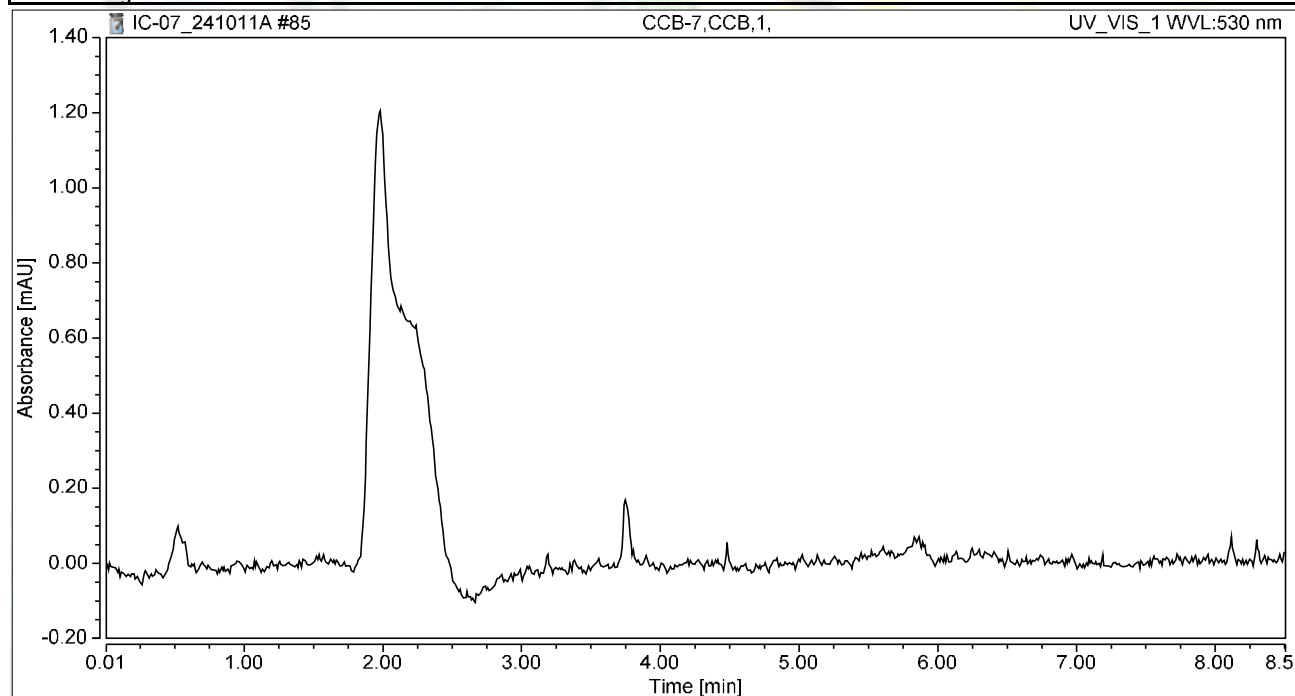
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.856	1.383	7.665	100.00	100.00	5.0957
Total:			1.383	7.665	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-7,CCB,1,	Run Time (min):	8.50
Vial Number:	32	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 21:27	Sample Weight:	1.0000

Chromatogram



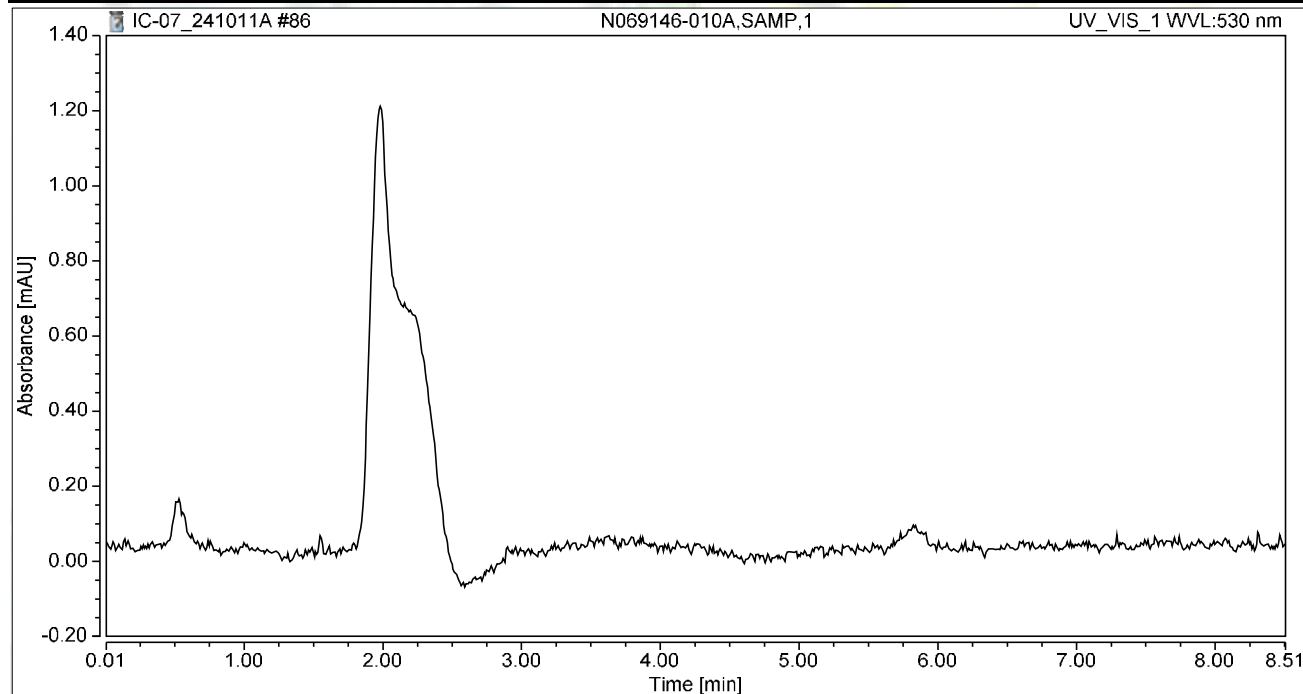
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069146-010A,SAMP,1	Run Time (min): 8.50
Vial Number:	33	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Oct/24 21:36	Sample Weight: 1.0000

Chromatogram



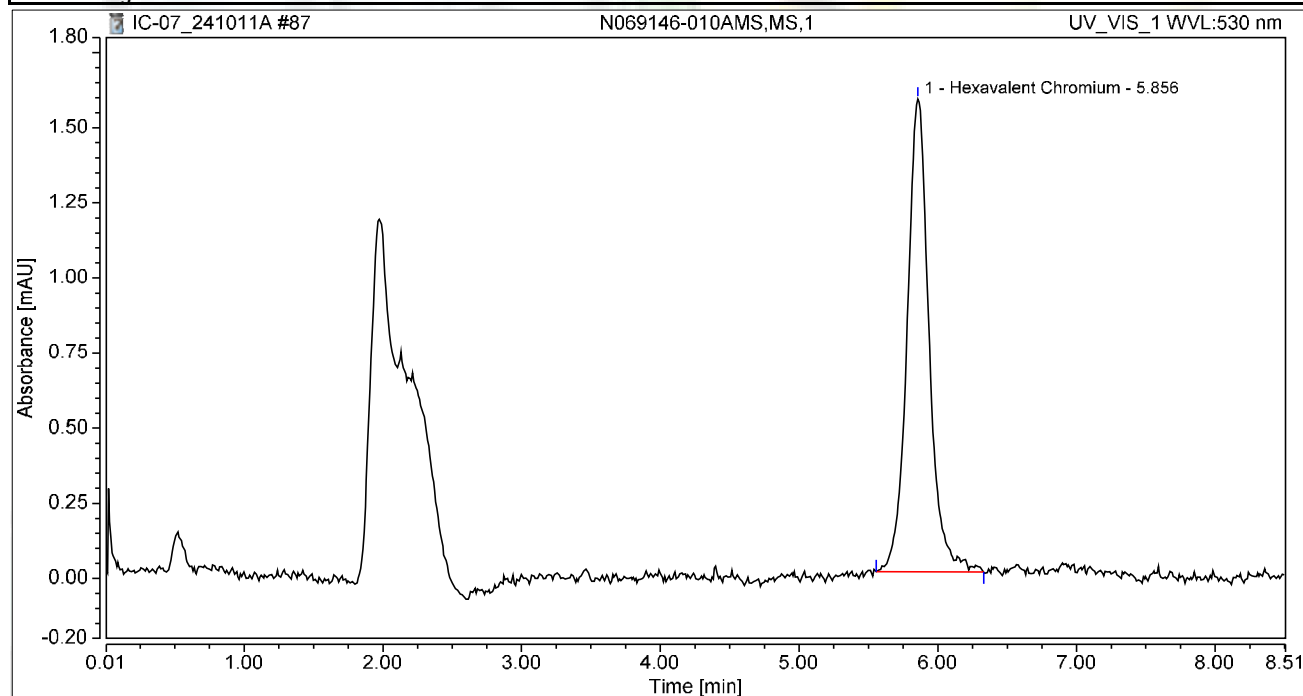
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-010AMS,MS,1	Run Time (min):	8.50
Vial Number:	34	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 21:46	Sample Weight:	1.0000

Chromatogram



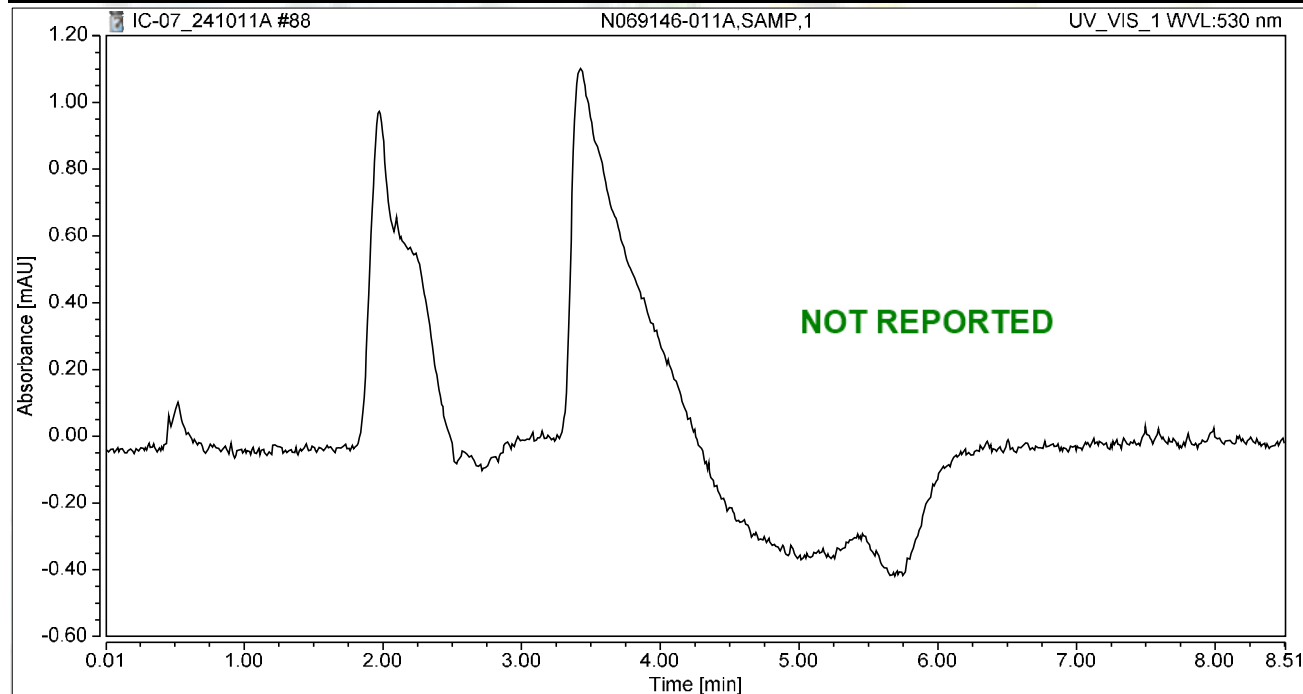
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.856	0.289	1.574	100.00	100.00	1.0647
Total:			0.289	1.574	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069146-011A,SAMP,1	Run Time (min): 8.50
Vial Number:	35	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Oct/24 21:55	Sample Weight: 1.0000

Chromatogram



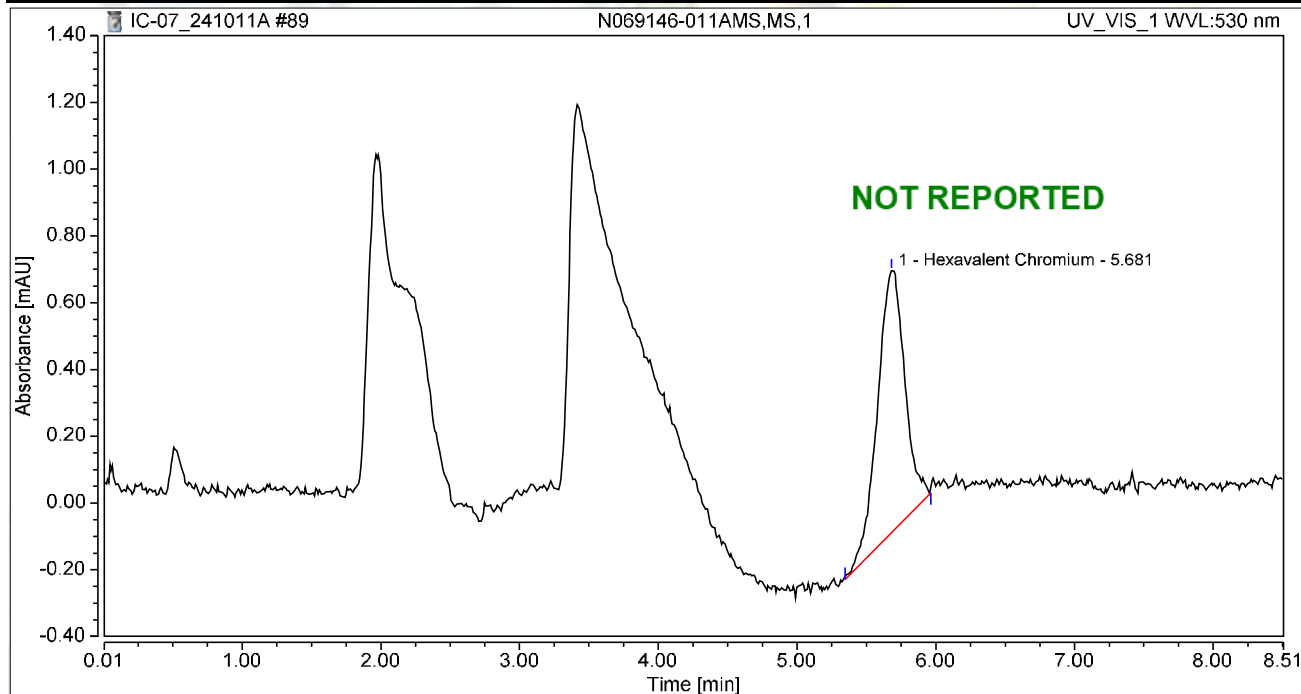
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-011AMS,MS,1	Run Time (min):	8.50
Vial Number:	36	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 22:05	Sample Weight:	1.0000

Chromatogram



Integration Results

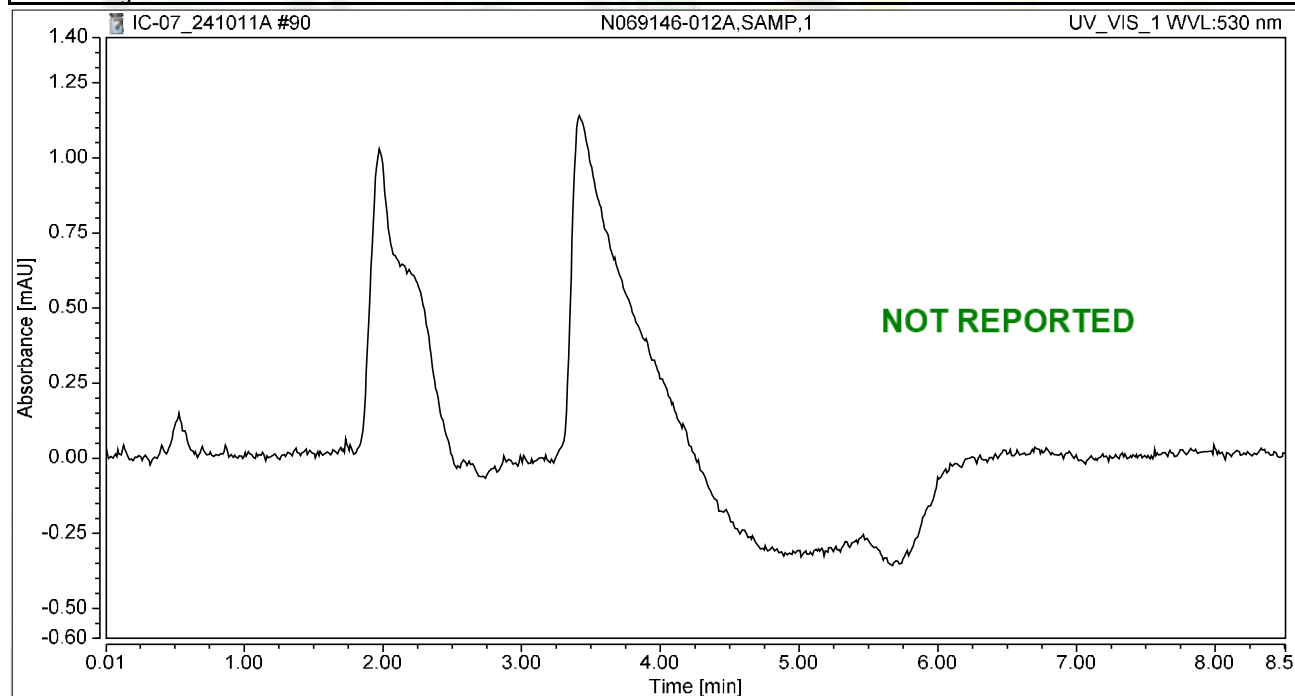
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.179	0.785	100.00	100.00	0.6608
Total:			0.179	0.785	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-012A,SAMP,1	Run Time (min):	8.50
Vial Number:	37	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 22:14	Sample Weight:	1.0000

Chromatogram



Integration Results

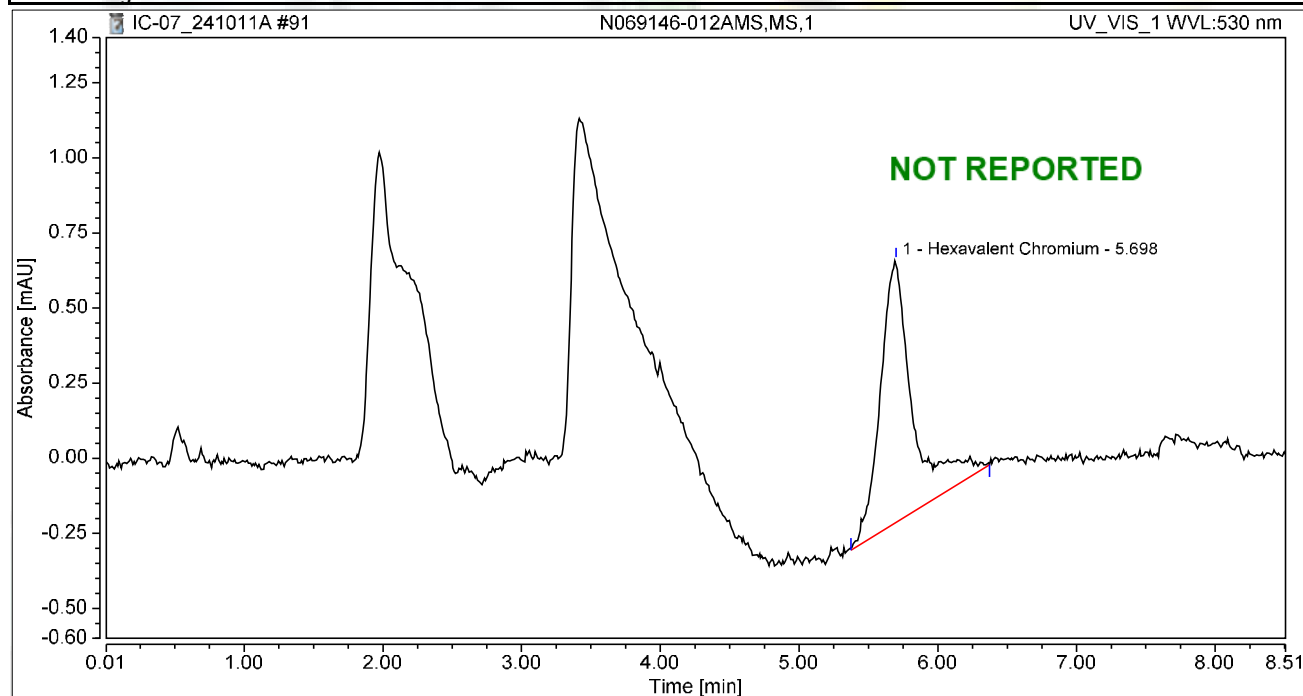
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-012AMS,MS,1	Run Time (min):	8.50
Vial Number:	38	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 22:24	Sample Weight:	1.0000

Chromatogram



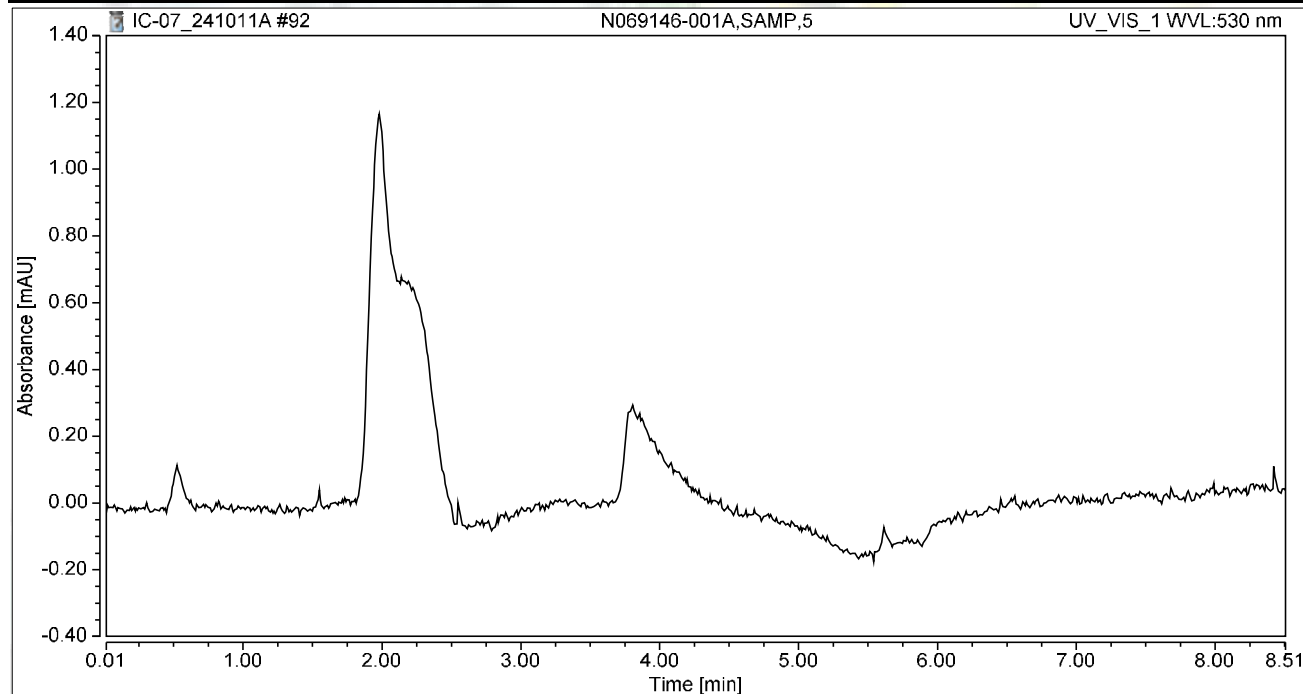
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	0.235	0.874	100.00	100.00	0.8672
Total:			0.235	0.874	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069146-001A,SAMP,5	Run Time (min): 8.49
Vial Number:	39	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Oct/24 22:33	Sample Weight: 1.0000

Chromatogram



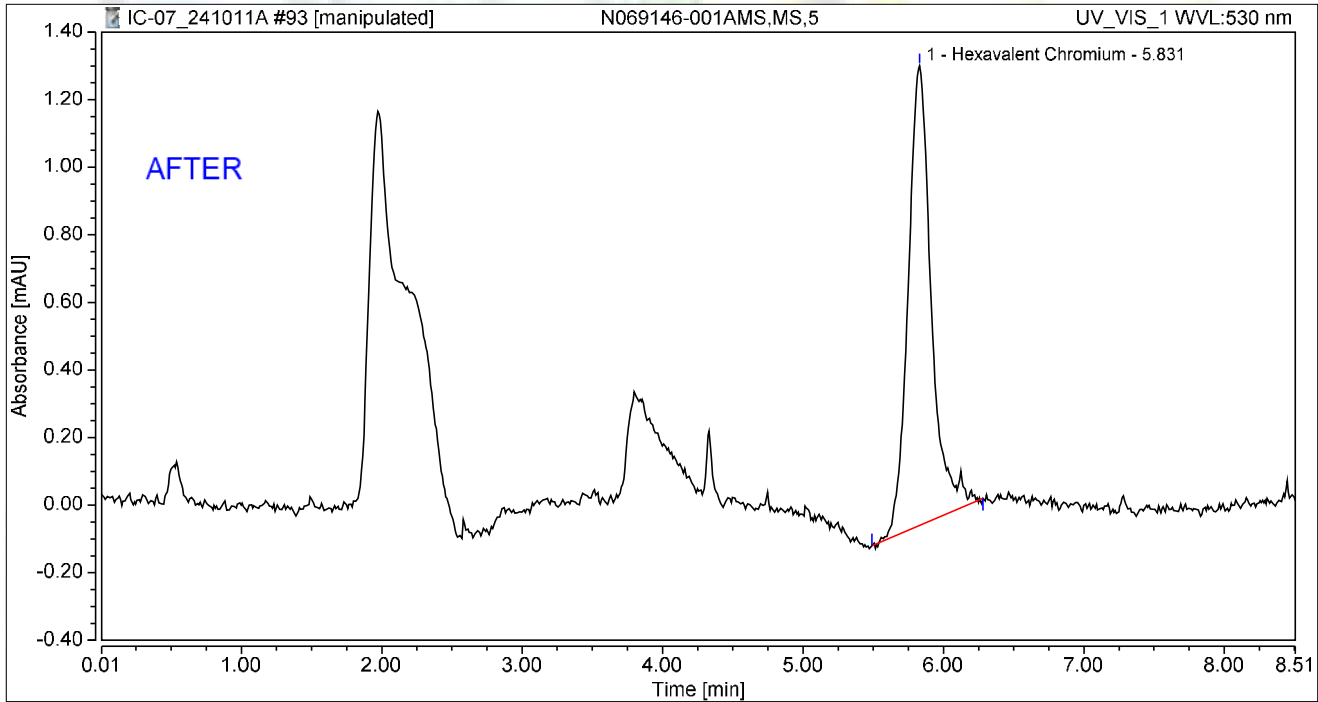
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-001AMS,MS,5	Run Time (min):	8.50
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 22:43	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.831	0.260	1.360	100.00	100.00	0.9567
Total:			0.260	1.360	100.00	100.00	

Reviewed by:

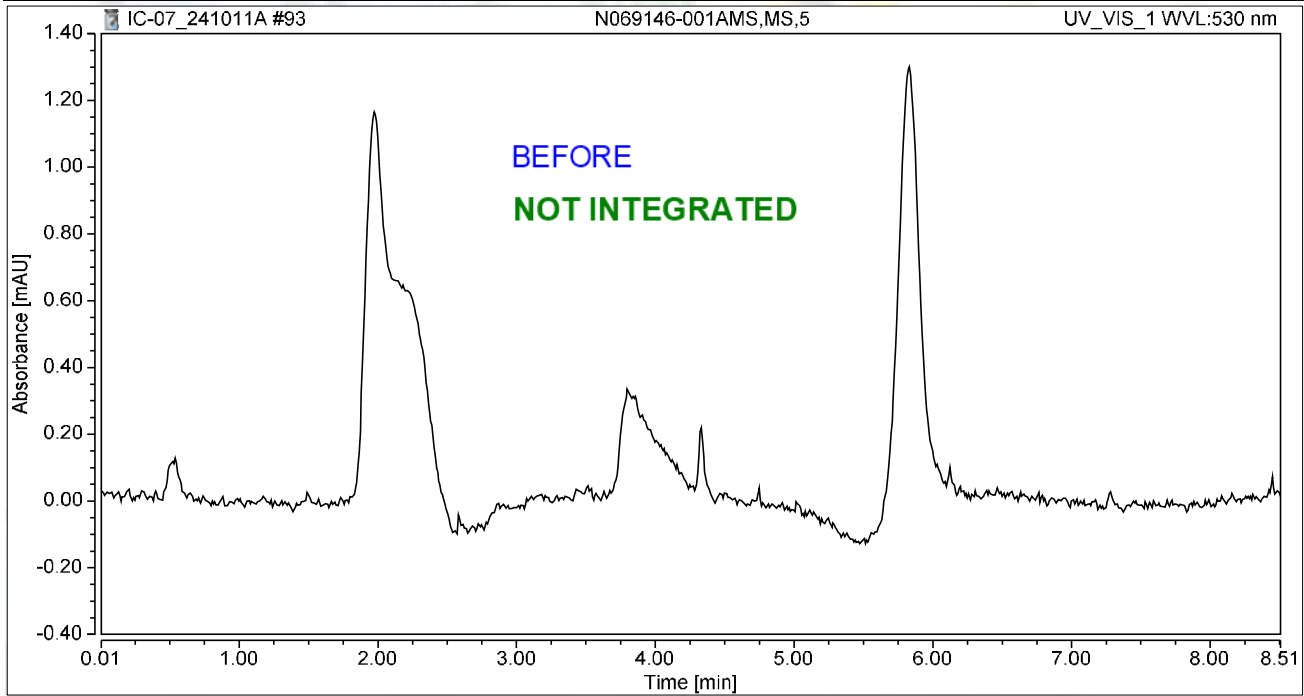
d/Recha 10/24/2024

Chromatogram and Results

Injection Details

Injection Name:	N069146-001AMS,MS,5	Run Time (min):	8.50
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 22:43	Sample Weight:	1.0000

Chromatogram



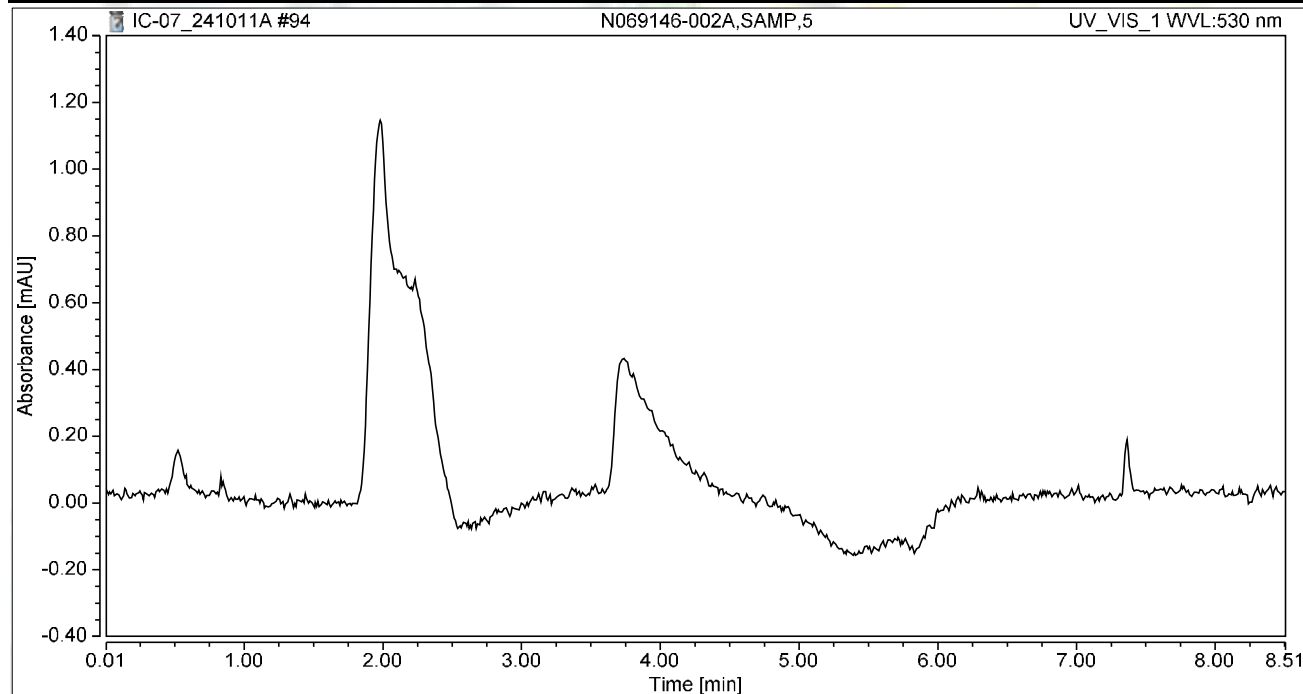
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069146-002A,SAMP,5	Run Time (min): 8.50
Vial Number:	41	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	11/Oct/24 22:52	Sample Weight: 1.0000

Chromatogram



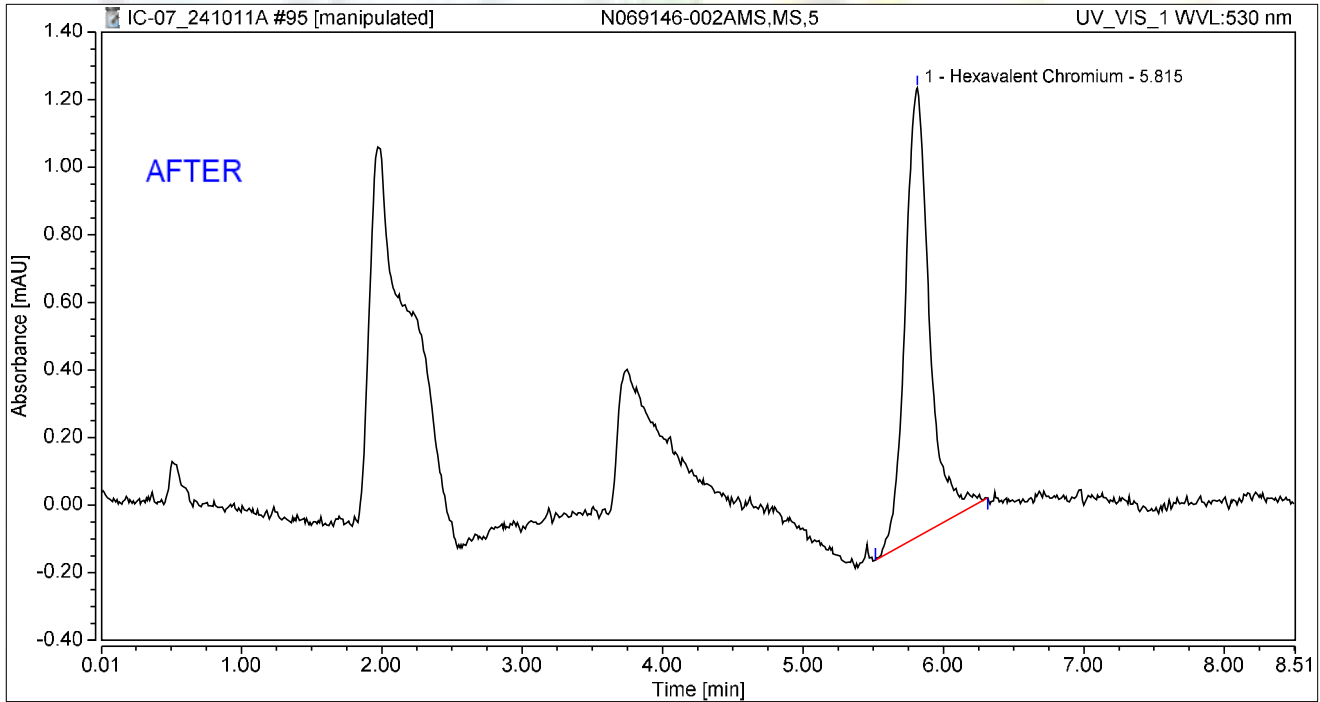
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	42	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 23:02	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.815	0.267	1.328	100.00	100.00	0.9827
Total:			0.267	1.328	100.00	100.00	

Reviewed by:

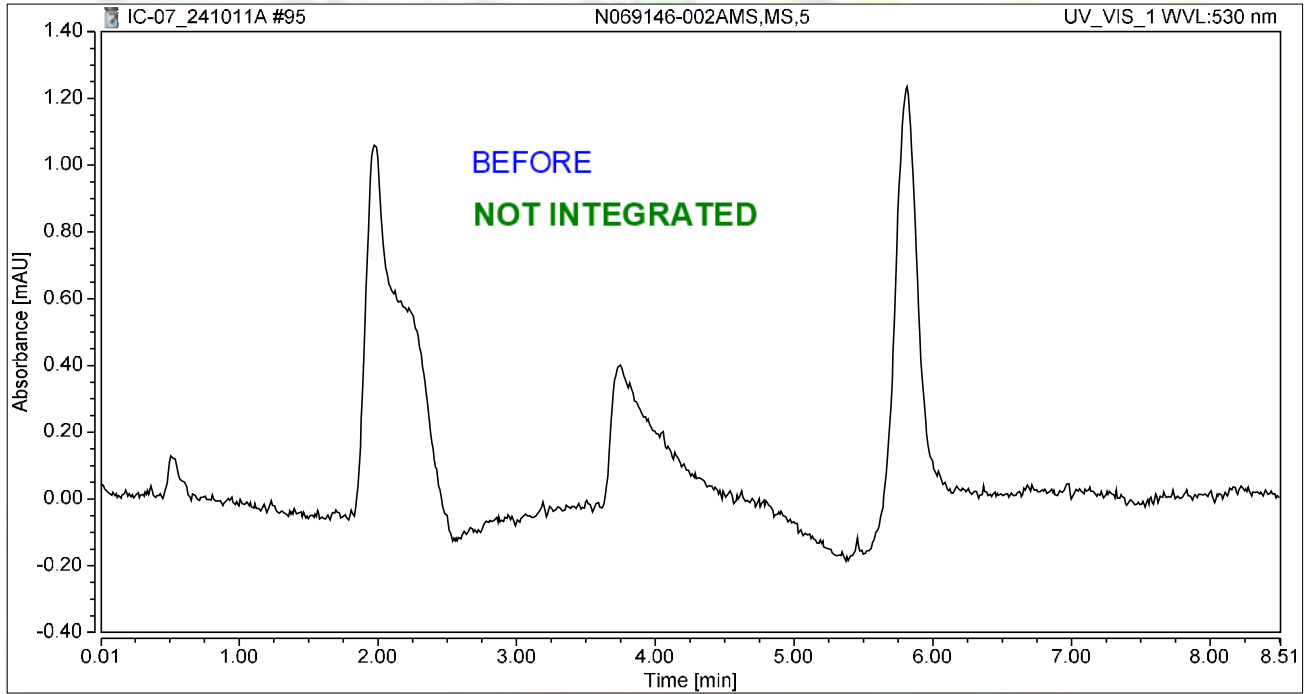
d/Rocha 10/24/2024

Chromatogram and Results

Injection Details

Injection Name:	N069146-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	42	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 23:02	Sample Weight:	1.0000

Chromatogram



Integration Results

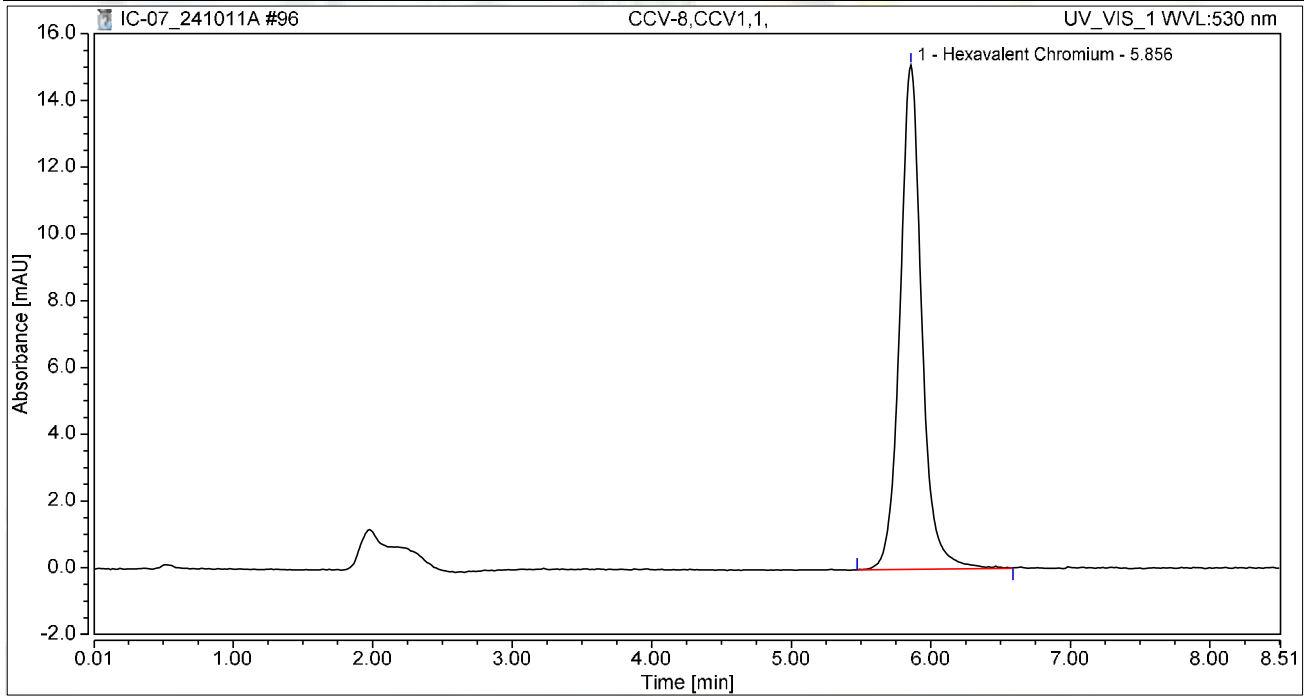
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-8,CCV1,1,	Run Time (min):	8.50
Vial Number:	43	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 23:11	Sample Weight:	1.0000

Chromatogram



Integration Results

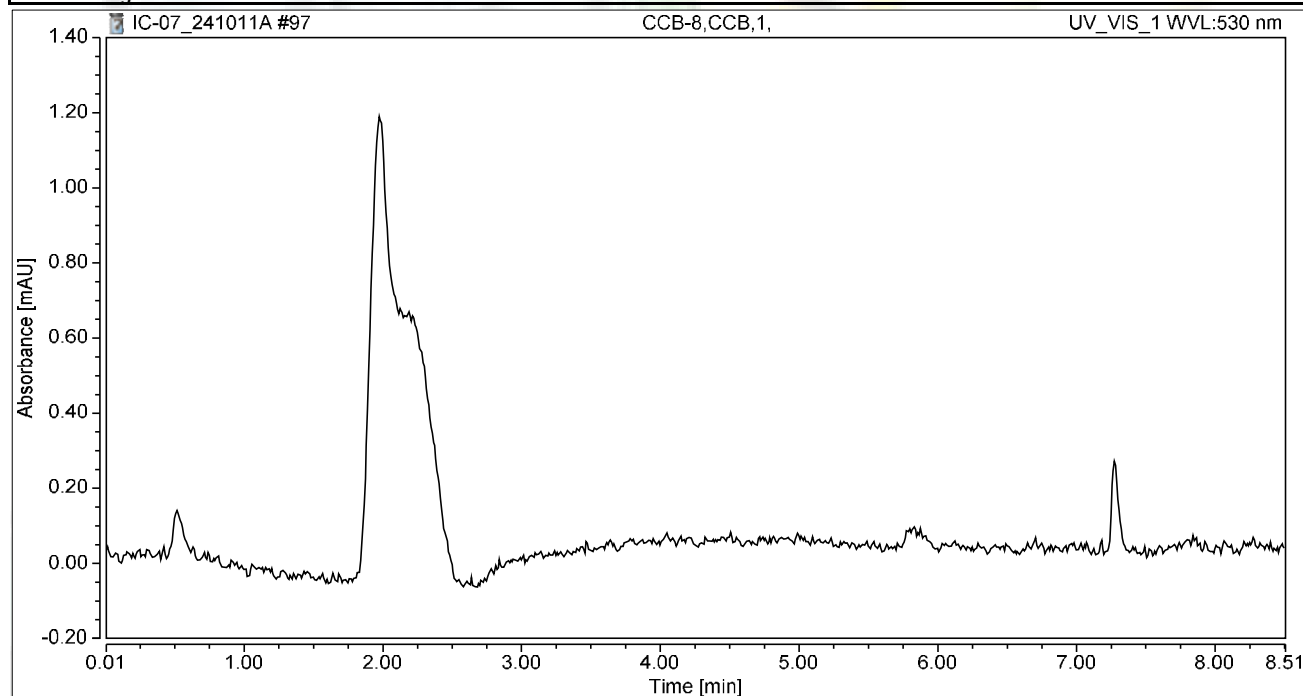
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.856	2.746	15.104	100.00	100.00	10.1167
Total:			2.746	15.104	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-8,CCB,1,	Run Time (min):	8.50
Vial Number:	44	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 23:20	Sample Weight:	1.0000

Chromatogram



Integration Results

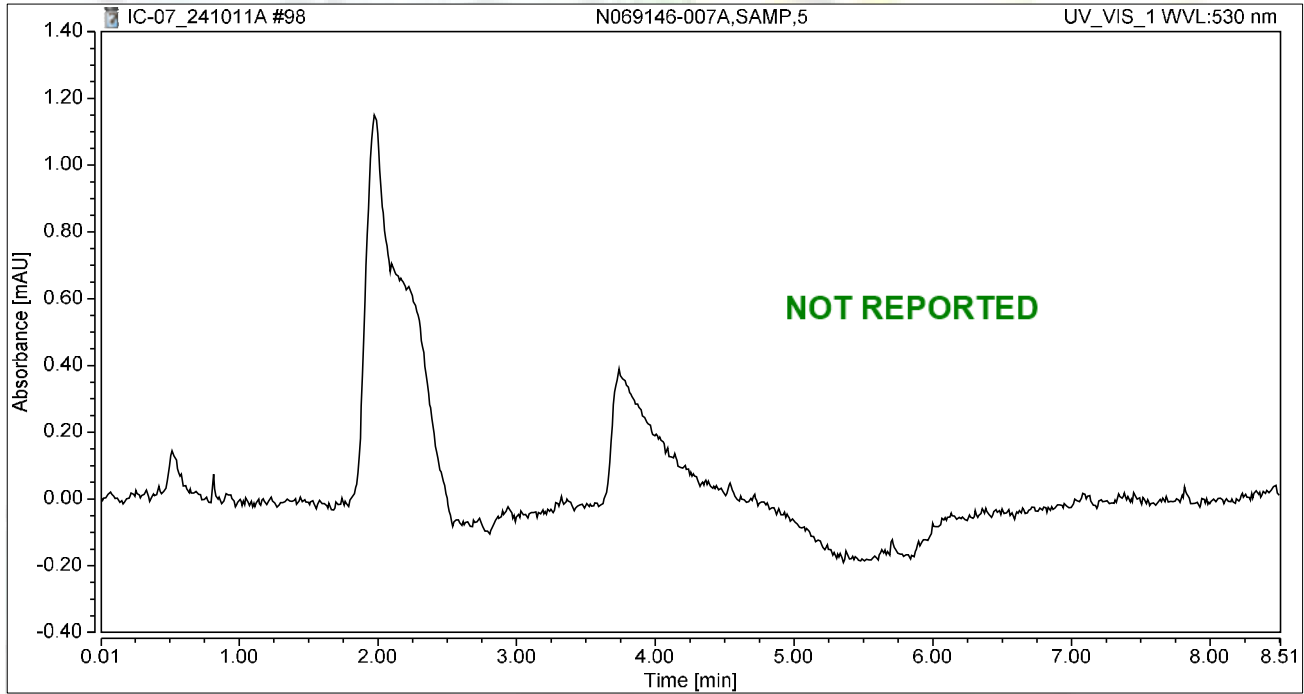
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-007A,SAMP,5	Run Time (min):	8.50
Vial Number:	45	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 23:30	Sample Weight:	1.0000

Chromatogram



Integration Results

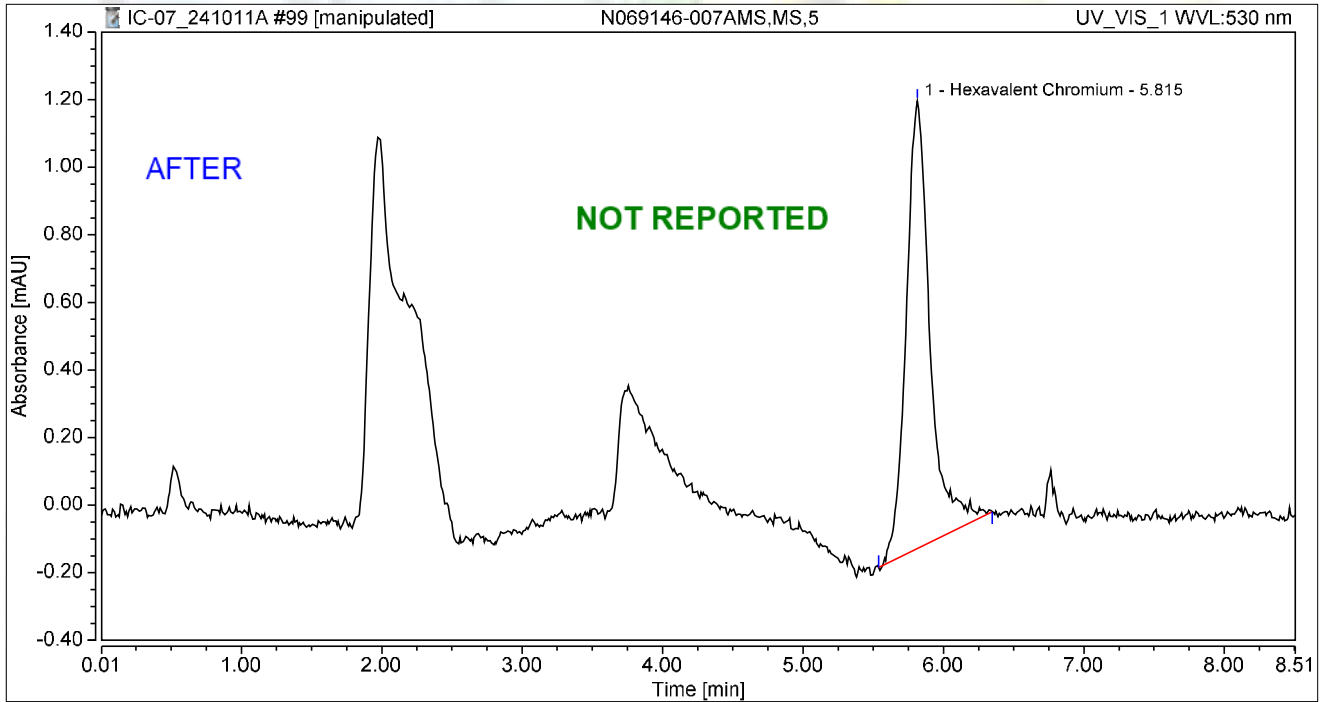
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-007AMS,MS,5	Run Time (min):	8.50
Vial Number:	46	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 23:39	Sample Weight:	1.0000

Chromatogram



Integration Results

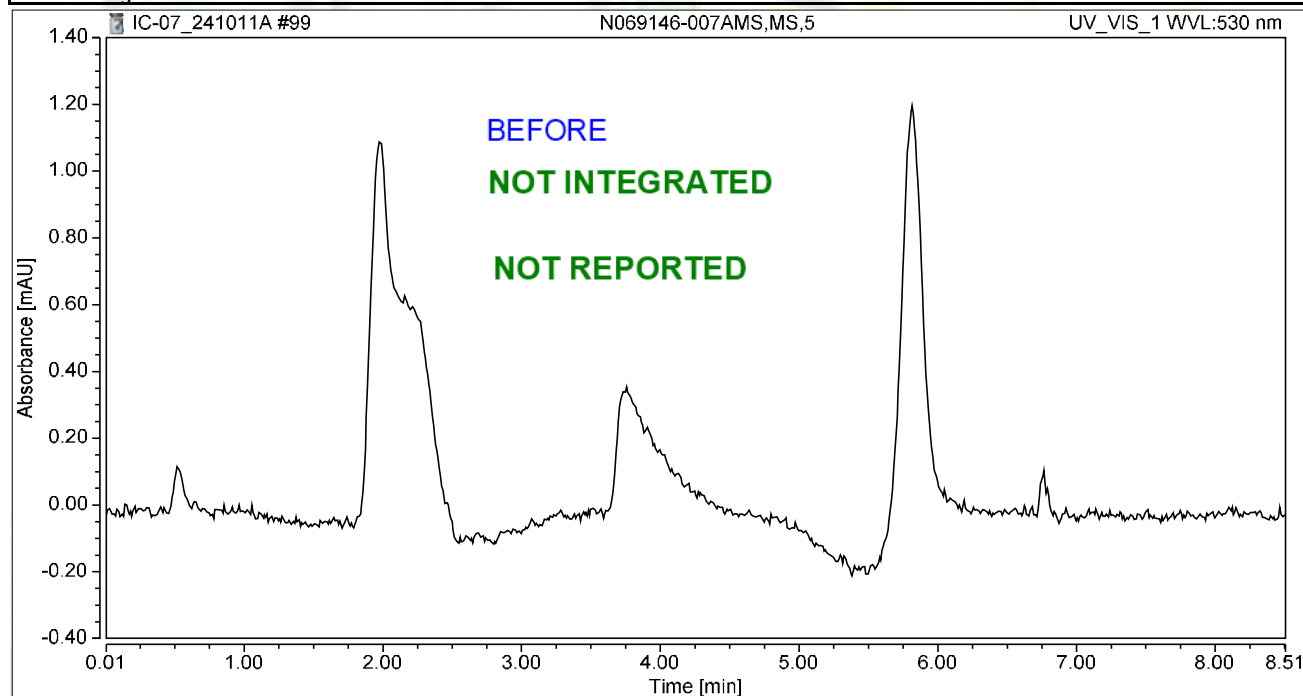
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.815	0.261	1.324	100.00	100.00	0.9629
Total:			0.261	1.324	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-007AMS,MS,5	Run Time (min):	8.50
Vial Number:	46	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 23:39	Sample Weight:	1.0000

Chromatogram



Integration Results

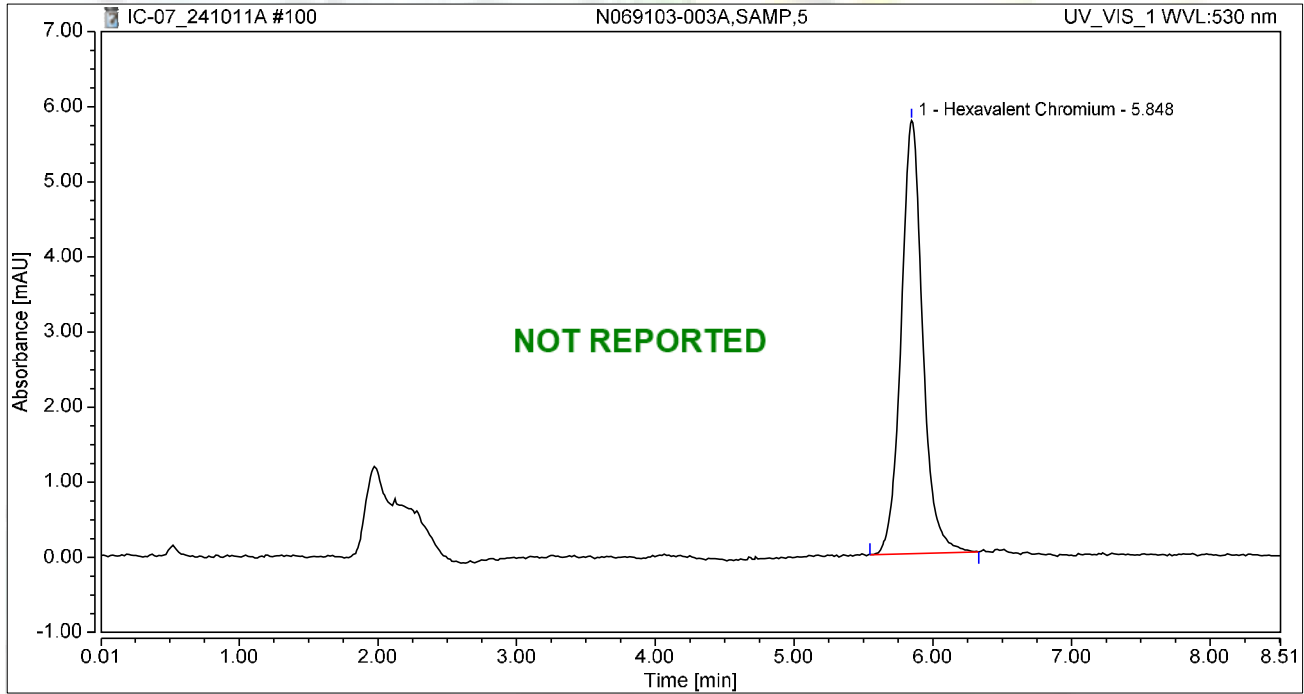
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069103-003A,SAMP,5	Run Time (min):	8.50
Vial Number:	47	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 23:49	Sample Weight:	1.0000

Chromatogram



Integration Results

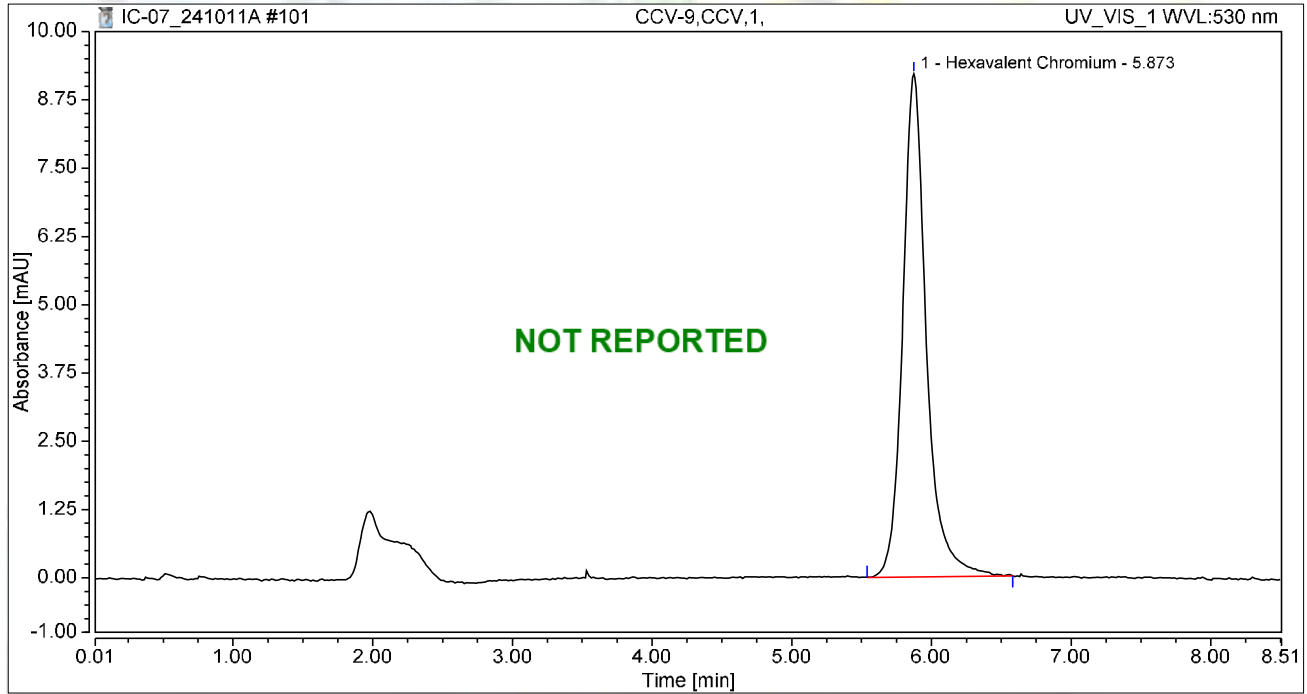
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.848	1.039	5.770	100.00	100.00	3.8276
Total:			1.039	5.770	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-9,CCV,1,	Run Time (min):	8.49
Vial Number:	48	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	11/Oct/24 23:58	Sample Weight:	1.0000

Chromatogram



Integration Results

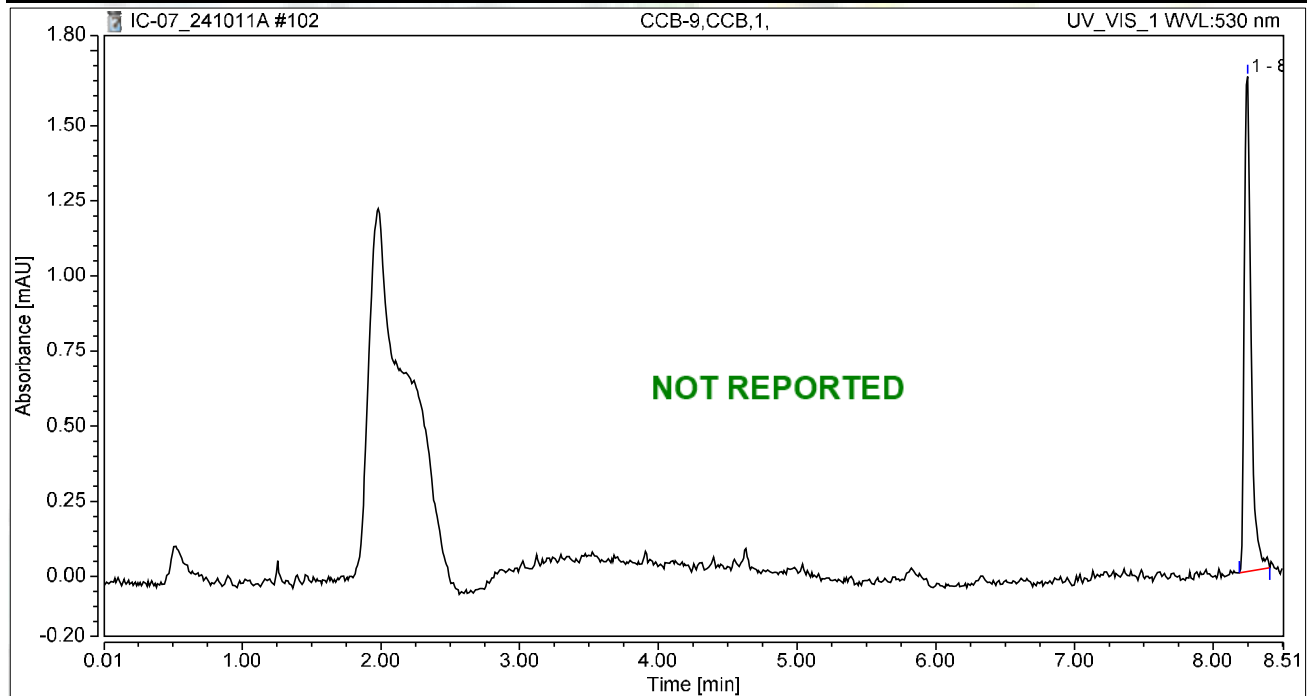
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.873	1.804	9.210	100.00	100.00	6.6447
Total:			1.804	9.210	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-9,CCB,1,	Run Time (min):	8.50
Vial Number:	49	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 00:08	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		8.248	0.094	1.648	100.00	100.00	n.a.
Total:			0.094	1.648	100.00	100.00	

RAW DATA



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"Serving Clients with Passion and Professionalism"

INJECTION LOG: 241012A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/01/24 10:06 AM	Not Reported
2	BLANK	BLANK	1	Hexavalent Chromium	10/01/24 10:20 AM	Not Reported
3	iBLANK	iBLANK	1	Hexavalent Chromium	10/01/24 10:29 AM	Reported
4	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:39 AM	Reported
5	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:48 AM	Reported
6	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:58 AM	Reported
7	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:07 AM	Reported
8	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:17 AM	Reported
9	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:26 AM	Reported
10	BLANK	BLANK	1	Hexavalent Chromium	10/12/24 6:29 AM	Not Reported
11	CCV-1	CCV	1	Hexavalent Chromium	10/12/24 6:42 AM	Reported
12	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/12/24 6:52 AM	Reported
13	CCB-1	CCB	1	Hexavalent Chromium	10/12/24 7:01 AM	Reported
14	MB-H2O	MBLK	1	Hexavalent Chromium	10/12/24 7:11 AM	Not Reported
15	LCS-R194221	LCS	1	Hexavalent Chromium	10/12/24 7:20 AM	Reported
16	MB-R194221	MBLK	1	Hexavalent Chromium	10/12/24 7:37 AM	Reported
17	N069148-001A	SAMP	20	Hexavalent Chromium	10/12/24 7:48 AM	Reported
18	N069148-001AMS	MS	20	Hexavalent Chromium	10/12/24 7:58 AM	Reported
19	N069148-001AMSD	MSD	20	Hexavalent Chromium	10/12/24 8:07 AM	Reported
20	N069103-003A	SAMP	5	Hexavalent Chromium	10/12/24 8:16 AM	Reported
21	N069103-003ADUP	DUP	5	Hexavalent Chromium	10/12/24 8:37 AM	Reported
22	N069146-007A	SAMP	5	Hexavalent Chromium	10/12/24 8:49 AM	Reported
23	N069146-007AMS	MS	5	Hexavalent Chromium	10/12/24 8:58 AM	Reported
24	N069148-002A	SAMP	1	Hexavalent Chromium	10/12/24 9:08 AM	Reported
25	CCV-2	CCV1	1	Hexavalent Chromium	10/12/24 10:50 AM	Reported
26	CCB-2	CCB	1	Hexavalent Chromium	10/12/24 11:01 AM	Reported
27	N069147-001A	SAMP	1	Hexavalent Chromium	10/12/24 11:10 AM	Reported
28	N069147-001AMS	MS	1	Hexavalent Chromium	10/12/24 11:20 AM	Reported
29	N069147-002A	SAMP	1	Hexavalent Chromium	10/12/24 11:29 AM	Not Reported
30	N069147-002AMS	MS	1	Hexavalent Chromium	10/12/24 11:39 AM	Not Reported
31	N069147-006A	SAMP	1	Hexavalent Chromium	10/12/24 11:48 AM	Reported
32	N069147-006AMS	MS	1	Hexavalent Chromium	10/12/24 11:58 AM	Reported
33	N069147-007A	SAMP	1	Hexavalent Chromium	10/12/24 12:07 PM	Reported
34	N069147-007AMS	MS	1	Hexavalent Chromium	10/12/24 12:17 PM	Reported
35	N069147-003A	SAMP	1	Hexavalent Chromium	10/12/24 12:26 PM	Not Reported
36	N069147-003AMS	MS	1	Hexavalent Chromium	10/12/24 12:36 PM	Not Reported
37	CCV-3	CCV	1	Hexavalent Chromium	10/12/24 12:45 PM	Reported
38	CCB-3	CCB	1	Hexavalent Chromium	10/12/24 12:54 PM	Reported
39	N069147-004A	SAMP	1	Hexavalent Chromium	10/12/24 1:04 PM	Not Reported
40	N069147-004AMS	MS	1	Hexavalent Chromium	10/12/24 1:13 PM	Not Reported
41	N069147-005A	SAMP	1	Hexavalent Chromium	10/12/24 1:23 PM	Not Reported
42	N069147-005AMS	MS	1	Hexavalent Chromium	10/12/24 1:32 PM	Not Reported

INJECTION LOG: 241012A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069147-003A	SAMP	5	Hexavalent Chromium	10/12/24 1:42 PM	Reported
44	N069147-003AMS	MS	5	Hexavalent Chromium	10/12/24 1:51 PM	Reported
45	N069147-004A	SAMP	5	Hexavalent Chromium	10/12/24 2:01 PM	Reported
46	N069147-004AMS	MS	5	Hexavalent Chromium	10/12/24 2:10 PM	Reported
47	N069147-005A	SAMP	5	Hexavalent Chromium	10/12/24 2:20 PM	Reported
48	N069147-005AMS	MS	5	Hexavalent Chromium	10/12/24 2:29 PM	Reported
49	CCV-4	CCV1	1	Hexavalent Chromium	10/12/24 2:39 PM	Reported
50	CCB-4	CCB	1	Hexavalent Chromium	10/12/24 2:48 PM	Reported
51	N069148-003A	SAMP	5	Hexavalent Chromium	10/12/24 2:57 PM	Not Reported
52	N069148-004A	SAMP	1	Hexavalent Chromium	10/12/24 3:07 PM	Reported
53	N069148-005A	SAMP	1	Hexavalent Chromium	10/12/24 3:16 PM	Reported
54	N069148-006A	SAMP	5	Hexavalent Chromium	10/12/24 3:26 PM	Reported
55	N069148-007A	SAMP	10	Hexavalent Chromium	10/12/24 3:35 PM	Reported
56	N069148-008A	SAMP	5	Hexavalent Chromium	10/12/24 3:45 PM	Reported
57	N069146-003A	SAMP	5	Hexavalent Chromium	10/12/24 3:54 PM	Reported
58	N069146-003AMS	MS	5	Hexavalent Chromium	10/12/24 4:04 PM	Reported
59	N069146-011A	SAMP	5	Hexavalent Chromium	10/12/24 4:13 PM	Reported
60	N069146-011AMS	MS	5	Hexavalent Chromium	10/12/24 4:23 PM	Reported
61	CCV-5	CCV	1	Hexavalent Chromium	10/12/24 4:32 PM	Reported
62	CCB-5	CCB	1	Hexavalent Chromium	10/12/24 4:41 PM	Reported
63	N069146-012A	SAMP	5	Hexavalent Chromium	10/12/24 4:51 PM	Reported
64	N069146-012AMS	MS	5	Hexavalent Chromium	10/12/24 5:00 PM	Reported
65	CCV-6	CCV1	1	Hexavalent Chromium	10/12/24 5:10 PM	Reported
66	CCB-6	CCB	1	Hexavalent Chromium	10/12/24 5:19 PM	Reported
67	BLANK	BLANK	1	Hexavalent Chromium	10/12/24 5:29 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241012A	Created On:	24Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	12/Oct/24 17:59:32
No. of Injections:	70	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/01/2024 10:06	Finished	BLANK
2	BLANK	2	1000	Unknown		10/01/2024 10:20	Finished	BLANK
3	iBLANK	3	1000	Unknown		10/01/2024 10:29	Finished	INSTRUMENT BLANK
4	STD1-0.2 ppb	4	1000	Calibration Standard	01	10/01/2024 10:39	Finished	0.2 ppb, IWST-240729A, 2uL>
5	STD2-1.0 ppb	5	1000	Calibration Standard	02	10/01/2024 10:48	Finished	1.0 ppb, IWST-240729A, 10uL>
6	STD3-5.0 ppb	6	1000	Calibration Standard	03	10/01/2024 10:58	Finished	5.0 ppb, IWST-240729A, 50uL>
7	STD4-10.0 ppb	7	1000	Calibration Standard	04	10/01/2024 11:07	Finished	10 ppb, IWST-240729A, 100uL>
8	STD5-15.0 ppb	8	1000	Calibration Standard	05	10/01/2024 11:17	Finished	15 ppb, IWST-240729A, 150uL>
9	STD6-20.0 ppb	9	1000	Calibration Standard	06	10/01/2024 11:26	Finished	20 ppb, IWST-240729A, 200uL>
10	BLANK	1	1000	Unknown		10/12/2024 06:29	Finished	BLANK
11	CCV-1.CCV,1,	2	1000	Unknown		10/12/2024 06:42	Finished	CCV @5ppb, IWST-240729A
12	PQL@0.2ppb.CCV2,	3	1000	Unknown		10/12/2024 06:52	Finished	PQL @ 0.2ppb
13	CCB-1.CCB,1,	4	1000	Unknown		10/12/2024 07:01	Finished	CCB R240923C
14	MB-H2O.MBLK,1,	5	1000	Unknown		10/12/2024 07:11	Finished	MB R240923C
15	LCS-H2O.LCS,1,	6	1000	Unknown		10/12/2024 07:20	Finished	LCS @5ppb, IWST-240729B
16	MB-H2O.MBLK,1,	1	1000	Unknown		10/12/2024 07:37	Finished	MB R240923C
17	N069148-001A,SAMP	2	1000	Unknown		10/12/2024 07:48	Finished	SAMP,0.5>10 mL
18	N069148-001AMS,MS	3	1000	Unknown		10/12/2024 07:58	Finished	MS (5ppb), IWST-240729B,0.5
19	N069148-001AMSD,N	4	1000	Unknown		10/12/2024 08:07	Finished	MSD (5ppb), IWST-240729B,0
20	N069103-003A,SAMP	5	1000	Unknown		10/12/2024 08:16	Finished	SAMP,2>10 mL
21	N069103-003ADUP,D	1	1000	Unknown		10/12/2024 08:37	Finished	DUP,2>10 mL
22	N069146-007A,SAMP	2	1000	Unknown		10/12/2024 08:49	Finished	SAMP,2>10 mL
23	N069146-007AMS,MS	3	1000	Unknown		10/12/2024 08:58	Finished	MS (1ppb), IWST-240729B,2>1
24	N069148-002A,SAMP	4	1000	Unknown		10/12/2024 09:08	Finished	SAMP,10 mL
25	CCV-2.CCV1,1,	1	1000	Unknown		10/12/2024 10:50	Finished	CCV @10ppb, IWST-240729A
26	CCB-2.CCB,1,	2	1000	Unknown		10/12/2024 11:01	Finished	CCB R240923C
27	N069147-001A,SAMP	3	1000	Unknown		10/12/2024 11:10	Finished	SAMP,10 mL
28	N069147-001AMS,MS	4	1000	Unknown		10/12/2024 11:20	Finished	MS (1ppb), IWST-240729B,10r
29	N069147-002A,SAMP	5	1000	Unknown		10/12/2024 11:29	Finished	SAMP,10 mL
30	N069147-002AMS,MS	6	1000	Unknown		10/12/2024 11:39	Finished	MS (1ppb), IWST-240729B,10r
31	N069147-006A,SAMP	7	1000	Unknown		10/12/2024 11:48	Finished	SAMP,10 mL
32	N069147-006AMS,MS	8	1000	Unknown		10/12/2024 11:58	Finished	MS (1ppb), IWST-240729B,10r
33	N069147-007A,SAMP	9	1000	Unknown		10/12/2024 12:07	Finished	SAMP,10 mL
34	N069147-007AMS,MS	10	1000	Unknown		10/12/2024 12:17	Finished	DUP,10 mL
35	N069147-003A,SAMP	11	1000	Unknown		10/12/2024 12:26	Finished	SAMP,10 mL
36	N069147-003AMS,MS	12	1000	Unknown		10/12/2024 12:36	Finished	MS (1ppb), IWST-240729B,10r
37	CCV-3.CCV,1,	13	1000	Unknown		10/12/2024 12:45	Finished	CCV @5ppb, IWST-240729A
38	CCB-3.CCB,1,	14	1000	Unknown		10/12/2024 12:54	Finished	CCB R240923C
39	N069147-004A,SAMP	15	1000	Unknown		10/12/2024 13:04	Finished	SAMP,10 mL
40	N069147-004AMS,MS	16	1000	Unknown		10/12/2024 13:13	Finished	MS (1ppb), IWST-240729B,10r
41	N069147-005A,SAMP	17	1000	Unknown		10/12/2024 13:23	Finished	SAMP,10 mL
42	N069147-005AMS,MS	18	1000	Unknown		10/12/2024 13:32	Finished	MS (1ppb), IWST-240729B,10r
43	N069147-003A,SAMP	19	1000	Unknown		10/12/2024 13:42	Finished	SAMP,2>10 mL
44	N069147-003AMS,MS	20	1000	Unknown		10/12/2024 13:51	Finished	MS (1ppb), IWST-240729B,2>1
45	N069147-004A,SAMP	21	1000	Unknown		10/12/2024 14:01	Finished	SAMP,2>10 mL
46	N069147-004AMS,MS	22	1000	Unknown		10/12/2024 14:10	Finished	MS (1ppb), IWST-240729B,2>1
47	N069147-005A,SAMP	23	1000	Unknown		10/12/2024 14:20	Finished	SAMP,2>10 mL
48	N069147-005AMS,MS	24	1000	Unknown		10/12/2024 14:29	Finished	MS (1ppb), IWST-240729B,2>1
49	CCV-4.CCV1,1,	25	1000	Unknown		10/12/2024 14:39	Finished	CCV @10ppb, IWST-240729A
50	CCB-4.CCB,1,	26	1000	Unknown		10/12/2024 14:48	Finished	CCB R240923C
51	N069148-003A,SAMP	27	1000	Unknown		10/12/2024 14:57	Finished	SAMP,2>10 mL
52	N069148-004A,SAMP	28	1000	Unknown		10/12/2024 15:07	Finished	SAMP,10 mL
53	N069148-005A,SAMP	29	1000	Unknown		10/12/2024 15:16	Finished	SAMP,10 mL
54	N069148-006A,SAMP	30	1000	Unknown		10/12/2024 15:26	Finished	SAMP,2>10 mL
55	N069148-007A,SAMP	31	1000	Unknown		10/12/2024 15:35	Finished	SAMP,1>10 mL
56	N069148-008A,SAMP	32	1000	Unknown		10/12/2024 15:45	Finished	SAMP,2>10 mL
57	N069146-003A,SAMP	33	1000	Unknown		10/12/2024 15:54	Finished	SAMP,2>10 mL
58	N069146-003AMS,MS	34	1000	Unknown		10/12/2024 16:04	Finished	MS (1ppb), IWST-240729B,2>1
59	N069146-011A,SAMP	35	1000	Unknown		10/12/2024 16:13	Finished	SAMP,2>10 mL
60	N069146-011AMS,MS	36	1000	Unknown		10/12/2024 16:23	Finished	MS (1ppb), IWST-240729B,2>1

61	CCV-5.CCV,1,	37	1000	Unknown		10/12/2024 16:32	Finished	CCV @5ppb, IWST-240729A
62	CCB-5.CCB,1,	38	1000	Unknown		10/12/2024 16:41	Finished	CCB R240923C
63	N069146-012A,SAMP	39	1000	Unknown		10/12/2024 16:51	Finished	SAMP,2>10 mL
64	N069146-012AMS,MS	40	1000	Unknown		10/12/2024 17:00	Finished	MS (1ppb), IWST-240729B,2>1
65	CCV-6.CCV1,1,	41	1000	Unknown		10/12/2024 17:10	Finished	CCV @10ppb, IWST-240729A
66	CCB-6.CCB,1,	42	1000	Unknown		10/12/2024 17:19	Finished	CCB R240923C
67	BLANK	43	1000	Unknown		10/12/2024 17:29	Finished	BLANK
68	SHUTDOWN	44	1000	Unknown		10/12/2024 17:38	Finished	
69	Eluent: R241012A	45	1000	Unknown		n.a.	Finished	
70	PCR: R241012B	46	1000	Unknown		n.a.	Finished	

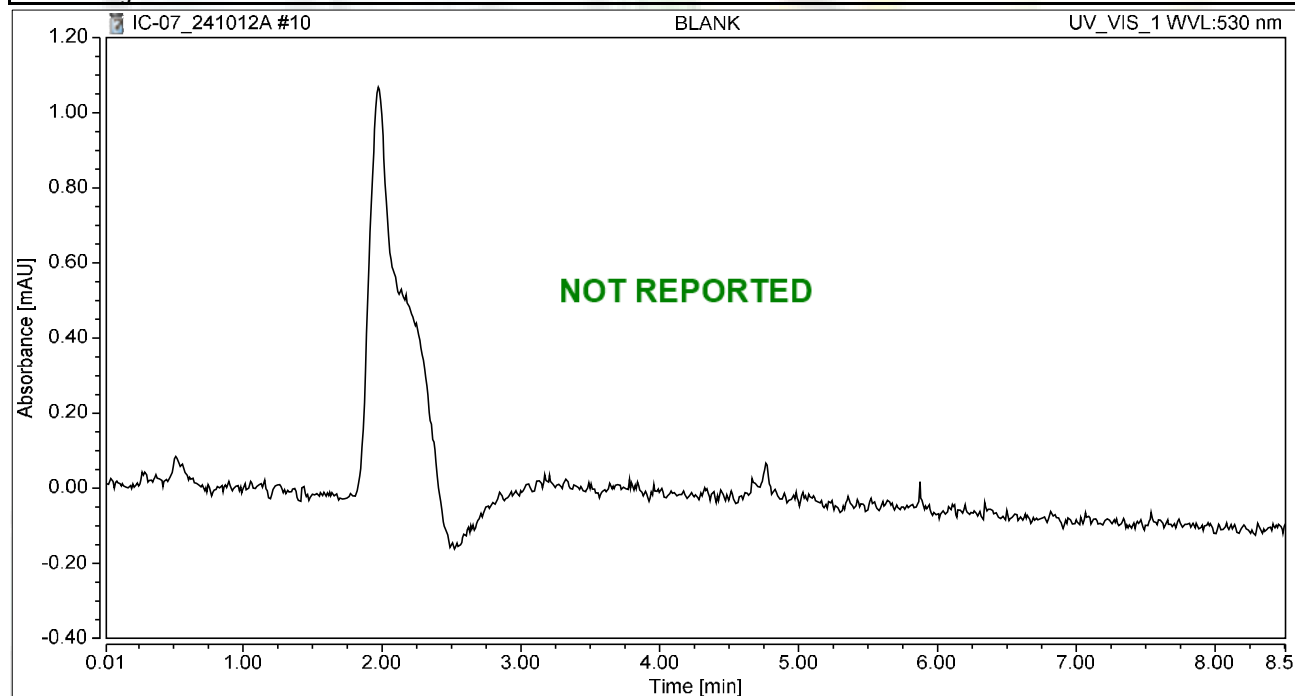


Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 06:29	Sample Weight:	1.0000

Chromatogram



Integration Results

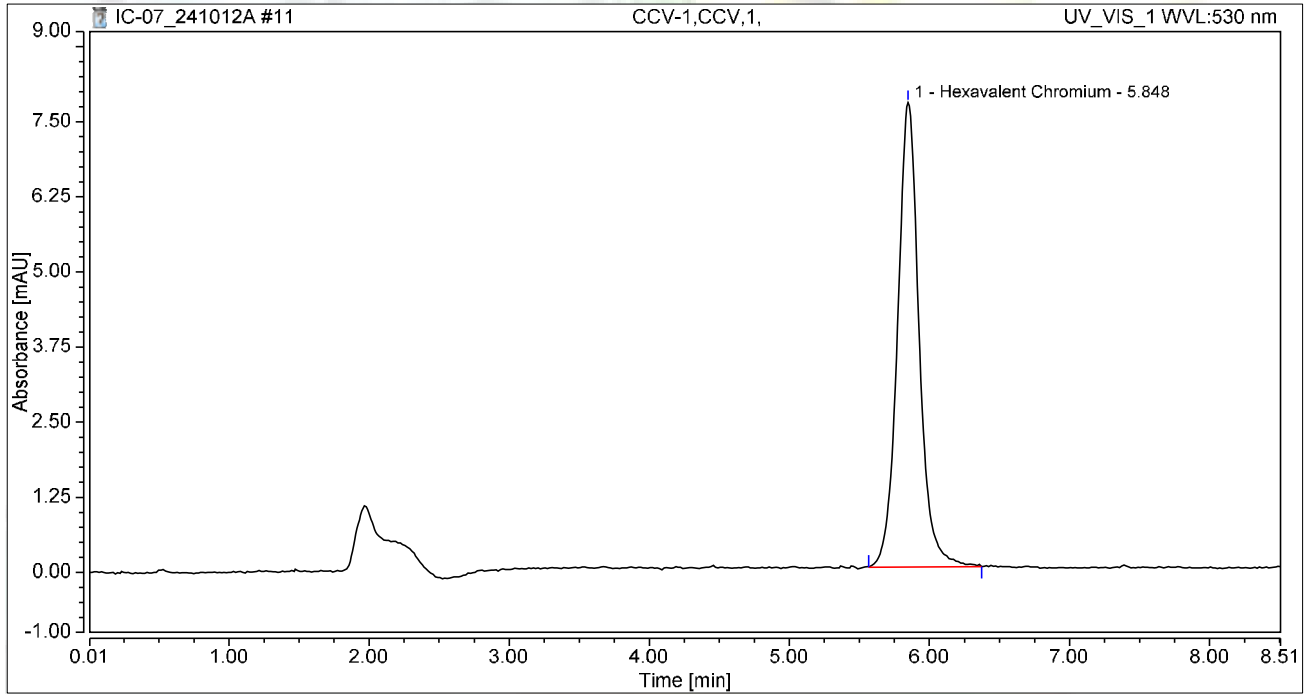
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-1,CCV,1,	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 06:42	Sample Weight:	1.0000

Chromatogram



Integration Results

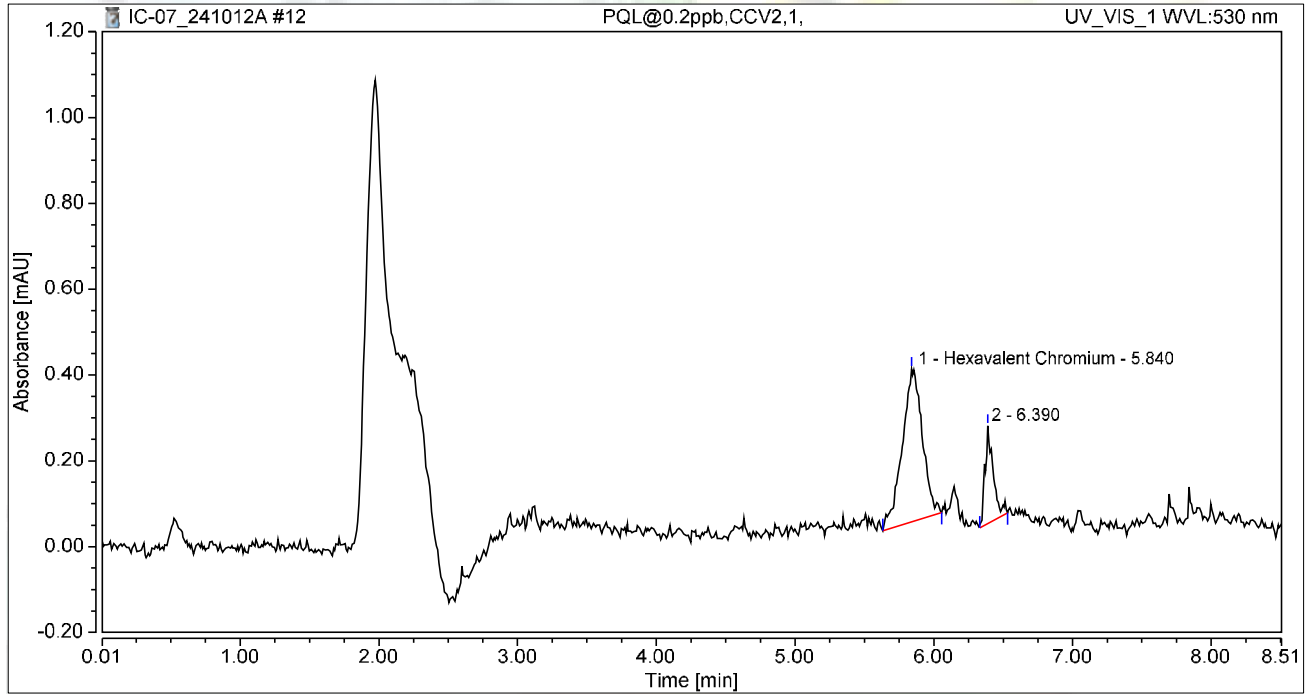
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.848	1.377	7.726	100.00	100.00	5.0704
Total:			1.377	7.726	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 06:52	Sample Weight:	1.0000

Chromatogram



Integration Results

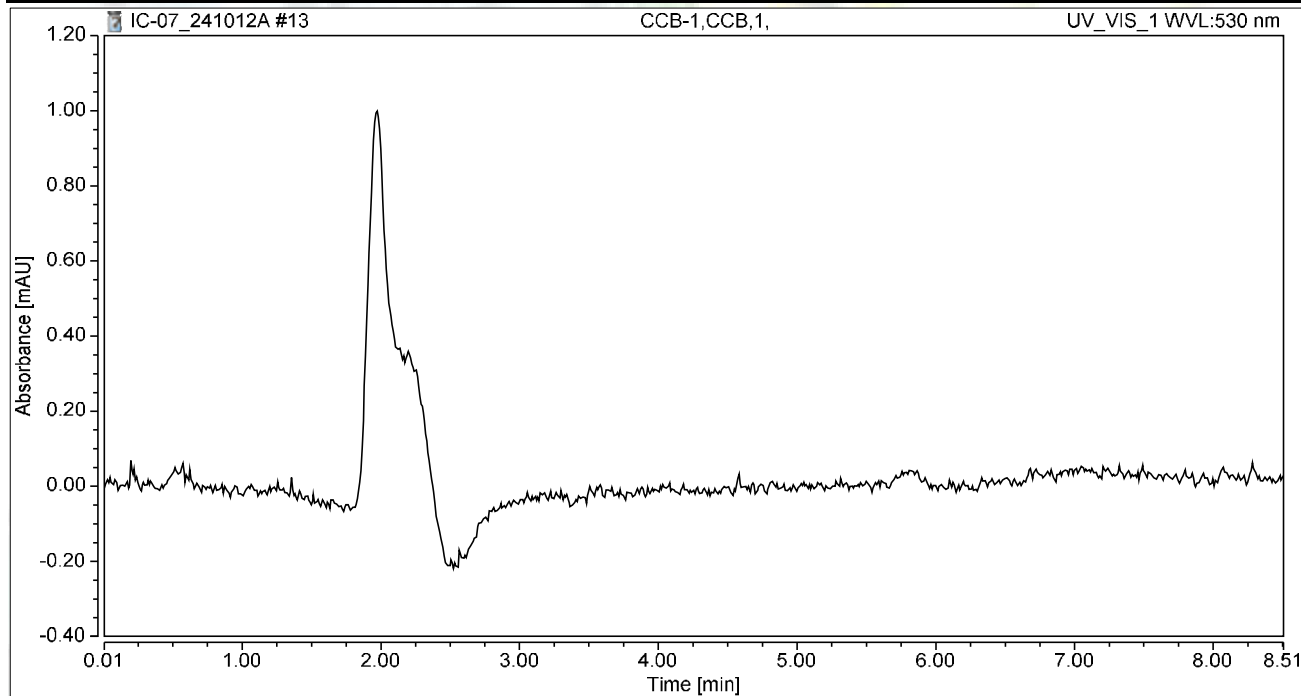
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.840	0.060	0.355	79.42	61.06	0.2202
2		6.390	0.015	0.227	20.58	38.94	n.a.
Total:			0.075	0.582	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-1,CCB,1,	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 07:01	Sample Weight:	1.0000

Chromatogram



Integration Results

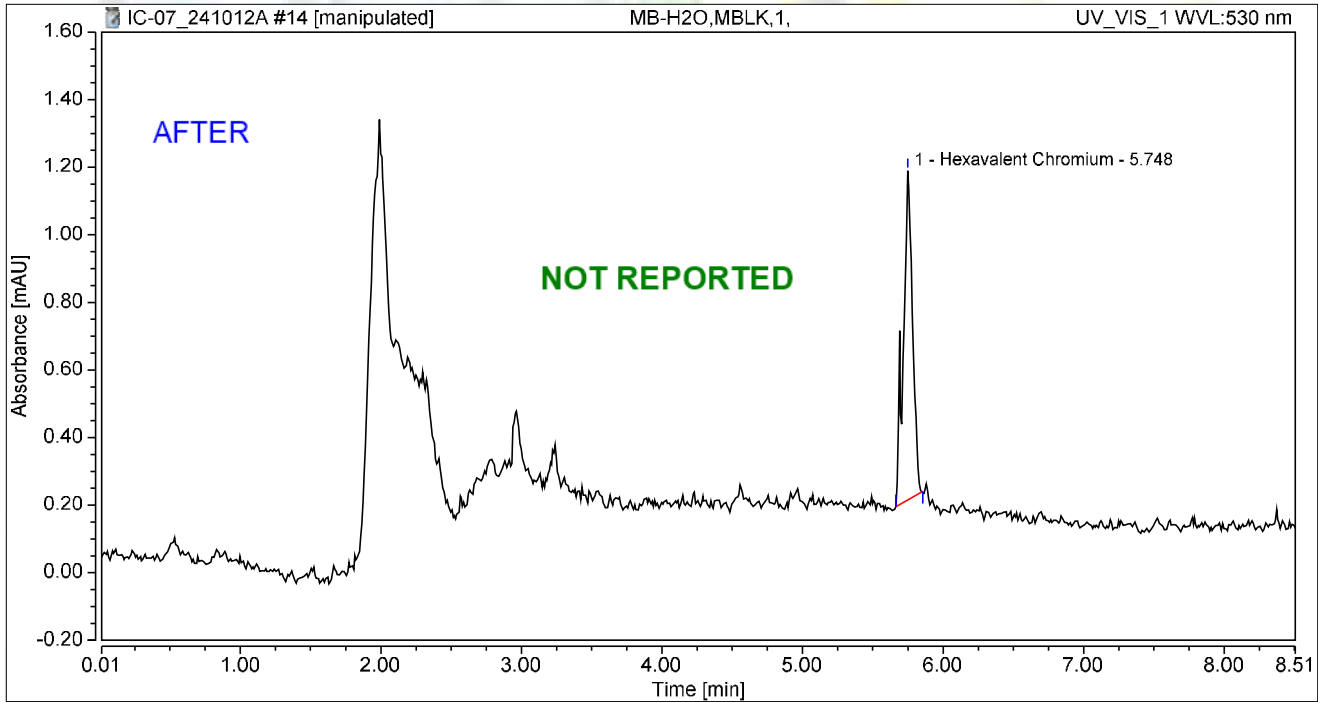
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.49
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 07:11	Sample Weight:	1.0000

Chromatogram



Integration Results

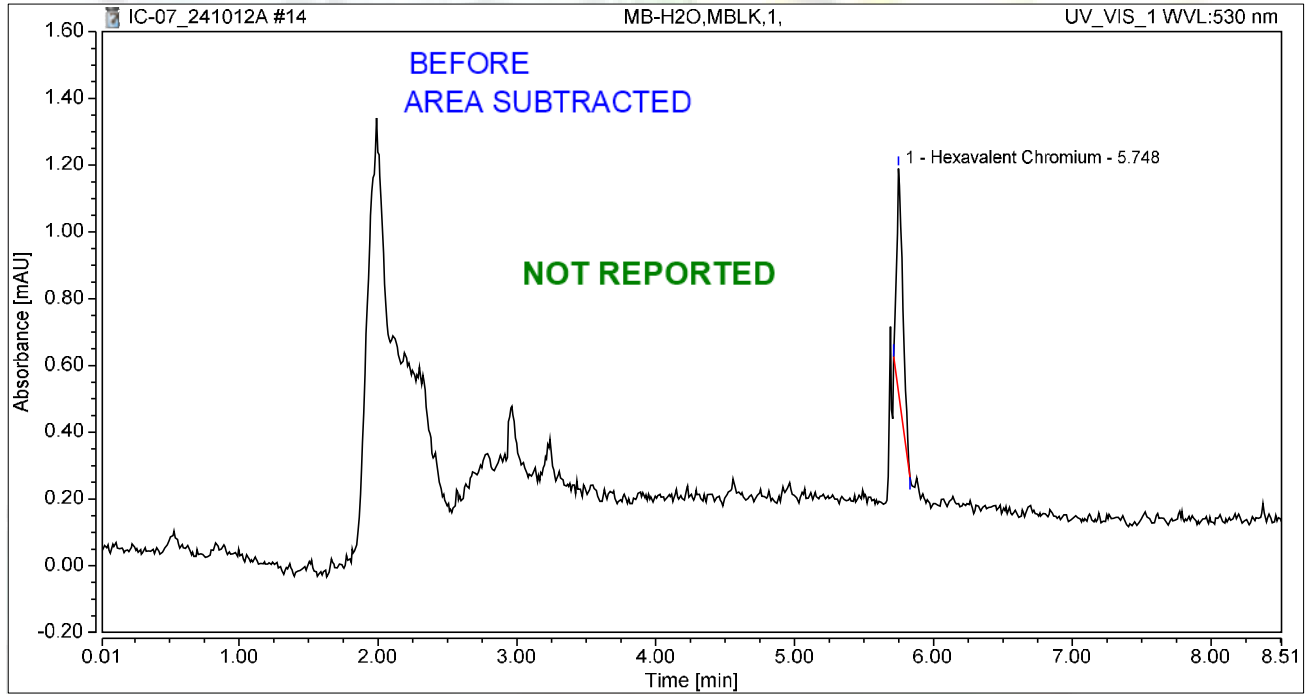
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.748	0.073	0.975	100.00	100.00	0.2685
Total:			0.073	0.975	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.49
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 07:11	Sample Weight:	1.0000

Chromatogram



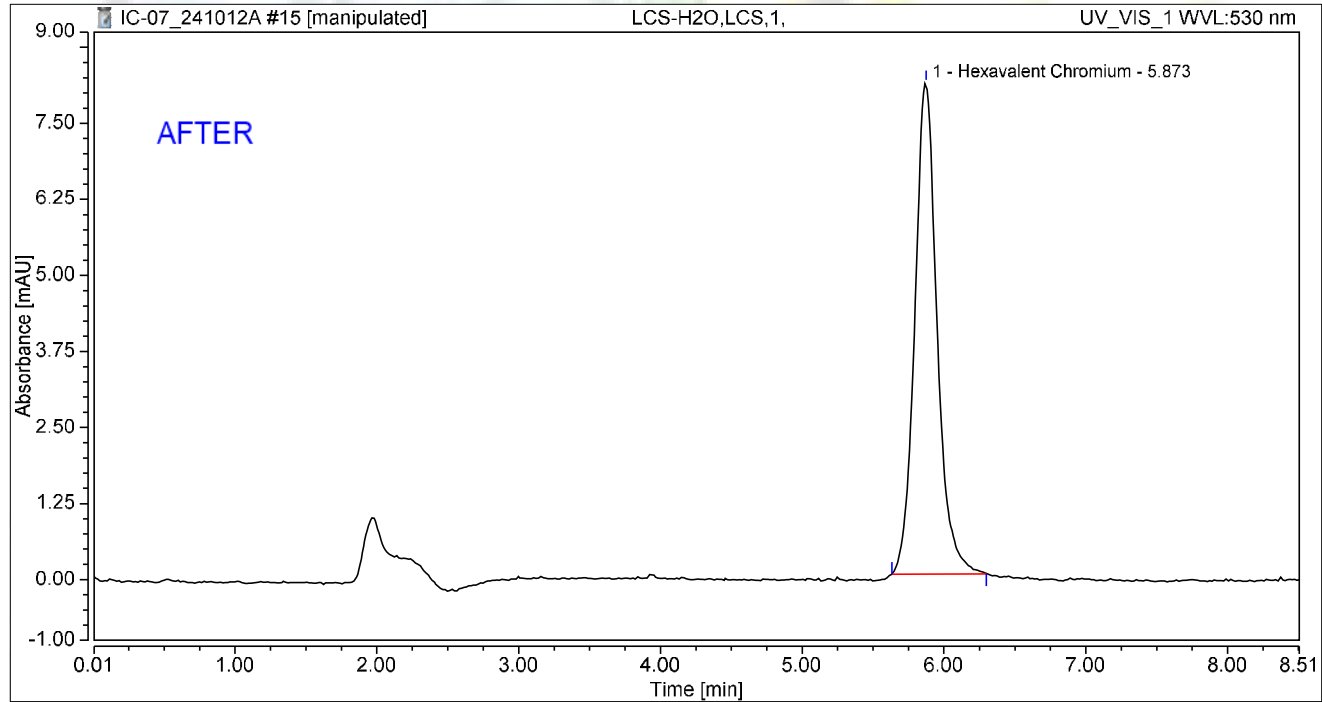
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.748	0.034	0.667	100.00	100.00	0.1238
Total:			0.034	0.667	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	LCS-H2O,LCS,1,	Run Time (min): 8.50
Vial Number:	6	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Oct/24 07:20	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.873	1.467	8.079	100.00	100.00	5.4049
Total:			1.467	8.079	100.00	100.00	

Reviewed by:

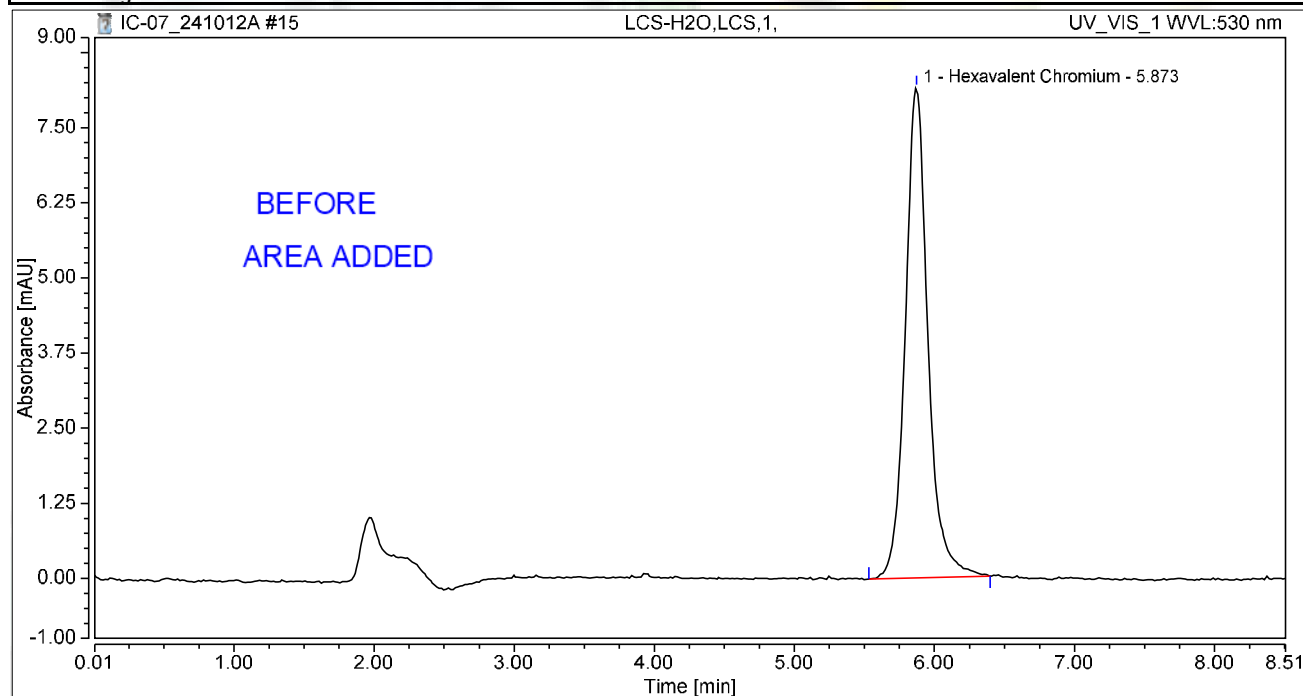
d/Recha 10/24/2024

Chromatogram and Results

Injection Details

Injection Name:	LCS-H2O,LCS,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 07:20	Sample Weight:	1.0000

Chromatogram



Integration Results

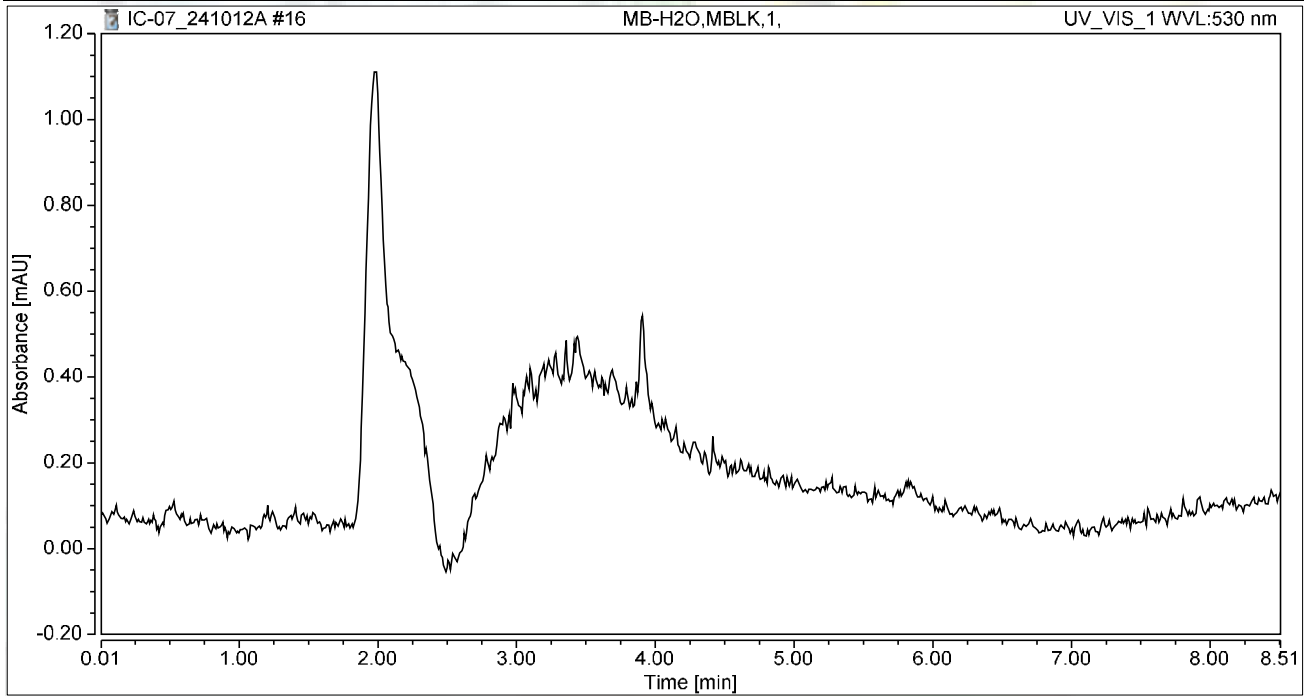
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.873	1.525	8.160	100.00	100.00	5.6166
Total:			1.525	8.160	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 07:37	Sample Weight:	1.0000

Chromatogram



Integration Results

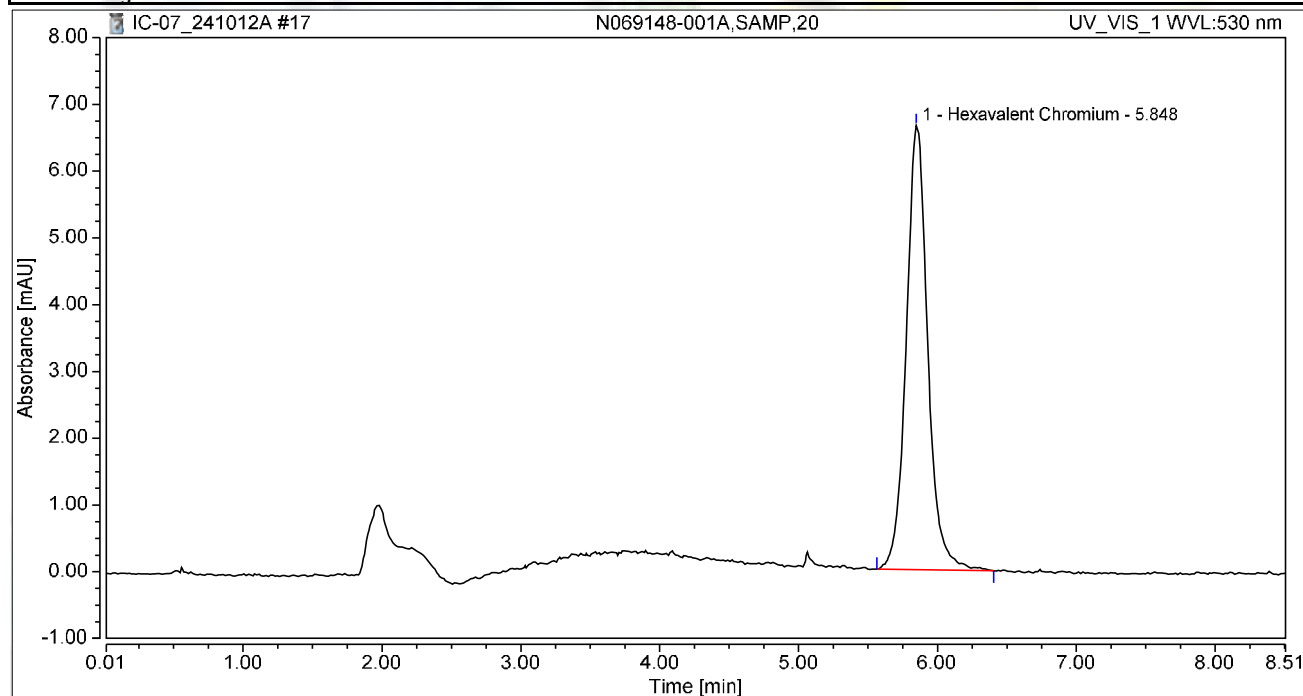
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069148-001A,SAMP,20	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 07:48	Sample Weight:	1.0000

Chromatogram



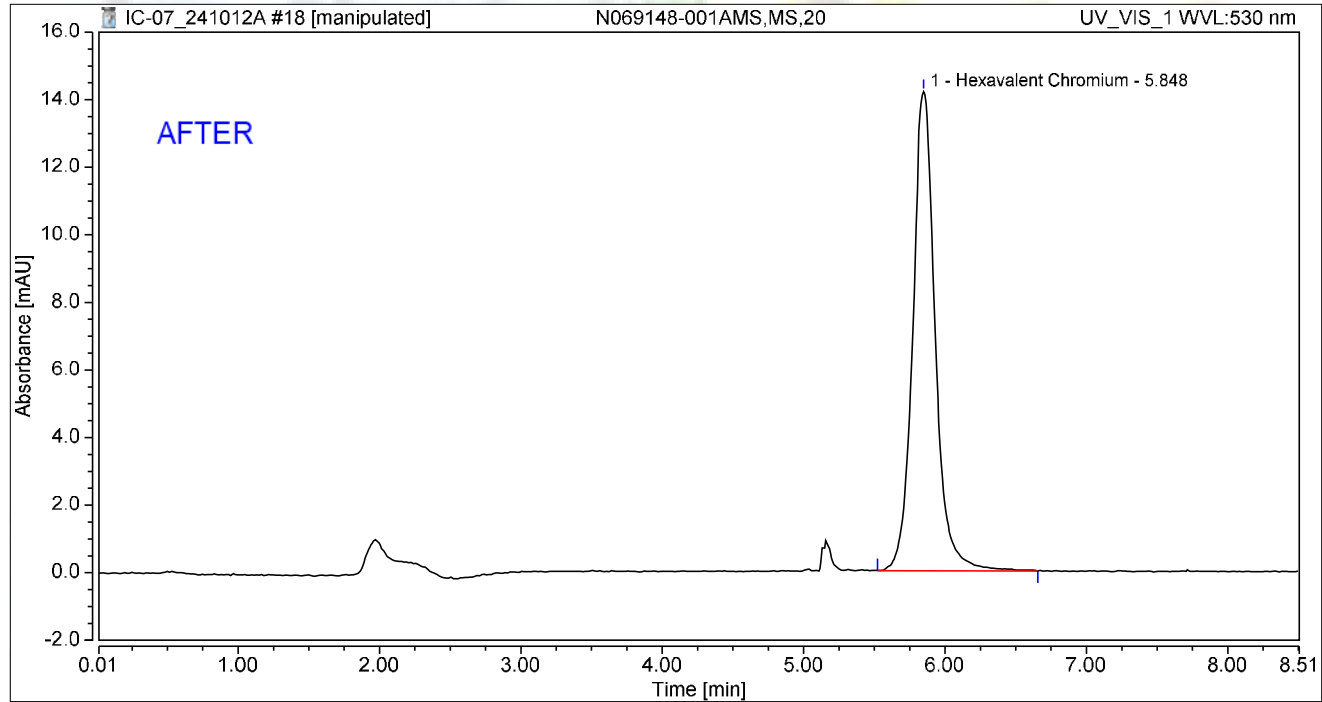
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.848	1.196	6.654	100.00	100.00	4.4053
Total:			1.196	6.654	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069148-001AMS,MS,20	Run Time (min): 8.49
Vial Number:	3	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Oct/24 07:58	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.848	2.592	14.182	100.00	100.00	9.5473
Total:			2.592	14.182	100.00	100.00	

Reviewed by:

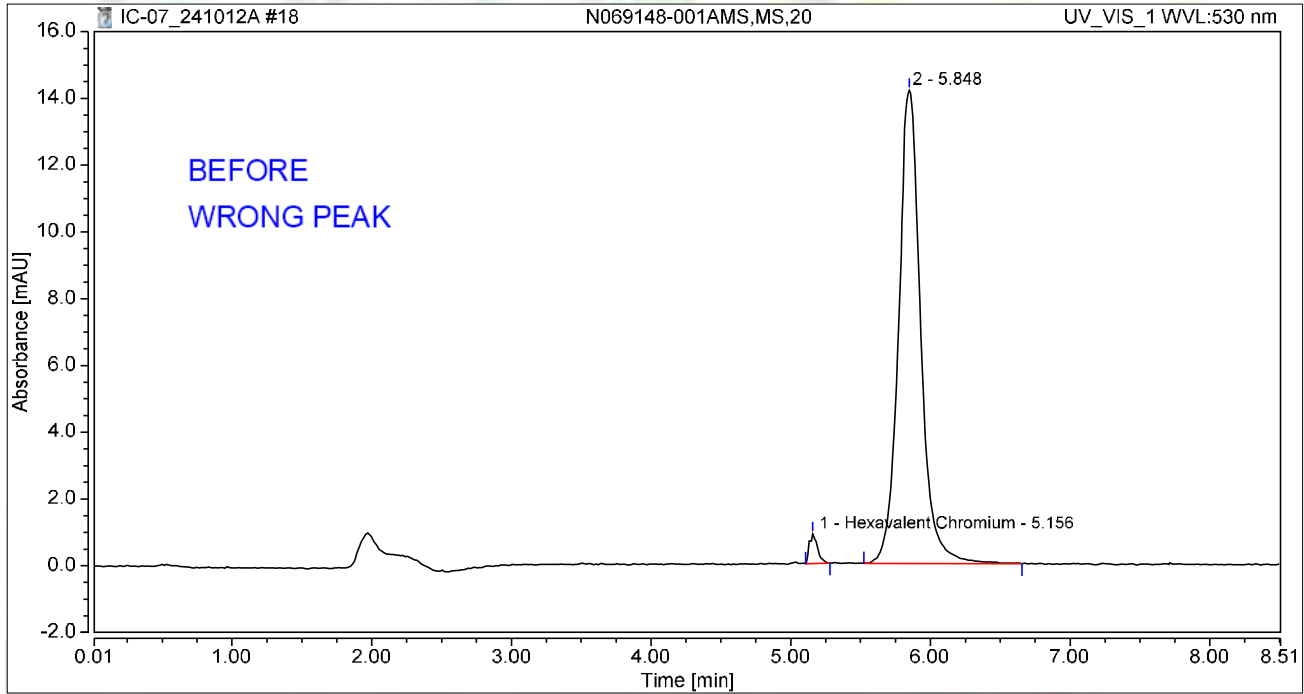
M. Rocha 10/24/2024

Chromatogram and Results

Injection Details

Injection Name:	N069148-001AMS,MS,20	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 07:58	Sample Weight:	1.0000

Chromatogram



Integration Results

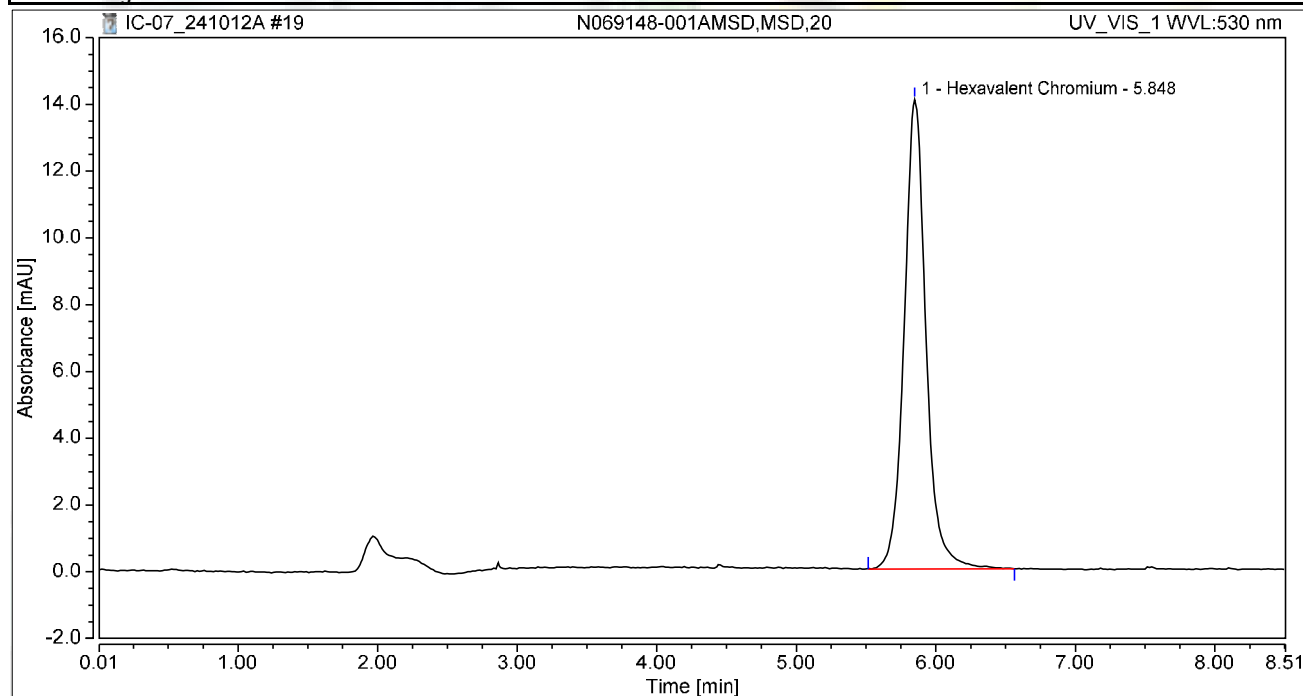
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.156	0.061	0.890	2.29	5.90	0.2233
2		5.848	2.592	14.182	97.71	94.10	n.a.
Total:			2.653	15.072	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069148-001AMSD,MSD,20	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 08:07	Sample Weight:	1.0000

Chromatogram



Integration Results

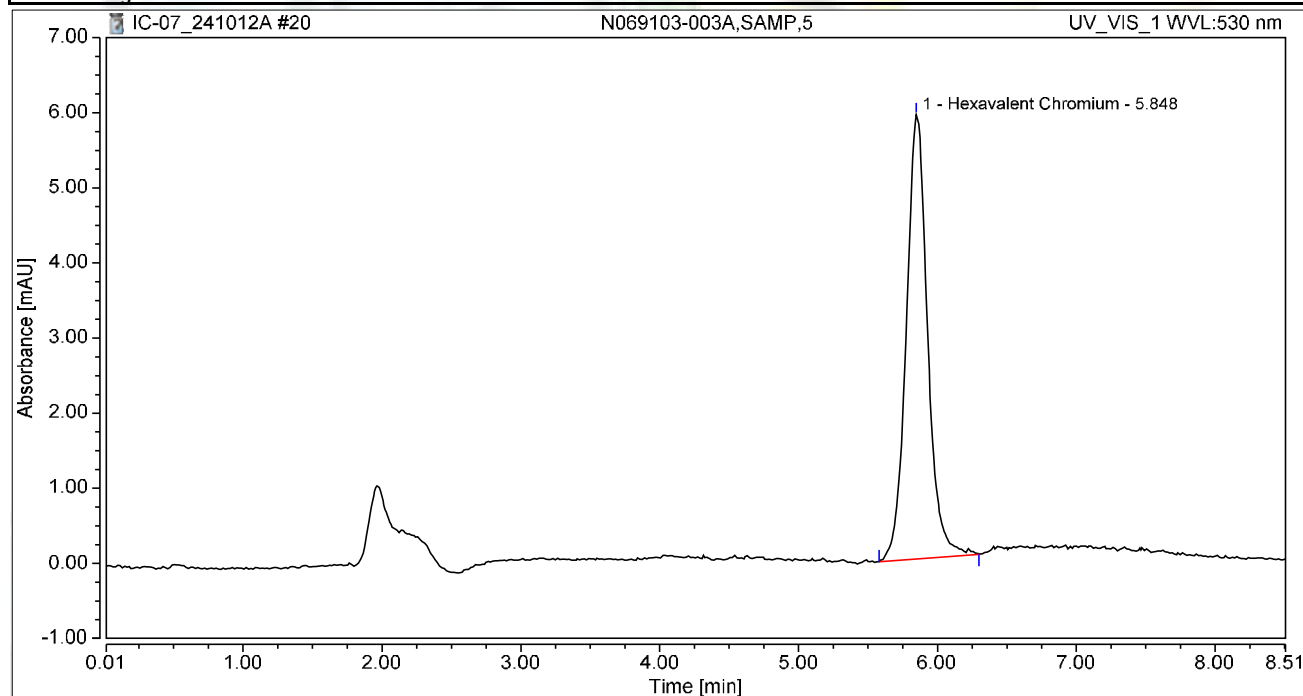
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.848	2.549	14.060	100.00	100.00	9.3896
Total:			2.549	14.060	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069103-003A,SAMP,5	Run Time (min):	8.49
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 08:16	Sample Weight:	1.0000

Chromatogram



Integration Results

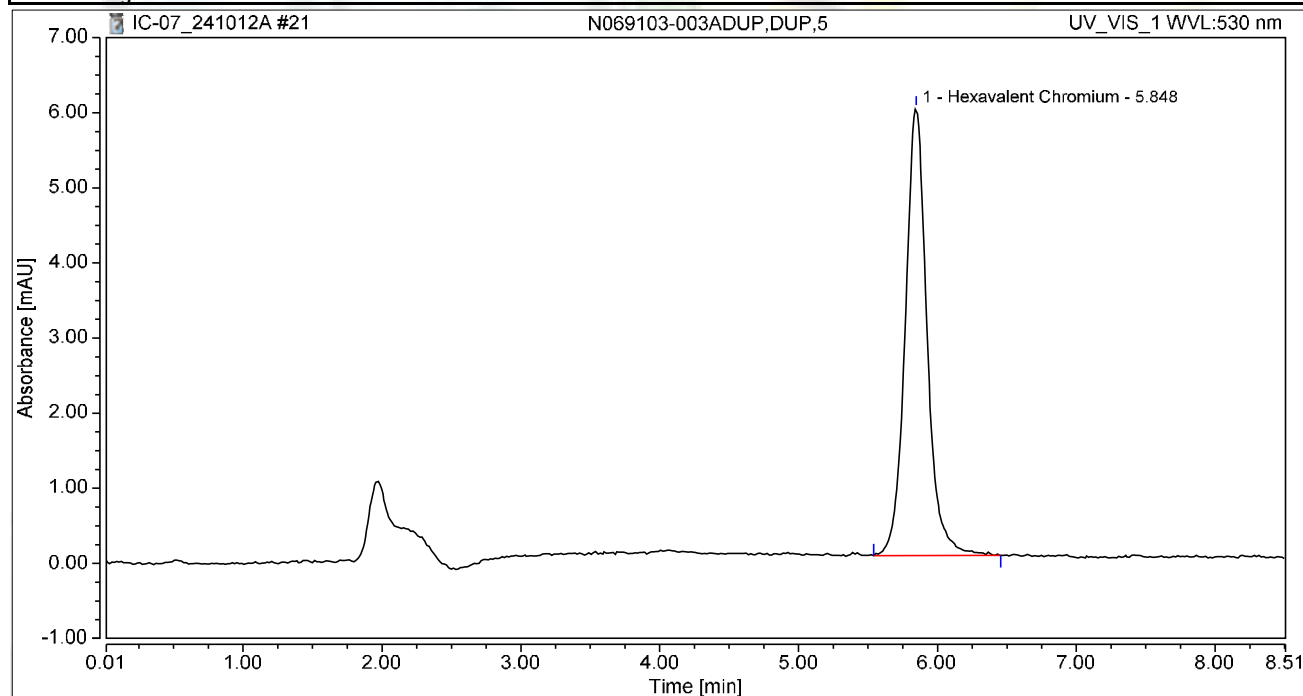
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.848	1.049	5.912	100.00	100.00	3.8646
Total:			1.049	5.912	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069103-003ADUP,DUP,5	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 08:37	Sample Weight:	1.0000

Chromatogram



Integration Results

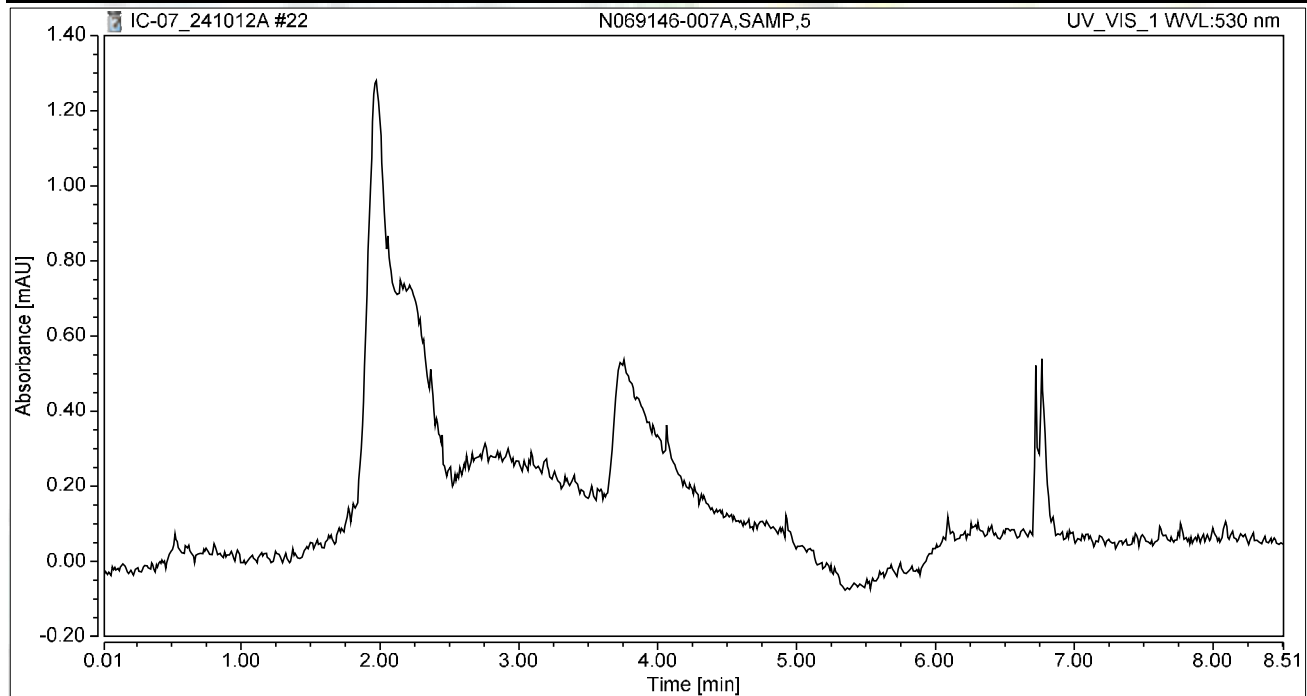
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.848	1.083	5.959	100.00	100.00	3.9906
Total:			1.083	5.959	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-007A,SAMP,5	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 08:49	Sample Weight:	1.0000

Chromatogram



Integration Results

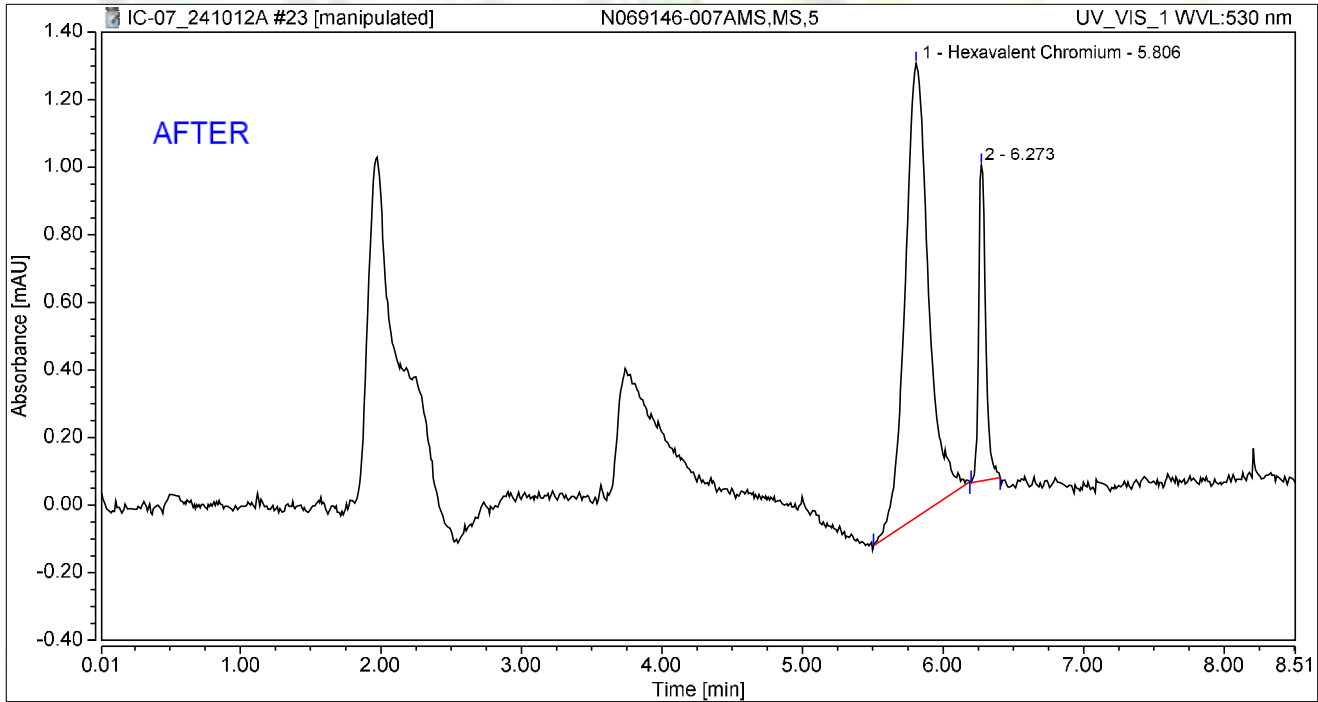
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-007AMS,MS,5	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 08:58	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.806	0.260	1.343	82.74	58.99	0.9593
2		6.273	0.054	0.934	17.26	41.01	n.a.
Total:			0.315	2.277	100.00	100.00	

Reviewed by:

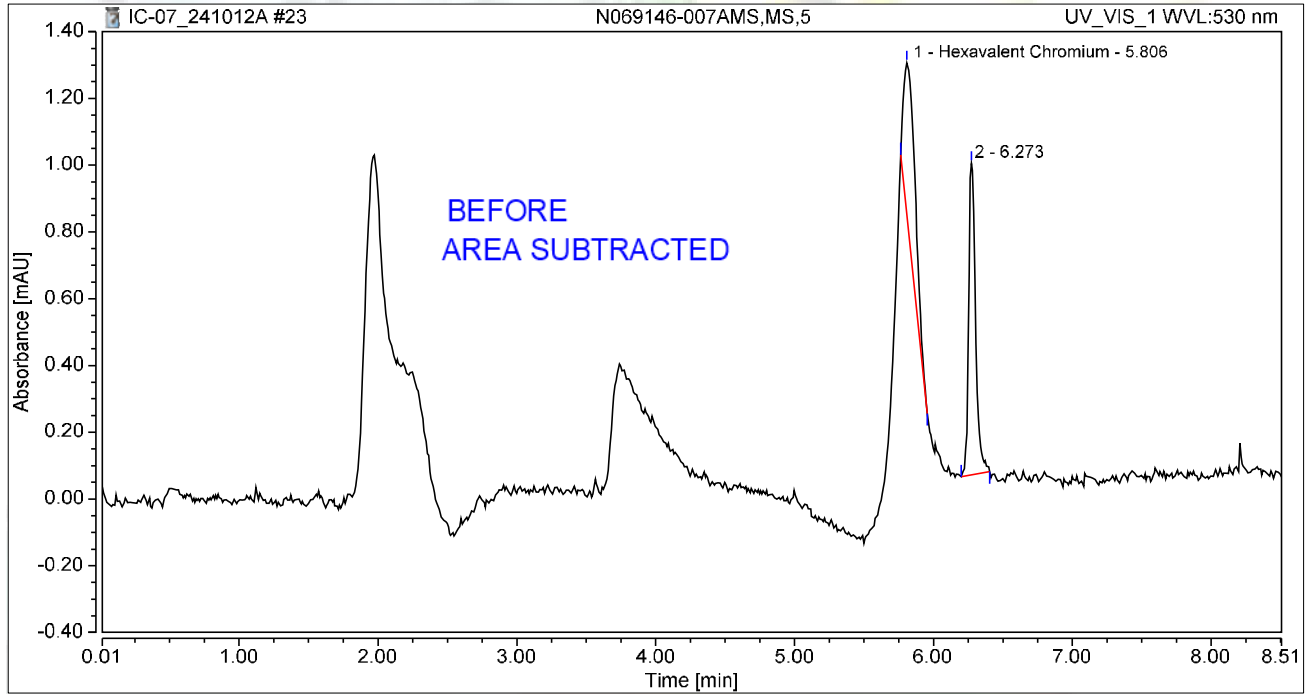
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Chromatogram and Results

Injection Details

Injection Name:	N069146-007AMS,MS,5	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 08:58	Sample Weight:	1.0000

Chromatogram



Integration Results

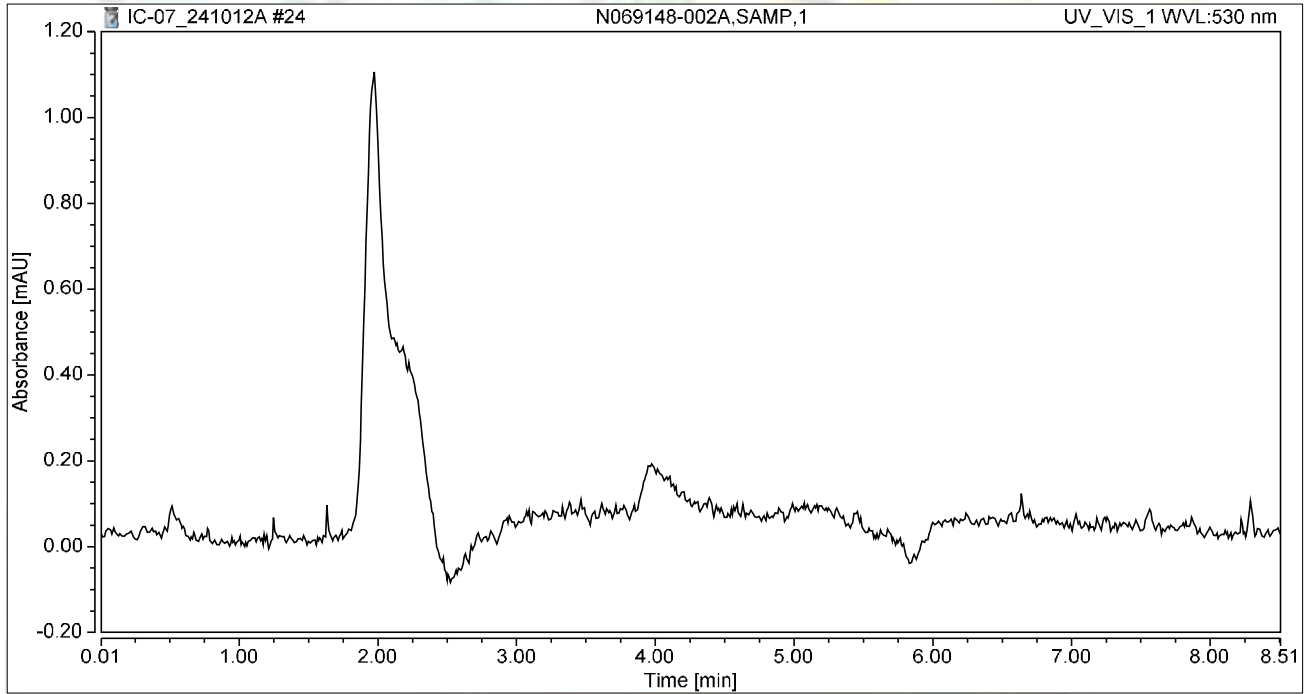
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.806	0.047	0.443	46.29	32.18	0.1725
2		6.273	0.054	0.934	53.71	67.82	n.a.
Total:			0.101	1.377	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069148-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 09:08	Sample Weight:	1.0000

Chromatogram



Integration Results

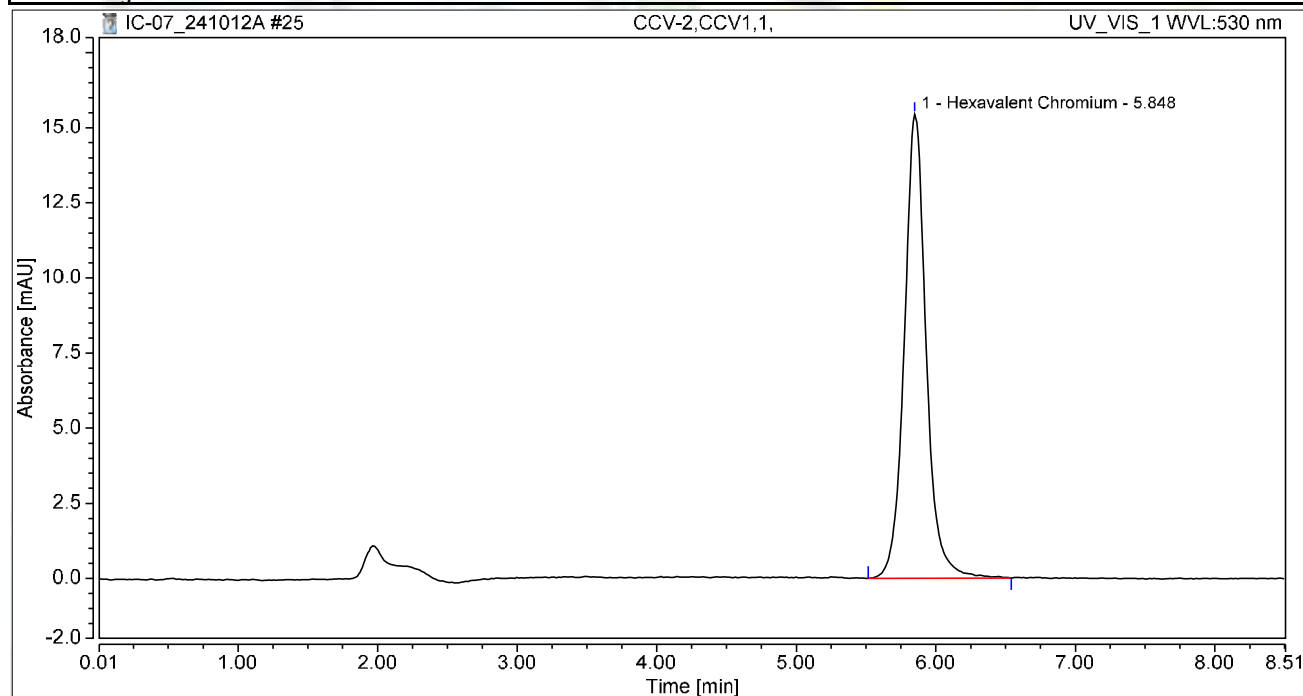
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-2,CCV1,1,	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 10:50	Sample Weight:	1.0000

Chromatogram



Integration Results

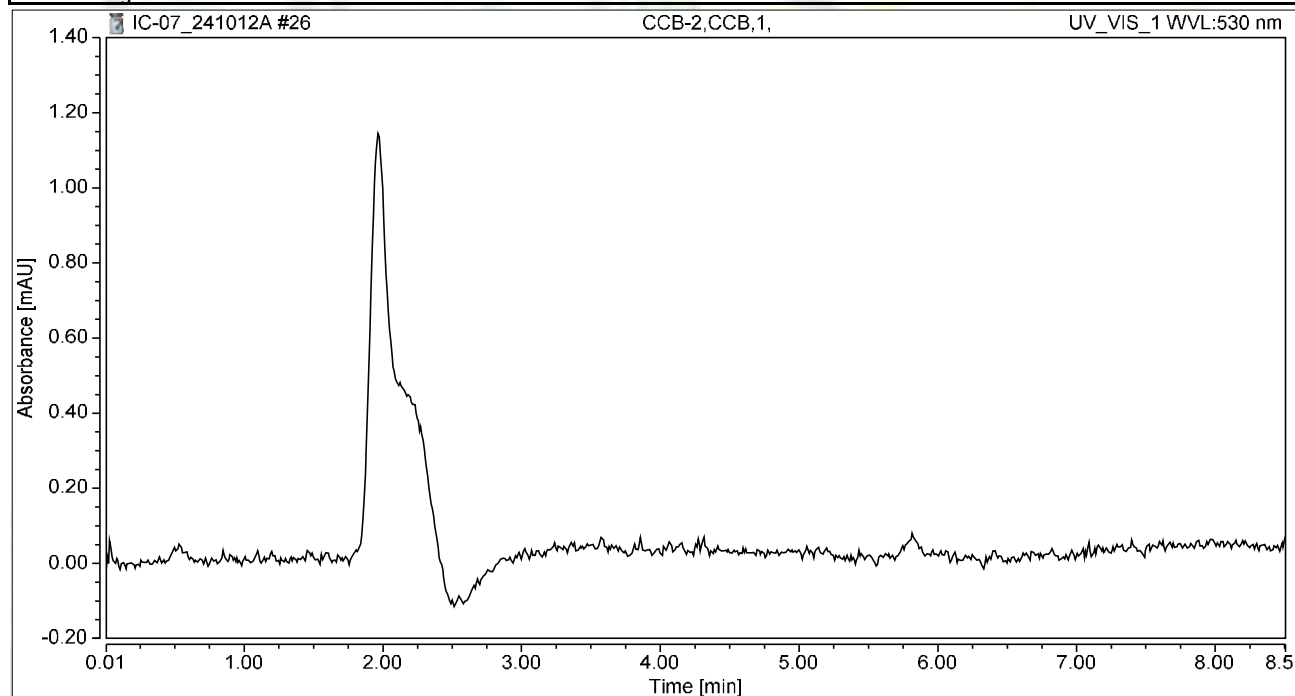
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.848	2.805	15.440	100.00	100.00	10.3311
Total:			2.805	15.440	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-2,CCB,1,	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 11:01	Sample Weight:	1.0000

Chromatogram



Integration Results

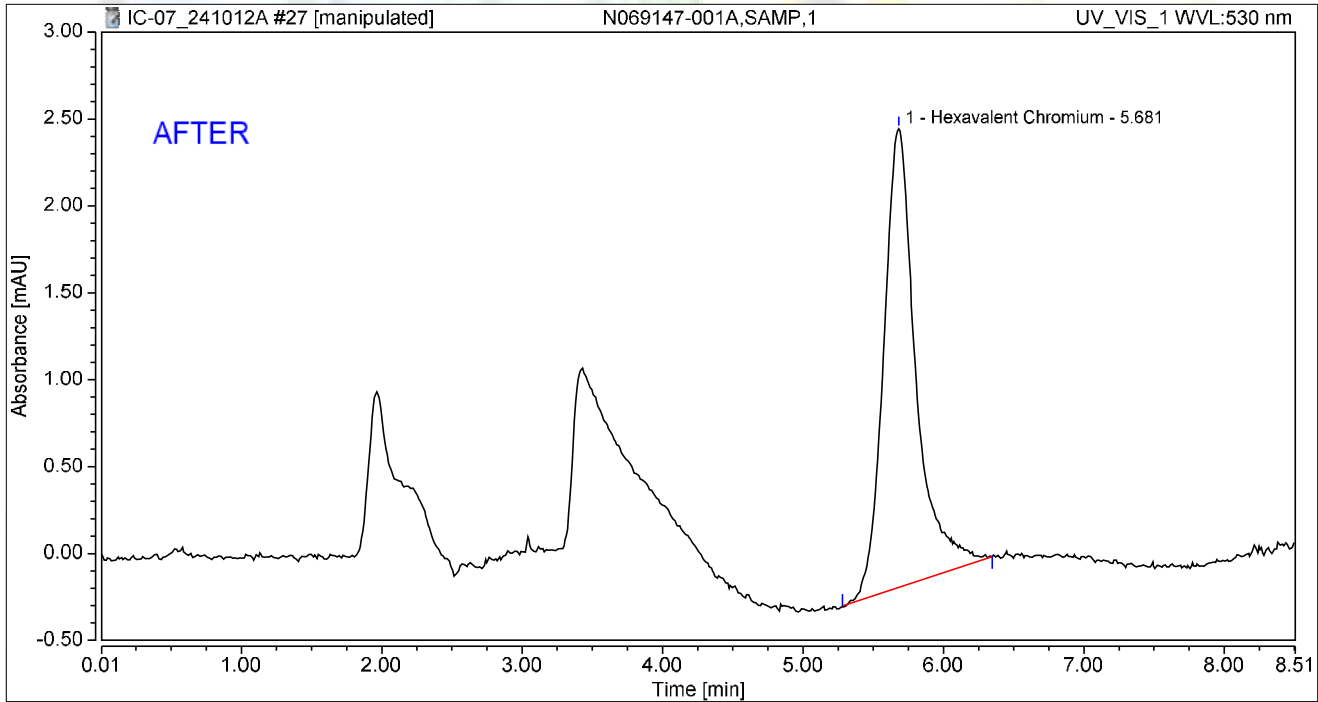
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 11:10	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.702	2.641	100.00	100.00	2.5848
Total:			0.702	2.641	100.00	100.00	

Reviewed by:

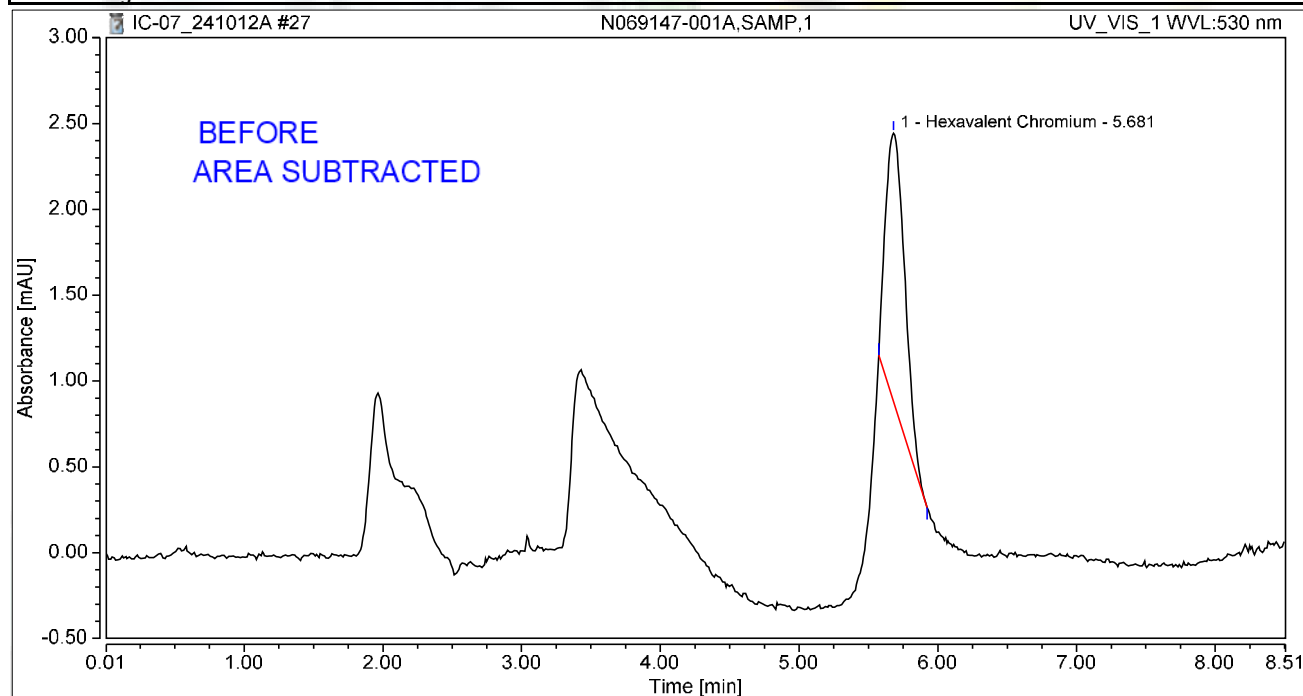
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Chromatogram and Results

Injection Details

Injection Name:	N069147-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 11:10	Sample Weight:	1.0000

Chromatogram



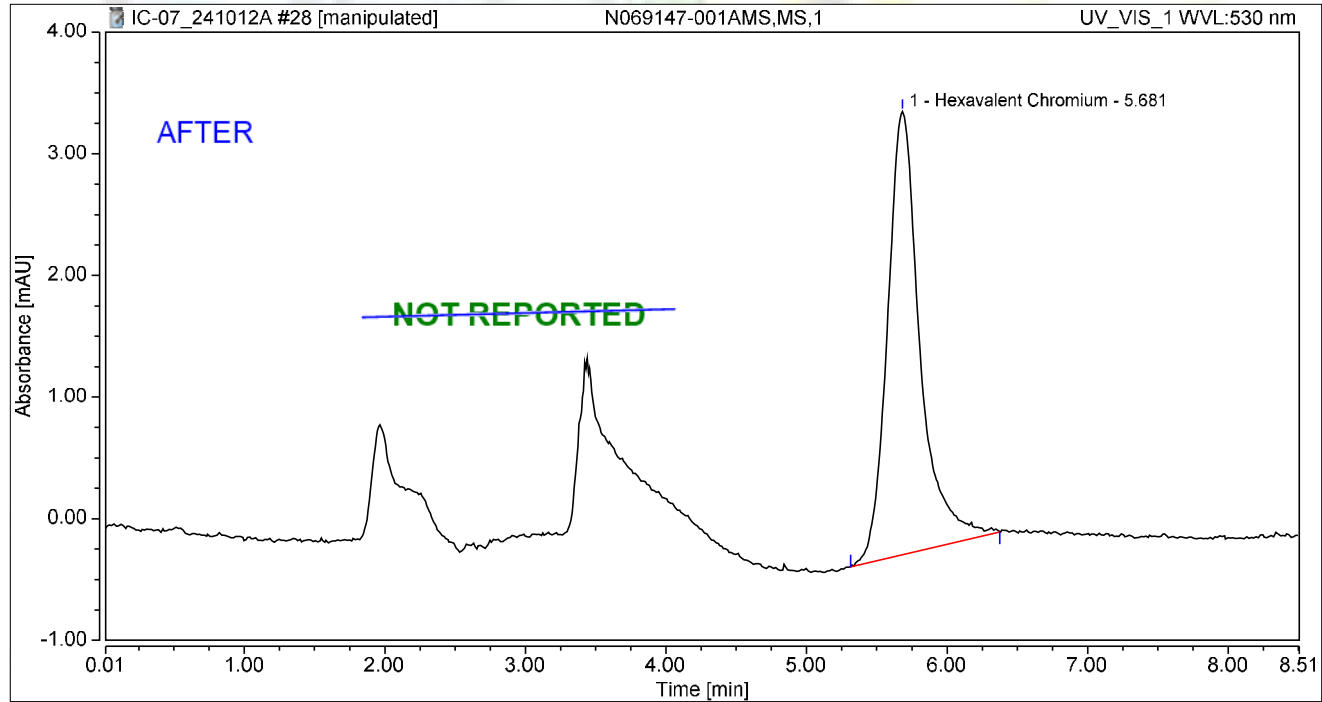
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.253	1.568	100.00	100.00	0.9318
Total:			0.253	1.568	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069147-001AMS,MS,1	Run Time (min): 8.49
Vial Number:	4	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Oct/24 11:20	Sample Weight: 1.0000

Chromatogram



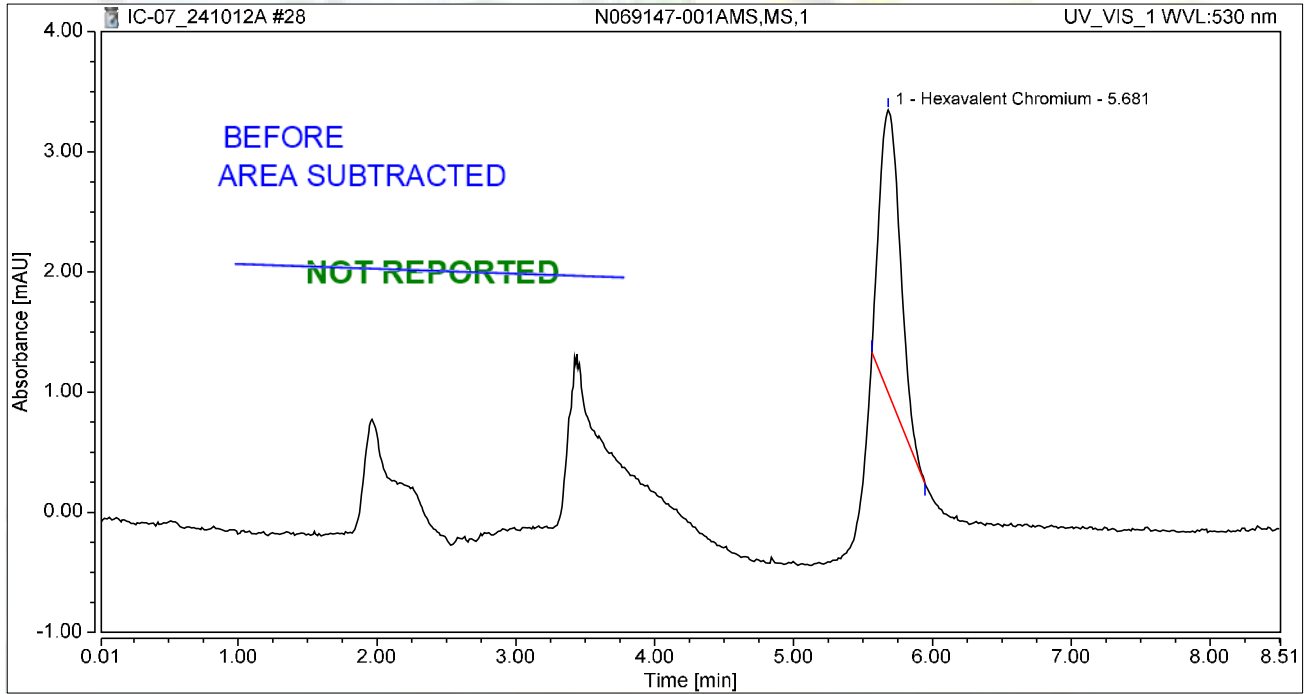
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.980	3.644	100.00	100.00	3.6113
Total:			0.980	3.644	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-001AMS,MS,1	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 11:20	Sample Weight:	1.0000

Chromatogram



Integration Results

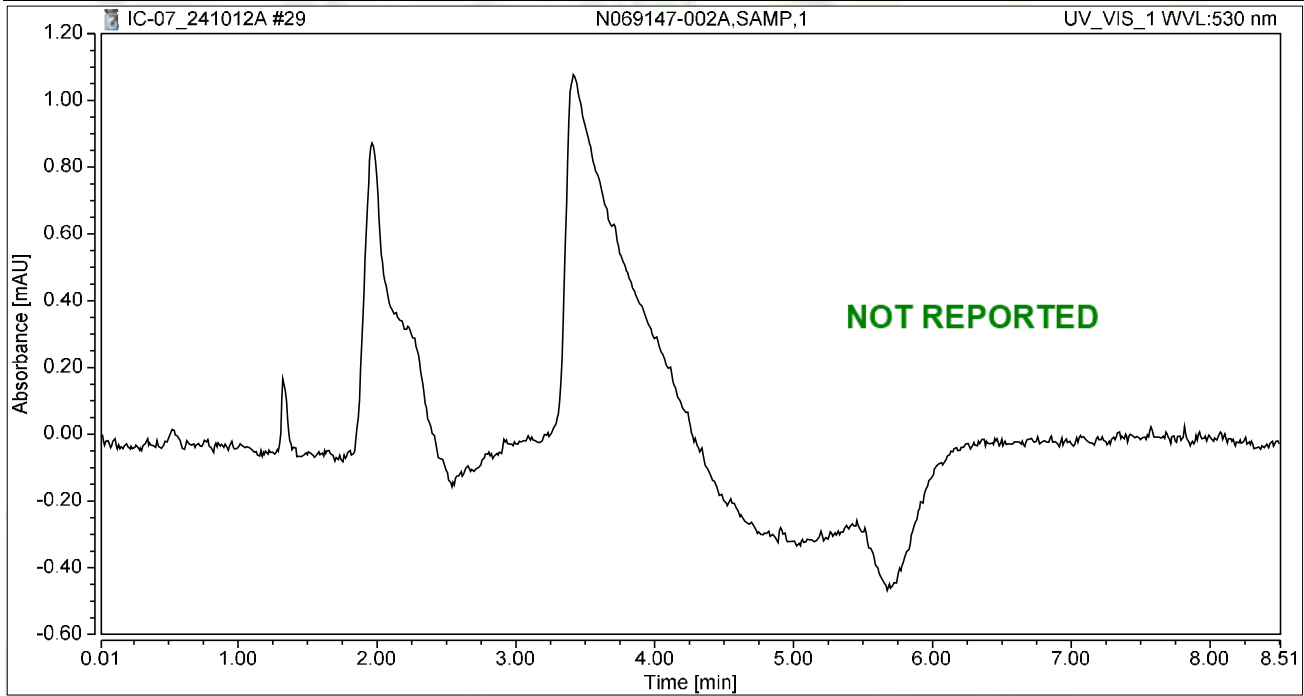
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.409	2.347	100.00	100.00	1.5054
Total:			0.409	2.347	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-002A,SAMP,1	Run Time (min):	8.49
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 11:29	Sample Weight:	1.0000

Chromatogram



Integration Results

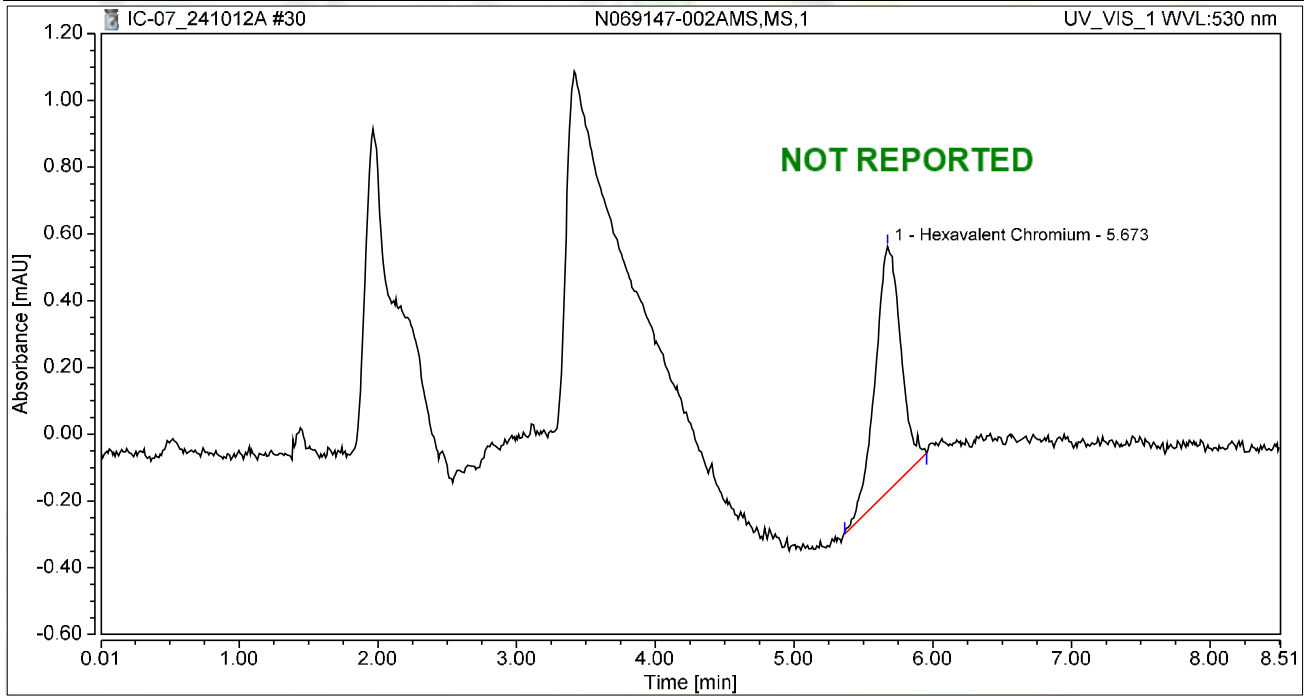
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 11:39	Sample Weight:	1.0000

Chromatogram



Integration Results

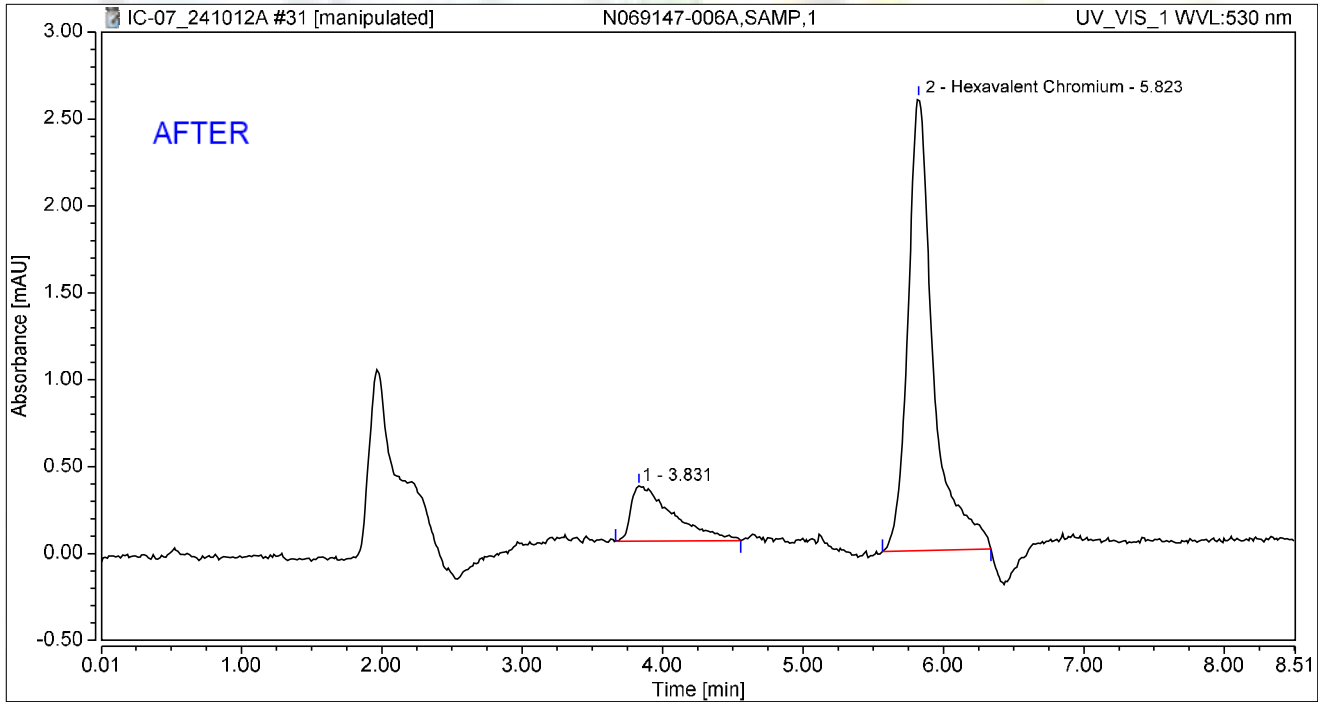
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.157	0.735	100.00	100.00	0.5785
Total:			0.157	0.735	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-006A,SAMP,1	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 11:48	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.831	0.111	0.318	16.92	10.88	n.a.
2	Hexavalent Chromium	5.823	0.546	2.604	83.08	89.12	2.0100
Total:			0.657	2.922	100.00	100.00	

Reviewed by:

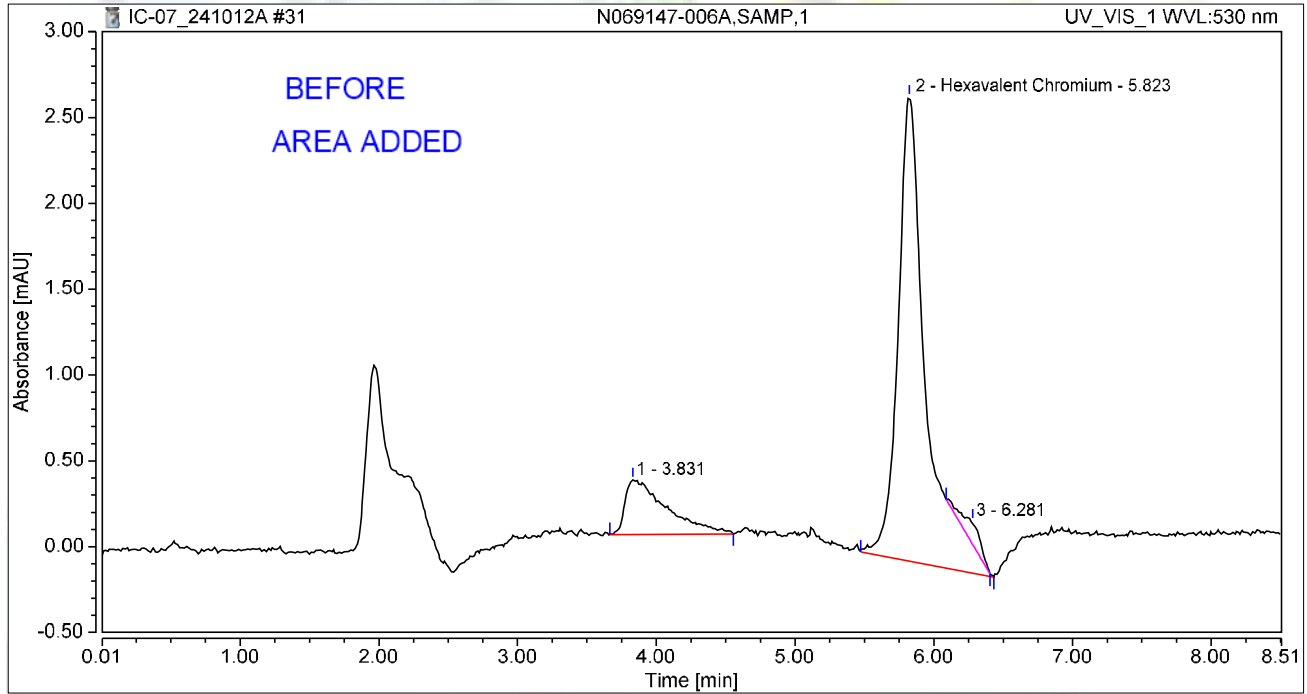
d/Rocha 10/24/2024

Chromatogram and Results

Injection Details

Injection Name:	N069147-006A,SAMP,1	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 11:48	Sample Weight:	1.0000

Chromatogram



Integration Results

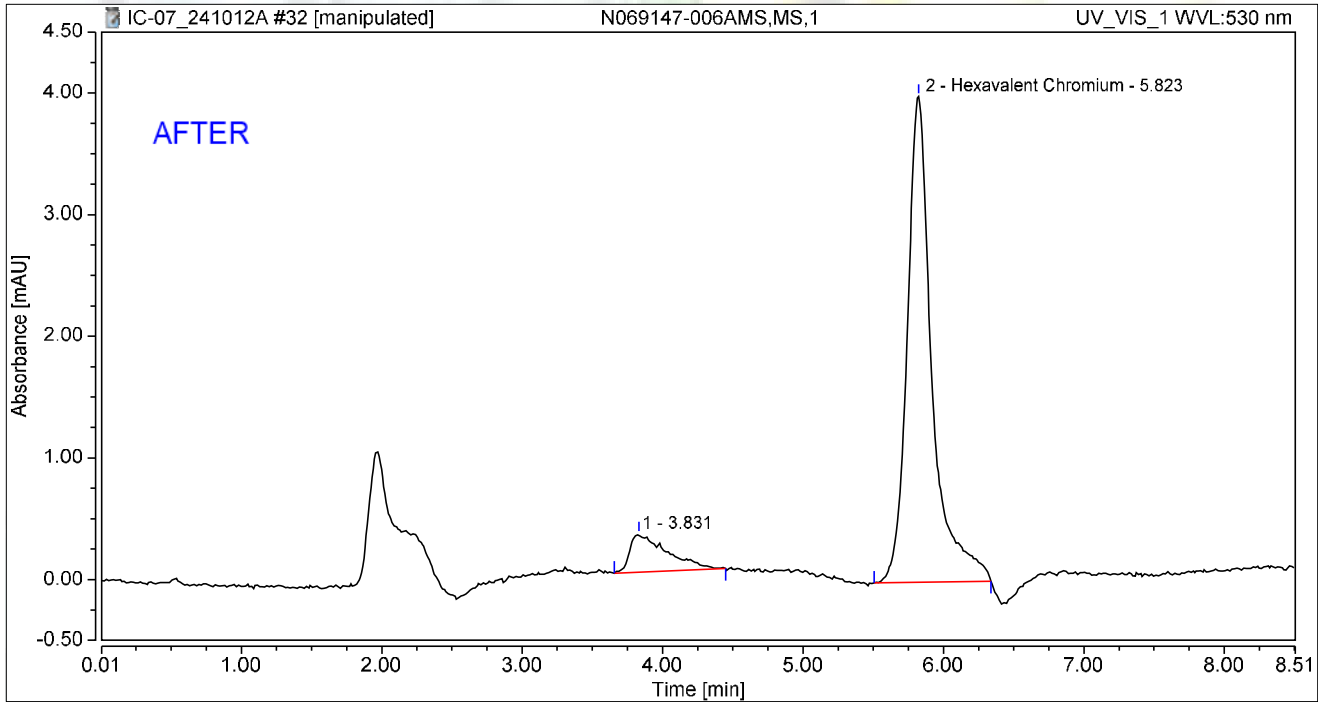
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.831	0.111	0.318	14.58	10.05	n.a.
2	Hexavalent Chromium	5.823	0.629	2.705	82.60	85.60	2.3187
3		6.281	0.021	0.137	2.82	4.34	n.a.
Total:			0.762	3.161	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-006AMS,MS,1	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 11:58	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.831	0.095	0.314	10.49	7.29	n.a.
2	Hexavalent Chromium	5.823	0.814	3.995	89.51	92.71	2.9993
Total:			0.910	4.309	100.00	100.00	

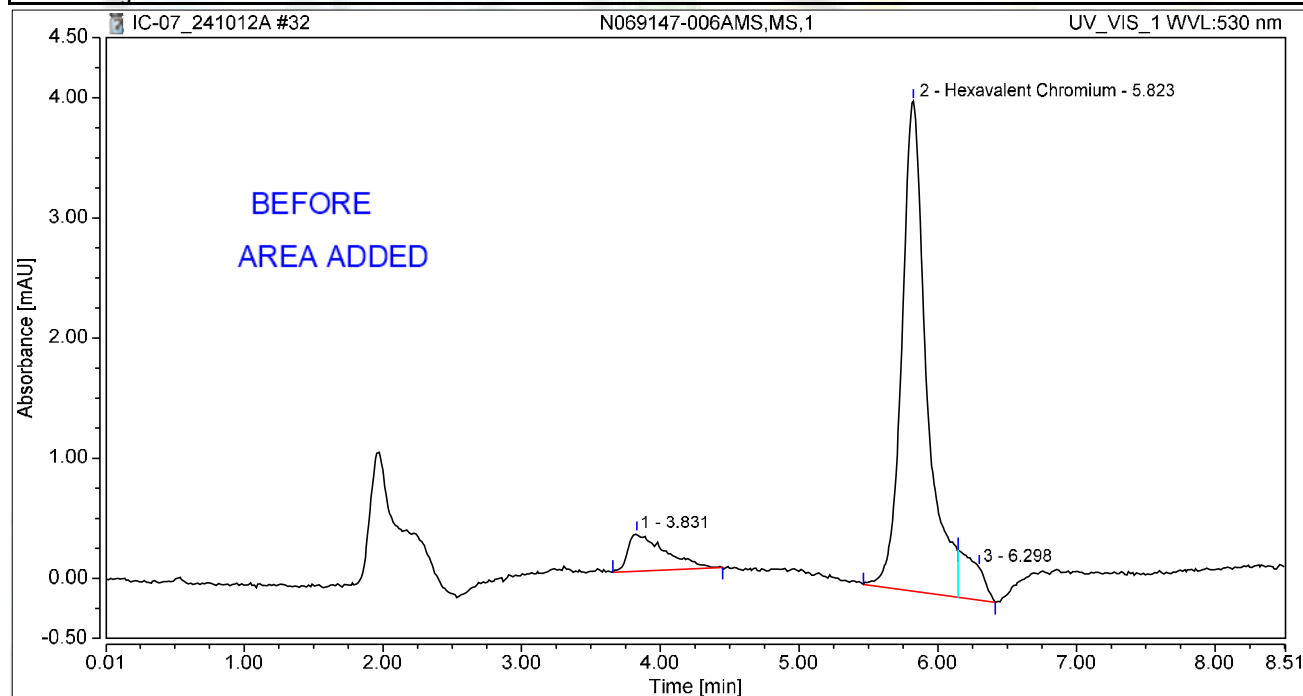
Reviewed by:

d/Rocha 10/24/2024

Chromatogram and Results

Injection Details		
Injection Name:	N069147-006AMS,MS,1	Run Time (min): 8.50
Vial Number:	8	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Oct/24 11:58	Sample Weight: 1.0000

Chromatogram



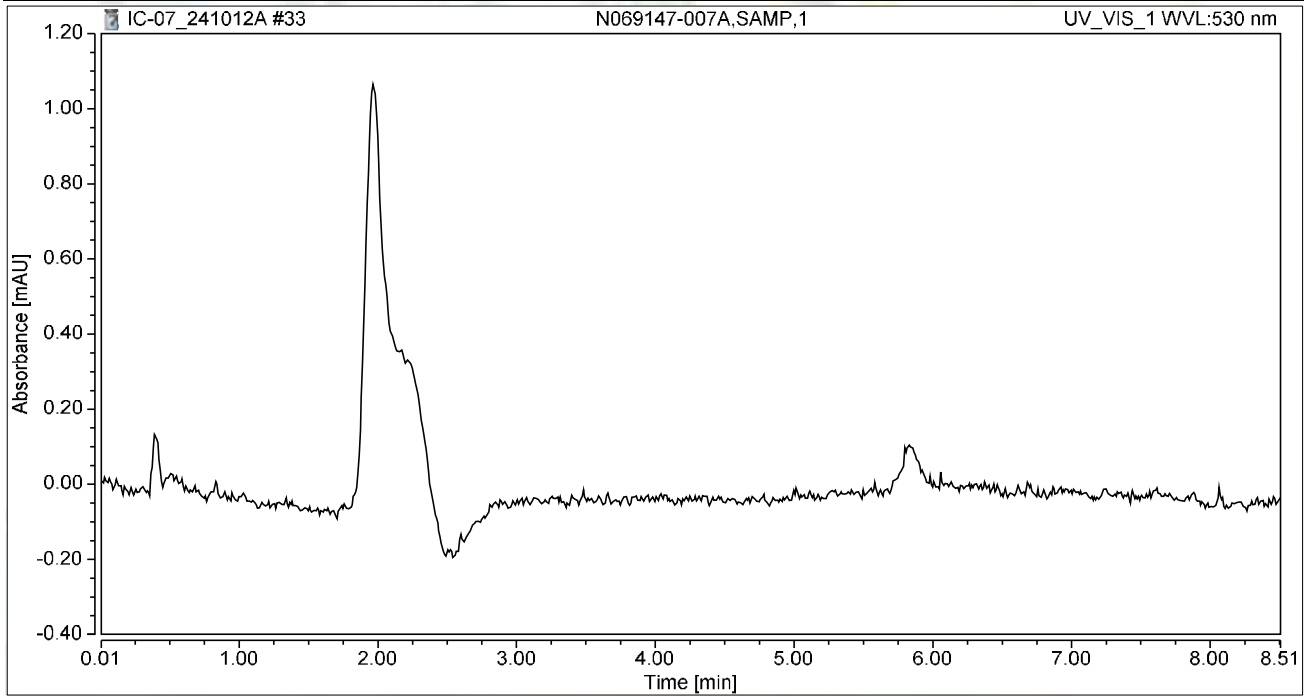
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.831	0.095	0.314	9.55	6.73	n.a.
2	Hexavalent Chromium	5.823	0.838	4.078	83.83	87.35	3.0881
3		6.298	0.066	0.276	6.62	5.92	n.a.
Total:			1.000	4.668	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-007A,SAMP,1	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 12:07	Sample Weight:	1.0000

Chromatogram



Integration Results

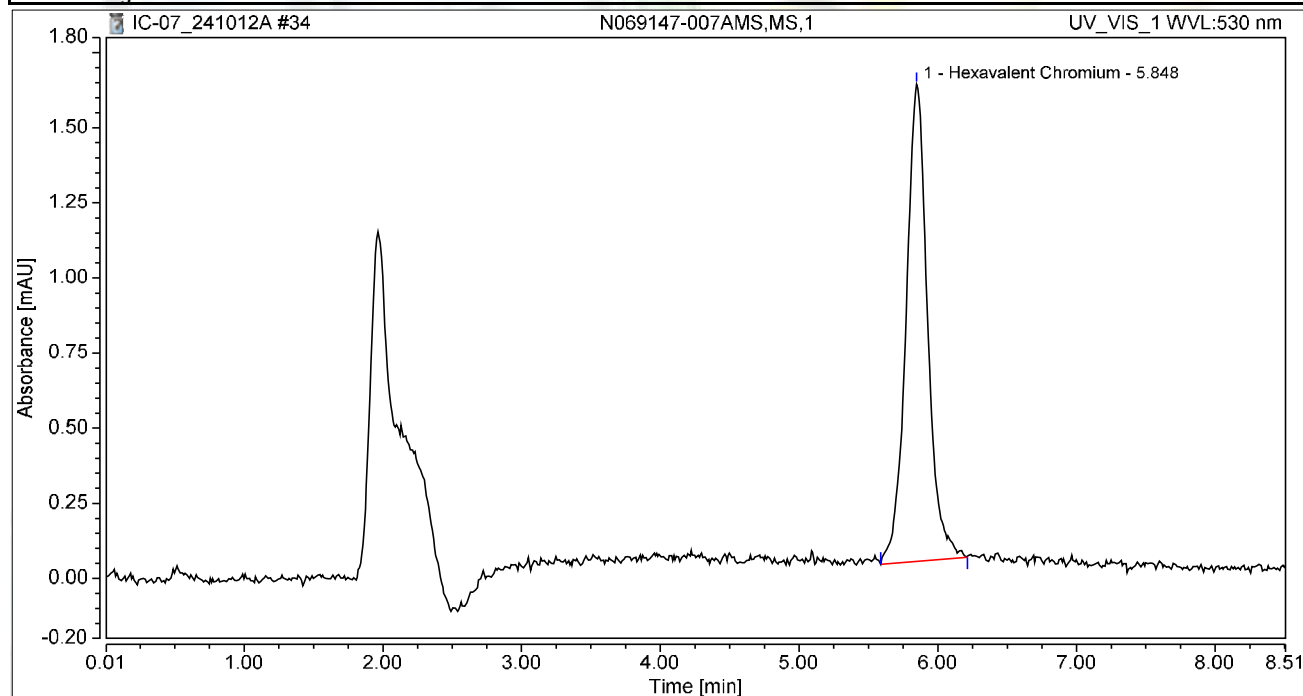
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-007AMS,MS,1	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 12:17	Sample Weight:	1.0000

Chromatogram



Integration Results

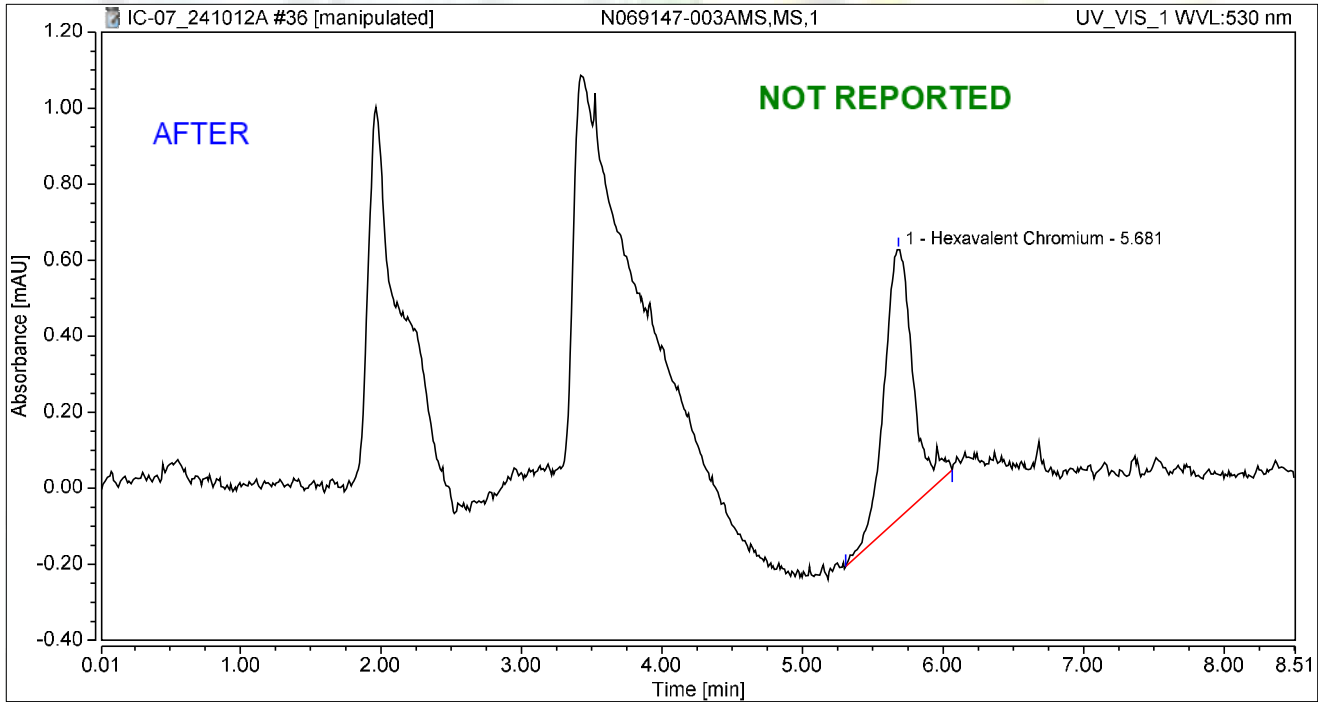
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.848	0.285	1.588	100.00	100.00	1.0508
Total:			0.285	1.588	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-003AMS,MS,1	Run Time (min):	8.49
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 12:36	Sample Weight:	1.0000

Chromatogram



Integration Results

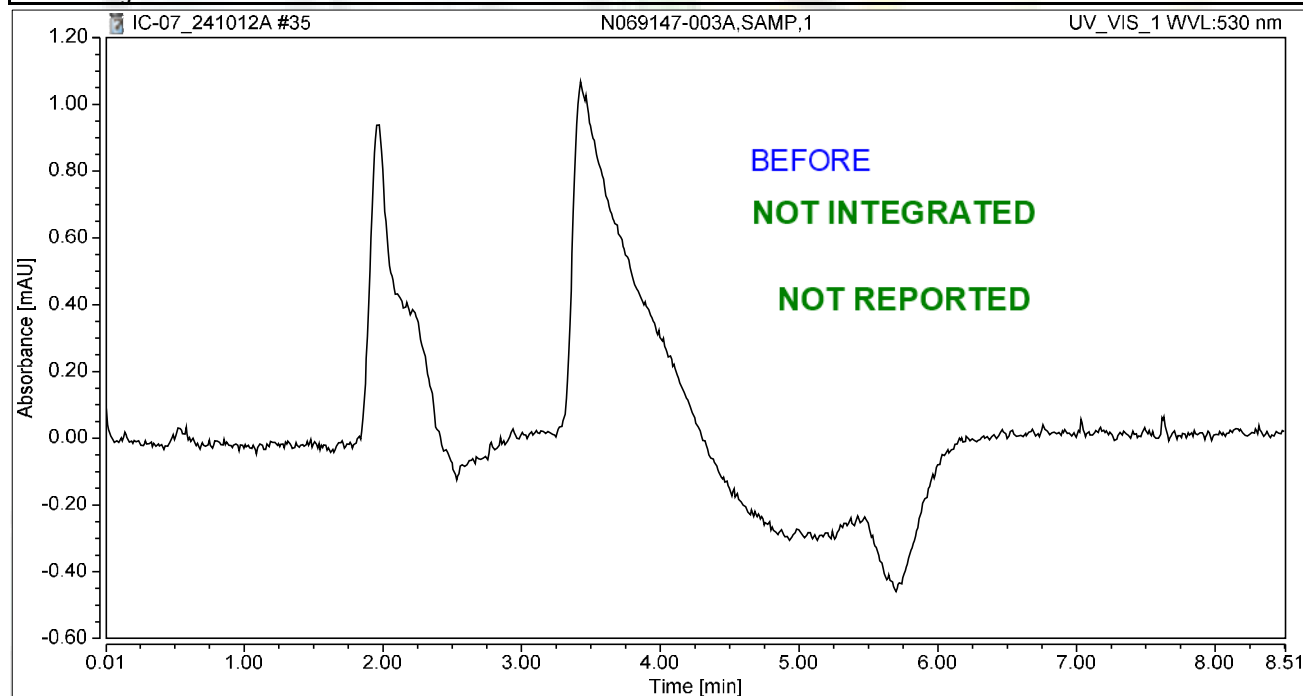
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.170	0.708	100.00	100.00	0.6269
Total:			0.170	0.708	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 12:26	Sample Weight:	1.0000

Chromatogram



Integration Results

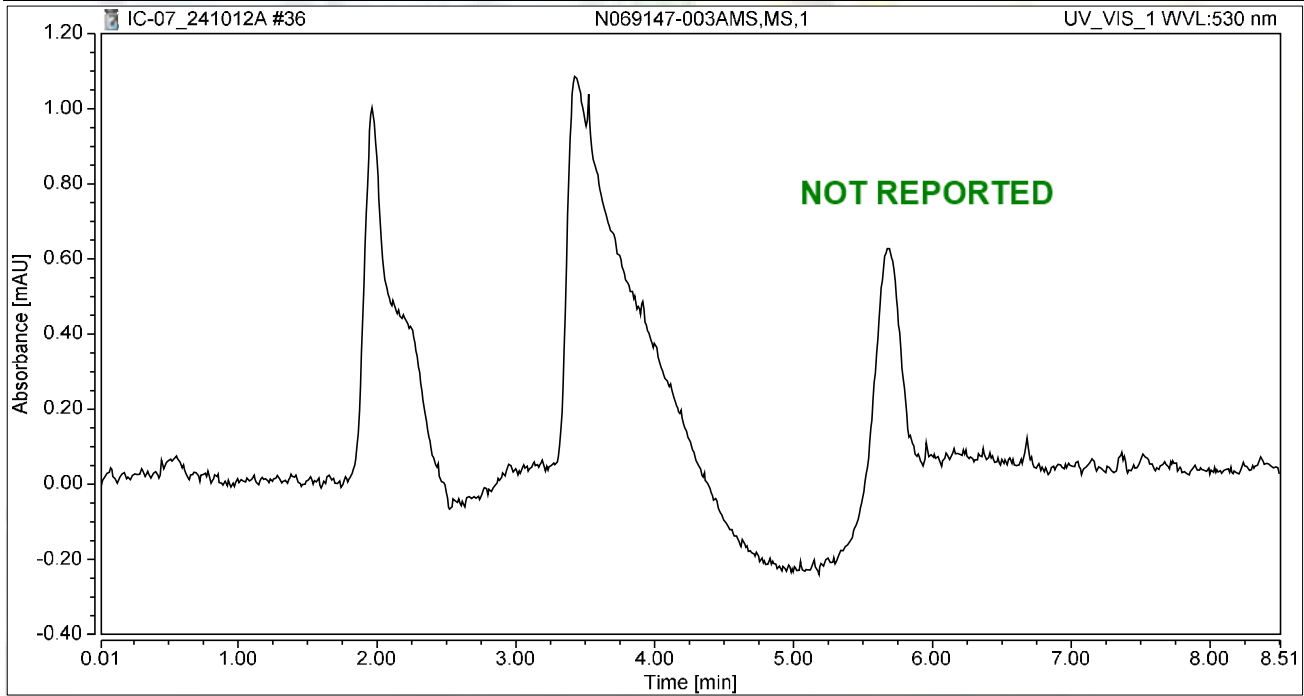
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-003AMS,MS,1	Run Time (min):	8.49
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 12:36	Sample Weight:	1.0000

Chromatogram



Integration Results

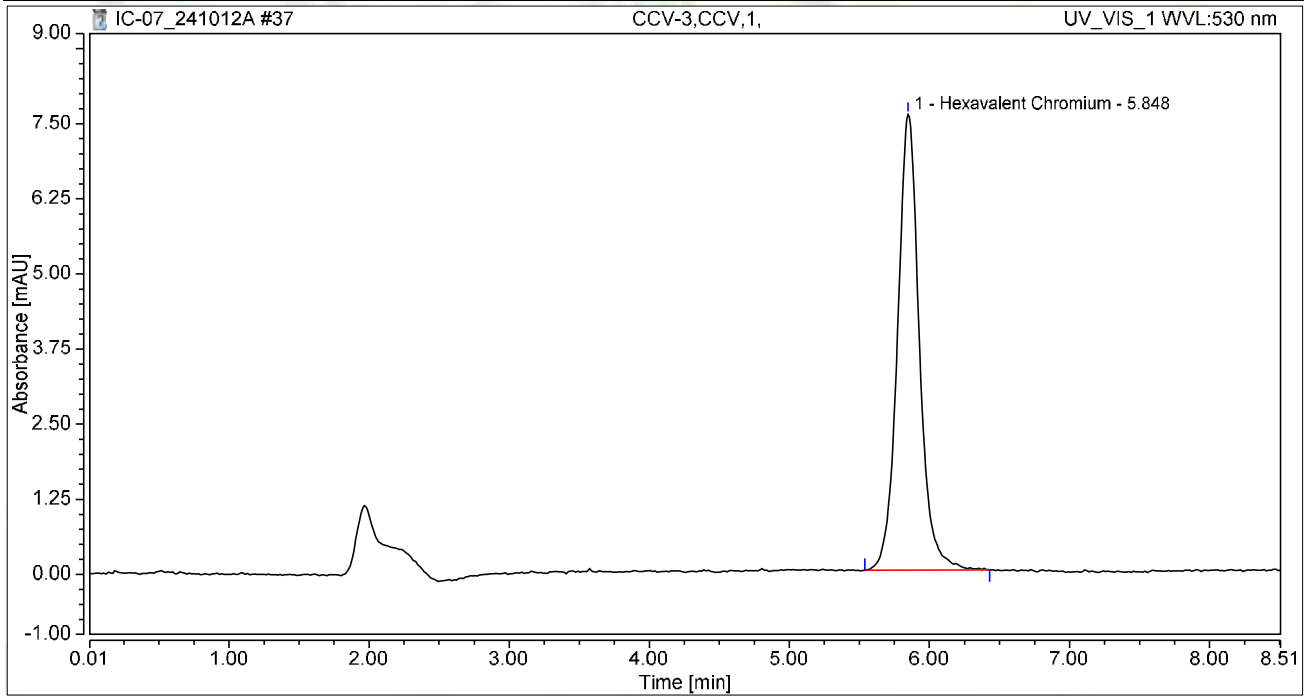
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-3,CCV,1,	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 12:45	Sample Weight:	1.0000

Chromatogram



Integration Results

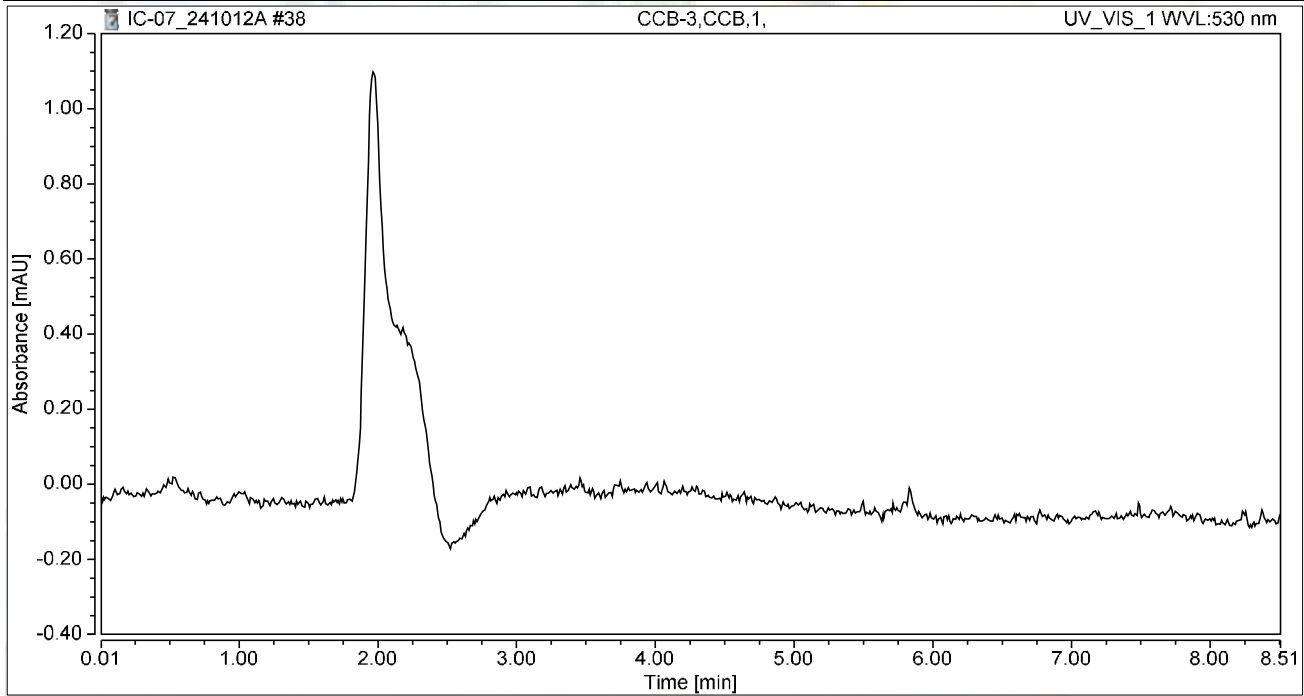
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.848	1.369	7.585	100.00	100.00	5.0444
Total:			1.369	7.585	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-3,CCB,1,	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 12:54	Sample Weight:	1.0000

Chromatogram



Integration Results

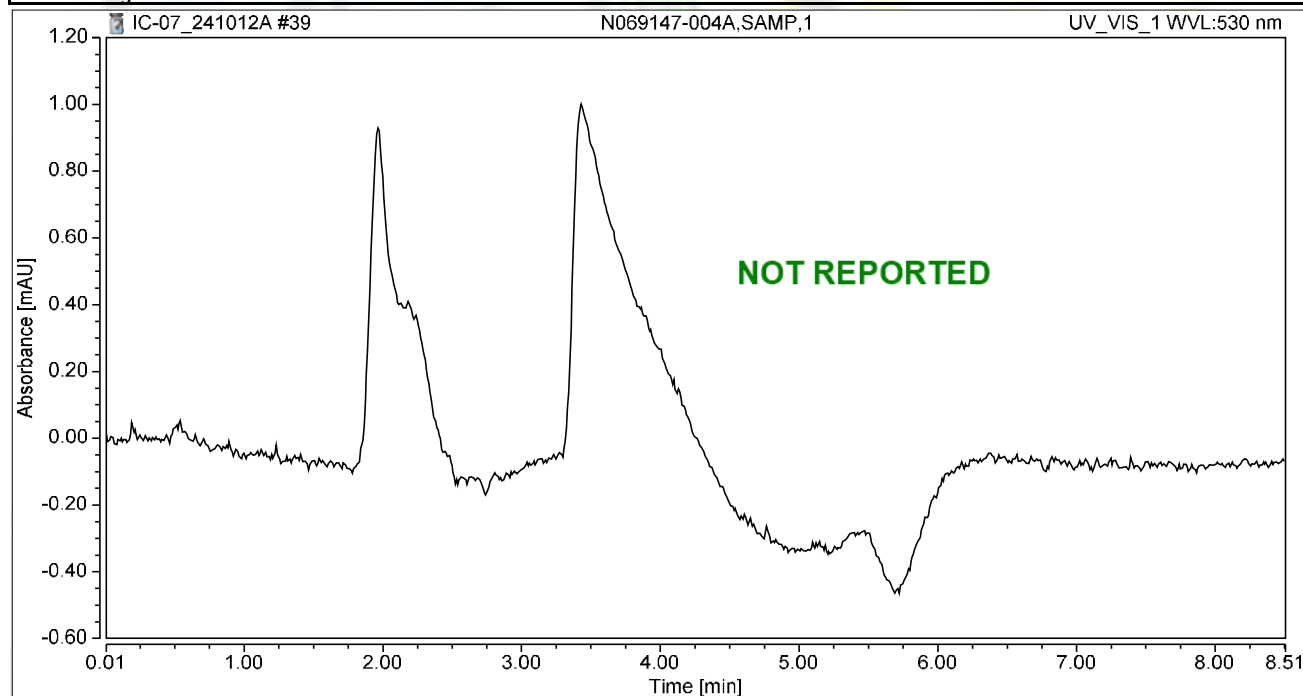
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-004A,SAMP,1	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 13:04	Sample Weight:	1.0000

Chromatogram



Integration Results

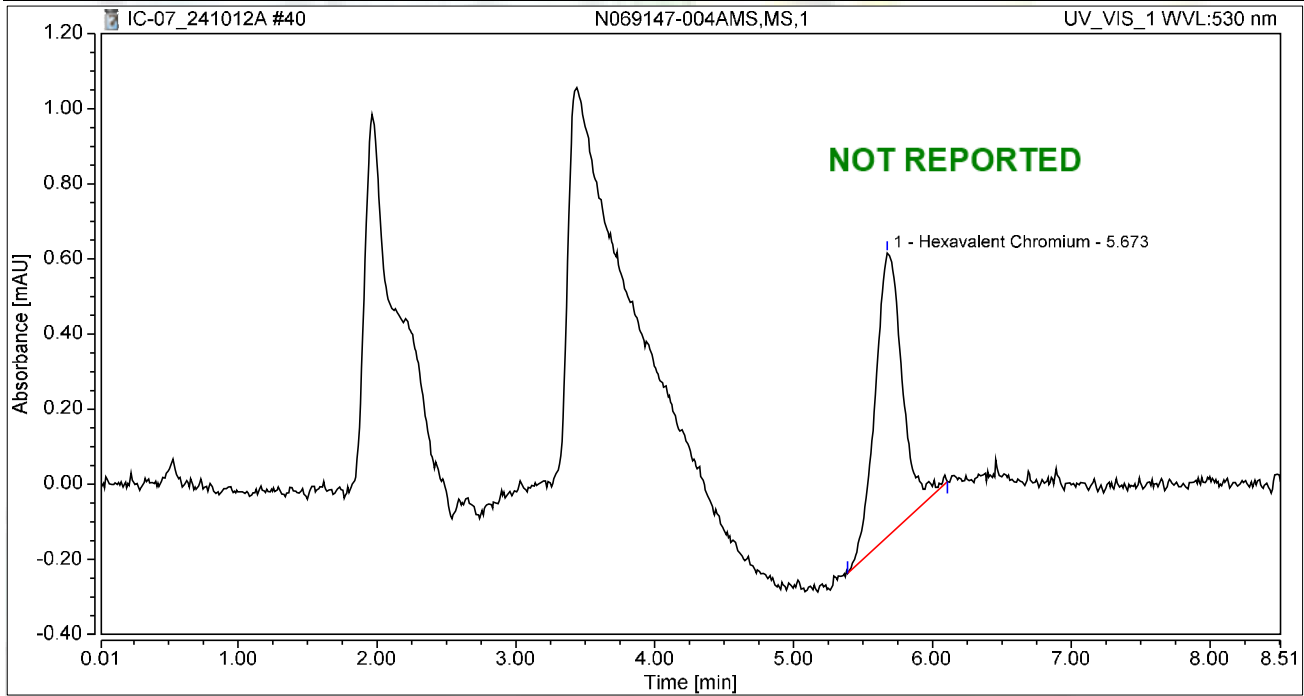
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-004AMS,MS,1	Run Time (min):	8.49
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 13:13	Sample Weight:	1.0000

Chromatogram



Integration Results

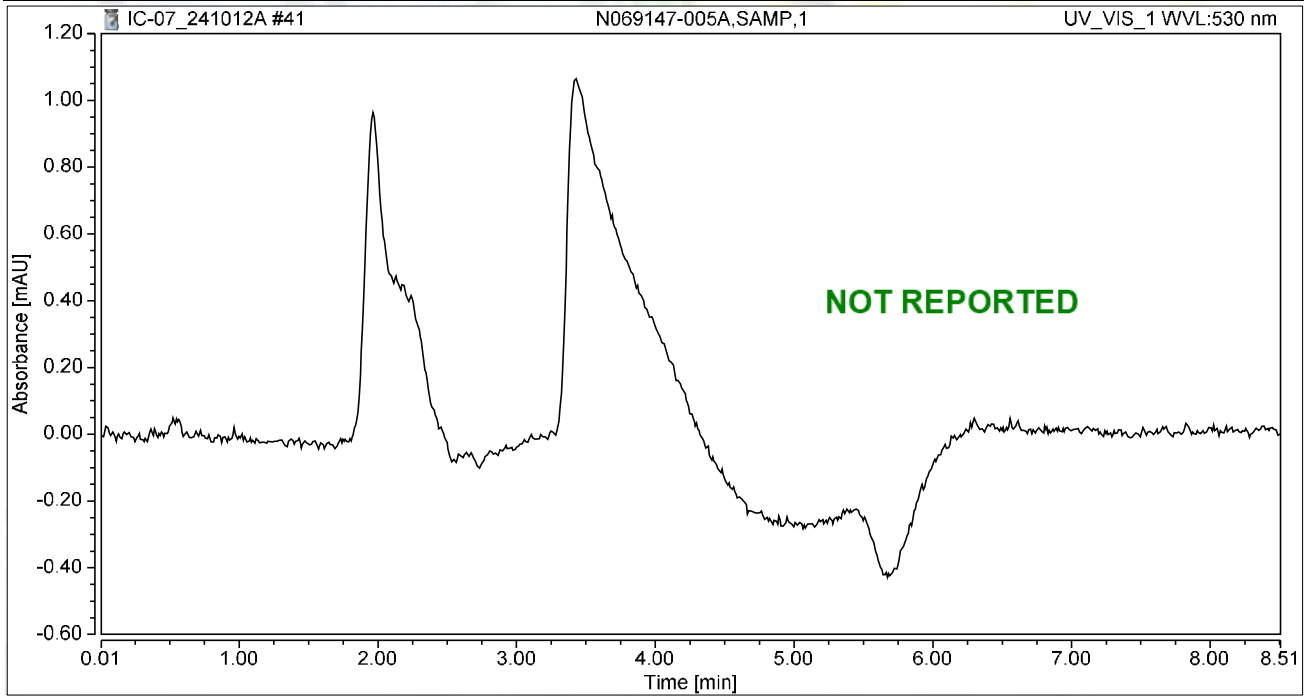
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.171	0.756	100.00	100.00	0.6300
Total:			0.171	0.756	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 13:23	Sample Weight:	1.0000

Chromatogram



Integration Results

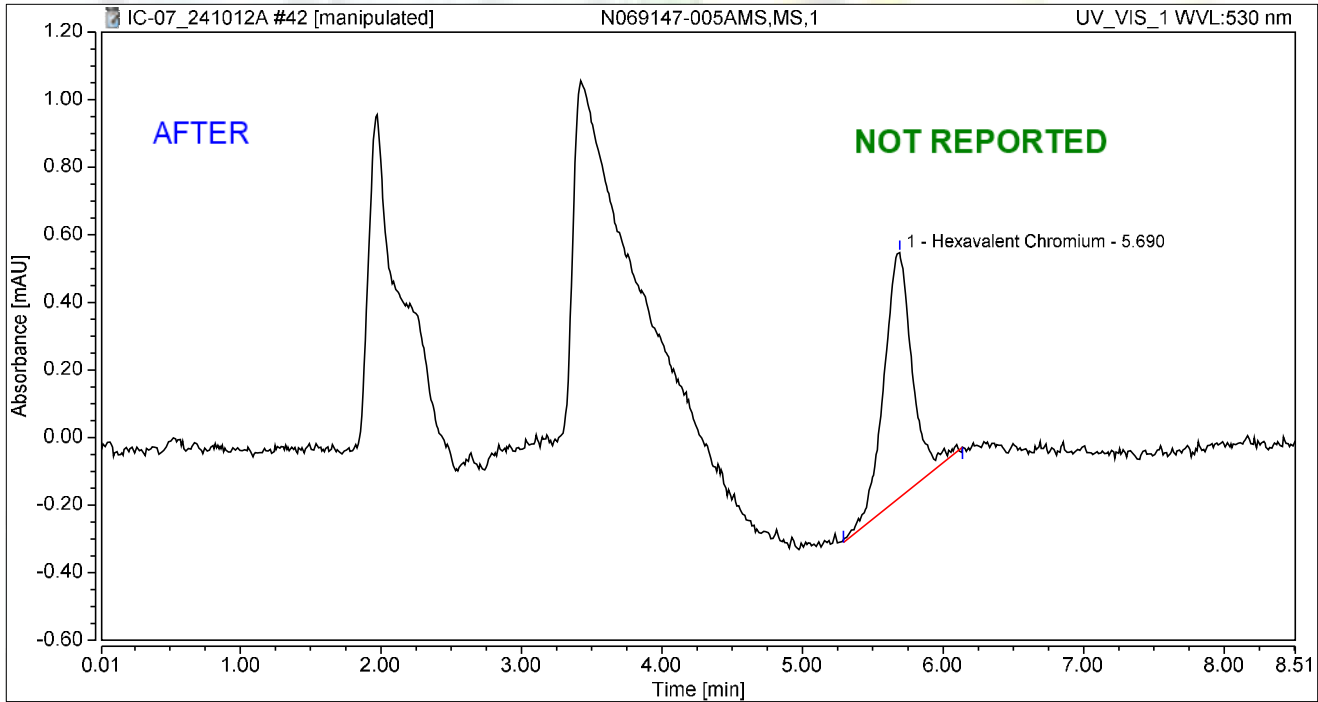
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-005AMS,MS,1	Run Time (min):	8.49
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 13:32	Sample Weight:	1.0000

Chromatogram



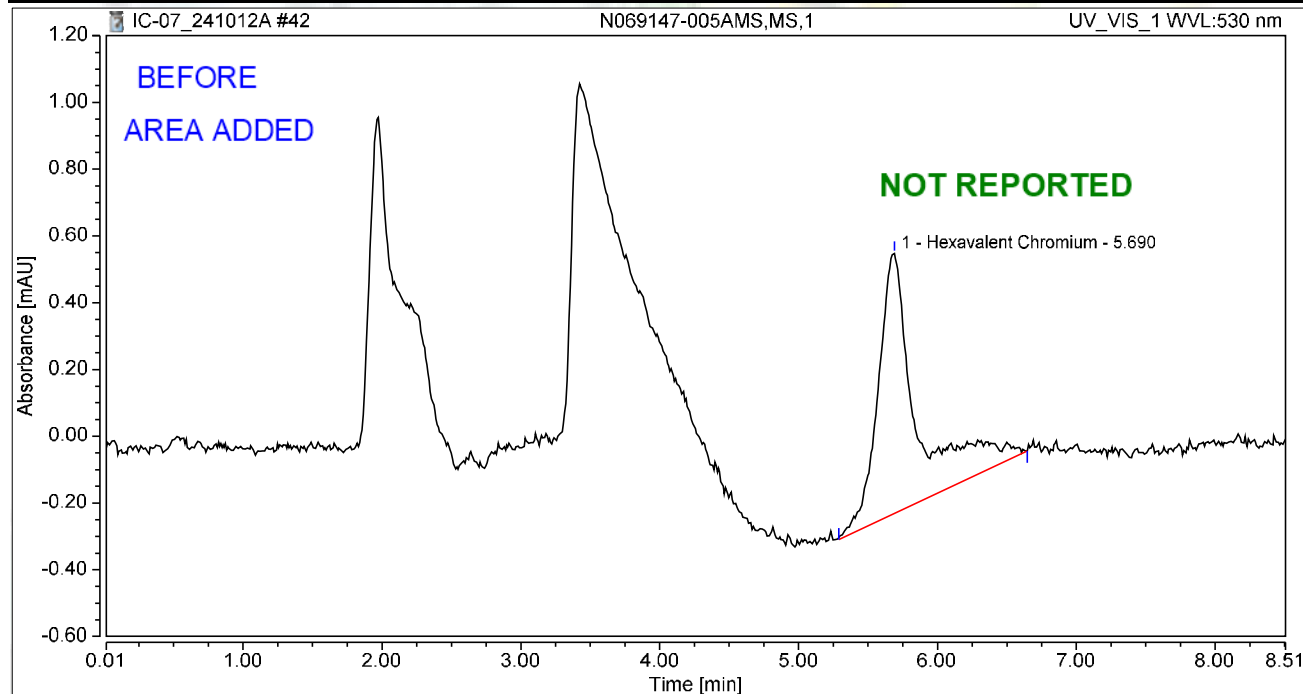
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.170	0.725	100.00	100.00	0.6268
Total:			0.170	0.725	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069147-005AMS,MS,1	Run Time (min): 8.49
Vial Number:	18	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Oct/24 13:32	Sample Weight: 1.0000

Chromatogram



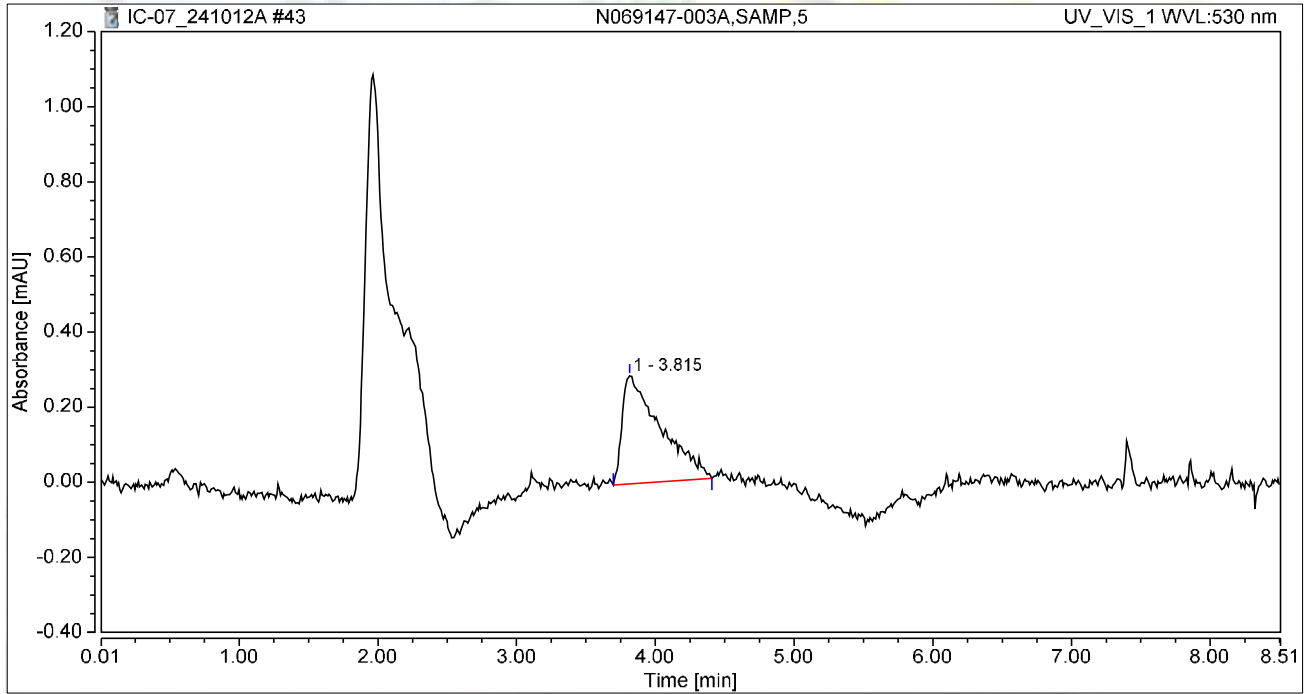
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.252	0.779	100.00	100.00	0.9276
Total:			0.252	0.779	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-003A,SAMP,5	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 13:42	Sample Weight:	1.0000

Chromatogram



Integration Results

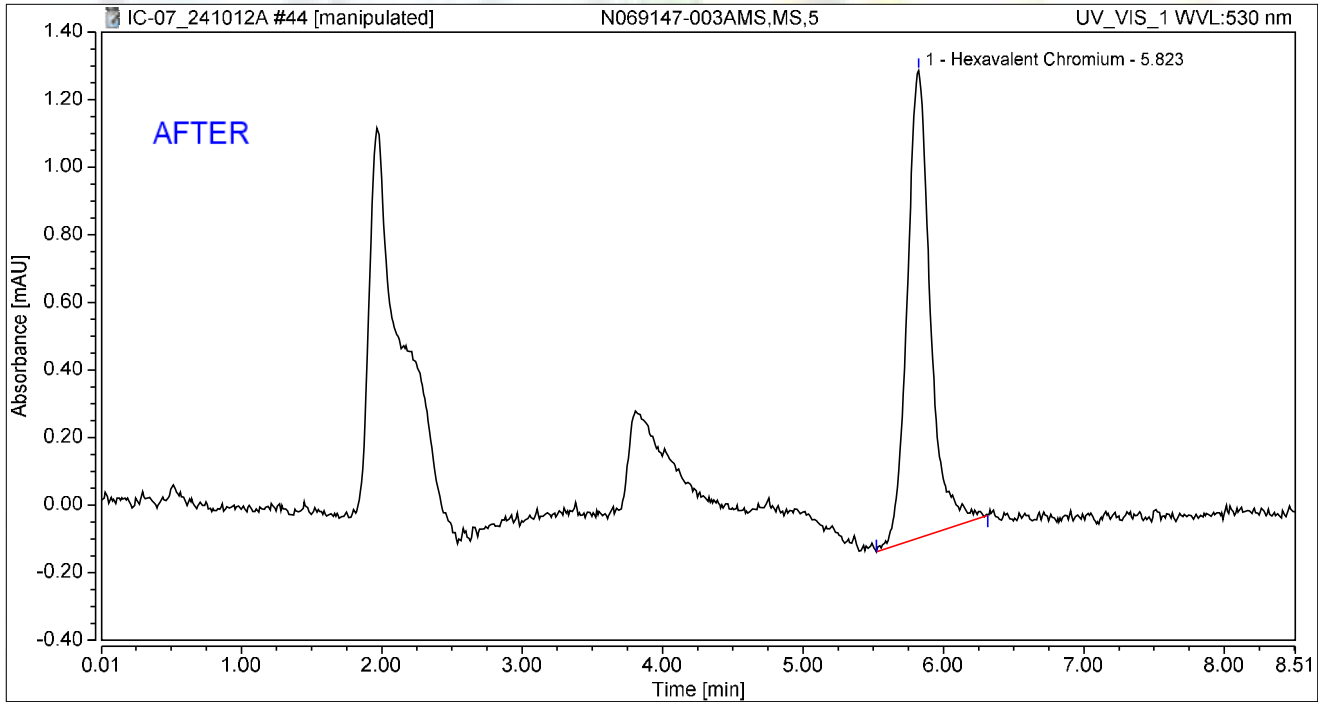
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.815	0.093	0.287	100.00	100.00	n.a.
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.093	0.287	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-003AMS,MS,5	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 13:51	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.823	0.265	1.383	100.00	100.00	0.9771
Total:			0.265	1.383	100.00	100.00	

Reviewed by:

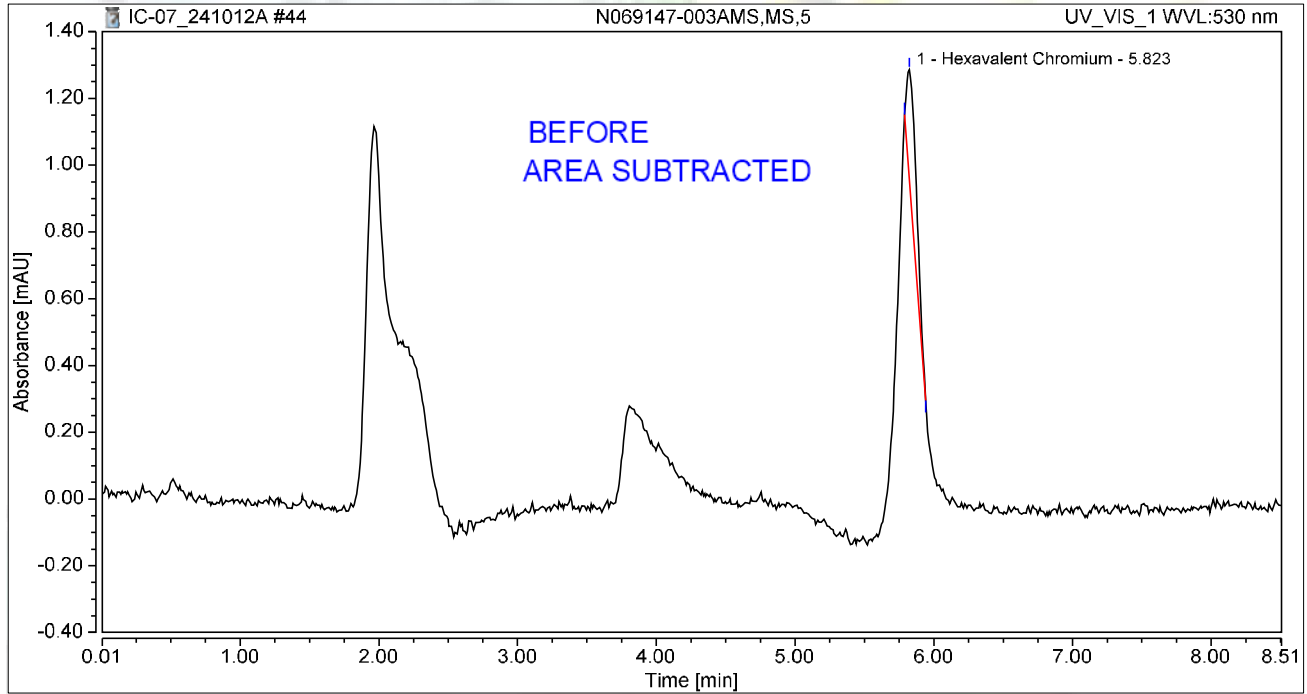
M. Rocha 10/24/2024

Chromatogram and Results

Injection Details

Injection Name:	N069147-003AMS,MS,5	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 13:51	Sample Weight:	1.0000

Chromatogram



Integration Results

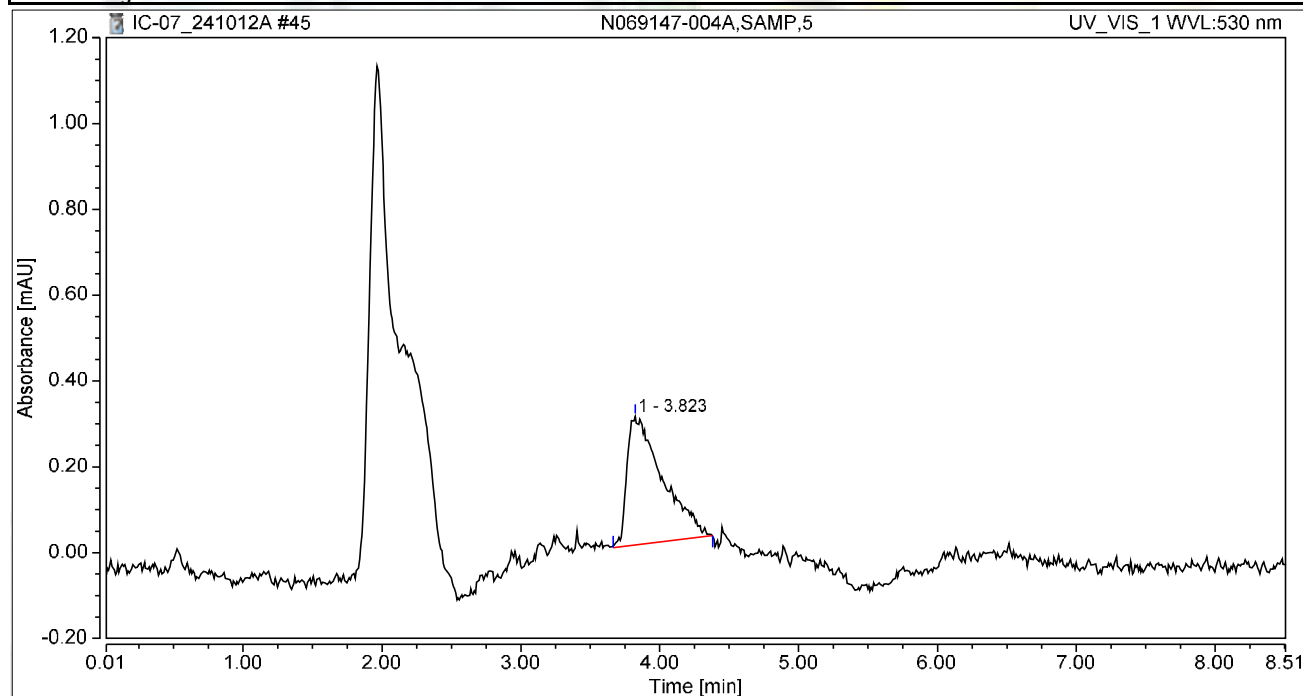
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.823	0.030	0.324	100.00	100.00	0.1106
Total:			0.030	0.324	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-004A,SAMP,5	Run Time (min):	8.49
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 14:01	Sample Weight:	1.0000

Chromatogram



Integration Results

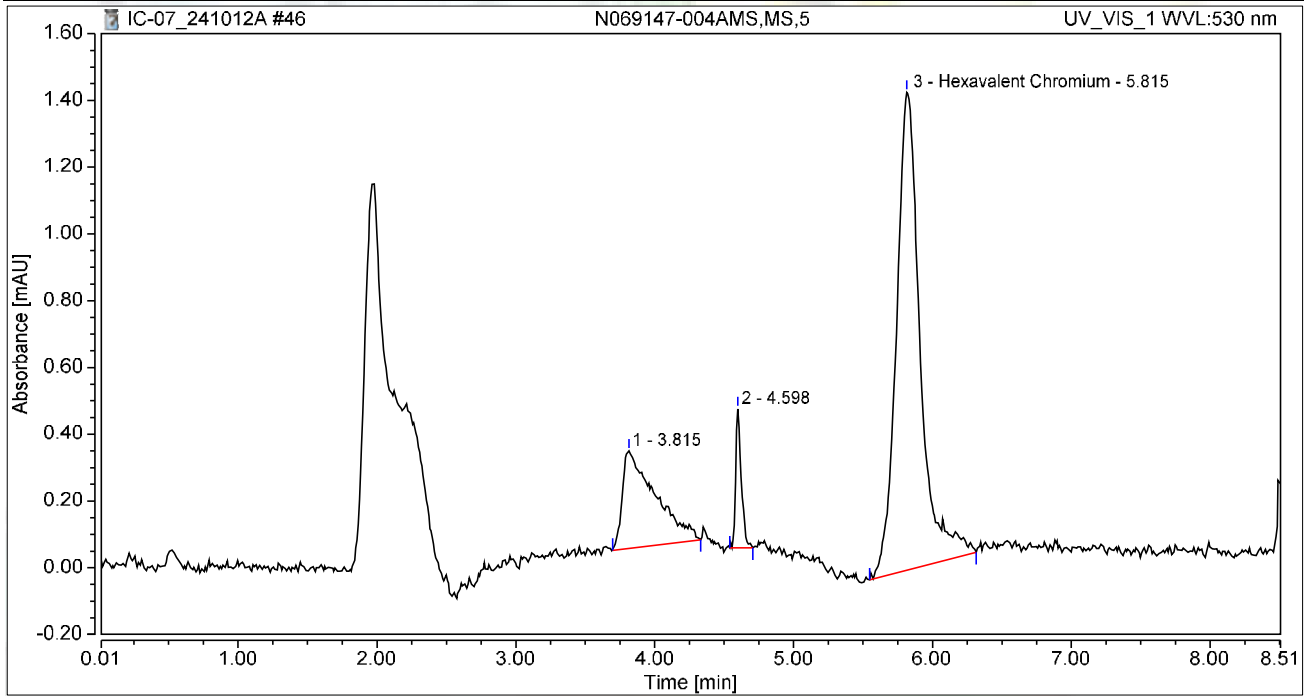
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.823	0.088	0.299	100.00	100.00	n.a.
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.088	0.299	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-004AMS,MS,5	Run Time (min):	8.49
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 14:10	Sample Weight:	1.0000

Chromatogram



Integration Results

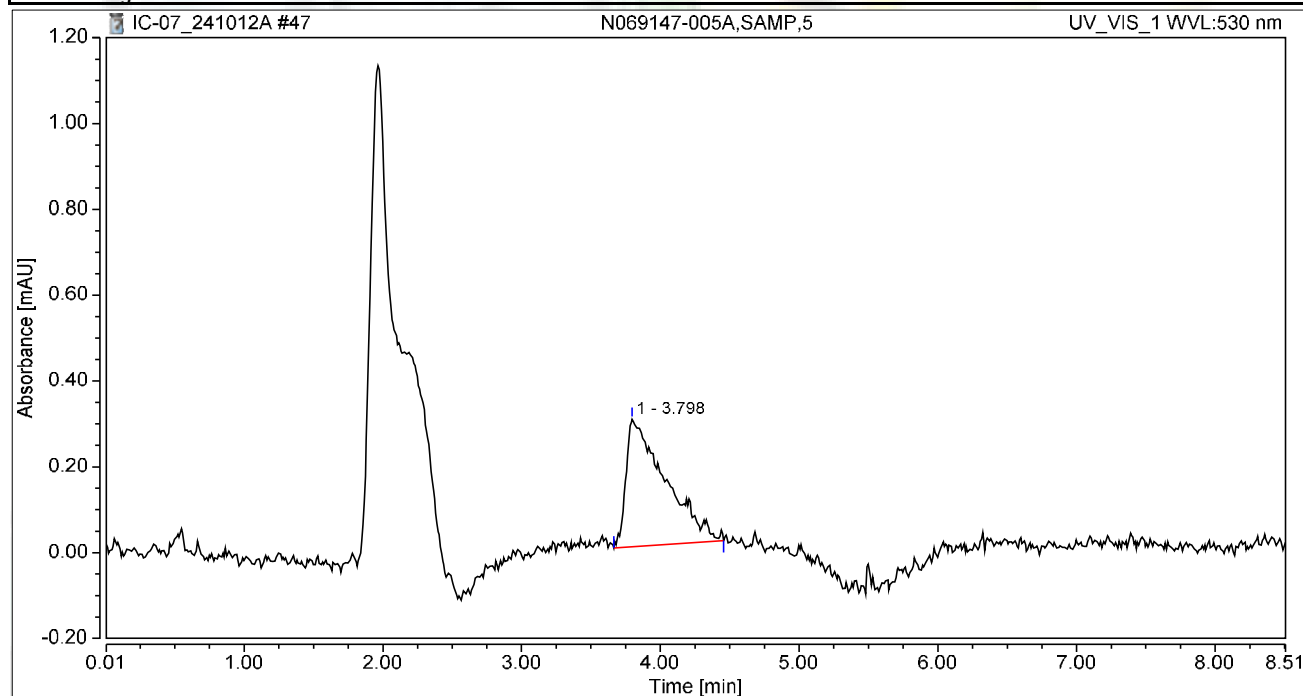
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.815	0.080	0.292	20.92	13.63	n.a.
2		4.598	0.020	0.417	5.14	19.47	n.a.
3	Hexavalent Chromium	5.815	0.283	1.432	73.94	66.90	1.0432
Total:			0.383	2.141	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-005A,SAMP,5	Run Time (min):	8.50
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 14:20	Sample Weight:	1.0000

Chromatogram



Integration Results

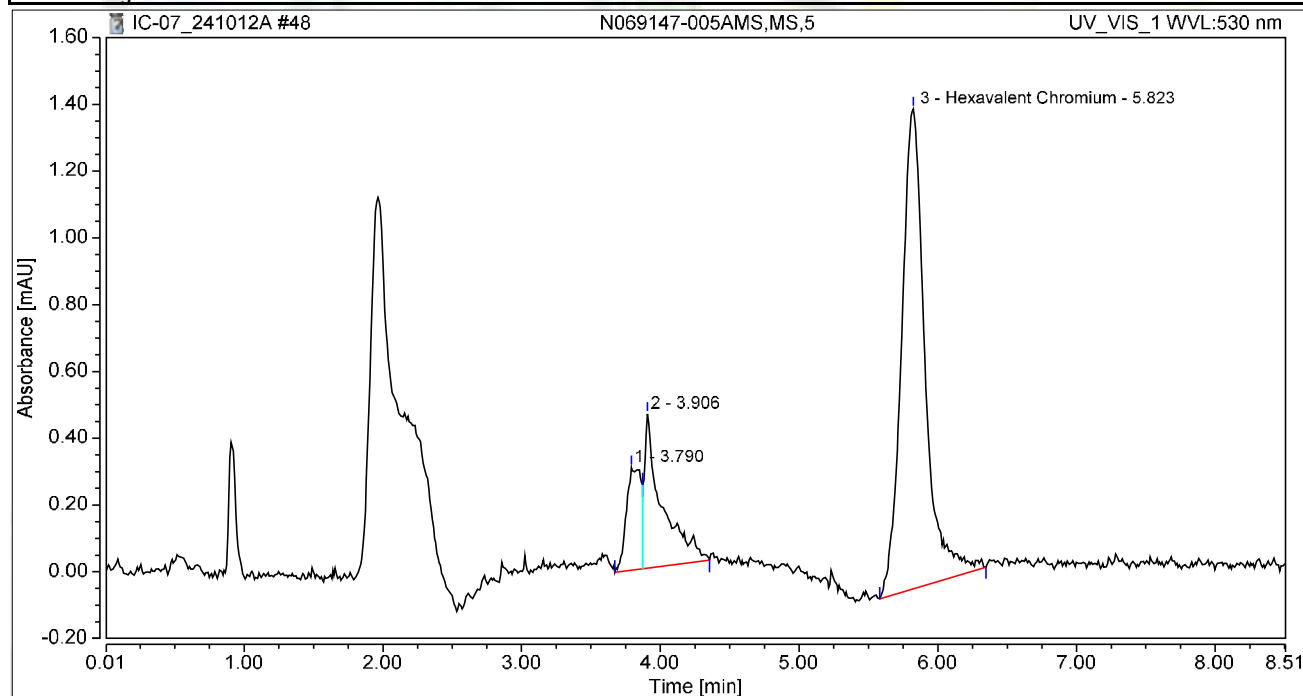
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.798	0.097	0.297	100.00	100.00	n.a.
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.097	0.297	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-005AMS,MS,5	Run Time (min):	8.50
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 14:29	Sample Weight:	1.0000

Chromatogram



Integration Results

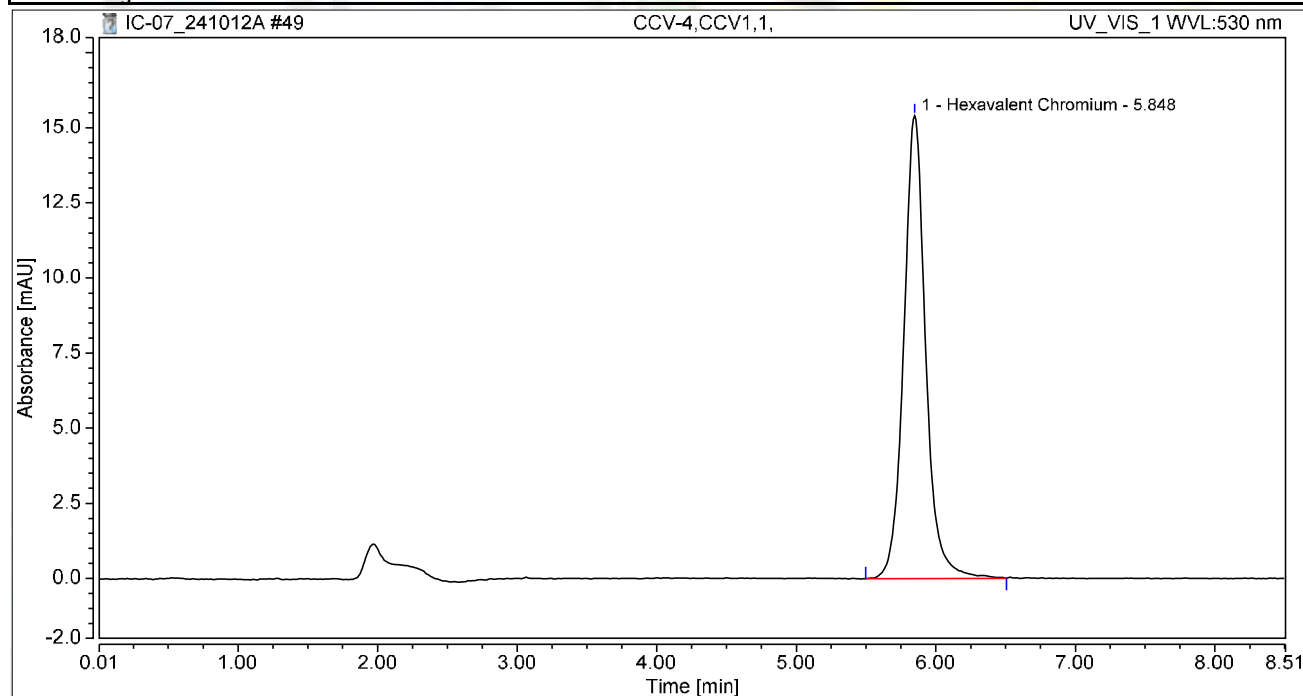
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.790	0.037	0.307	9.62	13.94	n.a.
2		3.906	0.068	0.462	17.65	20.92	n.a.
3	Hexavalent Chromium	5.823	0.282	1.437	72.73	65.15	1.0370
Total:			0.387	2.206	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-4,CCV1,1,	Run Time (min):	8.50
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 14:39	Sample Weight:	1.0000

Chromatogram



Integration Results

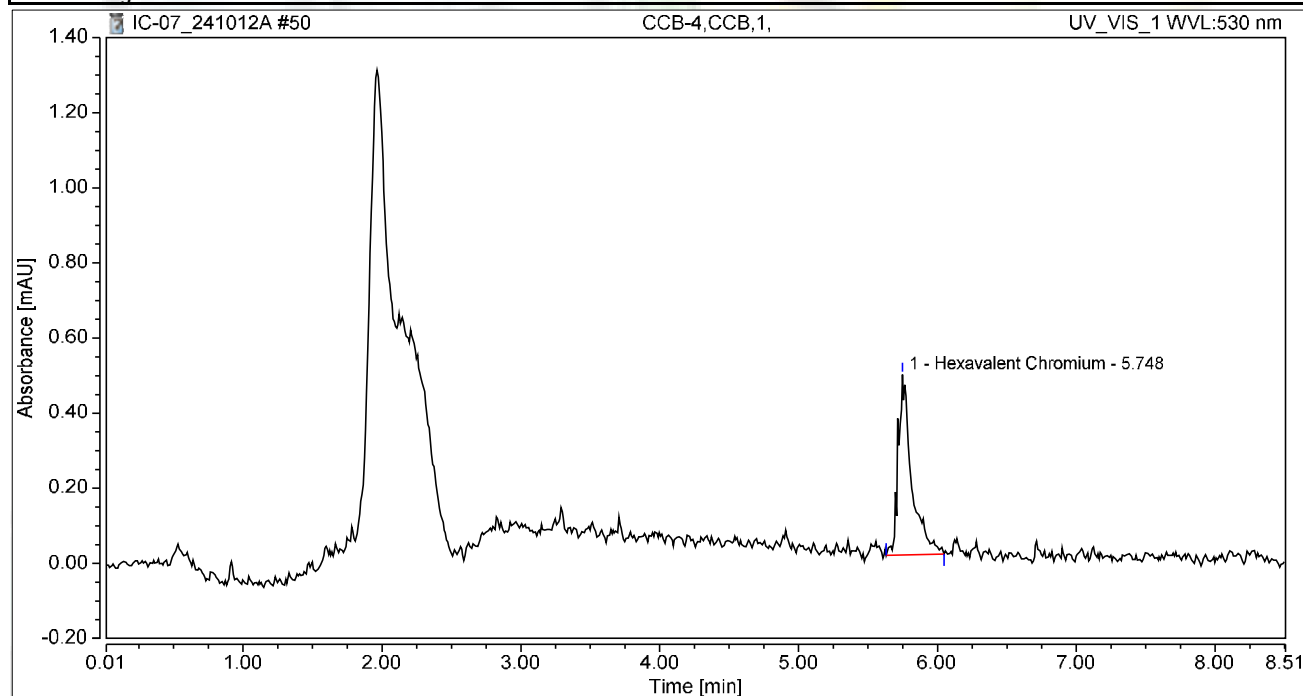
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.848	2.807	15.399	100.00	100.00	10.3383
Total:			2.807	15.399	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-4,CCB,1,	Run Time (min):	8.49
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 14:48	Sample Weight:	1.0000

Chromatogram



Integration Results

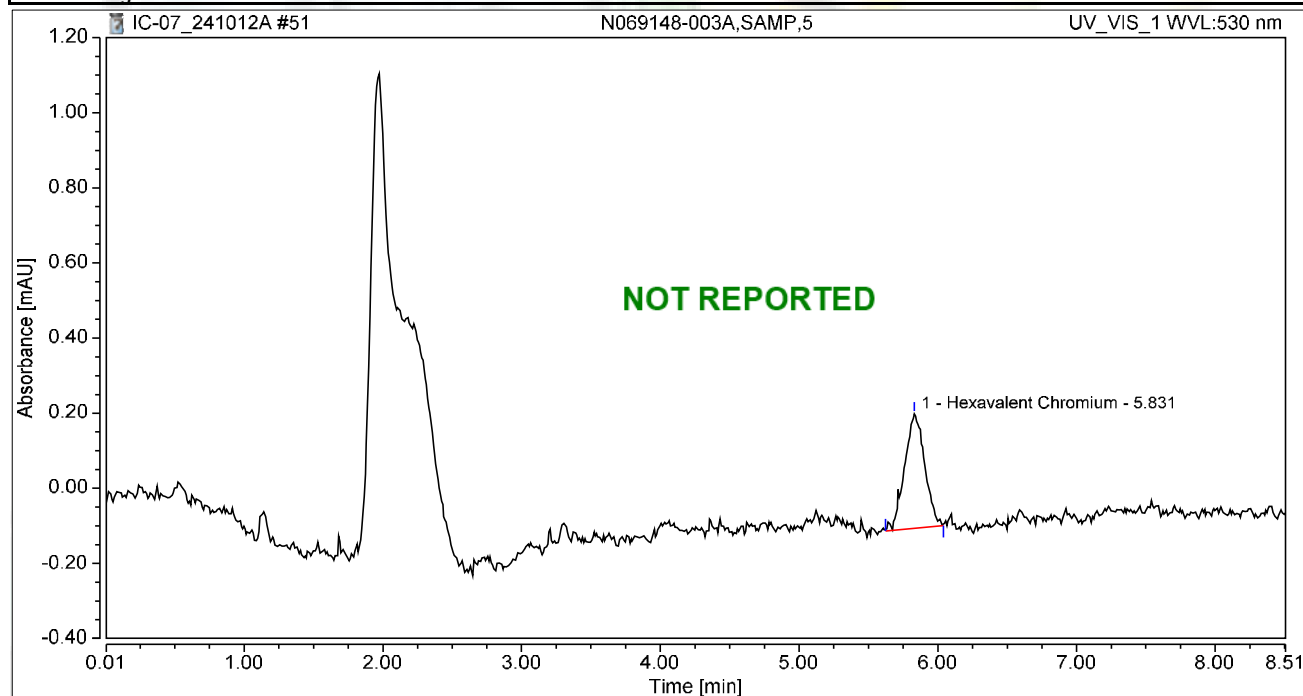
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.748	0.054	0.481	100.00	100.00	0.1996
Total:			0.054	0.481	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069148-003A,SAMP,5	Run Time (min):	8.50
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 14:57	Sample Weight:	1.0000

Chromatogram



Integration Results

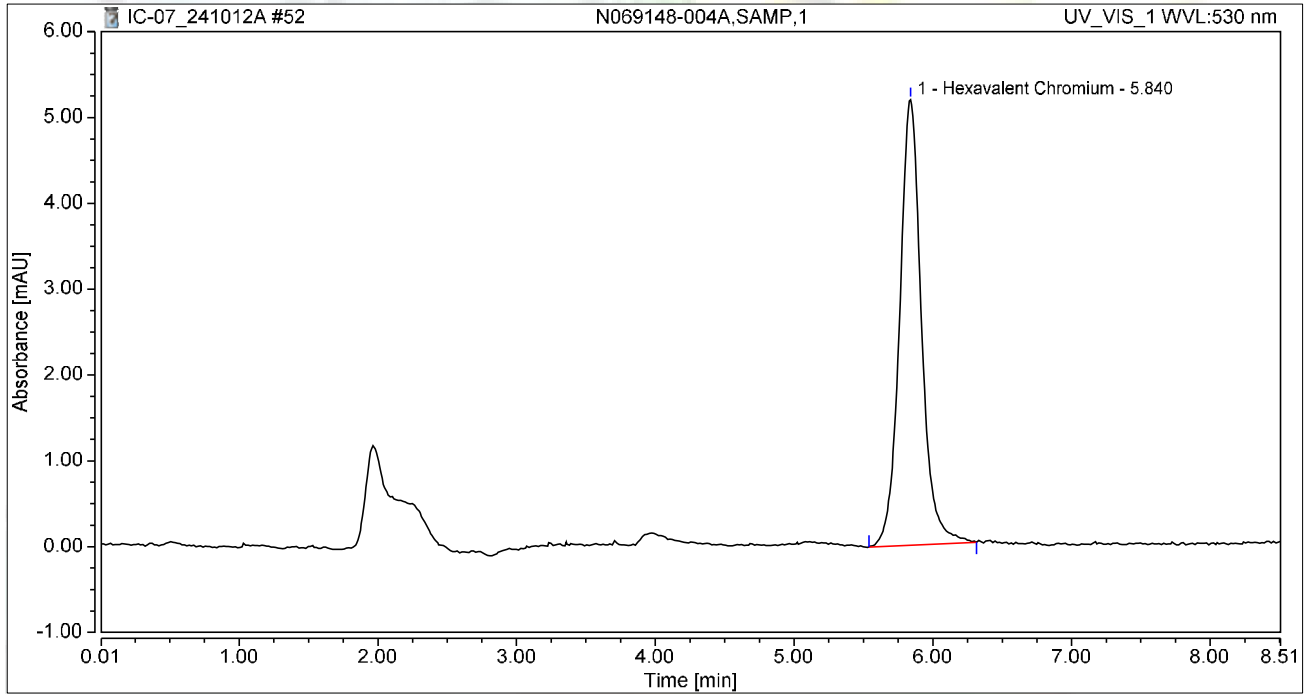
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.831	0.051	0.304	100.00	100.00	0.1886
Total:			0.051	0.304	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069148-004A,SAMP,1	Run Time (min):	8.50
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 15:07	Sample Weight:	1.0000

Chromatogram



Integration Results

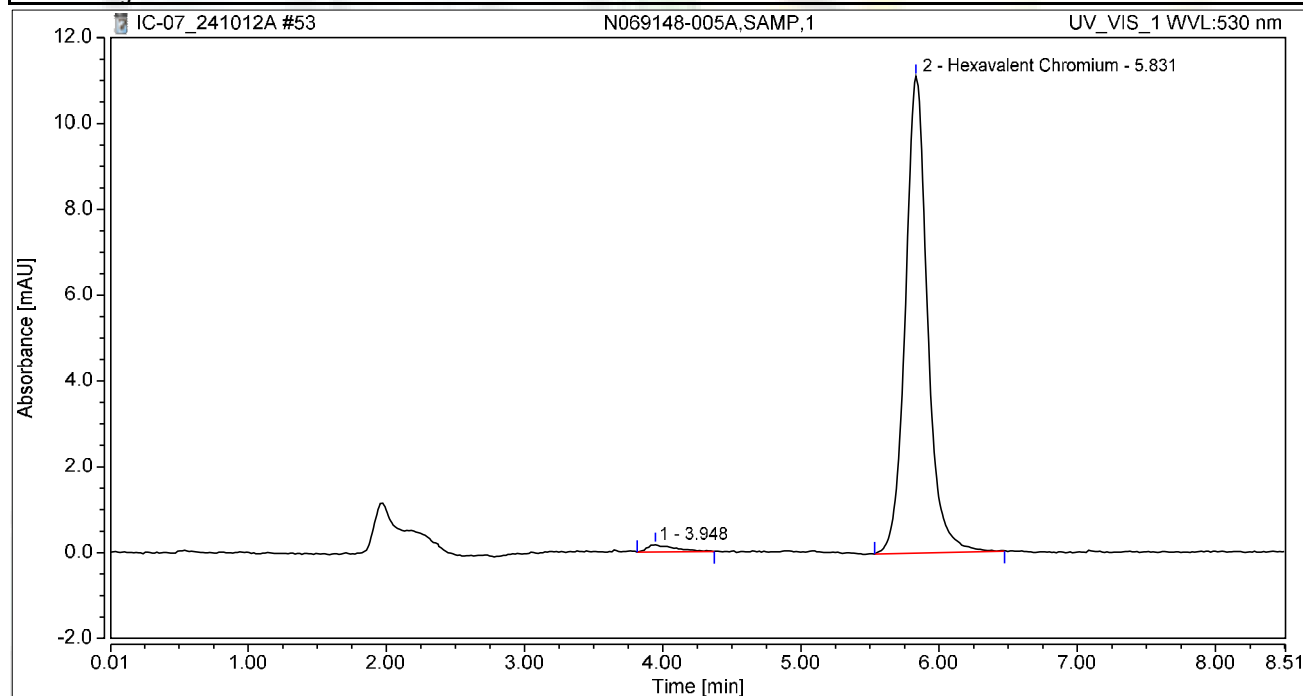
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.840	0.946	5.192	100.00	100.00	3.4848
Total:			0.946	5.192	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069148-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 15:16	Sample Weight:	1.0000

Chromatogram



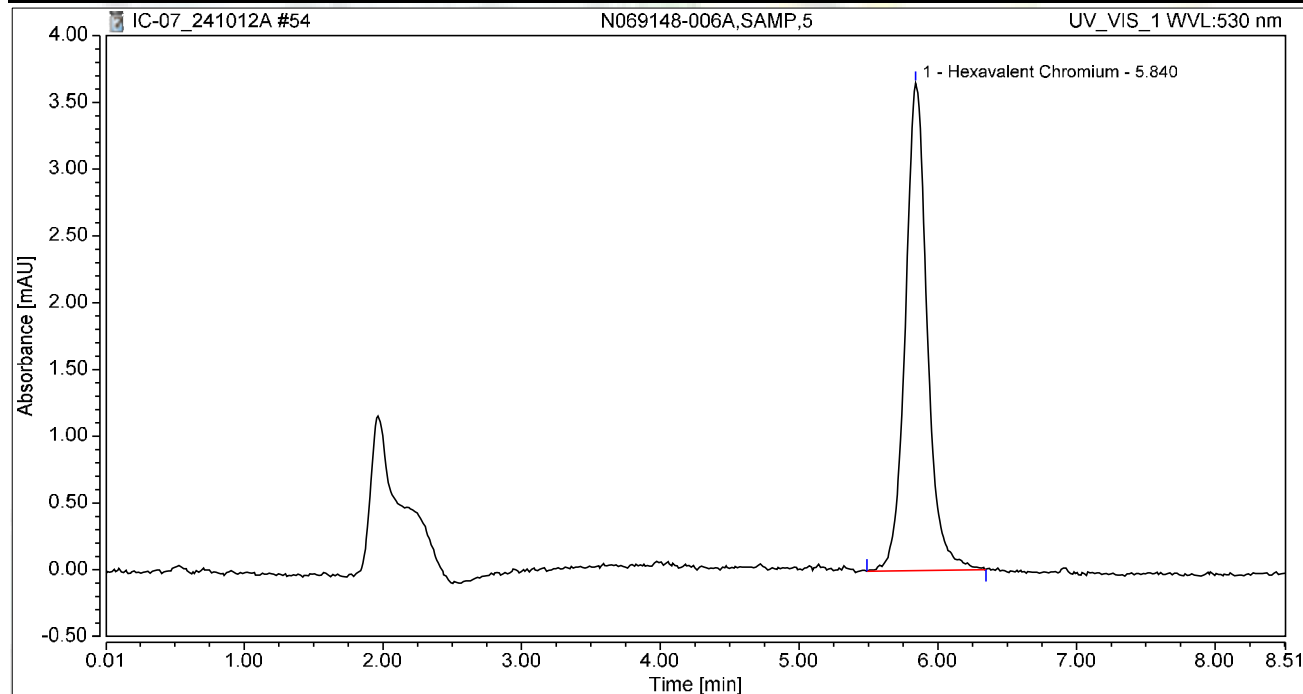
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.948	0.039	0.170	1.86	1.51	n.a.
2	Hexavalent Chromium	5.831	2.063	11.111	98.14	98.49	7.6009
Total:			2.103	11.281	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069148-006A,SAMP,5	Run Time (min): 8.50
Vial Number:	30	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Oct/24 15:26	Sample Weight: 1.0000

Chromatogram



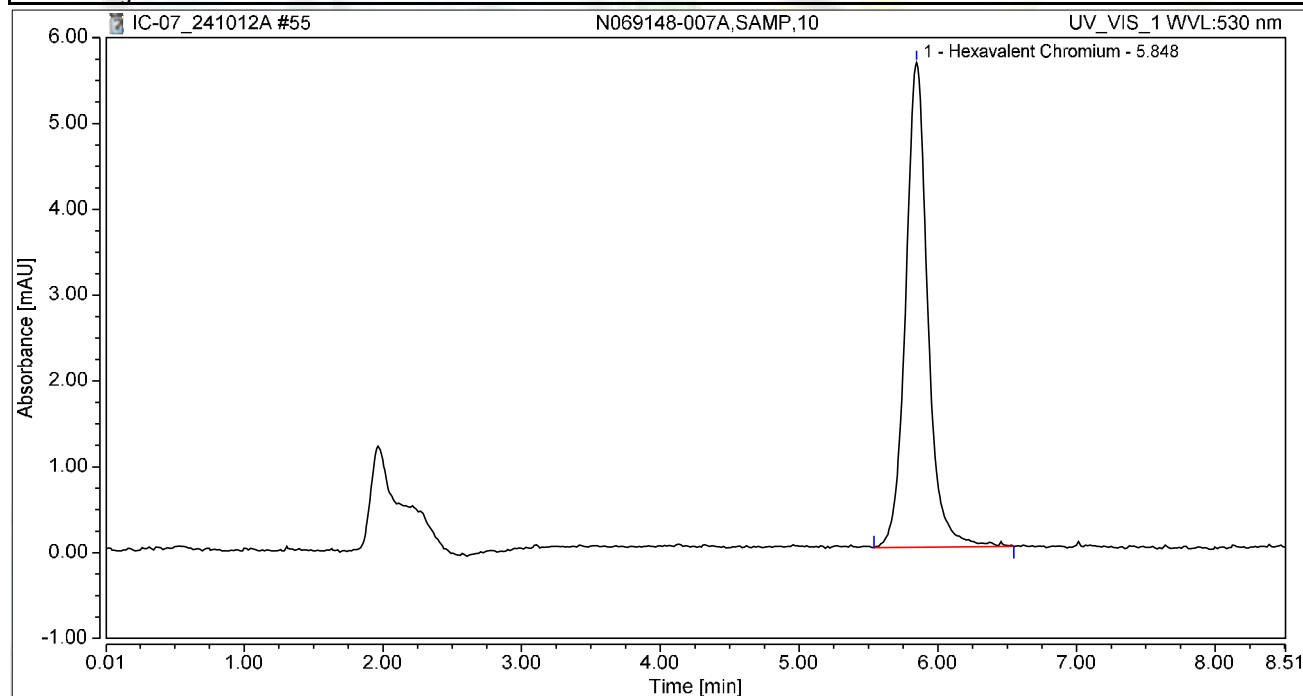
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.840	0.667	3.651	100.00	100.00	2.4587
Total:			0.667	3.651	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069148-007A,SAMP,10	Run Time (min):	8.50
Vial Number:	31	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 15:35	Sample Weight:	1.0000

Chromatogram



Integration Results

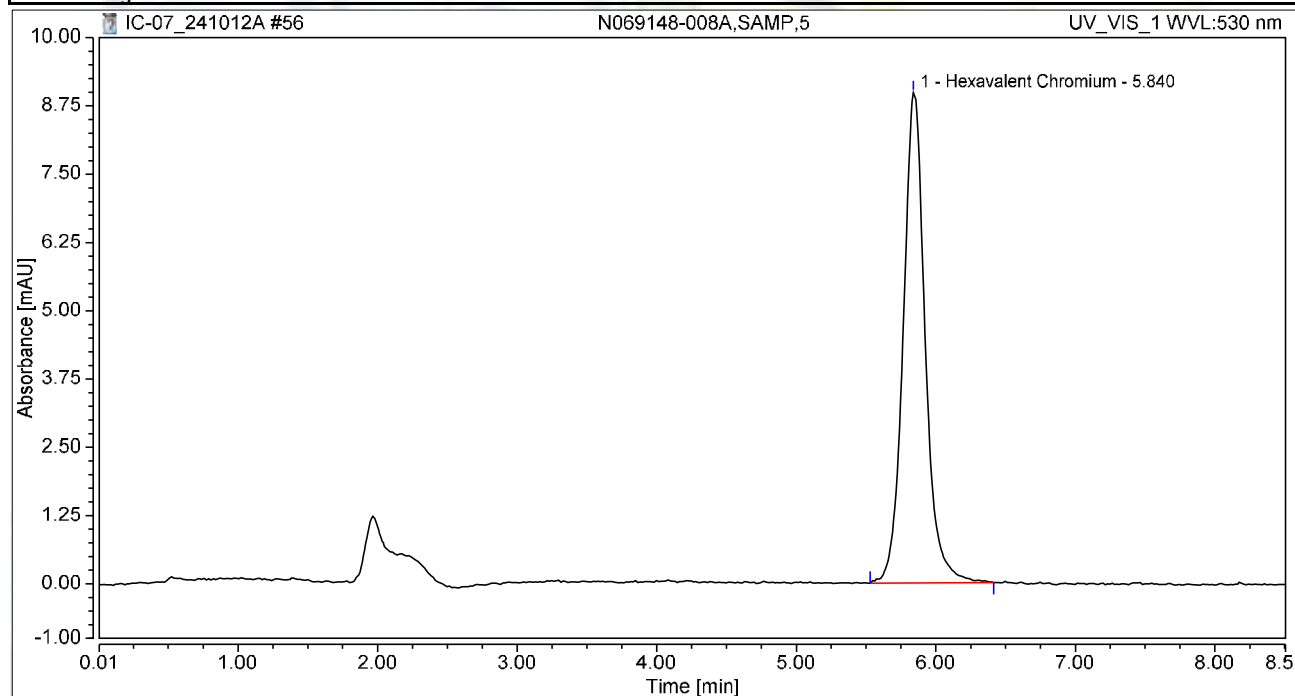
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.848	1.044	5.648	100.00	100.00	3.8458
Total:			1.044	5.648	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069148-008A,SAMP,5	Run Time (min):	8.50
Vial Number:	32	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 15:45	Sample Weight:	1.0000

Chromatogram



Integration Results

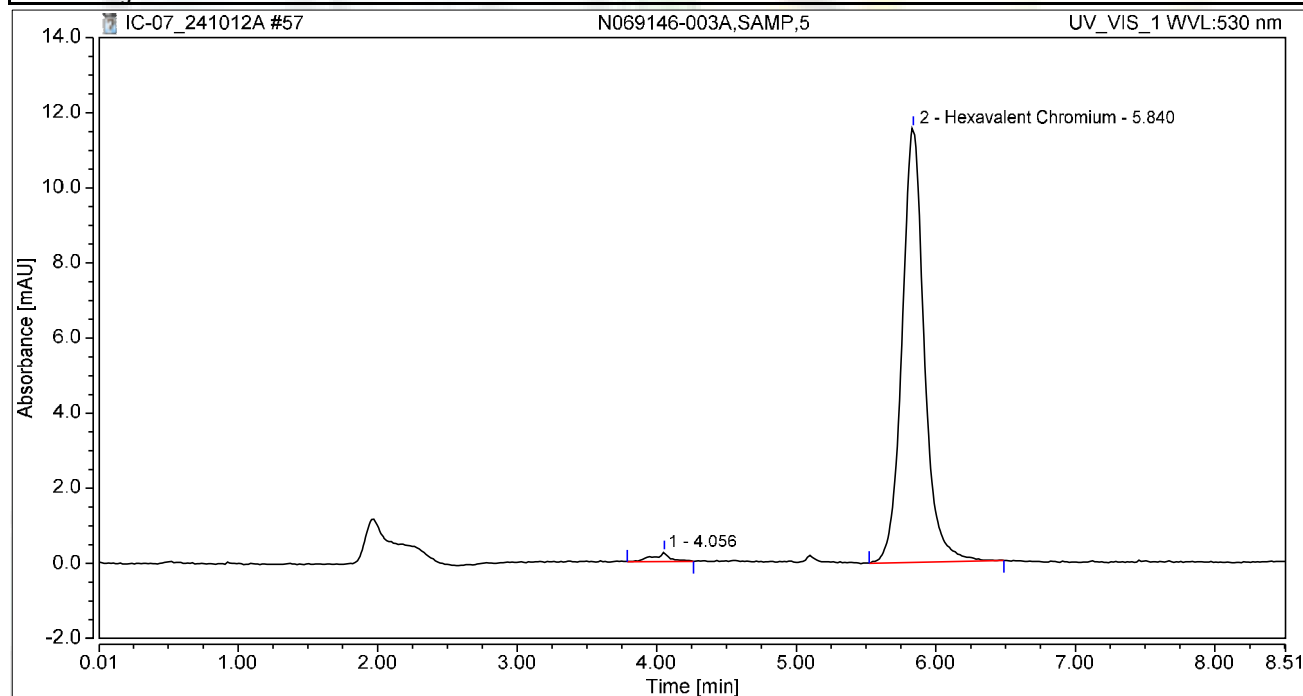
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.840	1.640	8.976	100.00	100.00	6.0393
Total:			1.640	8.976	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-003A,SAMP,5	Run Time (min):	8.50
Vial Number:	33	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 15:54	Sample Weight:	1.0000

Chromatogram



Integration Results

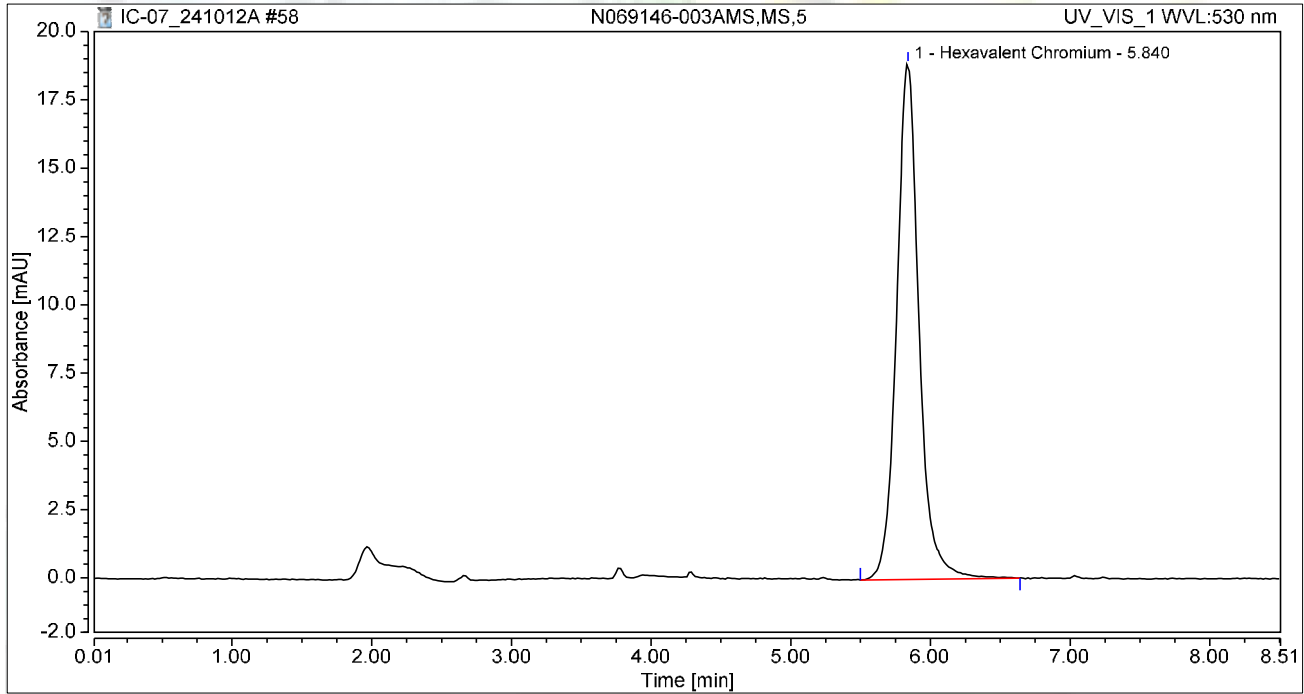
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		4.056	0.035	0.247	1.63	2.09	n.a.
2	Hexavalent Chromium	5.840	2.138	11.562	98.37	97.91	7.8739
Total:			2.173	11.808	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-003AMS,MS,5	Run Time (min):	8.49
Vial Number:	34	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 16:04	Sample Weight:	1.0000

Chromatogram



Integration Results

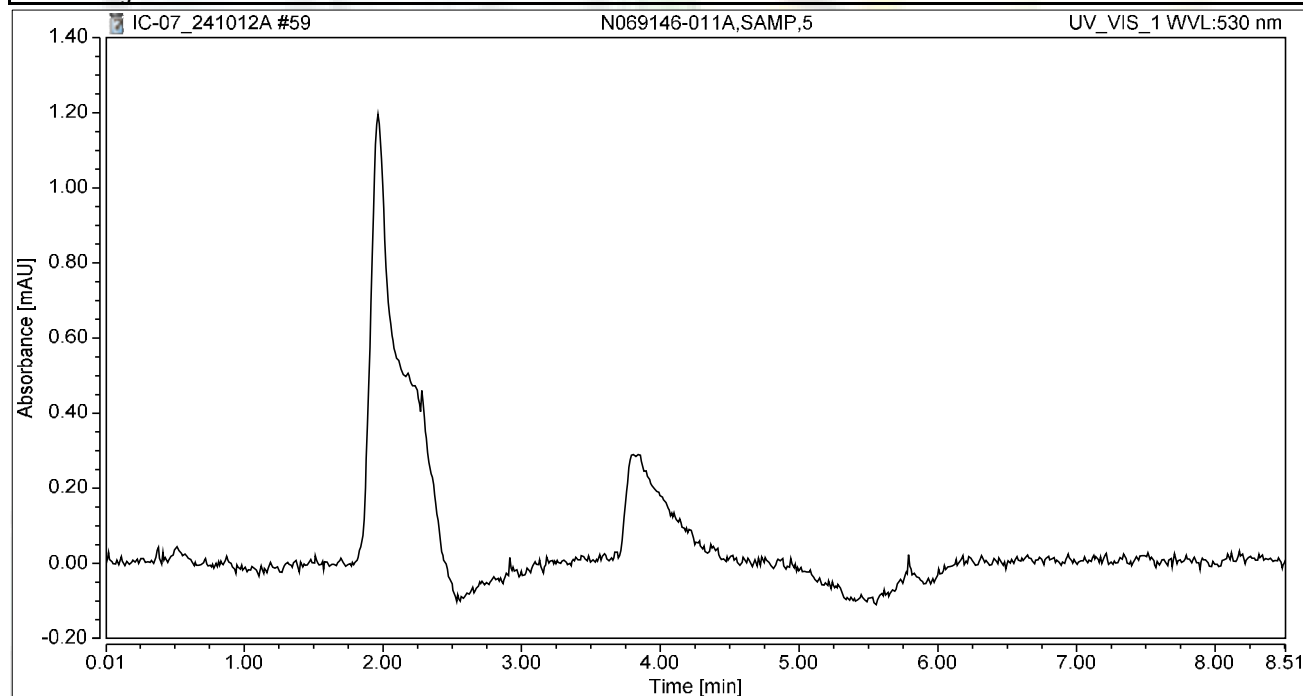
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.840	3.509	18.876	100.00	100.00	12.9262
Total:			3.509	18.876	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-011A,SAMP,5	Run Time (min):	8.50
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 16:13	Sample Weight:	1.0000

Chromatogram



Integration Results

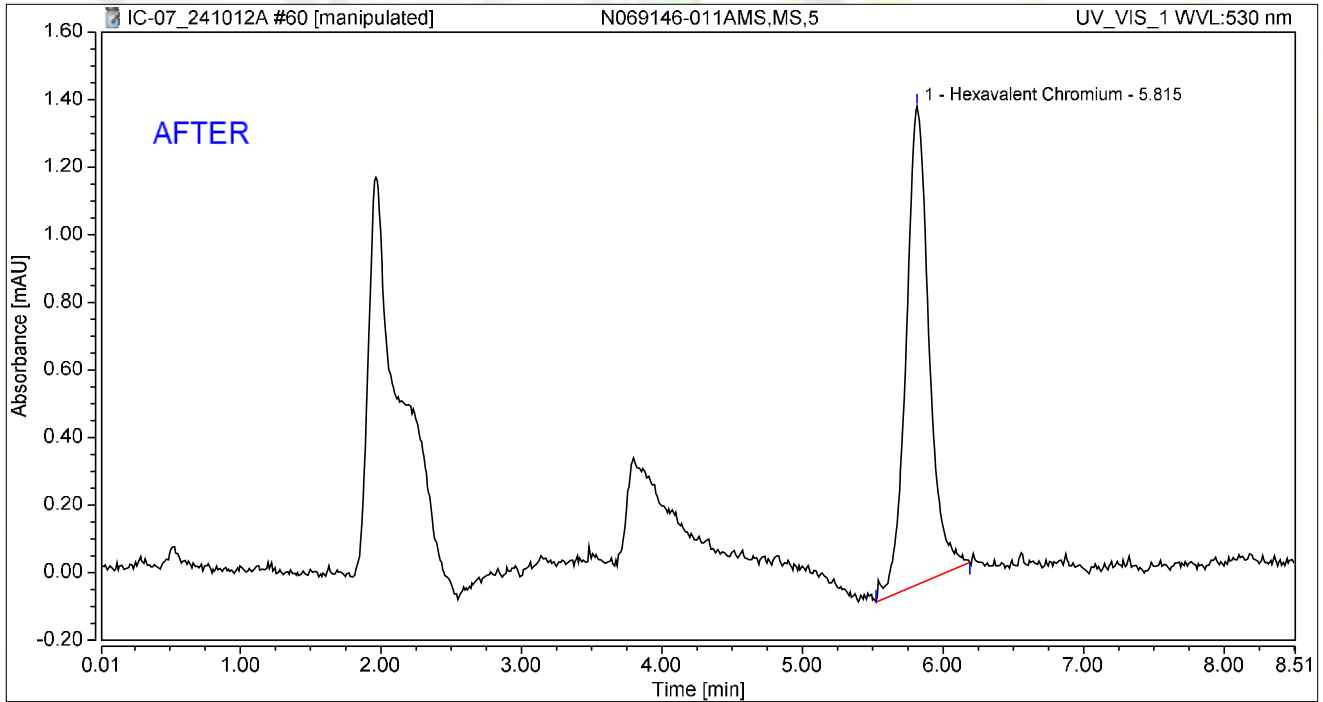
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-011AMS,MS,5	Run Time (min):	8.49
Vial Number:	36	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 16:23	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.815	0.269	1.417	100.00	100.00	0.9905
Total:			0.269	1.417	100.00	100.00	

Reviewed by:

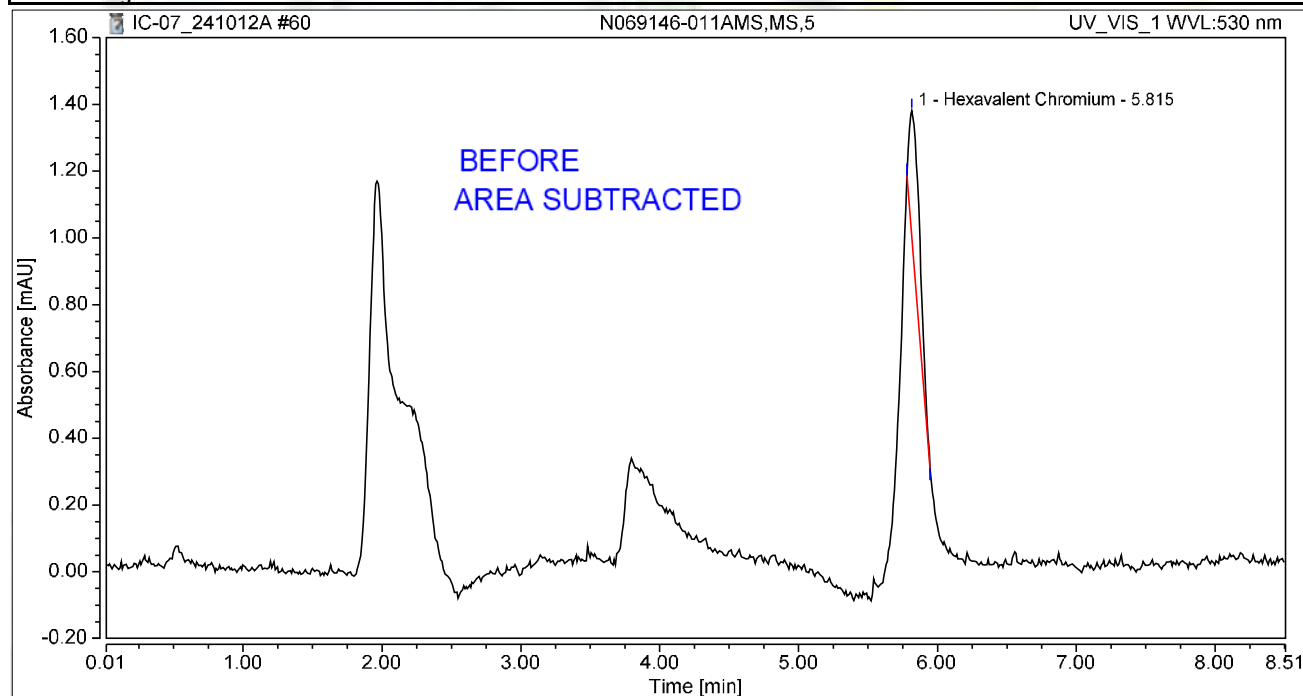
d/Recha 10/24/2024

Chromatogram and Results

Injection Details

Injection Name:	N069146-011AMS,MS,5	Run Time (min):	8.49
Vial Number:	36	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 16:23	Sample Weight:	1.0000

Chromatogram



Integration Results

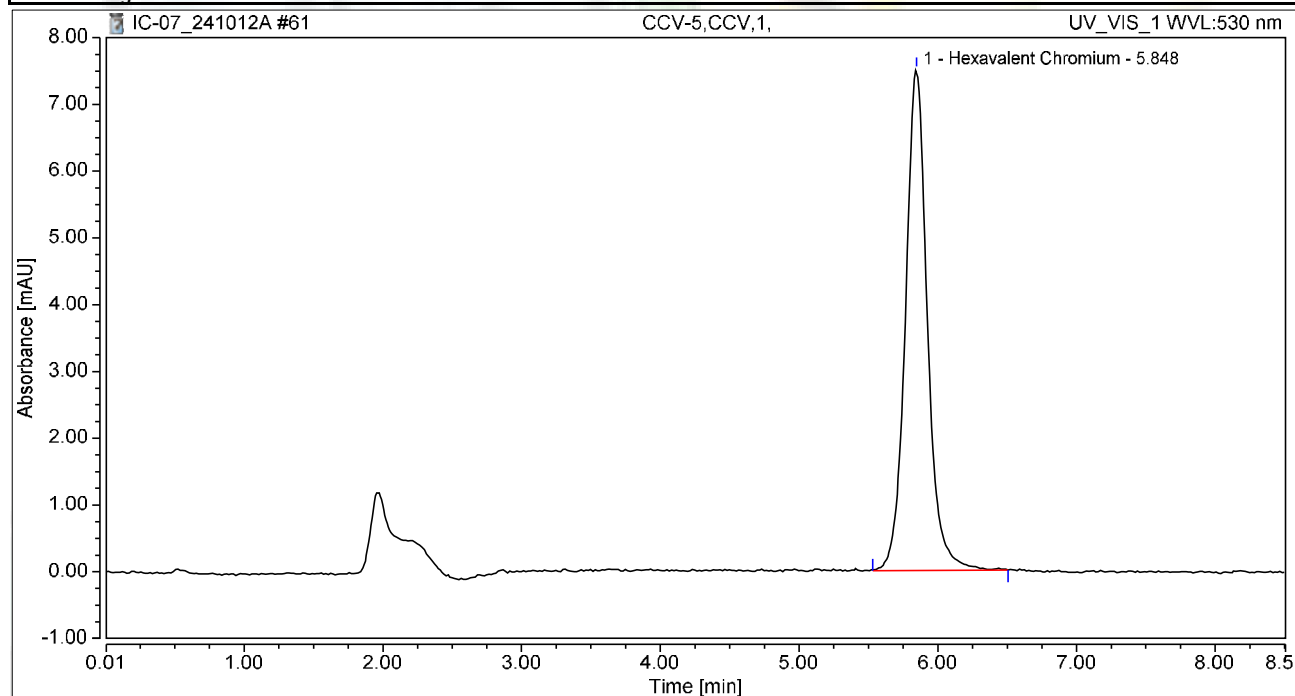
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.815	0.037	0.369	100.00	100.00	0.1354
Total:			0.037	0.369	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.50
Vial Number:	37	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 16:32	Sample Weight:	1.0000

Chromatogram



Integration Results

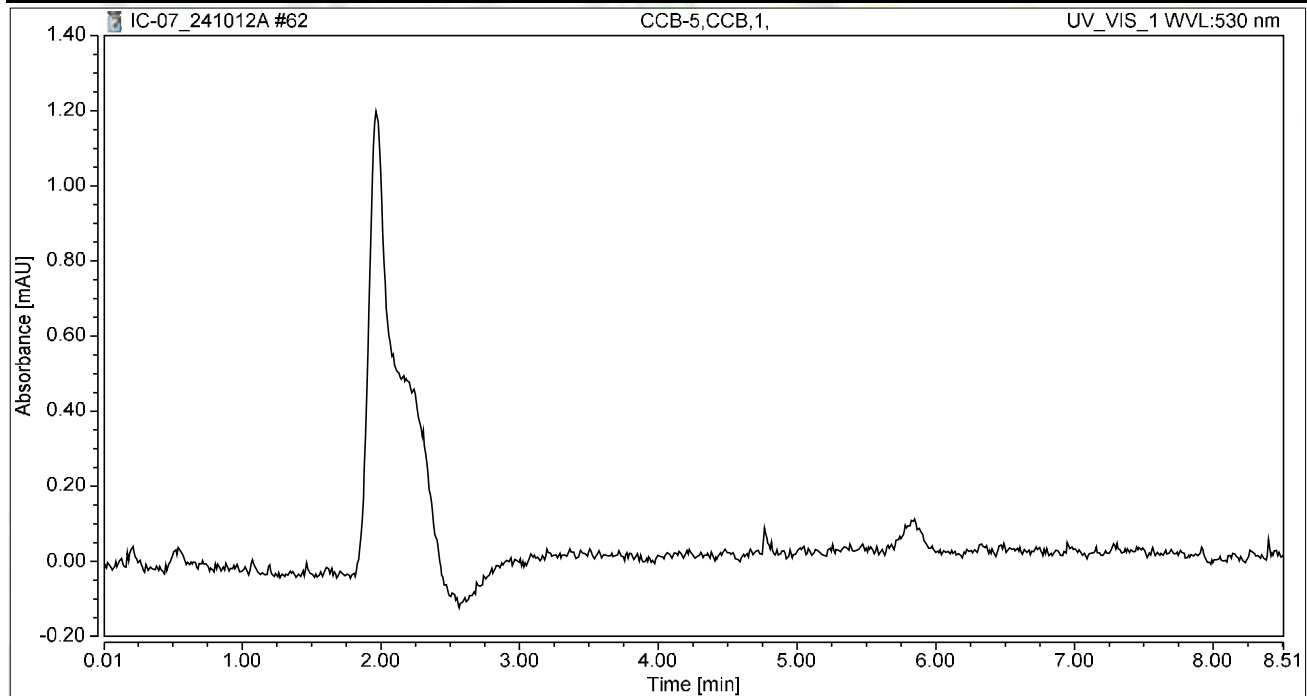
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.848	1.372	7.507	100.00	100.00	5.0523
Total:			1.372	7.507	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.50
Vial Number:	38	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 16:41	Sample Weight:	1.0000

Chromatogram



Integration Results

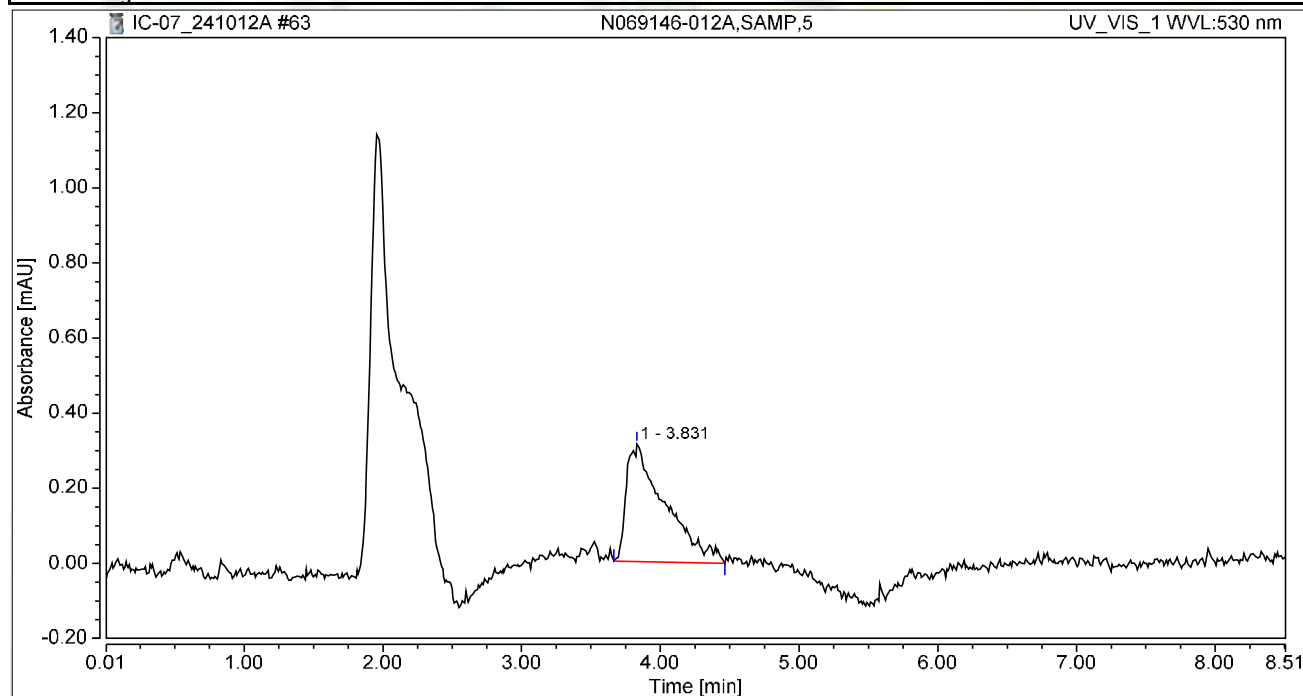
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-012A,SAMP,5	Run Time (min):	8.50
Vial Number:	39	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 16:51	Sample Weight:	1.0000

Chromatogram



Integration Results

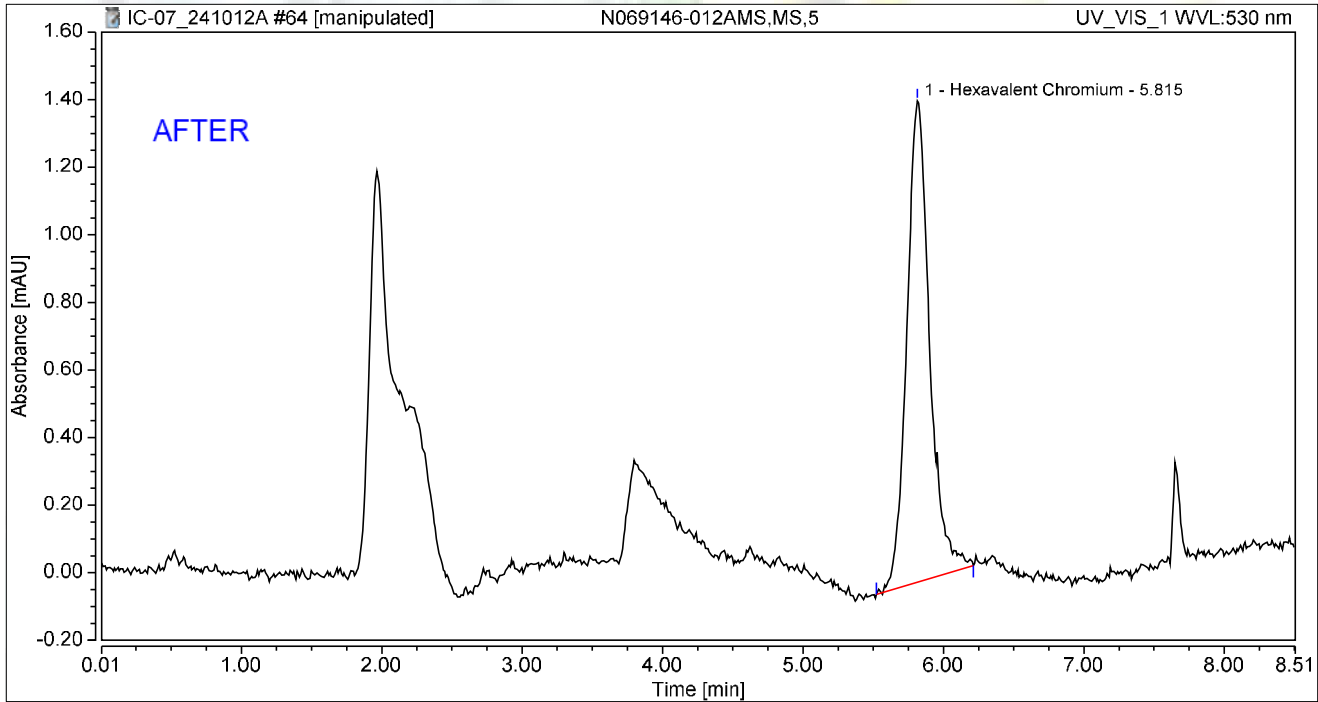
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.831	0.101	0.313	100.00	100.00	n.a.
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.101	0.313	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-012AMS,MS,5	Run Time (min):	8.50
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 17:00	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.815	0.269	1.424	100.00	100.00	0.9893
Total:			0.269	1.424	100.00	100.00	

Reviewed by:

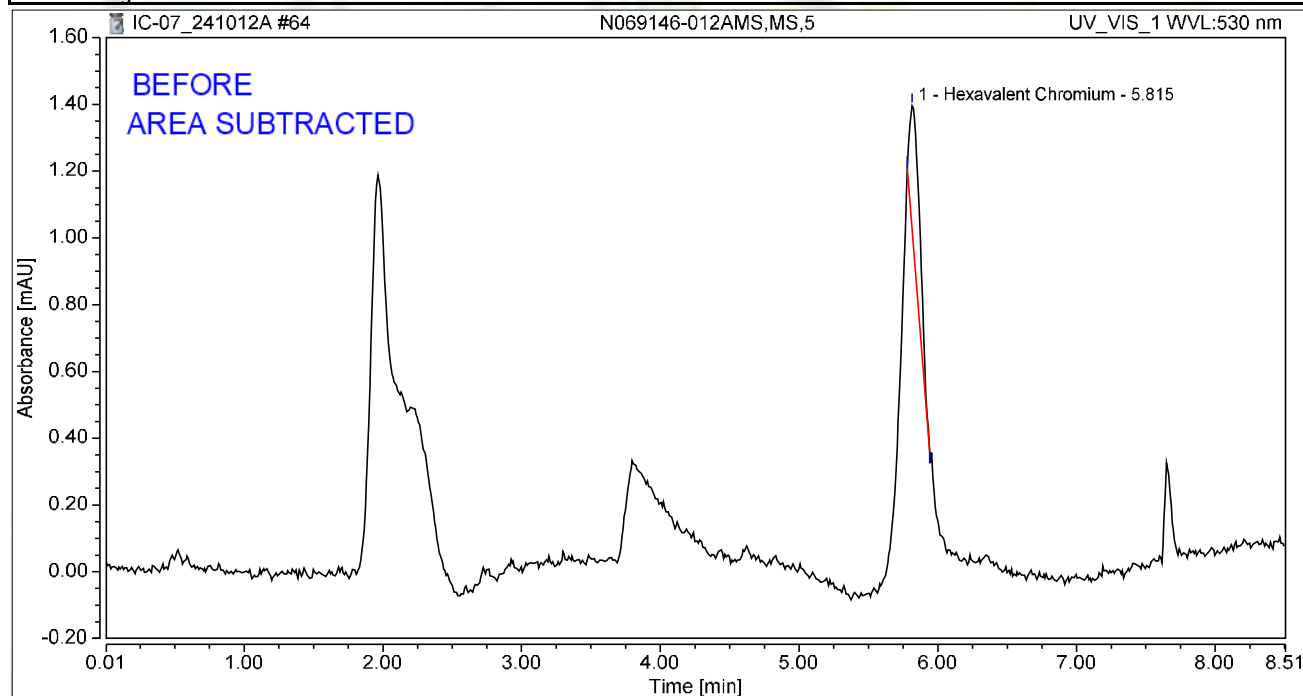
d/Rocha 10/24/2024

Chromatogram and Results

Injection Details

Injection Name:	N069146-012AMS,MS,5	Run Time (min):	8.50
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 17:00	Sample Weight:	1.0000

Chromatogram



Integration Results

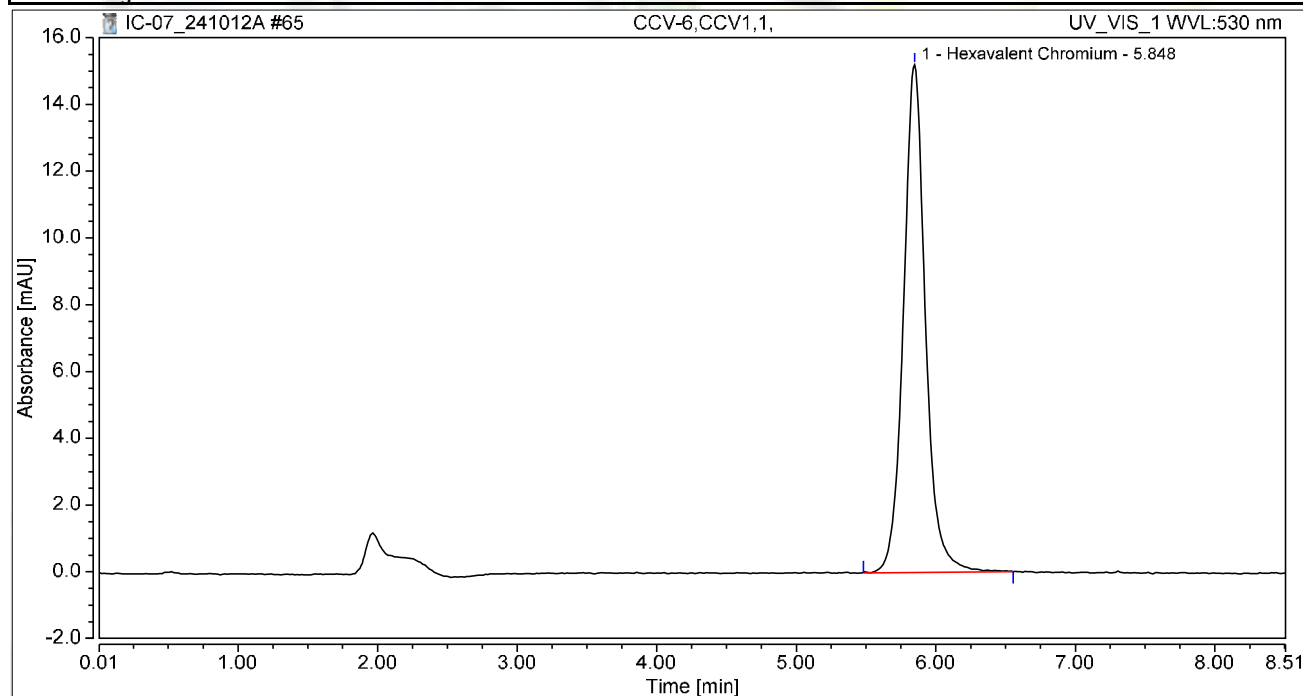
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.815	0.036	0.366	100.00	100.00	0.1321
Total:			0.036	0.366	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-6,CCV1,1,	Run Time (min):	8.50
Vial Number:	41	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 17:10	Sample Weight:	1.0000

Chromatogram



Integration Results

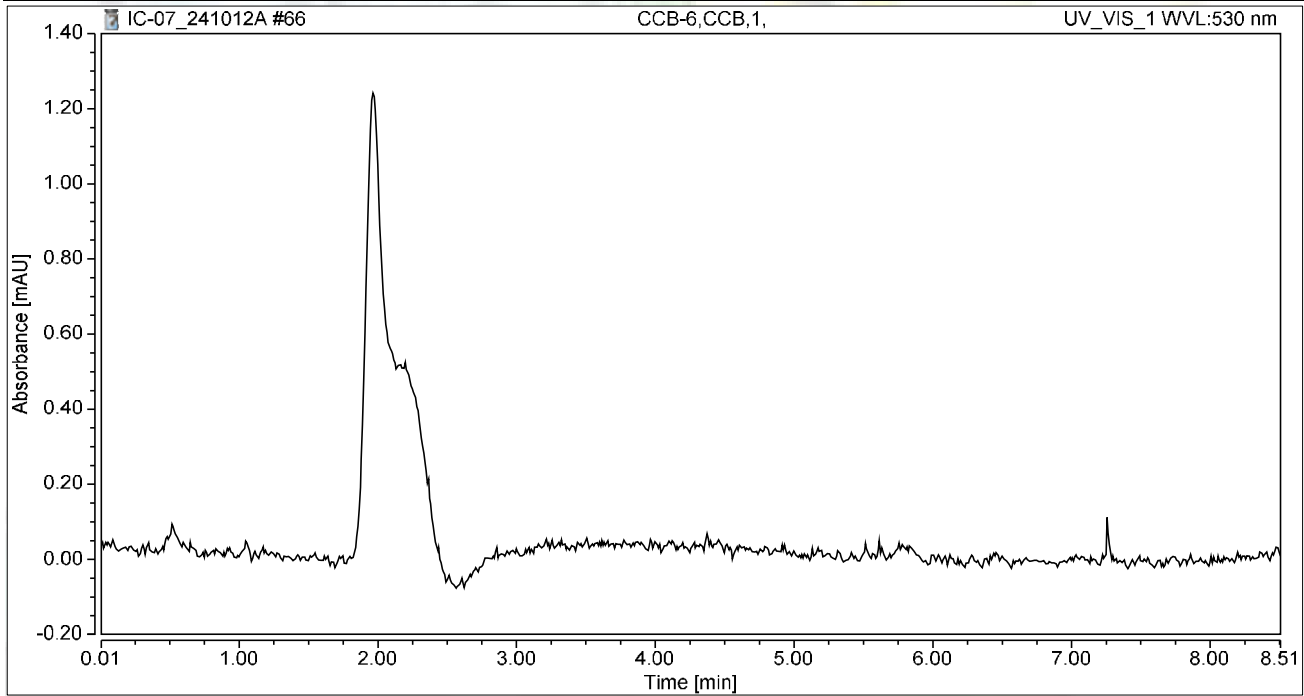
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.848	2.782	15.205	100.00	100.00	10.2480
Total:			2.782	15.205	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-6,CCB,1,	Run Time (min):	8.50
Vial Number:	42	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 17:19	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

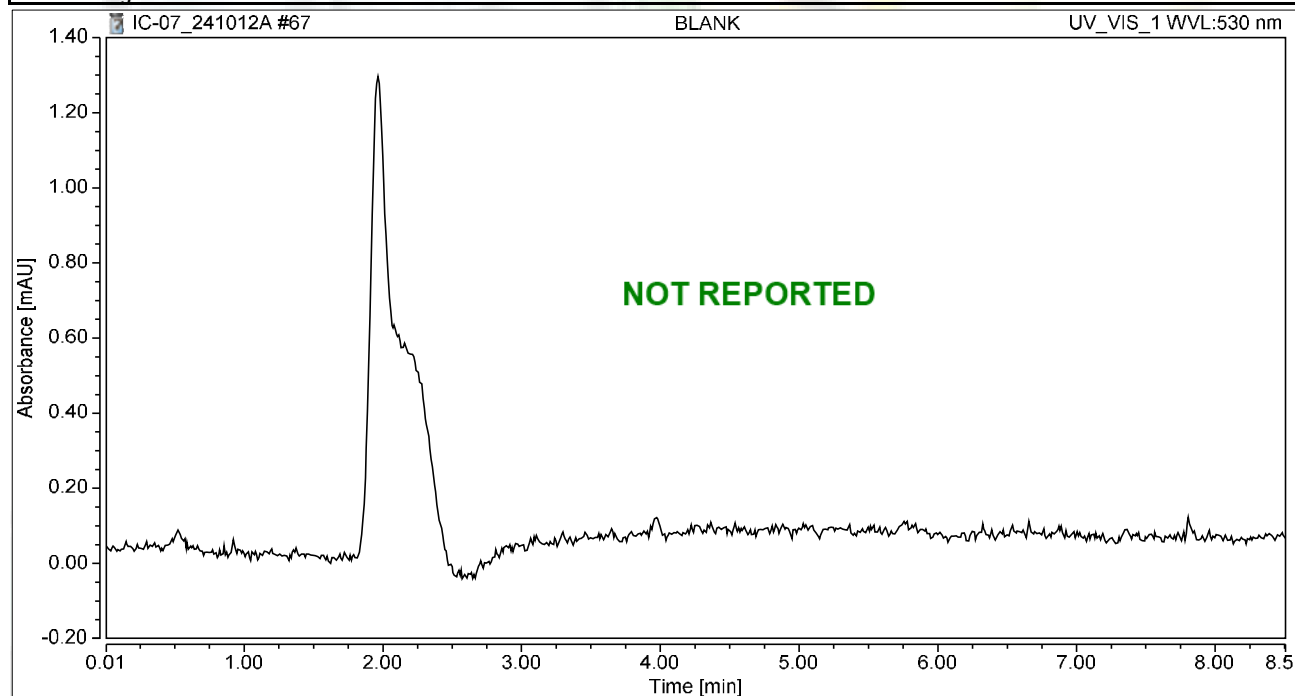


Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	43	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 17:29	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

EPA 300.0



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IC Technical Batch Review Checklist (ARCUS02)

IC ARCUS
REV 2.0
011416

ASSET LABORATORIES - LAS VEGAS

QC Batch Number: R194191
ASSET # N069146 / N069147 / N069150

Instrument ID: NV00922-IC8
Analyst: RBA
Date Analyzed: 10/11/2024

Method:

- EPA 300.0
- EPA 7199

- EPA 218.6/EPA 218.7
- EPA 218.6/EPA 218.7 LL
- Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria ?(r = 0.995, r =0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)			X			X
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?			X			X
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?			X			X
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
14. For Hinkley DOM samples, matrix spike protocol performed on all samples ? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed ?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)			X			X
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA

Date: _____

2nd Level Reviewer JRB 10/24/2024

Date: _____



IC Technical Batch Review Checklist (ARCUS02)

ASSET LABORATORIES - LAS VEGAS

IC ARCUS
REV 2.0
011416

QC Batch Number: R194197
ASSET #: N069146 / N069147 / ~~N069109~~

Instrument ID: NV00922-IC9
Analyst: RBA
Date Analyzed: 10/11/2024

Method:

- EPA 300.0
- EPA 7199

- EPA 218.6/EPA 218.7
- EPA 218.6/EPA 218.7 LL
- Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria ?(r = 0.995, r =0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)			X			X
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?			X			X
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?			X			X
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
14. For Hinkley DOM samples, matrix spike protocol performed on all samples ? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed ?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)			X			X
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA

Date: _____

2nd Level Reviewer JRB 10/24/2024

Date: _____

SAMPLE CALCULATION



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

Sample Calculation

METHOD: EPA 300
TEST NAME: INORGANIC ANIONS BY IC
MATRIX: GROUNDWATER

FORMULA:

Calculate the Nitrate concentration, in mg/L, in the original sample as follows:

$$\text{Nitrate, mg/L} = A * DF$$

where:

A = mg/L, IC calculated concentration
DF = dilution factor

For **N069146-009B** concentration in mg/L is calculated as follows:

$$\begin{aligned}\text{Nitrate, mg/L} &= 0.7789 * 10 \\ &= 7.789\end{aligned}$$

Reporting result in two significant figures,

$$\text{Nitrate, mg/L} = \mathbf{7.8}$$

Reviewed by:

d/Rocha 11/13/2024

ANALYSIS RUN LOG



ASSET LABORATORIES
INTEGRATION • INNOVATION • IMPROVEMENT

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

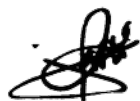
Sequence: IC-08_240923A
Operator: IC-05

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 9

Created: 9/23/2024 11:30:52 AM by IC-05
Last Update: 9/23/2024 3:11:33 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
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2	Std - 0	Standard	2	1000.0	Anions Default	EPA 300_0_240923	Finished
3	Std - 1	Standard	3	1000.0	Anions Default	EPA 300_0_240923	Finished
4	Std - 2	Standard	4	1000.0	Anions Default	EPA 300_0_240923	Finished
5	Std - 3	Standard	5	1000.0	Anions Default	EPA 300_0_240923	Finished
6	Std - 4	Standard	6	1000.0	Anions Default	EPA 300_0_240923	Finished
7	Std - 5	Standard	7	1000.0	Anions Default	EPA 300_0_240923	Finished
8	ICV,ICV,1	Unknown	9	1000.0	Anions Default	EPA 300_0_240923	Finished
9	ICB,ICB,1	Unknown	10	1000.0	Anions Default	EPA 300_0_240923	Finished

Processed by:



9/24/2024

Sequence: IC-08_240923A
Operator: IC-05

Page 2 of 2
Printed: 9/23/2024 11:34:57 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 9

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Last Update: 9/23/2024 3:11:33 PM by IC-05

No.	Name	Inj. Date/Time	Comment
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2	Std - 0	9/23/2024 12:48:09 PM	IBLANK
3	Std - 1	9/23/2024 1:04:27 PM	STD-LOW
4	Std - 2	9/23/2024 1:20:45 PM	STD
5	Std - 3	9/23/2024 1:37:03 PM	STD
6	Std - 4	9/23/2024 1:53:21 PM	STD
7	Std - 5	9/23/2024 2:09:40 PM	STD-HIGH
8	ICV,ICV,1	9/23/2024 2:48:04 PM	ICV, IWST-240920B
9	ICB,ICB,1	9/23/2024 3:04:21 PM	CCB

Sequence: IC-08_241011A
Operator: IC-05

Page 1 of 2
Printed: 10/11/2024 7:34:15 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 34

Created: 10/10/2024 11:30:39 AM by IC-05
Last Update: 10/11/2024 12:18:45 PM by IC-05

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2	Std - 0	Standard	2	1000.0	Anions Default	EPA 300_0_240923	Finished
3	Std - 1	Standard	3	1000.0	Anions Default	EPA 300_0_240923	Finished
4	Std - 2	Standard	4	1000.0	Anions Default	EPA 300_0_240923	Finished
5	Std - 3	Standard	5	1000.0	Anions Default	EPA 300_0_240923	Finished
6	Std - 4	Standard	6	1000.0	Anions Default	EPA 300_0_240923	Finished
7	Std - 5	Standard	7	1000.0	Anions Default	EPA 300_0_240923	Finished
8	BLANK	Unknown	1	1000.0	Anions Default	EPA 300_0_240923	Finished
9	CCV-1,CCV,1	Unknown	2	1000.0	Anions Default	EPA 300_0_240923	Finished
10	CCB-1,CCB,1	Unknown	3	1000.0	Anions Default	EPA 300_0_240923	Finished
11	MB-H2O,MBLK,1	Unknown	4	1000.0	Anions Default	EPA 300_0_240923	Finished
12	LCS-H2O,LCS,1	Unknown	5	1000.0	Anions Default	EPA 300_0_240923	Finished
13	N069146-013B,SAMP,50	Unknown	6	1000.0	Anions Default	EPA 300_0_240923	Finished
14	N069146-013BMS,MS,50	Unknown	7	1000.0	Anions Default	EPA 300_0_240923	Finished
15	N069146-013BMSD,MSD,50	Unknown	8	1000.0	Anions Default	EPA 300_0_240923	Finished
16	N069146-001B,SAMP,50	Unknown	9	1000.0	Anions Default	EPA 300_0_240923	Finished
17	N069146-002B,SAMP,100	Unknown	10	1000.0	Anions Default	EPA 300_0_240923	Finished
18	N069146-007B,SAMP,100	Unknown	11	1000.0	Anions Default	EPA 300_0_240923	Finished
19	N069146-009B,SAMP,100	Unknown	12	1000.0	Anions Default	EPA 300_0_240923	Finished
20	N069146-011B,SAMP,50	Unknown	13	1000.0	Anions Default	EPA 300_0_240923	Finished
21	CCV-2,CCV,1	Unknown	14	1000.0	Anions Default	EPA 300_0_240923	Finished
22	CCB-2,CCB,1	Unknown	15	1000.0	Anions Default	EPA 300_0_240923	Finished
23	N069146-012B,SAMP,50	Unknown	16	1000.0	Anions Default	EPA 300_0_240923	Finished
24	N069147-001B,SAMP,50	Unknown	17	1000.0	Anions Default	EPA 300_0_240923	Finished
25	N069147-002B,SAMP,50	Unknown	18	1000.0	Anions Default	EPA 300_0_240923	Finished
26	N069147-003B,SAMP,50	Unknown	19	1000.0	Anions Default	EPA 300_0_240923	Finished
27	N069147-004B,SAMP,50	Unknown	20	1000.0	Anions Default	EPA 300_0_240923	Finished
28	N069147-005B,SAMP,50	Unknown	21	1000.0	Anions Default	EPA 300_0_240923	Finished
29	N069147-006B,SAMP,5	Unknown	22	1000.0	Anions Default	EPA 300_0_240923	Finished
30	N069147-001BDUP,DUP,50	Unknown	23	1000.0	Anions Default	EPA 300_0_240923	Finished
31	N069147-001BMS,MS,50	Unknown	24	1000.0	Anions Default	EPA 300_0_240923	Finished
32	N069150-008B,SAMP,10	Unknown	25	1000.0	Anions Default	EPA 300_0_240923	Finished
33	CCV-3,CCV,1	Unknown	26	1000.0	Anions Default	EPA 300_0_240923	Finished
34	CCB-3,CCB,1	Unknown	27	1000.0	Anions Default	EPA 300_0_240923	Finished

Processed by:



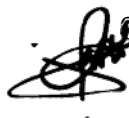
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Operator: IC-05

Page 2 of 2
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Timebase: IC-08_ANIONS
#Samples: 34

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4	Std - 2	9/23/2024 1:20:45 PM	STD
5	Std - 3	9/23/2024 1:37:03 PM	STD
6	Std - 4	9/23/2024 1:53:21 PM	STD
7	Std - 5	9/23/2024 2:09:40 PM	STD-HIGH
8	BLANK	10/11/2024 8:23:05 AM	BLANK
9	CCV-1,CCV,1	10/11/2024 8:39:23 AM	CCV, IWST-241007A
10	CCB-1,CCB,1	10/11/2024 8:55:42 AM	CCB
11	MB-H2O,MBLK,1	10/11/2024 9:12:00 AM	MB
12	LCS-H2O,LCS,1	10/11/2024 9:28:19 AM	LCS, IWST-241007B
13	N069146-013B,SAMP,50	10/11/2024 10:19:54 AM	SAMP,0.2>10mL,
14	N069146-013BMS,MS,50	10/11/2024 10:36:12 AM	MS,0.2>10mL,
15	N069146-013BMSD,MSD,50	10/11/2024 10:52:31 AM	MSD,0.2>10mL,
16	N069146-001B,SAMP,50	10/11/2024 11:08:49 AM	SAMP,0.2>10mL,
17	N069146-002B,SAMP,100	10/11/2024 11:25:07 AM	SAMP,0.1>10mL,
18	N069146-007B,SAMP,100	10/11/2024 11:41:26 AM	SAMP,0.1>10mL,
19	N069146-009B,SAMP,100	10/11/2024 11:57:44 AM	SAMP,0.1>10mL,
20	N069146-011B,SAMP,50	10/11/2024 12:14:03 PM	SAMP,0.2>10mL,
21	CCV-2,CCV,1	10/11/2024 12:30:21 PM	CCV, IWST-241007A
22	CCB-2,CCB,1	10/11/2024 12:46:39 PM	CCB
23	N069146-012B,SAMP,50	10/11/2024 1:02:57 PM	SAMP,0.2>10mL,
24	N069147-001B,SAMP,50	10/11/2024 1:19:16 PM	SAMP,0.2>10mL,
25	N069147-002B,SAMP,50	10/11/2024 1:35:34 PM	SAMP,0.2>10mL,
26	N069147-003B,SAMP,50	10/11/2024 1:51:53 PM	SAMP,0.2>10mL,
27	N069147-004B,SAMP,50	10/11/2024 2:08:11 PM	SAMP,0.2>10mL,
28	N069147-005B,SAMP,50	10/11/2024 2:24:28 PM	SAMP,0.2>10mL,
29	N069147-006B,SAMP,5	10/11/2024 2:40:47 PM	SAMP,2>10mL,
30	N069147-001BDUP,DUP,50	10/11/2024 2:57:05 PM	DUP,0.2>10mL,
31	N069147-001BMS,MS,50	10/11/2024 3:13:23 PM	MS,0.2>10mL,
32	N069150-008B,SAMP,10	10/11/2024 3:29:41 PM	SAMP,1>10mL,
33	CCV-3,CCV,1	10/11/2024 3:45:59 PM	CCV, IWST-241007A
34	CCB-3,CCB,1	10/11/2024 4:02:18 PM	CCB



Sequence: IC-09_240923A
Operator: IC-05

Page 1 of 2
Printed: 9/23/2024 9:59:20 PM

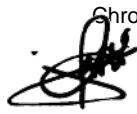
Title:

Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 20

Created: 9/23/2024 11:28:52 AM by IC-05
Last Update: 9/23/2024 4:12:34 PM by IC-05

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3	BLANK	Unknown	4	1000.0	Anions_Default	EPA 300_0_240923A	Finished
4	Std - 0	Standard	6	1000.0	Anions_Default	EPA 300_0_240923A	Finished
5	Std - 1	Standard	7	1000.0	Anions_Default	EPA 300_0_240923A	Finished
6	Std - 2	Standard	8	1000.0	Anions_Default	EPA 300_0_240923A	Finished
7	Std - 3	Standard	9	1000.0	Anions_Default	EPA 300_0_240923A	Finished
8	Std - 4	Standard	10	1000.0	Anions_Default	EPA 300_0_240923A	Finished
9	Std - 5	Standard	11	1000.0	Anions_Default	EPA 300_0_240923A	Finished
10	ICV,ICV,1	Unknown	13	1000.0	Anions_Default	EPA 300_0_240923A	Finished
11	ICB,ICB,1	Unknown	14	1000.0	Anions_Default	EPA 300_0_240923A	Finished
12	MB-SOIL,MBLK,1	Unknown	15	1000.0	Anions_Default	EPA 300_0_240923A	Finished
13	LCS-SOIL,LCS,1	Unknown	16	1000.0	Anions_Default	EPA 300_0_240923A	Finished
14	N068585-001A,SAMP,20	Unknown	18	1000.0	Anions_Default	EPA 300_0_240923A	Finished
15	N068585-001ADUP,DUP,20	Unknown	20	1000.0	Anions_Default	EPA 300_0_240923A	Finished
16	N068585-001AMS,MS,20	Unknown	21	1000.0	Anions_Default	EPA 300_0_240923A	Finished
17	N068585-001AMSD,MSD,20	Unknown	22	1000.0	Anions_Default	EPA 300_0_240923A	Finished
18	N068585-001APS,MS,20	Unknown	23	1000.0	Anions_Default	EPA 300_0_240923A	Finished
19	CCV-1,CCV,1	Unknown	24	1000.0	Anions_Default	EPA 300_0_240923A	Finished
20	CCB-1,CCB,1	Unknown	25	1000.0	Anions_Default	EPA 300_0_240923A	Finished

Processed by:



Chromeleon © Dionex Corporation, Version 6.80 SR10 Build 2818 (166959)

9/23/2024

NV00922-IC9 RBA 9/23/2024 9:59:56 PM

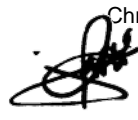
295

Sequence: IC-09_240923A
Operator: IC-05

Page 2 of 2
Printed: 9/23/2024 9:59:20 PM

Title:
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Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
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Last Update: 9/23/2024 4:12:34 PM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	9/23/2024 12:02:01 PM	BLANK
2	BLANK	9/23/2024 12:17:20 PM	BLANK
3	BLANK	9/23/2024 12:33:16 PM	BLANK
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6	Std - 2	9/23/2024 1:31:30 PM	STD
7	Std - 3	9/23/2024 1:47:25 PM	STD
8	Std - 4	9/23/2024 2:03:20 PM	STD
9	Std - 5	9/23/2024 2:19:16 PM	STD-HIGH
10	ICV,ICV,1	9/23/2024 2:35:11 PM	ICV, IWST-240920B
11	ICB,ICB,1	9/23/2024 2:51:07 PM	CCB
12	MB-SOIL,MBLK,1	9/23/2024 3:07:03 PM	MB
13	LCS-SOIL,LCS,1	9/23/2024 3:22:58 PM	LCS, IWST-240920B
14	N068585-001A,SAMP,20	9/23/2024 3:48:29 PM	SAMP,0.5>10mL,
15	N068585-001ADUP,DUP,20	9/23/2024 4:13:18 PM	DUP,0.5>10mL,
16	N068585-001AMS,MS,20	9/23/2024 4:29:14 PM	MS,0.5>10mL,
17	N068585-001AMSD,MSD,20	9/23/2024 4:45:09 PM	MSD,0.5>10mL,
18	N068585-001APS,MS,20	9/23/2024 5:01:05 PM	PS,0.5>10mL,
19	CCV-1,CCV,1	9/23/2024 5:17:00 PM	CCV, IWST-240920A
20	CCB-1,CCB,1	9/23/2024 5:32:55 PM	CCB



Sequence: IC-09_241011A
Operator: IC-05

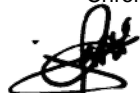
Page 1 of 4
Printed: 10/13/2024 10:22:40 PM

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Timebase: ICS-2000_PERC
#Samples: 72
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Last Update: 10/12/2024 6:18:11 AM by IC-05

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2	BLANK	Unknown	2	1000.0	Anions_Default	EPA 300_0_240923A	Finished
3	BLANK	Unknown	4	1000.0	Anions_Default	EPA 300_0_240923A	Finished
4	Std - 0	Standard	6	1000.0	Anions_Default	EPA 300_0_240923A	Finished
5	Std - 1	Standard	7	1000.0	Anions_Default	EPA 300_0_240923A	Finished
6	Std - 2	Standard	8	1000.0	Anions_Default	EPA 300_0_240923A	Finished
7	Std - 3	Standard	9	1000.0	Anions_Default	EPA 300_0_240923A	Finished
8	Std - 4	Standard	10	1000.0	Anions_Default	EPA 300_0_240923A	Finished
9	Std - 5	Standard	11	1000.0	Anions_Default	EPA 300_0_240923A	Finished
10	BLANK	Unknown	1	1000.0	Anions_Default	EPA 300_0_240923A	Finished
11	CCV-1,CCV,1	Unknown	2	1000.0	Anions_Default	EPA 300_0_240923A	Finished
12	CCB-1,CCB,1	Unknown	3	1000.0	Anions_Default	EPA 300_0_240923A	Finished
13	MB-H2O,MBLK,1	Unknown	4	1000.0	Anions_Default	EPA 300_0_240923A	Finished
14	LCS-H2O,LCS,1	Unknown	5	1000.0	Anions_Default	EPA 300_0_240923A	Finished
15	N069146-013B,SAMP,10	Unknown	6	1000.0	Anions_Default	EPA 300_0_240923A	Finished
16	N069146-013BMS,MS,10	Unknown	7	1000.0	Anions_Default	EPA 300_0_240923A	Finished
17	N069146-013BMSD,MSD,10	Unknown	8	1000.0	Anions_Default	EPA 300_0_240923A	Finished
18	N069147-002B,SAMP,10	Unknown	9	1000.0	Anions_Default	EPA 300_0_240923A	Finished
19	N069147-006B,SAMP,10	Unknown	10	1000.0	Anions_Default	EPA 300_0_240923A	Finished
20	N069146-003B,SAMP,10	Unknown	11	1000.0	Anions_Default	EPA 300_0_240923A	Finished
21	N069146-005B,SAMP,10	Unknown	12	1000.0	Anions_Default	EPA 300_0_240923A	Finished
22	N069146-006B,SAMP,10	Unknown	13	1000.0	Anions_Default	EPA 300_0_240923A	Finished
23	CCV-2,CCV,1	Unknown	14	1000.0	Anions_Default	EPA 300_0_240923A	Finished
24	CCB-2,CCB,1	Unknown	15	1000.0	Anions_Default	EPA 300_0_240923A	Finished
25	N069146-007B,SAMP,10	Unknown	16	1000.0	Anions_Default	EPA 300_0_240923A	Finished
26	N069146-009B,SAMP,10	Unknown	17	1000.0	Anions_Default	EPA 300_0_240923A	Finished
27	N069146-011B,SAMP,10	Unknown	18	1000.0	Anions_Default	EPA 300_0_240923A	Finished
28	N069146-012B,SAMP,10	Unknown	1	1000.0	Anions_Default	EPA 300_0_240923A	Finished
29	N069146-001B,SAMP,10	Unknown	2	1000.0	Anions_Default	EPA 300_0_240923A	Finished
30	N069146-002B,SAMP,10	Unknown	3	1000.0	Anions_Default	EPA 300_0_240923A	Finished
31	N069147-001B,SAMP,10	Unknown	4	1000.0	Anions_Default	EPA 300_0_240923A	Finished
32	N069147-003B,SAMP,10	Unknown	5	1000.0	Anions_Default	EPA 300_0_240923A	Finished
33	N069147-004B,SAMP,10	Unknown	6	1000.0	Anions_Default	EPA 300_0_240923A	Finished
34	N069147-005B,SAMP,10	Unknown	7	1000.0	Anions_Default	EPA 300_0_240923A	Finished
35	CCV-3,CCV,1	Unknown	8	1000.0	Anions_Default	EPA 300_0_240923A	Finished
36	CCB-3,CCB,1	Unknown	9	1000.0	Anions_Default	EPA 300_0_240923A	Finished
37	N069147-001BDUP,DUP,10	Unknown	10	1000.0	Anions_Default	EPA 300_0_240923A	Finished
38	N069147-001BMS,MS,10	Unknown	11	1000.0	Anions_Default	EPA 300_0_240923A	Finished
39	N069147-006B,SAMP,5	Unknown	12	1000.0	Anions_Default	EPA 300_0_240923A	Finished
40	MB-2,MBLK,1	Unknown	13	1000.0	Anions_Default	EPA 300_0_240923A	Finished
41	LCS-2,LCS,1	Unknown	14	1000.0	Anions_Default	EPA 300_0_240923A	Finished

Processed by:

Chromleon © Dionex Corporation, Version 6.80 SR10 Build 2818 (166959)



10/13/2024

NV00922-IC9 RBA 10/13/2024 10:27:20 PM

297

Sequence: IC-09_241011A
Operator: IC-05

Page 2 of 4
Printed: 10/13/2024 10:22:40 PM

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 72
Created: 10/10/2024 11:31:09 AM by IC-05
Last Update: 10/12/2024 6:18:11 AM by IC-05

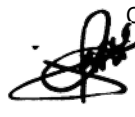
No.	Name	Inj. Date/Time	Comment
1	BLANK	9/23/2024 12:02:01 PM	BLANK
2	BLANK	9/23/2024 12:17:20 PM	BLANK
3	BLANK	9/23/2024 12:33:16 PM	BLANK
4	Std - 0	9/23/2024 12:59:38 PM	IBLANK
5	Std - 1	9/23/2024 1:15:34 PM	STD-LOW
6	Std - 2	9/23/2024 1:31:30 PM	STD
7	Std - 3	9/23/2024 1:47:25 PM	STD
8	Std - 4	9/23/2024 2:03:20 PM	STD
9	Std - 5	9/23/2024 2:19:16 PM	STD-HIGH
10	BLANK	10/11/2024 9:14:49 AM	BLANK
11	CCV-1,CCV,1	10/11/2024 9:30:07 AM	CCV, IWST-241007A
12	CCB-1,CCB,1	10/11/2024 9:46:03 AM	CCB
13	MB-H2O,MBLK,1	10/11/2024 10:02:00 AM	MB
14	LCS-H2O,LCS,1	10/11/2024 10:17:56 AM	LCS, IWST-241007B
15	N069146-013B,SAMP,10	10/11/2024 10:33:53 AM	SAMP,1>10mL,
16	N069146-013BMS,MS,10	10/11/2024 10:49:49 AM	MS,1>10mL,
17	N069146-013BMSD,MSD,10	10/11/2024 11:05:45 AM	MSD,1>10mL,
18	N069147-002B,SAMP,10	10/11/2024 11:21:40 AM	SAMP,1>10mL,
19	N069147-006B,SAMP,10	10/11/2024 11:37:37 AM	SAMP,1>10mL,
20	N069146-003B,SAMP,10	10/11/2024 11:53:32 AM	SAMP,1>10mL,
21	N069146-005B,SAMP,10	10/11/2024 12:09:28 PM	SAMP,1>10mL,
22	N069146-006B,SAMP,10	10/11/2024 12:25:24 PM	SAMP,1>10mL,
23	CCV-2,CCV,1	10/11/2024 12:41:20 PM	CCV, IWST-241007A
24	CCB-2,CCB,1	10/11/2024 12:57:16 PM	CCB
25	N069146-007B,SAMP,10	10/11/2024 1:13:11 PM	SAMP,1>10mL,
26	N069146-009B,SAMP,10	10/11/2024 1:29:07 PM	SAMP,1>10mL,
27	N069146-011B,SAMP,10	10/11/2024 1:45:03 PM	SAMP,1>10mL,
28	N069146-012B,SAMP,10	10/11/2024 2:09:07 PM	SAMP,1>10mL,
29	N069146-001B,SAMP,10	10/11/2024 2:24:26 PM	SAMP,1>10mL,
30	N069146-002B,SAMP,10	10/11/2024 2:40:21 PM	SAMP,1>10mL,
31	N069147-001B,SAMP,10	10/11/2024 2:56:17 PM	SAMP,1>10mL,
32	N069147-003B,SAMP,10	10/11/2024 3:12:13 PM	SAMP,1>10mL,
33	N069147-004B,SAMP,10	10/11/2024 3:28:09 PM	SAMP,1>10mL,
34	N069147-005B,SAMP,10	10/11/2024 3:44:05 PM	SAMP,1>10mL,
35	CCV-3,CCV,1	10/11/2024 4:00:01 PM	CCV, IWST-241007A
36	CCB-3,CCB,1	10/11/2024 4:15:58 PM	CCB
37	N069147-001BDUP,DUP,10	10/11/2024 4:31:54 PM	DUP,1>10mL,
38	N069147-001BMS,MS,10	10/11/2024 4:47:50 PM	MS,1>10mL,
39	N069147-006B,SAMP,5	10/11/2024 5:03:46 PM	SAMP,2>10mL,
40	MB-2,MBLK,1	10/11/2024 5:19:42 PM	MB
41	LCS-2,LCS,1	10/11/2024 5:35:38 PM	LCS, IWST-241007B

Reviewed by:

Sequence: IC-09_241011A
Operator: IC-05

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 72
Created: 10/10/2024 11:31:09 AM by IC-05
Last Update: 10/12/2024 6:18:11 AM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
42	N069148-002B,SAMP,2	Unknown	15	1000.0	Anions_Default	EPA 300_0_240923A	Finished
43	N069148-011B,SAMP,5	Unknown	16	1000.0	Anions_Default	EPA 300_0_240923A	Finished
44	N069148-003B,SAMP,2	Unknown	17	1000.0	Anions_Default	EPA 300_0_240923A	Finished
45	N069148-004B,SAMP,5	Unknown	18	1000.0	Anions_Default	EPA 300_0_240923A	Finished
46	N069148-007B,SAMP,5	Unknown	19	1000.0	Anions_Default	EPA 300_0_240923A	Finished
47	CCV-4,CCV,1	Unknown	20	1000.0	Anions_Default	EPA 300_0_240923A	Finished
48	CCB-4,CCB,1	Unknown	21	1000.0	Anions_Default	EPA 300_0_240923A	Finished
49	N069148-008B,SAMP,5	Unknown	22	1000.0	Anions_Default	EPA 300_0_240923A	Finished
50	N069148-009B,SAMP,10	Unknown	23	1000.0	Anions_Default	EPA 300_0_240923A	Finished
51	N069148-010B,SAMP,10	Unknown	24	1000.0	Anions_Default	EPA 300_0_240923A	Finished
52	N069148-012B,SAMP,5	Unknown	25	1000.0	Anions_Default	EPA 300_0_240923A	Finished
53	N069148-013B,SAMP,5	Unknown	26	1000.0	Anions_Default	EPA 300_0_240923A	Finished
54	N069150-001B,SAMP,20	Unknown	27	1000.0	Anions_Default	EPA 300_0_240923A	Finished
55	N069150-006B,SAMP,2	Unknown	28	1000.0	Anions_Default	EPA 300_0_240923A	Finished
56	N069150-007B,SAMP,2	Unknown	29	1000.0	Anions_Default	EPA 300_0_240923A	Finished
57	N069150-008B,SAMP,2	Unknown	30	1000.0	Anions_Default	EPA 300_0_240923A	Finished
58	N069149-007B,SAMP,10	Unknown	31	1000.0	Anions_Default	EPA 300_0_240923A	Finished
59	CCV-5,CCV,1	Unknown	32	1000.0	Anions_Default	EPA 300_0_240923A	Finished
60	CCB-5,CCB,1	Unknown	33	1000.0	Anions_Default	EPA 300_0_240923A	Finished
61	N069149-008B,SAMP,10	Unknown	34	1000.0	Anions_Default	EPA 300_0_240923A	Finished
62	N069148-002BMS,MS,2	Unknown	35	1000.0	Anions_Default	EPA 300_0_240923A	Finished
63	N069148-002BMSD,MSD,2	Unknown	36	1000.0	Anions_Default	EPA 300_0_240923A	Finished
64	N069148-011BDUP,DUP,5	Unknown	37	1000.0	Anions_Default	EPA 300_0_240923A	Finished
65	N069148-011BMS,MS,5	Unknown	38	1000.0	Anions_Default	EPA 300_0_240923A	Finished
66	CCV-6,CCV,1	Unknown	39	1000.0	Anions_Default	EPA 300_0_240923A	Finished
67	CCB-6,CCB,1	Unknown	40	1000.0	Anions_Default	EPA 300_0_240923A	Finished
68	MB-2,MBLK,1	Unknown	1	1000.0	Anions_Default	EPA 300_0_240923A	Finished
69	N069150-001BMS,MS,20	Unknown	3	1000.0	Anions_Default	EPA 300_0_240923A	Finished
70	N069150-001BMSD,MSD,20	Unknown	4	1000.0	Anions_Default	EPA 300_0_240923A	Finished
71	CCV-7,CCV,1	Unknown	5	1000.0	Anions_Default	EPA 300_0_240923A	Finished
72	CCB-7,CCB,1	Unknown	6	1000.0	Anions_Default	EPA 300_0_240923A	Finished

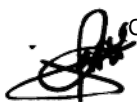


Sequence: IC-09_241011A
Operator: IC-05

Page 4 of 4
Printed: 10/13/2024 10:22:40 PM

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 72
Created: 10/10/2024 11:31:09 AM by IC-05
Last Update: 10/12/2024 6:18:11 AM by IC-05

No.	Name	Inj. Date/Time	Comment
42	N069148-002B,SAMP,2	10/11/2024 5:51:34 PM	SAMP,5>10mL,
43	N069148-011B,SAMP,5	10/11/2024 6:07:31 PM	SAMP,2>10mL,
44	N069148-003B,SAMP,2	10/11/2024 6:23:27 PM	SAMP,0.5>10mL,
45	N069148-004B,SAMP,5	10/11/2024 6:39:23 PM	SAMP,0.02>10mL,
46	N069148-007B,SAMP,5	10/11/2024 6:55:19 PM	SAMP,2>10mL,
47	CCV-4,CCV,1	10/11/2024 7:11:16 PM	CCV, IWST-241007A
48	CCB-4,CCB,1	10/11/2024 7:27:11 PM	CCB
49	N069148-008B,SAMP,5	10/11/2024 7:43:07 PM	SAMP,2>10mL,
50	N069148-009B,SAMP,10	10/11/2024 7:59:03 PM	SAMP,1>10mL,
51	N069148-010B,SAMP,10	10/11/2024 8:14:58 PM	SAMP,1>10mL,
52	N069148-012B,SAMP,5	10/11/2024 8:30:54 PM	SAMP,2>10mL,
53	N069148-013B,SAMP,5	10/11/2024 8:46:50 PM	SAMP,2>10mL,
54	N069150-001B,SAMP,20	10/11/2024 9:02:46 PM	SAMP,0.5>10mL,
55	N069150-006B,SAMP,2	10/11/2024 9:18:42 PM	SAMP,5>10mL,
56	N069150-007B,SAMP,2	10/11/2024 9:34:38 PM	SAMP,5>10mL,
57	N069150-008B,SAMP,2	10/11/2024 9:50:34 PM	SAMP,5>10mL,
58	N069149-007B,SAMP,10	10/11/2024 10:06:31 PM	SAMP,1>10mL,
59	CCV-5,CCV,1	10/11/2024 10:22:27 PM	CCV, IWST-241007A
60	CCB-5,CCB,1	10/11/2024 10:38:23 PM	CCB
61	N069149-008B,SAMP,10	10/11/2024 10:54:19 PM	SAMP,1>10mL,
62	N069148-002BMS,MS,2	10/11/2024 11:10:15 PM	MS,5>10mL,
63	N069148-002BMSD,MSD,2	10/11/2024 11:26:11 PM	MSD,5>10mL,
64	N069148-011BDUP,DUP,5	10/11/2024 11:42:07 PM	DUP,2>10mL,
65	N069148-011BMS,MS,5	10/11/2024 11:58:03 PM	MS,2>10mL,
66	CCV-6,CCV,1	10/12/2024 12:14:00 AM	CCV, IWST-241007A
67	CCB-6,CCB,1	10/12/2024 12:29:56 AM	CCB
68	MB-2,MBLK,1	10/12/2024 5:51:54 AM	MB
69	N069150-001BMS,MS,20	10/12/2024 6:18:14 AM	MS,0.5>10mL,
70	N069150-001BMSD,MSD,20	10/12/2024 6:34:10 AM	MSD,0.5>10mL,
71	CCV-7,CCV,1	10/12/2024 6:50:06 AM	CCV, IWST-241007A
72	CCB-7,CCB,1	10/12/2024 7:06:02 AM	CCB



INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
INTEGRATION OF SURVEILLANCE, ANALYTICAL, & TESTING SERVICES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

(EPA 300) - INITIAL CALIBRATION

Instrument ID: NV00922-IC9

Date Calibrated: 9/23/2024

Initial Calibration:

Nitrate	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in mg/L	0	0.05	0.25	0.5	1.25	2.5	R ²
Area,mAU*min	0.0000	0.0194	0.0962	0.1883	0.4778	0.9820	1.000
Measured, in mg/L	0.000000	0.061700	0.257000	0.491400	1.228300	2.511600	
Relative Error (%RE)		23.4%		-1.7%			

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST-240705D

Calibration Acceptance Criteria: > 0.995 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

(EPA 300) - INITIAL CALIBRATION

Instrument ID: NV00922-IC8
Date Calibrated: 9/23/2024

Initial Calibration:

Sulfate	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in mg/L	0	0.5	2	4	10	20	R ²
Area,mAU*min	0.0000	0.0533	0.2096	0.4173	1.0805	2.2596	0.999
Measured, in mg/L	0.000000	0.675700	2.054500	3.887600	9.739100	20.143100	
Relative Error (%RE)		35.1%		-2.8%			

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST-240705F

Calibration Acceptance Criteria: > 0.995 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places.
The exact values are represented in the ICAL summary for calculation purposes.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
INTEGRATION • INNOVATION • IMPROVEMENT

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID ICV	SampType: ICV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 194191						
Client ID: ICV	Batch ID: R194191	TestNo: EPA 300.0	Analysis Date: 9/23/2024	SeqNo: 6226999							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.989	0.50	4.000	0	99.7	90	110				

Sample ID CCV-1	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 194191						
Client ID: CCV	Batch ID: R194191	TestNo: EPA 300.0	Analysis Date: 10/11/2024	SeqNo: 6227001							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.946	0.50	4.000	0	98.6	90	110				

Sample ID CCV-2	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 194191						
Client ID: CCV	Batch ID: R194191	TestNo: EPA 300.0	Analysis Date: 10/11/2024	SeqNo: 6227013							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.906	0.50	4.000	0	97.6	90	110				

Sample ID CCV-3	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 194191						
Client ID: CCV	Batch ID: R194191	TestNo: EPA 300.0	Analysis Date: 10/11/2024	SeqNo: 6227025							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.885	0.50	4.000	0	97.1	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID ICV	SampType: ICV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194197						
Client ID: ICV	Batch ID: R194197	TestNo: EPA 300.0		Analysis Date: 9/23/2024	SeqNo: 6227119						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.229	0.050	1.250	0	98.3	90	110				

Sample ID CCV-1	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194197						
Client ID: CCV	Batch ID: R194197	TestNo: EPA 300.0		Analysis Date: 10/11/2024	SeqNo: 6227121						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.241	0.050	1.250	0	99.3	90	110				

Sample ID CCV-2	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194197						
Client ID: CCV	Batch ID: R194197	TestNo: EPA 300.0		Analysis Date: 10/11/2024	SeqNo: 6227133						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.236	0.050	1.250	0	98.9	90	110				

Sample ID CCV-3	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194197						
Client ID: CCV	Batch ID: R194197	TestNo: EPA 300.0		Analysis Date: 10/11/2024	SeqNo: 6227145						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.277	0.050	1.250	0	102	90	110				

Sample ID CCV-4	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194197						
Client ID: CCV	Batch ID: R194197	TestNo: EPA 300.0		Analysis Date: 10/11/2024	SeqNo: 6227150						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.246	0.050	1.250	0	99.6	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL INSTRUMENTATION

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID ICB	SampType: ICB	TestCode: 300_W_SO4P Units: mg/L	Prep Date:	RunNo: 194191							
Client ID: ICB	Batch ID: R194191	TestNo: EPA 300.0	Analysis Date: 9/23/2024	SeqNo: 6227000							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	0.50									

Sample ID CCB-1	SampType: CCB	TestCode: 300_W_SO4P Units: mg/L	Prep Date:	RunNo: 194191							
Client ID: CCB	Batch ID: R194191	TestNo: EPA 300.0	Analysis Date: 10/11/2024	SeqNo: 6227002							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	0.50									

Sample ID CCB-2	SampType: CCB	TestCode: 300_W_SO4P Units: mg/L	Prep Date:	RunNo: 194191							
Client ID: CCB	Batch ID: R194191	TestNo: EPA 300.0	Analysis Date: 10/11/2024	SeqNo: 6227014							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	0.50									

Sample ID CCB-3	SampType: CCB	TestCode: 300_W_SO4P Units: mg/L	Prep Date:	RunNo: 194191							
Client ID: CCB	Batch ID: R194191	TestNo: EPA 300.0	Analysis Date: 10/11/2024	SeqNo: 6227026							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	0.50									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID ICB	SampType: ICB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194197						
Client ID: ICB	Batch ID: R194197	TestNo: EPA 300.0		Analysis Date: 9/23/2024	SeqNo: 6227120						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	ND	0.050									

Sample ID CCB-1	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194197						
Client ID: CCB	Batch ID: R194197	TestNo: EPA 300.0		Analysis Date: 10/11/2024	SeqNo: 6227122						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	ND	0.050									

Sample ID CCB-2	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194197						
Client ID: CCB	Batch ID: R194197	TestNo: EPA 300.0		Analysis Date: 10/11/2024	SeqNo: 6227134						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	ND	0.050									

Sample ID CCB-3	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194197						
Client ID: CCB	Batch ID: R194197	TestNo: EPA 300.0		Analysis Date: 10/11/2024	SeqNo: 6227146						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	ND	0.050									

Sample ID CCB-4	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194197						
Client ID: CCB	Batch ID: R194197	TestNo: EPA 300.0		Analysis Date: 10/11/2024	SeqNo: 6227151						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	ND	0.050									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

RETENTION TIME SUMMARY



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RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC8

Analytical Sequence

Date Analyzed: 10/11/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Sulfate 10.864	
CCV-1	Sulfate 10.474	
CCV-2	Sulfate 10.467	
CCV-3	Sulfate 10.510	

Average 10.484
Applied RT Window 10.284 - 10.684

MB-R194191_SO4	Sulfate	10.547	PASS
LCS-R194191_SO4	Sulfate	10.477	PASS
N069146-013B	Sulfate	10.464	PASS
N069146-013BMS	Sulfate	10.467	PASS
N069146-013BMSD	Sulfate	10.467	PASS
N069146-001B	Sulfate	10.467	PASS
N069146-002B	Sulfate	10.460	PASS
N069146-007B	Sulfate	10.467	PASS
N069146-009B	Sulfate	10.467	PASS
N069146-011B	Sulfate	10.467	PASS
N069146-012B	Sulfate	10.460	PASS
N069147-001BDUP	Sulfate	10.467	PASS
N069147-001BMS	Sulfate	10.517	PASS

Reviewed by:

d/Rocha 11/13/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC9

Analytical Sequence

Date Analyzed: 10/11/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Nitrate 6.881	
CCV-1	Nitrate 6.804	
CCV-2	Nitrate 6.784	
CCV-3	Nitrate 6.801	
CCV-4	Nitrate 6.821	

Average 6.803
Applied RT Window 6.603 - 7.003

MB-R194197_NO3	Nitrate	N.A.	N.A.
LCS-R194197_NO3	Nitrate	6.817	PASS
N069146-013B	Nitrate	6.797	PASS
N069146-013BMS	Nitrate	6.797	PASS
N069146-013BMSD	Nitrate	6.797	PASS
N069146-003C	Nitrate	6.781	PASS
N069146-005C	Nitrate	N.A.	N.A.
N069146-006C	Nitrate	6.777	PASS
N069146-007B	Nitrate	N.A.	N.A.
N069146-009B	Nitrate	6.777	PASS
N069146-011B	Nitrate	N.A.	N.A.
N069146-012B	Nitrate	N.A.	N.A.
N069146-001B	Nitrate	N.A.	N.A.
N069146-002B	Nitrate	N.A.	N.A.
N069147-001BDUP	Nitrate	N.A.	N.A.
N069147-001BMS	Nitrate	6.801	PASS

Reviewed by:

d/Rocha 11/13/2024

MDL STUDY



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METHOD DETECTION LIMIT (Spiked)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): 10/5/2022, 12/14/2022, 3/22/2023, 7/10/2023; 10/3/2023 & 11/14/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: mg/L

Instrument Name: **IC-08 & IC-09**

Datafile IC-08 221005A #24 IC-08 221214A #30 IC-08 230322A #35 IC-08 230710A #13 IC-09 231003A #14 IC-08 231114A #24 IC-09 231114A #19

Analyte	#1	#2	#3	#4	#5	#6	#7	Spike Conc., mg/L	SD	t _(n-1) value	MDLs	MDL	PQL
Fluoride	0.100	0.103	0.108	0.118	0.110	0.098	0.126	0.10	0.0101	3.143	0.0318	0.0318	0.10
Chloride	0.480	0.418	0.472	0.653	0.624	0.587	0.622	0.50	0.0922	3.143	0.2898	0.2898	0.50
Nitrite	0.068	0.061	0.060	0.071	0.063	0.061	0.070	0.05	0.0047	3.143	0.0149	0.0149	0.05
Bromide	0.526	0.502	0.509	0.522	0.536	0.527	0.520	0.50	0.0116	3.143	0.0364	0.0364	0.50
Nitrate	0.073	0.058	0.059	0.073	0.074	0.068	0.073	0.05	0.0068	3.143	0.0215	0.0240	0.05
Phosphate	0.112	0.096	0.114	0.120	0.130	0.093	0.124	0.10	0.0138	3.143	0.0433	0.0433	0.10
Sulfate	0.501	0.609	0.638	0.401	0.704	0.620	0.697	0.50	0.1092	3.143	0.3432	0.3432	0.50

METHOD DETECTION LIMIT (Blanks)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Analyte	MDLb	# of Records
Fluoride	0	63
Chloride	0.1456	80
Nitrite	0.0147	64
Bromide	0	18
Nitrate	0.0240	132
Phosphate	0.0237	34
Sulfate	0.2579	107

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

EPA 6010B Dissolved



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315



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW: 113210
QC Batch Number: 113120
ASSET #: N069146

Instrument ID: NV00922-ICP4
Analyst: DBJ

Date Analyzed: 10/11/2024

Method:
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)			X			X
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
2nd Level Reviewer

Date: _____
Date: 10/27/2024

SAMPLE CALCULATION



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SAMPLE CALCULATION

METHOD: EPA 6010B
TEST NAME: Heavy Metals by ICP
MATRIX: Groundwater

FORMULA:

Calculate the Iron concentration, in ug/L, in the original sample as follows:

$$\text{Iron, ug/L} = A * DF * PF * CF$$

where:

A = mg/L, calculated concentration

DF = Dilution Factor

PF = Final Volume of Digestate, mL / Amount of Sample, mL

CF= Conversion Factor from mg/L to ug/L, 1000

For Sample **N069146-001C**, the concentration in ug/L is calculated as follows:

$$\text{Iron, ug/L} = 0.17982 * 1 * (25/25) * 1000$$

$$\text{Iron, ug/L} = 179.82$$

Reporting results in two significant figures,

$$\text{Iron, ug/L} = \mathbf{180}$$

Reviewed by:

MRecha 11/13/2024

% RSD SUMMARY



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RSD SUMMARY: 241011A

Instrument ID: NV00922-ICP4

PQL: 0.02 mg/L

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
Blank	BLK	1	Fe	0	-	15	PASS
Standard 1	ICAL	1	Fe	0.02	-	15	PASS
Standard 2	ICAL	1	Fe	0.05	-	15	PASS
Standard 3	ICAL	1	Fe	2	-	15	PASS
Standard 4	ICAL	1	Fe	5	-	15	PASS
Standard 5	ICAL	1	Fe	7.5	-	15	PASS
Standard 6	ICAL	1	Fe	10	-	15	PASS
Standard 7	ICAL	1	Fe	0	-	15	PASS
ICV	ICV	1	Fe	10.13955	0.20	15	PASS
ICB	ICB	1	Fe	-0.00235	6.13	15	PASS
LLCCV1	CCV1	1	Fe	0.01634	0.03	20	PASS
LLCCV2	CCV1	1	Fe	0.40049	0.15	20	PASS
ICSA1	ICSA	1	Fe	10.26486	0.25	15	PASS
ICSAB1	ICSAB	1	Fe	10.01126	0.11	15	PASS
LLCCV1	CCV1	1	Fe	0.01643	0.76	20	PASS
CCV1	CCV	1	Fe	10.08869	0.05	15	PASS
CCB1	CCB	1	Fe	-0.0006	9.38	15	PASS
CCV2	CCV	1	Fe	10.08763	0.13	15	PASS
CCB2	CCB	1	Fe	0.00066	80.57	15	< PQL
CCV3	CCV	1	Fe	10.08103	0.09	15	PASS
CCB3	CCB	1	Fe	0.00086	56.79	15	< PQL
ICSA2	ICSA	1	Fe	10.19222	1.22	15	PASS
ICSAB2	ICSAB	1	Fe	9.94509	0.04	15	PASS
CCV4	CCV	1	Fe	10.00516	0.07	15	PASS
CCB4	CCB	1	Fe	-0.00098	5.96	15	PASS
CCV5	CCV	1	Fe	10.04066	0.19	15	PASS
CCB5	CCB	1	Fe	-0.00006	241.04	15	< PQL
CCV6	CCV	1	Fe	10.03592	0.05	15	PASS
CCB6	CCB	1	Fe	0.00001	2131.90	15	< PQL
CCV7	CCV	1	Fe	10.03322	0.05	15	PASS
CCB7	CCB	1	Fe	0.00012	368.79	15	< PQL
ICSA3	ICSA	1	Fe	10.16017	0.14	15	PASS
ICSAB3	ICSAB	1	Fe	9.90847	0.09	15	PASS
CCV8	CCV	1	Fe	9.98405	0.06	15	PASS
CCB8	CCB	1	Fe	-0.0019	1.92	15	PASS
CCV9	CCV	1	Fe	9.97508	0.01	15	PASS
CCB9	CCB	1	Fe	-0.00197	6.33	15	PASS
MB-113210	MBLK	1	Fe	0.0059	1.54	15	PASS
LCS-113210	LCS	1	Fe	0.10984	0.24	15	PASS
N069146-001C	SAMP	1	Fe	0.17982	0.07	15	PASS
N069146-002C	SAMP	1	Fe	0.08735	0.01	15	PASS

RSD SUMMARY: 241011A

Instrument ID: NV00922-ICP4

PQL: 0.02 mg/L

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
N069146-005B	SAMP	1	Fe	6.78591	0.08	15	PASS
N069146-006B	SAMP	1	Fe	6.76812	0.19	15	PASS
N069146-007C	SAMP	1	Fe	2.49079	0.11	15	PASS
N069146-009C	SAMP	1	Fe	0.00198	8.02	15	PASS
N069146-011C	SAMP	1	Fe	0.0192	0.96	15	PASS
N069146-012C	SAMP	1	Fe	0.01562	0.86	15	PASS
CCV10	CCV	1	Fe	9.96752	0.10	15	PASS
CCB10	CCB	1	Fe	-0.00196	8.02	15	PASS
N069146-013C	SAMP	1	Fe	0.01321	1.35	15	PASS
N069146-013C	SAMP	5	Fe	-0.00101	2.53	15	PASS
N069146-013C-PS	PS	1	Fe	0.12023	0.28	15	PASS
N069146-013CMS	MS	1	Fe	0.11597	0.25	15	PASS
N069146-013CMSD	MSD	1	Fe	0.1216	0.23	15	PASS
N069147-001C	SAMP	1	Fe	0.0152	0.87	15	PASS
N069147-002C	SAMP	1	Fe	0.43499	0.05	15	PASS
N069147-003C	SAMP	1	Fe	0.10781	0.51	15	PASS
N069147-004C	SAMP	1	Fe	0.24186	0.09	15	PASS
N069147-005C	SAMP	1	Fe	0.32958	0.11	15	PASS
CCV11	CCV	1	Fe	9.94668	0.11	15	PASS
CCB11	CCB	1	Fe	-0.00175	2.37	15	PASS
N069147-006C	SAMP	1	Fe	0.0297	0.94	15	PASS
N069148-001B	SAMP	1	Fe	0.004	3.08	15	PASS
N069148-002C	SAMP	1	Fe	10.57732	0.19	15	PASS
N069148-003E	SAMP	1	Fe	0.34543	0.22	15	PASS
N069148-004C	SAMP	1	Fe	0.97425	0.22	15	PASS
N069148-005B	SAMP	1	Fe	0.01706	0.83	15	PASS
CCV12	CCV	1	Fe	9.94979	0.09	15	PASS
CCB12	CCB	1	Fe	-0.00215	4.86	15	PASS
CCV13	CCV	1	Fe	9.95847	0.07	15	PASS
CCB13	CCB	1	Fe	-0.00214	7.09	15	PASS
CCV14	CCV	1	Fe	9.95093	0.04	15	PASS
CCB14	CCB	1	Fe	-0.00206	7.44	15	PASS
ICSA4	ICSA	1	Fe	10.10283	0.41	15	PASS
ICSA B4	ICSAB	1	Fe	9.84208	0.05	15	PASS

ANALYSIS RUN LOG



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INJECTION LOG: 241011A

Instrument ID: NV00922-ICP4

STANDARD CODE	
Standard1	MWST-240820N, 0.5<50mL
Standard2	MWST-240820O
Standard3	MWST-240820P, 5<50mL
Standard4	MWST-240820P, 12.5<50mL
Standard5	MWST-240820P, 15<40mL
Standard6	MWST-240820P, 25<50mL
Standard7	MWST-240820P
ICV	MWST-240820AG
CCV	MWST-240820P, 25<50mL
ICSA/ICSAB	MWST-240820Q / MWST-240820R
Int. Std	MSST-240801A/240801B
PS Spike	MWST-240820Y/Z/AA

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
1	Blank	BLK	1	10/11/2024	8:47:25 PM
2	Standard 1	ICAL	1	10/11/2024	8:49:42 PM
3	Standard 2	ICAL	1	10/11/2024	8:51:59 PM
4	Standard 3	ICAL	1	10/11/2024	8:54:16 PM
5	Standard 4	ICAL	1	10/11/2024	8:56:33 PM
6	Standard 5	ICAL	1	10/11/2024	8:58:51 PM
7	Standard 6	ICAL	1	10/11/2024	9:01:07 PM
8	Standard 7	ICAL	1	10/11/2024	9:03:24 PM
9	ICV	ICV	1	10/11/2024	9:13:10 PM
10	ICB	ICB	1	10/11/2024	9:15:27 PM
11	LLCCV1	CCV1	1	10/11/2024	9:17:44 PM
12	LLCCV2	CCV1	1	10/11/2024	9:20:02 PM
13	ICSA1	ICSA	1	10/11/2024	9:22:19 PM
14	ICSAB1	ICSAB	1	10/11/2024	9:24:36 PM
15	LLCCV1	CCV1	1	10/11/2024	9:26:35 PM
16	MB-113207	MBLK	1	10/11/2024	9:34:28 PM
17	LCS-113207	LCS	1	10/11/2024	9:36:45 PM
18	N069135-001A	SAMP	1	10/11/2024	9:39:02 PM
19	N069135-002A	SAMP	1	10/11/2024	9:41:19 PM
20	N069135-003A	SAMP	1	10/11/2024	9:43:36 PM
21	N069136-001A	SAMP	1	10/11/2024	9:45:53 PM
22	N069136-001A	SAMP	5	10/11/2024	9:48:11 PM
23	N069136-001A-PS	PS	1	10/11/2024	9:50:29 PM
24	N069136-001A-MS	MS	1	10/11/2024	9:52:46 PM
25	N069136-001A-MSD	MSD	1	10/11/2024	9:55:03 PM
26	CCV1	CCV	1	10/11/2024	9:57:20 PM
27	CCB1	CCB	1	10/11/2024	9:59:36 PM
28	N069136-002A	SAMP	1	10/11/2024	10:01:53 PM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
29	N069140-001A	SAMP	1	10/11/2024	10:04:11 PM
30	N069141-001A	SAMP	1	10/11/2024	10:06:28 PM
31	N069141-002A	SAMP	1	10/11/2024	10:08:45 PM
32	N069142-001A	SAMP	1	10/11/2024	10:11:02 PM
33	N069143-001A	SAMP	1	10/11/2024	10:13:19 PM
34	N069143-002A	SAMP	1	10/11/2024	10:15:37 PM
35	N069143-003A	SAMP	1	10/11/2024	10:17:54 PM
36	N069143-004A	SAMP	1	10/11/2024	10:20:11 PM
37	N069143-005A	SAMP	1	10/11/2024	10:22:28 PM
38	CCV2	CCV	1	10/11/2024	10:24:45 PM
39	CCB2	CCB	1	10/11/2024	10:27:02 PM
40	N069143-006A	SAMP	1	10/11/2024	10:29:19 PM
41	N069143-007A	SAMP	1	10/11/2024	10:31:37 PM
42	N069143-008A	SAMP	1	10/11/2024	10:33:54 PM
43	N069143-009A	SAMP	1	10/11/2024	10:36:11 PM
44	N069143-010A	SAMP	1	10/11/2024	10:38:29 PM
45	CCV3	CCV	1	10/11/2024	10:40:45 PM
46	CCB3	CCB	1	10/11/2024	10:43:02 PM
47	ICSA2	ICSA	1	10/11/2024	10:45:19 PM
48	ICSAB2	ICSAB	1	10/11/2024	10:47:36 PM
49	MB-113181	MBLK	1	10/11/2024	10:49:54 PM
50	LCS-113181	LCS	1	10/11/2024	10:52:12 PM
51	N069046-001A	SAMP	5	10/11/2024	10:54:30 PM
52	N069046-002A	SAMP	5	10/11/2024	10:56:47 PM
53	N069055-005A	SAMP	1	10/11/2024	10:59:05 PM
54	N069055-005A	SAMP	5	10/11/2024	11:01:23 PM
55	N069055-005A-PS	PS	1	10/11/2024	11:03:40 PM
56	N069055-005A-MS	MS	1	10/11/2024	11:05:58 PM
57	N069055-005A-MSD	MSD	1	10/11/2024	11:08:16 PM
58	CCV4	CCV	1	10/11/2024	11:10:33 PM
59	CCB4	CCB	1	10/11/2024	11:12:50 PM
60	MB1-113175	MBLK	1	10/11/2024	11:15:07 PM
61	MB2-113175	MBLK	1	10/11/2024	11:17:24 PM
62	LCS-113175	LCS	1	10/11/2024	11:19:41 PM
63	N069113-001A	SAMP	1	10/11/2024	11:21:59 PM
64	N069113-001A	SAMP	5	10/11/2024	11:24:16 PM
65	N069113-001A-DUP	DUP	1	10/11/2024	11:26:33 PM
66	N069113-001A-PS	PS	1	10/11/2024	11:28:51 PM
67	N069113-001A-MS	MS	1	10/11/2024	11:31:08 PM
68	N069113-001A-MSD	MSD	1	10/11/2024	11:33:25 PM
69	N069113-002A	SAMP	1	10/11/2024	11:35:43 PM
70	CCV5	CCV	1	10/11/2024	11:37:59 PM
71	CCB5	CCB	1	10/11/2024	11:40:17 PM
72	N069113-003A	SAMP	1	10/11/2024	11:42:34 PM
73	N069113-004A	SAMP	1	10/11/2024	11:44:51 PM
74	N069113-005A	SAMP	1	10/11/2024	11:47:08 PM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
75	N069113-006A	SAMP	1	10/11/2024	11:49:25 PM
76	N069113-007A	SAMP	1	10/11/2024	11:51:42 PM
77	N069113-008A	SAMP	1	10/11/2024	11:53:59 PM
78	N069113-009A	SAMP	1	10/11/2024	11:56:17 PM
79	N069113-010A	SAMP	1	10/11/2024	11:58:34 PM
80	N069113-011A	SAMP	1	10/12/2024	12:00:51 AM
81	N069113-011A-DUP	DUP	1	10/12/2024	12:03:08 AM
82	CCV6	CCV	1	10/12/2024	12:05:25 AM
83	CCB6	CCB	1	10/12/2024	12:07:42 AM
84	N069113-011A-MS	MS	1	10/12/2024	12:09:59 AM
85	N069113-012A	SAMP	1	10/12/2024	12:12:17 AM
86	N069113-013A	SAMP	1	10/12/2024	12:14:34 AM
87	N069113-014A	SAMP	1	10/12/2024	12:16:52 AM
88	N069113-015A	SAMP	1	10/12/2024	12:19:08 AM
89	N069113-016A	SAMP	1	10/12/2024	12:21:25 AM
90	N069113-017A	SAMP	1	10/12/2024	12:23:42 AM
91	N069113-018A	SAMP	1	10/12/2024	12:25:59 AM
92	N069113-001A-DUP	DUP	1	10/12/2024	12:28:16 AM
93	CCV7	CCV	1	10/12/2024	12:30:32 AM
94	CCB7	CCB	1	10/12/2024	12:32:49 AM
95	ICSA3	ICSA	1	10/12/2024	12:35:06 AM
96	ICSAB3	ICSAB	1	10/12/2024	12:37:23 AM
97	MB-113209	MBLK	1	10/12/2024	12:41:37 AM
98	MB-113184 TCLP	MBLK	1	10/12/2024	12:43:55 AM
99	LCS-113209	LCS	1	10/12/2024	12:46:13 AM
100	N069020-001A	SAMP	1	10/12/2024	12:48:31 AM
101	N069020-001A	SAMP	5	10/12/2024	12:50:49 AM
102	N069020-001A-PS	PS	1	10/12/2024	12:53:06 AM
103	N069020-001A-MS	MS	1	10/12/2024	12:55:24 AM
104	N069020-001A-MSD	MSD	1	10/12/2024	12:57:42 AM
105	N069119-001A	SAMP	1	10/12/2024	1:00:00 AM
106	N069100-001A	SAMP	1	10/12/2024	1:02:17 AM
107	CCV8	CCV	1	10/12/2024	1:04:34 AM
108	CCB8	CCB	1	10/12/2024	1:06:51 AM
109	N069100-002A	SAMP	1	10/12/2024	1:09:09 AM
110	N069100-003A	SAMP	1	10/12/2024	1:11:26 AM
111	N069100-004A	SAMP	1	10/12/2024	1:13:45 AM
112	N069100-005A	SAMP	1	10/12/2024	1:16:03 AM
113	N069100-006A	SAMP	1	10/12/2024	1:18:20 AM
114	CCV9	CCV	1	10/12/2024	1:20:37 AM
115	CCB9	CCB	1	10/12/2024	1:22:55 AM
116	MB-113210	MBLK	1	10/12/2024	1:25:12 AM
117	LCS-113210	LCS	1	10/12/2024	1:27:29 AM
118	N069146-001C	SAMP	1	10/12/2024	1:29:46 AM
119	N069146-002C	SAMP	1	10/12/2024	1:32:03 AM
120	N069146-005B	SAMP	1	10/12/2024	1:34:20 AM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
121	N069146-006B	SAMP	1	10/12/2024	1:36:37 AM
122	N069146-007C	SAMP	1	10/12/2024	1:38:54 AM
123	N069146-009C	SAMP	1	10/12/2024	1:41:11 AM
124	N069146-011C	SAMP	1	10/12/2024	1:43:28 AM
125	N069146-012C	SAMP	1	10/12/2024	1:45:45 AM
126	CCV10	CCV	1	10/12/2024	1:48:02 AM
127	CCB10	CCB	1	10/12/2024	1:50:19 AM
128	N069146-013C	SAMP	1	10/12/2024	1:52:36 AM
129	N069146-013C	SAMP	5	10/12/2024	1:54:53 AM
130	N069146-013C-PS	PS	1	10/12/2024	1:57:10 AM
131	N069146-013CMS	MS	1	10/12/2024	1:59:27 AM
132	N069146-013CMSD	MSD	1	10/12/2024	2:01:44 AM
133	N069147-001C	SAMP	1	10/12/2024	2:04:01 AM
134	N069147-002C	SAMP	1	10/12/2024	2:06:18 AM
135	N069147-003C	SAMP	1	10/12/2024	2:08:35 AM
136	N069147-004C	SAMP	1	10/12/2024	2:10:52 AM
137	N069147-005C	SAMP	1	10/12/2024	2:13:10 AM
138	CCV11	CCV	1	10/12/2024	2:15:27 AM
139	CCB11	CCB	1	10/12/2024	2:17:44 AM
140	N069147-006C	SAMP	1	10/12/2024	2:20:01 AM
141	N069148-001B	SAMP	1	10/12/2024	2:22:18 AM
142	N069148-002C	SAMP	1	10/12/2024	2:24:36 AM
143	N069148-003E	SAMP	1	10/12/2024	2:26:53 AM
144	N069148-004C	SAMP	1	10/12/2024	2:29:10 AM
145	N069148-005B	SAMP	1	10/12/2024	2:31:27 AM
146	MB-113211	MBLK	1	10/12/2024	2:33:44 AM
147	LCS-113211	LCS	1	10/12/2024	2:37:31 AM
148	N069148-006B	SAMP	1	10/12/2024	2:39:48 AM
149	N069148-007D	SAMP	1	10/12/2024	2:42:05 AM
150	CCV12	CCV	1	10/12/2024	2:44:22 AM
151	CCB12	CCB	1	10/12/2024	2:46:39 AM
152	N069148-007D	SAMP	5	10/12/2024	2:48:56 AM
153	N069148-007D-PS	PS	1	10/12/2024	2:51:13 AM
154	N069148-007D-MS	MS	1	10/12/2024	2:53:30 AM
155	N069148-007D-MSD	MSD	1	10/12/2024	2:55:47 AM
156	N069148-008D	SAMP	1	10/12/2024	2:58:05 AM
157	N069148-009D	SAMP	1	10/12/2024	3:00:22 AM
158	N069148-010D	SAMP	1	10/12/2024	3:02:38 AM
159	N069148-011D	SAMP	1	10/12/2024	3:04:55 AM
160	N069148-012D	SAMP	1	10/12/2024	3:07:12 AM
161	N069148-013D	SAMP	1	10/12/2024	3:09:29 AM
162	CCV13	CCV	1	10/12/2024	3:11:46 AM
163	CCB13	CCB	1	10/12/2024	3:14:03 AM
164	N069149-007D	SAMP	1	10/12/2024	3:16:19 AM
165	N069149-008D	SAMP	1	10/12/2024	3:18:36 AM
166	N069150-001D	SAMP	1	10/12/2024	3:20:53 AM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
167	N069150-002B	SAMP	1	10/12/2024	3:23:10 AM
168	N069150-003B	SAMP	1	10/12/2024	3:25:27 AM
169	N069150-004B	SAMP	1	10/12/2024	3:27:45 AM
170	N069150-005B	SAMP	1	10/12/2024	3:30:02 AM
171	N069150-006D	SAMP	1	10/12/2024	3:32:19 AM
172	N069150-007D	SAMP	1	10/12/2024	3:34:36 AM
173	N069150-008D	SAMP	1	10/12/2024	3:36:53 AM
174	CCV14	CCV	1	10/12/2024	3:39:09 AM
175	CCB14	CCB	1	10/12/2024	3:41:26 AM
176	ICSA4	ICSA	1	10/12/2024	3:43:43 AM
177	ICSAB4	ICSAB	1	10/12/2024	3:46:00 AM

SAMPLE PREPARATION LOG



ASSET LABORATORIES
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CALIFORNIA
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P: 702.307.2659 F: 702.307.2691

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ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: **10/11/2024 1:12:00 PM**

Reviewed/ Date: *M. Rocha* **11/13/2024**

Prep End Date: **10/11/2024 5:15:00 PM**

Initials/ Date: **for**

Prep Factor Units Temp. (°C): Location:

Prep Batch **113210** Prep Code:**3010_W_DISS**

Technician: **Jocelyn Rivera**

mL / mL 95.2 DB-4-21

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-113210	Aqueous		25	<input type="checkbox"/>	25	1.000		
50ML LOT # MP3971								
MB-113210	Aqueous		25	<input type="checkbox"/>	25	1.000		
THERMOMETER ID: DIGESTION 7								
N069146-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-002C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-005B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-006B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-007C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-009C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-011C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-012C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-013C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-013CMS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-013CMSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17137	NITRIC ACID
17144	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
MWST-240820AA	ICP Solution C	LCS,MS,MSD	0.5
MWST-240820Y	ICP Solution A	LCS,MS,MSD	0.5
MWST-240820Z	ICP Solution B	LCS,MS,MSD	0.5

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: **10/11/2024 1:12:00 PM**

Reviewed/ Date: *J/Rocha* 11/13/2024

Prep End Date: **10/11/2024 5:15:00 PM**

Initials/ Date: _____
for

Prep Batch **113210** Prep Code: **3010_W_DISS**

Technician: **Jocelyn Rivera**

Prep Factor Units Temp. (°C): Location:
mL / mL **95.2 DB-4-21**

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N069147-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069147-002C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069147-003C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069147-004C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069147-005C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069147-006C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069148-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069148-002C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069148-003E	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069148-004C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069148-005B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17137	NITRIC ACID
17144	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
MWST-240820AA	ICP Solution C	LCS,MS,MSD	0.5
MWST-240820Y	ICP Solution A	LCS,MS,MSD	0.5
MWST-240820Z	ICP Solution B	LCS,MS,MSD	0.5

INITIAL CALIBRATION DATA SUMMARY



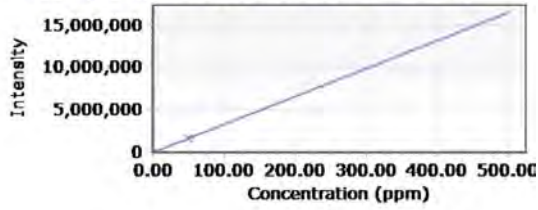
ASSET LABORATORIES
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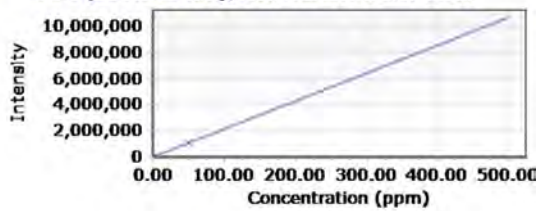
Cu I (324.754 nm), Interferent Calibration



Intensity = 33075.18415666 * Concentration + 684.20878678
 Correlation coefficient: 1.00000
 %RSE:N/A

Standards	Intensity	Method Conc	Calculated Conc	% Error
IEC Blank	684.20879	0.00000	0.00000	N/A
Interferent 09 (Cu)	1654443.4 1662	50.00000	50.00000	0.00000

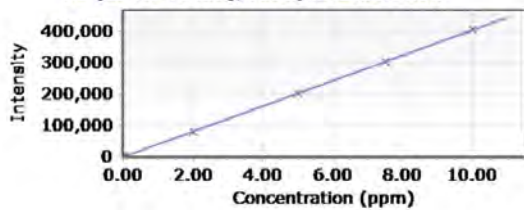
Fe I (239.563 nm), Interferent Calibration



Intensity = 21415.27545672 * Concentration + 29.10415739
 Correlation coefficient: 1.00000
 %RSE:N/A

Standards	Intensity	Method Conc	Calculated Conc	% Error
IEC Blank	29.10416	0.00000	0.00000	N/A
Interferent 10 (Fe)	1070792.8 7699	50.00000	50.00000	0.00000

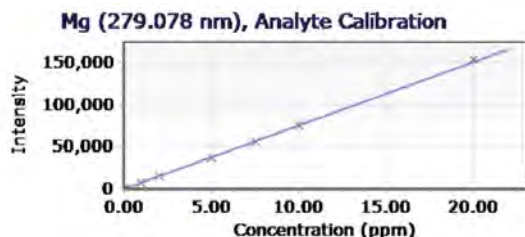
Fe (259.940 nm), Analyte Calibration



Intensity = 40400.58090932 * Concentration + 191.47883831
 Correlation coefficient: 1.00000
 %RSE:15.41363974

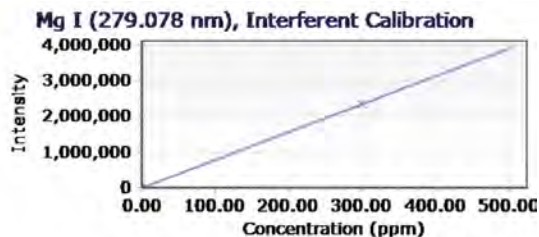
Standards	Intensity	Method Conc	Calculated Conc	% Error
Blank	64.38038	0.00000	-0.00315	N/A

Standards	Intensity	Method Conc	Calculated Conc	% Error
Standard 1	836.41908	0.02000	0.01596	20.18181
Standard 2	2682.02469	0.05000	0.06165	23.29258
Standard 3	80856.83169	2.00000	1.99664	0.16808
Standard 4	202241.60523	5.00000	5.00117	0.02338
Standard 5	304153.89541	7.50000	7.52371	0.31619
Standard 6	406562.70176	10.00000	10.05855	0.58549



Intensity = 7516.91474181 * Concentration + 46.77141577
 Correlation coefficient: 0.99994
 %RSE:1.43376477

Standards	Intensity	Method Conc	Calculated Conc	% Error
Blank	38.51695	0.00000	-0.00110	N/A
Standard 1	794.56546	0.10000	0.09948	0.51849
Standard 2	7755.00635	1.00000	1.02545	2.54520
Standard 3	15010.73575	2.00000	1.99071	0.46472
Standard 4	37410.68585	5.00000	4.97064	0.58710
Standard 5	56298.02980	7.50000	7.48329	0.22279
Standard 6	75160.58747	10.00000	9.99264	0.07361
Standard 7	152952.22240	20.00000	20.34152	1.70759



Intensity = 7818.83260428 * Concentration + 25.13274543
 Correlation coefficient: 1.00000
 %RSE:N/A

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
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P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICV	SampType: ICV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: ICV	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/11/2024	SeqNo: 6229299						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10139.550	20	10000	0	101	90	110				

Sample ID: LLCCV1	SampType: CCV1	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: ZZZZZ	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/11/2024	SeqNo: 6229301						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	16.340	20	20.00	0	81.7	80	120				

Sample ID: CCV1	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCV	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/11/2024	SeqNo: 6229316						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10088.690	20	10000	0	101	90	110				

Sample ID: CCV2	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCV	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/11/2024	SeqNo: 6229328						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10087.630	20	10000	0	101	90	110				

Sample ID: CCV3	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCV	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/11/2024	SeqNo: 6229335						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10081.030	20	10000	0	101	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPB

Sample ID: CCV4	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCV	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/11/2024	SeqNo: 6229348						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 10005.160 20 10000 0 100 90 110

Sample ID: CCV5	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCV	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/11/2024	SeqNo: 6229360						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 10040.660 20 10000 0 100 90 110

Sample ID: CCV6	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCV	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229372						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 10035.920 20 10000 0 100 90 110

Sample ID: CCV7	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCV	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229383						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 10033.220 20 10000 0 100 90 110

Sample ID: CCV8	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCV	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229397						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 9984.050 20 10000 0 99.8 90 110

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: CCV9	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCV	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229404						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9975.080	20	10000	0	99.8	90	110				
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Sample ID: CCV10	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCV	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229416						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9967.520	20	10000	0	99.7	90	110				
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Sample ID: CCV11	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCV	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229428						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9946.680	20	10000	0	99.5	90	110				
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Sample ID: CCV12	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCV	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229440						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9949.790	20	10000	0	99.5	90	110				
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Sample ID: CCV13	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCV	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229452						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9958.470	20	10000	0	99.6	90	110				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPB

Sample ID: CCV14	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCV	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229464						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	9950.930	20	10000	0	99.5	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICB	SampType: ICB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: ICB	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/11/2024	SeqNo: 6229300						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	-2.35	20									
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Sample ID: CCB1	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCB	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/11/2024	SeqNo: 6229317						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	-0.6	20									
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Sample ID: CCB2	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCB	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/11/2024	SeqNo: 6229329						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	0.660	20									
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Sample ID: CCB3	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCB	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/11/2024	SeqNo: 6229336						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	0.860	20									
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Sample ID: CCB4	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCB	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/11/2024	SeqNo: 6229349						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	-0.98	20									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPB

Sample ID: CCB5	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCB	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/11/2024	SeqNo: 6229361						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	-0.06	20									
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Sample ID: CCB6	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCB	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229373						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	0.010	20									
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Sample ID: CCB7	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCB	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229384						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	0.120	20									
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Sample ID: CCB8	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCB	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229398						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	-1.9	20									
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Sample ID: CCB9	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCB	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229405						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	-1.97	20									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: CCB10	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCB	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229417						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	-1.96	20
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Sample ID: CCB11	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCB	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229429						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	-1.75	20
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Sample ID: CCB12	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCB	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229441						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	-2.15	20
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Sample ID: CCB13	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCB	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229453						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	-2.14	20
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Sample ID: CCB14	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCB	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229465						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	-2.06	20
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPB

Sample ID: ICSA1	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: ICSA	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/11/2024	SeqNo: 6229303						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10294.110	50	10000	0	103	80	120				
Calcium	9927.410	500	10000	0	99.3	80	120				
Iron	10264.860	20	10000	0	103	80	120				
Magnesium	9987.640	100	10000	0	99.9	80	120				

Sample ID: ICSA1	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: ICSA	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/11/2024	SeqNo: 6229304						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10279.910	50	10000	0	103	80	120				
Calcium	9713.800	500	10000	0	97.1	80	120				
Iron	10011.260	20	10000	0	100	80	120				
Magnesium	9836.960	100	10000	0	98.4	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: ICSA	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/11/2024	SeqNo: 6229337						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10272.350	50	10000	0	103	80	120				
Calcium	9781.950	500	10000	0	97.8	80	120				
Iron	10192.220	20	10000	0	102	80	120				
Magnesium	9833.450	100	10000	0	98.3	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: ICSA	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/11/2024	SeqNo: 6229338						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10269.290	50	10000	0	103	80	120				
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPB

Sample ID: ICSAB2	SampType: ICSAB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: ICSAB	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/11/2024	SeqNo: 6229338						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	9648.190	500	10000	0	96.5	80	120				
Iron	9945.090	20	10000	0	99.5	80	120				
Magnesium	9731.920	100	10000	0	97.3	80	120				

Sample ID: ICSA3	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: ICSA	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229385						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	10264.660	50	10000	0	103	80	120				
Calcium	9784.550	500	10000	0	97.8	80	120				
Iron	10160.170	20	10000	0	102	80	120				
Magnesium	9842.800	100	10000	0	98.4	80	120				

Sample ID: ICSAB3	SampType: ICSAB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: ICSAB	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229386						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	10244.740	50	10000	0	102	80	120				
Calcium	9625.030	500	10000	0	96.3	80	120				
Iron	9908.470	20	10000	0	99.1	80	120				
Magnesium	9729.700	100	10000	0	97.3	80	120				

Sample ID: ICSA4	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: ICSA	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229466						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	10263.330	50	10000	0	103	80	120				
Calcium	9768.430	500	10000	0	97.7	80	120				
Iron	10102.830	20	10000	0	101	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICSA4	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: ICSA	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229466						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Magnesium	9827.850	100	10000	0	98.3	80	120				

Sample ID: ICSAB4	SampType: ICSAB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: ICSAB	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229467						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	10244.250	50	10000	0	102	80	120				
Calcium	9589.410	500	10000	0	95.9	80	120				
Iron	9842.080	20	10000	0	98.4	80	120				
Magnesium	9656.760	100	10000	0	96.6	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

INTERNAL STANDARD SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

INTERNAL STANDARD: 241011A

Instrument ID: NV00922-ICP4

Sample Name	Type	DF	Yttrium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
Blank	BLK	1	1	100	65-125	PASS
Standard 1	ICAL	1	1.02	102	65-125	PASS
Standard 2	ICAL	1	1.03	103	65-125	PASS
Standard 3	ICAL	1	1.03	103	65-125	PASS
Standard 4	ICAL	1	1.03	103	65-125	PASS
Standard 5	ICAL	1	1.03	103	65-125	PASS
Standard 6	ICAL	1	1.02	102	65-125	PASS
Standard 7	ICAL	1	1.01	101	65-125	PASS
ICV	ICV	1	1.02	102	65-125	PASS
ICB	ICB	1	1.04	104	65-125	PASS
LLCCV1	CCV1	1	1.04	104	65-125	PASS
LLCCV2	CCV1	1	1.06	106	65-125	PASS
ICSA1	ICSA	1	1.08	108	65-125	PASS
ICSAB1	ICSAB	1	1.08	108	65-125	PASS
LLCCV1	CCV1	1	1.06	106	65-125	PASS
CCV1	CCV	1	1.06	106	65-125	PASS
CCB1	CCB	1	1.07	107	65-125	PASS
CCV2	CCV	1	1.07	107	65-125	PASS
CCB2	CCB	1	1.08	108	65-125	PASS
CCV3	CCV	1	1.07	107	65-125	PASS
CCB3	CCB	1	1.08	108	65-125	PASS
ICSA2	ICSA	1	1.11	111	65-125	PASS
ICSAB2	ICSAB	1	1.1	110	65-125	PASS
CCV4	CCV	1	1.08	108	65-125	PASS
CCB4	CCB	1	1.08	108	65-125	PASS
CCV5	CCV	1	1.08	108	65-125	PASS
CCB5	CCB	1	1.08	108	65-125	PASS
CCV6	CCV	1	1.08	108	65-125	PASS
CCB6	CCB	1	1.09	109	65-125	PASS
CCV7	CCV	1	1.08	108	65-125	PASS
CCB7	CCB	1	1.09	109	65-125	PASS
ICSA3	ICSA	1	1.11	111	65-125	PASS
ICSAB3	ICSAB	1	1.11	111	65-125	PASS
CCV8	CCV	1	1.07	107	65-125	PASS
CCB8	CCB	1	1.07	107	65-125	PASS
CCV9	CCV	1	1.07	107	65-125	PASS
CCB9	CCB	1	1.07	107	65-125	PASS
MB-113210	MBLK	1	1.05	105	65-125	PASS
LCS-113210	LCS	1	1.05	105	65-125	PASS
N069146-001C	SAMP	1	0.99	99	65-125	PASS
N069146-002C	SAMP	1	0.99	99	65-125	PASS

INTERNAL STANDARD: 241011A

Instrument ID: NV00922-ICP4

			Yttrium, 1.0 mg/L			
Sample Name	Type	DF	Reported Conc	%REC	Criteria	Comment
N069146-005B	SAMP	1	1.03	103	65-125	PASS
N069146-006B	SAMP	1	1.02	102	65-125	PASS
N069146-007C	SAMP	1	0.99	99	65-125	PASS
N069146-009C	SAMP	1	1.01	101	65-125	PASS
N069146-011C	SAMP	1	1	100	65-125	PASS
N069146-012C	SAMP	1	1.02	102	65-125	PASS
CCV10	CCV	1	1.07	107	65-125	PASS
CCB10	CCB	1	1.07	107	65-125	PASS
N069146-013C	SAMP	1	0.99	99	65-125	PASS
N069146-013C	SAMP	5	1.04	104	65-125	PASS
N069146-013C-PS	PS	1	0.95	95	65-125	PASS
N069146-013CMS	MS	1	0.98	98	65-125	PASS
N069146-013CMSD	MSD	1	0.99	99	65-125	PASS
N069147-001C	SAMP	1	1	100	65-125	PASS
N069147-002C	SAMP	1	1	100	65-125	PASS
N069147-003C	SAMP	1	1	100	65-125	PASS
N069147-004C	SAMP	1	1	100	65-125	PASS
N069147-005C	SAMP	1	1	100	65-125	PASS
CCV11	CCV	1	1.06	106	65-125	PASS
CCB11	CCB	1	1.07	107	65-125	PASS
N069147-006C	SAMP	1	1.04	104	65-125	PASS
N069148-001B	SAMP	1	1.04	104	65-125	PASS
N069148-002C	SAMP	1	1.04	104	65-125	PASS
N069148-003E	SAMP	1	1.05	105	65-125	PASS
N069148-004C	SAMP	1	1.03	103	65-125	PASS
N069148-005B	SAMP	1	1.02	102	65-125	PASS
CCV12	CCV	1	1.07	107	65-125	PASS
CCB12	CCB	1	1.07	107	65-125	PASS
CCV13	CCV	1	1.07	107	65-125	PASS
CCB13	CCB	1	1.07	107	65-125	PASS
CCV14	CCV	1	1.07	107	65-125	PASS
CCB14	CCB	1	1.07	107	65-125	PASS
ICSA4	ICSA	1	1.08	108	65-125	PASS
ICSAB4	ICSAB	1	1.08	108	65-125	PASS

SERIAL DILUTION/ POST DIGESTION SPIKE



ASSET LABORATORIES
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ASSET Laboratories

ICP-Metals in Water

Work Order No.: N069146
Test Method: EPA 6010B
Analysis Date: 10/12/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 113210

Instrument ID: NV00922-ICP4
Instrument Description: Agilent 5800VDV

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Fe. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069146-013C DT 5x	Iron	Fe	µg/L	0	NA	13.21	100.00%	10

REVIEWED BY:



10/28/2024

Note: NA - Not Applicable

10/28/24 20:01

N069146_6010B_113210_DT

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID: N069146-013C-PS	SampType: PS	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: ZZZZZZ	Batch ID: 113210	TestNo: EPA 6010B EPA 3010A	Analysis Date: 10/12/2024	SeqNo: 6229420							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	120.230	20	100.0	13.21	107	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

MDL STUDY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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NEVADA
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Method Detection Limits

Analytical Method: EPA 6010B
Digestion Method: 3010_W
Digestion Date: 1/31/2024-2/16/24
Instrument Name: ICP2/ ICP3
Analyst/Technician: DJ

Matrix: WATER
Unit: mg/L

Analyte	1	2	3	4	5	6	7	SD	AMT SPIKED (ppm)	MDLs	PQL	MDL
Beryllium	0.0010	0.0010	0.0010	0.0012	0.0012	0.0009	0.0009	0.00013	0.0010	0.00042	0.0010	0.0004
Boron	0.1015	0.0996	0.0981	0.0955	0.0962	0.0921	0.0811	0.00679	0.1000	0.02134	0.1000	0.0519
Magnesium	0.1018	0.1005	0.1004	0.1023	0.1006	0.0924	0.0926	0.00426	0.1000	0.01340	0.1000	0.0134
Silicon	0.0175	0.0205	0.0214	0.0114	0.0100	0.0210	0.0211	0.00489	0.0200	0.01537	0.0200	0.0154
Chromium	0.0009	0.0009	0.0009	0.0011	0.0009	0.0009	0.0010	0.00007	0.0010	0.00023	0.0010	0.0002
Manganese	0.0096	0.0095	0.0093	0.0101	0.0102	0.0102	0.0104	0.00042	0.0100	0.00133	0.0100	0.0013
Iron	0.0219	0.0207	0.0210	0.0226	0.0224	0.0193	0.0175	0.00184	0.0200	0.00577	0.0200	0.0058
Cobalt	0.0020	0.0018	0.0019	0.0019	0.0018	0.0021	0.0020	0.00013	0.0025	0.00039	0.0025	0.0004
Nickel	0.0055	0.0055	0.0052	0.0028	0.0033	0.0048	0.0047	0.00109	0.0050	0.00342	0.0050	0.0034
Copper	0.0056	0.0058	0.0054	0.0063	0.0058	0.0050	0.0053	0.00041	0.0050	0.00128	0.0050	0.0014
Zinc	0.0110	0.0103	0.0100	0.0106	0.0108	0.0092	0.0088	0.00086	0.0100	0.00269	0.0100	0.0027
Arsenic	0.0100	0.0080	0.0060	0.0084	0.0112	0.0132	0.0065	0.00256	0.0100	0.00805	0.0100	0.0081
Selenium	0.0110	0.0126	0.0120	0.0079	0.0137	0.0079	0.0072	0.00264	0.0100	0.00829	0.0100	0.0083
Molybdenum	0.0056	0.0053	0.0057	0.0044	0.0045	0.0051	0.0044	0.00056	0.0050	0.00177	0.0050	0.0018
Silver	0.0025	0.0025	0.0024	0.0019	0.0018	0.0033	0.0031	0.00056	0.0025	0.00175	0.0025	0.0018
Cadmium	0.0027	0.0026	0.0026	0.0016	0.0018	0.0023	0.0025	0.00043	0.0025	0.00136	0.0025	0.0014
Tin	0.0104	0.0095	0.0097	0.0114	0.0111	0.0087	0.0089	0.00104	0.0100	0.00328	0.0100	0.0033
Antimony	0.0090	0.0093	0.0110	0.0136	0.0122	0.0112	0.0087	0.00180	0.0100	0.00565	0.0100	0.0056
Barium	0.0026	0.0026	0.0026	0.0028	0.0028	0.0024	0.0024	0.00016	0.0025	0.00051	0.0025	0.0005
Thallium	0.0172	0.0169	0.0170	0.0165	0.0144	0.0131	0.0130	0.00188	0.0150	0.00592	0.0150	0.0059
Lead	0.0058	0.0060	0.0061	0.0046	0.0083	0.0049	0.0048	0.00125	0.0050	0.00393	0.0050	0.0039
Calcium	0.2188	0.2125	0.2073	0.2186	0.2230	0.1767	0.1699	0.02155	0.2000	0.06772	0.2000	0.0677
Vanadium	0.0026	0.0025	0.0027	0.0030	0.0029	0.0024	0.0023	0.00026	0.0025	0.00081	0.0025	0.0008
Aluminum	0.0523	0.0513	0.0508	0.0490	0.0501	0.0509	0.0482	0.00140	0.0500	0.00439	0.0500	0.0044
Titanium	0.0119	0.0116	0.0108	0.0100	0.0103	0.0105	0.0107	0.00069	0.0100	0.00216	0.0100	0.0022

Method Detection Limits (Blanks)

Analyte	1	2	3	4	5	6	7	SD	Average	MDLb
Beryllium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00006	0.0000	0.00019
Boron	0.000	0.000	-0.001	-0.005	-0.006	-0.045	-0.047	0.02126	-0.0149	0.05194
Magnesium	-0.001	-0.001	-0.001	0.000	0.001	0.000	-0.001	0.00074	-0.0004	0.00192
Silicon	-0.001	-0.004	-0.004	-0.002	-0.001	-0.012	-0.011	0.00477	-0.0049	0.01013
Chromium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00004	-0.0001	0.00008
Manganese	-0.001	-0.001	-0.001	0.000	0.000	0.000	0.000	0.00044	-0.0005	0.00090
Iron	0.000	0.000	0.000	-0.001	-0.001	-0.003	-0.003	0.00140	-0.0010	0.00337
Cobalt	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00012	-0.0001	0.00029
Nickel	0.000	0.000	0.000	-0.002	-0.002	0.000	0.000	0.00089	-0.0006	0.00224
Copper	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.00033	0.0003	0.00138
Zinc	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.00033	0.0000	0.00102
Arsenic	-0.001	-0.003	0.000	0.000	0.000	0.000	0.000	0.00091	-0.0007	0.00221
Selenium	0.004	0.000	0.002	0.001	0.003	-0.001	0.002	0.00153	0.0017	0.00649
Molybdenum	0.000	0.000	0.000	-0.001	-0.001	0.000	0.000	0.00032	-0.0003	0.00074
Silver	-0.001	-0.001	-0.001	-0.001	-0.001	0.000	0.000	0.00049	-0.0007	0.00083
Cadmium	0.000	0.000	0.000	-0.001	0.000	0.000	0.000	0.00029	-0.0001	0.00081
Tin	-0.001	-0.001	-0.001	0.001	0.000	0.000	-0.001	0.00063	-0.0005	0.00150
Antimony	0.000	-0.001	0.000	0.000	-0.001	0.004	0.000	0.00161	0.0002	0.00524
Barium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00008	0.0000	0.00025
Thallium	0.001	0.000	0.002	0.001	0.000	-0.001	-0.001	0.00104	0.0002	0.00343
Lead	0.000	-0.001	-0.001	-0.001	0.000	0.001	-0.001	0.00068	-0.0004	0.00173
Calcium	0.001	0.001	0.001	-0.003	-0.005	-0.003	-0.017	0.00638	-0.0036	0.01650
Vanadium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00012	0.0000	0.00038
Aluminum	0.000	0.001	0.001	-0.001	-0.001	-0.001	-0.002	0.00105	-0.0003	0.00300
Titanium	0.001	0.000	0.001	-0.001	-0.001	-.00003	0.000	0.00064	0.0000	0.00199

Note: Higher value between MDLs and MDLb will be used.

Method Detection Limits

Analytical Method: EPA 6010B
Digestion Method: EPA 3010A
Digestion Date: 2/8-2/12/2024
Analysis Date: 2/16-2/23/2024
Instrument Name: ICP-04
Analyst/Technician: NS/DBJ

Matrix: WATER
Unit: mg/L

Analyte	1	2	3	4	5	6	7	SD	AMT SPIKED (ppm)	MDLs	PQL	MDL
Beryllium	0.00096	0.00098	0.00096	0.00094	0.00114	0.00100	0.00093	0.00007	0.0010	0.00022	0.0010	0.0004
Boron	0.09627	0.09657	0.09643	0.09117	0.09044	0.09475	0.09499	0.00255	0.1000	0.00800	0.1000	0.0080
Magnesium	0.10052	0.10036	0.09959	0.10705	0.10731	0.09987	0.10054	0.00344	0.1000	0.01079	0.1000	0.0153
Silicon	0.01997	0.01949	0.01947	0.02053	0.02103	0.02063	0.02079	0.00063	0.0200	0.00198	0.0200	0.0020
Chromium	0.00100	0.00096	0.00096	0.00116	0.00117	0.00109	0.00115	0.00009	0.0010	0.00030	0.0010	0.0005
Manganese	0.00965	0.00966	0.00962	0.00727	0.00736	0.00964	0.00963	0.00113	0.0100	0.00356	0.0100	0.0037
Iron	0.01670	0.01666	0.01669	0.01930	0.01911	0.01418	0.01399	0.00209	0.0200	0.00657	0.0200	0.0066
Cobalt	0.00276	0.00227	0.00246	0.00248	0.00246	0.00188	0.00221	0.00028	0.0025	0.00087	0.0025	0.0009
Nickel	0.00479	0.00493	0.00510	0.00476	0.00489	0.00457	0.00453	0.00020	0.0050	0.00063	0.0050	0.0006
Copper	0.00508	0.00506	0.00488	0.00503	0.00521	0.00474	0.00486	0.00016	0.0050	0.00050	0.0050	0.0005
Zinc	0.01247	0.01227	0.01233	0.01015	0.01017	0.00939	0.00952	0.00139	0.0100	0.00438	0.0100	0.0044
Arsenic	0.00990	0.00949	0.00882	0.01052	0.01052	0.01070	0.01000	0.00067	0.0100	0.00210	0.0100	0.0021
Selenium	0.00898	0.00986	0.01063	0.01176	0.01126	0.01021	0.01046	0.00091	0.0100	0.00286	0.0100	0.0032
Molybdenum	0.00546	0.00537	0.00512	0.00602	0.00529	0.00458	0.00502	0.00044	0.0050	0.00139	0.0050	0.0021
Silver	0.00245	0.00240	0.00249	0.00200	0.00194	0.00221	0.00211	0.00022	0.0025	0.00070	0.0025	0.0010
Cadmium	0.00248	0.00248	0.00244	0.00239	0.00240	0.00219	0.00224	0.00012	0.0025	0.00036	0.0025	0.0004
Tin	0.00982	0.01010	0.00968	0.01041	0.01050	0.00990	0.00999	0.00030	0.0100	0.00095	0.0100	0.0010
Antimony	0.01076	0.01056	0.00998	0.01034	0.01208	0.00938	0.00979	0.00087	0.0100	0.00274	0.0100	0.0027
Barium	0.00266	0.00257	0.00258	0.00258	0.00257	0.00249	0.00254	0.00005	0.0025	0.00016	0.0025	0.0008
Thallium	0.01580	0.01557	0.01597	0.01222	0.01292	0.01486	0.01560	0.00151	0.0150	0.00475	0.0150	0.0048
Lead	0.00431	0.00500	0.00446	0.00447	0.00503	0.00422	0.00371	0.00046	0.0050	0.00144	0.0050	0.0014
Calcium	0.20228	0.20108	0.20096	0.20023	0.20038	0.19290	0.19351	0.00386	0.2000	0.01211	0.2000	0.0121
Vanadium	0.00265	0.00253	0.00241	0.00232	0.00229	0.00240	0.00246	0.00012	0.0025	0.00039	0.0025	0.0006
Aluminum	0.05361	0.05332	0.05336	0.05134	0.05238	0.05032	0.04987	0.00153	0.0500	0.00482	0.0500	0.0075
Titanium	0.01017	0.01017	0.01014	0.01005	0.01003	0.01004	0.01004	0.00007	0.0100	0.00020	0.0100	0.0012
Sodium	0.10464	0.10886	0.11103	0.10060	0.10108	0.10829	0.10960	0.00421	0.1000	0.01321	0.1000	0.0132
Strontium	0.02468	0.02576	0.02592	0.02543	0.02579	0.02513	0.02569	0.00044	0.0250	0.00139	0.0250	0.0014

BLANK

Analyte	1	2	3	4	5	6	7	SD	Average	MDL	PQL
Beryllium	-0.00048	-0.00014	-0.00014	0.00001	0.00001	-0.00003	-0.00002	0.00017	-0.00011	0.00043	0.0010
Boron	-0.00209	-0.00259	-0.00248	-0.00694	-0.00772	-0.00175	-0.00221	0.00252	-0.00368	0.00423	0.1000
Magnesium	0.00244	0.00147	0.00205	0.00943	0.00934	0.00459	0.00401	0.00334	0.00476	0.01526	0.1000
Silicon	-0.00009	-0.00039	-0.00061	-0.00016	-0.00044	-0.00044	-0.00071	0.00022	-0.00041	0.00029	0.0200
Chromium	0.00017	0.00009	0.00006	0.00027	0.00032	0.00008	0.00012	0.00010	0.00016	0.00047	0.0010
Manganese	-0.00054	-0.00051	-0.00054	-0.00311	-0.00312	0.00037	0.00037	0.00149	-0.00101	0.00368	0.0100
Iron	-0.00361	-0.00368	-0.00350	-0.00126	-0.00121	0.00037	-0.00627	0.00219	-0.00274	0.00416	0.0200
Cobalt	-0.00033	0.00009	-0.00016	-0.00021	-0.00058	-0.00032	-0.00036	0.00021	-0.00027	0.00038	0.0025
Nickel	-0.00036	-0.00009	-0.00024	-0.00021	-0.00033	-0.00022	-0.00023	0.00009	-0.00024	0.00004	0.0050
Copper	0.00005	0.00002	0.00000	0.00019	0.00028	-0.00001	0.00000	0.00011	0.00008	0.00043	0.0050
Zinc	0.00056	-0.00003	-0.00006	-0.00024	-0.00022	-0.00079	-0.00081	0.00047	-0.00023	0.00126	0.0100
Arsenic	-0.00003	-0.00086	-0.00030	-0.00052	0.00012	0.00051	0.00034	0.00049	-0.00011	0.00142	0.0100
Selenium	-0.00105	-0.00101	0.00003	-0.00013	-0.00033	0.00092	0.00175	0.00101	0.00003	0.00321	0.0100
Molybdenum	0.00035	0.00064	-0.00012	0.00102	0.00080	-0.00015	-0.00059	0.00059	0.00028	0.00212	0.0050
Silver	-0.00021	-0.00023	-0.00022	-0.00146	-0.00143	-0.00071	-0.00064	0.00055	-0.00070	0.00102	0.0025
Cadmium	-0.00003	-0.00002	-0.00003	-0.00008	-0.00009	-0.00026	-0.00030	0.00012	-0.00012	0.00025	0.0025
Tin	-0.00048	-0.00035	0.00010	-0.00014	0.00016	-0.00005	-0.00008	0.00023	-0.00012	0.00060	0.0100
Antimony	0.00008	0.00020	0.00049	-0.00016	0.00141	0.00021	0.00121	0.00059	0.00049	0.00236	0.0100
Barium	0.00006	0.00062	0.00005	0.00003	-0.00010	-0.00003	-0.00006	0.00024	0.00008	0.00085	0.0025
Thallium	0.00113	0.00056	0.00015	0.00095	0.00031	0.00135	0.00088	0.00044	0.00076	0.00214	0.0150
Lead	-0.00006	-0.00093	-0.00022	-0.00025	-0.00031	-0.00180	-0.00134	0.00067	-0.00070	0.00139	0.0050
Calcium	-0.00505	0.00006	0.00001	-0.00038	-0.00024	-0.00119	-0.00204	0.00183	-0.00126	0.00450	0.2000
Vanadium	0.00027	0.00033	0.00044	0.00022	0.00016	0.00010	0.00011	0.00012	0.00023	0.00062	0.0025
Aluminum	0.00375	0.00381	0.00445	0.00041	0.00100	0.00108	0.00110	0.00169	0.00223	0.00754	0.0500
Titanium	0.00001	0.00001	-0.00001	-0.00006	-0.00010	0.00000	0.00088	0.00034	0.00010	0.00119	0.0100
Sodium	0.00136	0.00379	0.00132	-0.00038	-0.00214	-0.00015	0.00331	0.00210	0.00102	0.00761	0.1000
Strontium	-0.00115	-0.00166	-0.00116	-0.00120	-0.00012	-0.00045	-0.00044	0.00055	-0.00088	0.00085	0.0200

Note: ICP-04 is an additional instrument, MDL is within 0.5 to 2.0 of existing MDL. Retain existing MDL.

EPA 6020 Dissolved



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 113224
ASSET #: N069146

Instrument ID: NV00922-ICP8
Analyst: DBJ

Method:

EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 10/16/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)		X			X	
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?	X		X	X		X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits		X			X	
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

% RSD of Se in N069146-013C (sample ref) failed. For rerun.
% Rec of Cr in N069146-013CMS/MSD failed. However, LCS passed criteria.
RPD of Cr in N069146-013CMSD failed. However, LCS passed criteria.

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ

Date: _____

2nd Level Reviewer _____

Date: 10/27/2024



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 143324 113224
ASSET #: N069146

Instrument ID: NV00922-ICP8
Analyst: DBJ

Method:

EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 10/27/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.			X			X
24. LCS compounds within control limits.			X			X
25. MS/MSD, RPD's are within control limits			X			X
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

As rerun for N069143-003B
Mn dilution for N069146-007B. 007C

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ

Date: _____

2nd Level Reviewer _____

Date: 10/28/2024



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
 REV 2.1
 072018

FIRST LEVEL REVIEW:

QC Batch Number: 113224
 ASSET #: N069146

Instrument ID: NV00922-ICP8
 Analyst: DBJ

Method:
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 10/29/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.			X			X
24. LCS compounds within control limits.			X			X
25. MS/MSD, RPD's are within control limits		X			X	
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

Cr rerun
 %Rec of Cr in N069146-013CMS/MSD failed. However, LCS passed criteria.

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer NS 10/30/2024

Date: _____
 Date: _____



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 113224
ASSET #: N069146

Instrument ID: NV00922-ICP8
Analyst: DBJ

Method:

EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 10/30/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.			X			X
24. LCS compounds within control limits.			X			X
25. MS/MSD, RPD's are within control limits			X			X
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

As rerun for N069146-013C (sample ref).

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
2nd Level Reviewer NS 11/1/2024

Date: _____
Date: _____

SAMPLE CALCULATION



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SAMPLE CALCULATION

METHOD: EPA 6020
TEST NAME: Heavy Metals by ICP-MS
MATRIX: Groundwater

FORMULA:

Calculate the Barium concentration, in ug/L in the original sample as follows:

$$\text{Barium, ug/L} = A * DF * PF$$

where:

A = ug/L, calculated concentration
DF = Dilution Factor
PF = Final Volume of Digestate, mL / Amount of Sample, mL

For Sample **N069146-013C**, the concentration in ug/L is calculated as follows:


$$\text{Barium, ug/L} = 29.2363 * 1 * (25 / 25)$$

$$\text{Barium, ug/L} = 29.23634$$

Reporting results in two significant figures,

$$\text{Barium, ug/L} = 29$$

Reviewed by:

 11/27/2024

% RSD SUMMARY



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PERCENT RSD SUMMARY: 241016A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	137 Ba [3]				52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.12	32.226	15	<PQL	0.1	5.744	15	PASS
Std2-0.5/5 ppb	ICAL	1	0.52	10.58	15	PASS	0.46	1.117	15	PASS
Std3-5/50 ppb	ICAL	1	4.8	1.922	15	PASS	4.79	3.382	15	PASS
Std4-10/100 ppb	ICAL	1	9.43	2.583	15	PASS	9.69	0.567	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.71	4.276	15	PASS	19.75	0.571	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	40.16	1.935	15	PASS	39.57	1.123	15	PASS
Std7-100/1000 ppb	ICAL	1	99.29	1.229	15	PASS	99.51	0.24	15	PASS
Std8-200/2000 ppb	ICAL	1	200.39	0.274	15	PASS	200.38	1.774	15	PASS
ICV	ICV	1	10.05	1.542	15	PASS	10.31	3.215	15	PASS
ICB	ICB	1	<0.000	N/A	15	<PQL	0	1091.996	15	<PQL
LLCCV1	CCV1	1	0.13	11.04	20	PASS	0.1	22.463	20	<PQL
LLCCV2	CCV1	1	1.08	9.554	20	PASS	1.04	7.475	20	PASS
MLCCV1	CCV	1	19.53	1.725	15	PASS	19.69	0.336	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	0.02	58.455	15	<PQL
ICSAB1	ICSAB	1	19.98	1.456	15	PASS	20.22	1.581	15	PASS
CCV1	CCV	1	20.25	0.492	15	PASS	20.06	1.708	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL	0.11	30.629	15	<PQL
CCV2	CCV	1	20.46	1.741	15	PASS	20.16	1.864	15	PASS
CCB2	CCB	1	0.01	113.99	15	<PQL	0.1	24.414	15	<PQL
ICSA2	ICSA	1	0	1213.894	15	<PQL	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	20.61	1.087	15	PASS	20.34	0.442	15	PASS
CCV3	CCV	1	20.19	2.177	15	PASS	20.13	1.795	15	PASS
CCB3	CCB	1	0.01	85.773	15	<PQL	0.09	19.244	15	<PQL
CCV4	CCV	1	20.49	1.667	15	PASS	20.2	1.994	15	PASS
CCB4	CCB	1	0.01	20.457	15	<PQL	0.09	15.958	15	<PQL
CCV5	CCV	1	20.81	1.403	15	PASS	20.08	1.452	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL	0.09	23.062	15	<PQL
CCV6	CCV	1	21.21	4.462	15	PASS	19.96	0.813	15	PASS
CCB6	CCB	1	0	173.804	15	<PQL	0.08	15.514	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	0.1	8.295	15	PASS
ICSAB3	ICSAB	1	21.38	0.875	15	PASS	19.95	0.604	15	PASS
CCV7	CCV	1	21.41	1.304	15	PASS	19.88	1.702	15	PASS
CCB7	CCB	1	0.01	98.506	15	<PQL	0.07	34.434	15	<PQL
CCV8	CCV	1	21.45	0.943	15	PASS	19.8	0.647	15	PASS
CCB8	CCB	1	0.01	159.002	15	<PQL	0.06	39.499	15	<PQL
CCV9	CCV	1	21.19	2.072	15	PASS	19.94	1.345	15	PASS
CCB9	CCB	1	0.02	76.378	15	<PQL	0.08	35.423	15	<PQL
CCV10	CCV	1	21.29	1.215	15	PASS	19.97	0.575	15	PASS
CCB10	CCB	1	<0.000	N/A	15	<PQL	0.08	10.963	15	PASS
CCV11	CCV	1	20.8	2.074	15	PASS	19.83	0.789	15	PASS

PERCENT RSD SUMMARY: 241016A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	137 Ba [3]				52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
CCB11	CCB	1	<0.000	N/A	15	<PQL	0.07	17.665	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL	0.09	2.952	15	PASS
ICSAB4	ICSAB	1	21.09	0.526	15	PASS	20.1	1.024	15	PASS
CCV12	CCV	1	21.26	1.235	15	PASS	20.08	1.793	15	PASS
CCB12	CCB	1	0	249.713	15	<PQL	0.05	13.616	15	PASS
CCV13	CCV	1	20.9	1.112	15	PASS	19.96	1.44	15	PASS
CCB13	CCB	1	0.01	89.888	15	<PQL	0.06	38.348	15	<PQL
CCV14	CCV	1	20.97	0.912	15	PASS	19.71	1.361	15	PASS
CCB14	CCB	1	0	643.326	15	<PQL	0.06	11.581	15	PASS
CCV15	CCV	1	21.24	3.234	15	PASS	20.22	0.371	15	PASS
CCB15	CCB	1	0	222.619	15	<PQL	0.06	17.616	15	<PQL
ICSA5	ICSA	1	0	111.1	15	<PQL	0.09	28.339	15	<PQL
ICSAB5	ICSAB	1	21.54	0.646	15	PASS	19.82	1.467	15	PASS
MB-113224	MBLK	1	0	283.696	15	<PQL	<0.000	N/A	15	<PQL
LCS-113224	LCS	1	10.65	2.241	15	PASS	9.79	0.926	15	PASS
N069147-001C	SAMP	1	110.26	1.118	15	PASS	3.07	4.719	15	PASS
N069105-001C	SAMP	1	29.01	0.726	15	PASS	11.05	3.729	15	PASS
N069146-001C	SAMP	1	45.79	1.53	15	PASS	0.12	13.353	15	PASS
N069146-002C	SAMP	1	20.02	0.782	15	PASS	0.13	32.737	15	<PQL
N069146-003B	SAMP	1	303.48	0.115	15	PASS	41.23	0.876	15	PASS
N069146-003B	SAMP	10	32.3	1.633	15	PASS	4.45	1.861	15	PASS
N069146-005B	SAMP	1	110.89	1.353	15	PASS	0.03	40.139	15	<PQL
N069146-005B	SAMP	10	11.65	0.163	15	PASS	<0.000	N/A	15	<PQL
CCV16	CCV	1	21.37	2.052	15	PASS	19.6	1.275	15	PASS
CCB16	CCB	1	<0.000	N/A	15	<PQL	0.07	28.429	15	<PQL
N069146-006B	SAMP	1	248.86	1.068	15	PASS	0.07	10.022	15	PASS
N069146-006B	SAMP	10	32.11	1.241	15	PASS	<0.000	N/A	15	<PQL
N069146-007C	SAMP	1	88.4	0.268	15	PASS	1.09	4.117	15	PASS
N069146-007C	SAMP	10	12.33	3.024	15	PASS	0.11	7.471	15	PASS
N069146-009C	SAMP	1	44.93	0.343	15	PASS	2.45	2.845	15	PASS
N069146-011C	SAMP	1	116.88	0.798	15	PASS	0.53	7.876	15	PASS
N069146-011C	SAMP	10	12.17	2.531	15	PASS	0.01	249.457	15	<PQL
N069146-012C	SAMP	1	114.42	0.282	15	PASS	0.39	3.319	15	PASS
N069146-012C	SAMP	10	11.86	3.757	15	PASS	0	312.313	15	<PQL
CCV17	CCV	1	20.87	1.857	15	PASS	20.14	0.632	15	PASS
CCB17	CCB	1	0	5520.695	15	<PQL	0.06	31.554	15	<PQL
N069146-013C	SAMP	1	29.24	0.995	15	PASS	437.42	0.461	15	PASS
N069146-013C	SAMP	5	5.88	0.889	15	PASS	86.74	1.083	15	PASS
N069146-013C	SAMP	10	3.02	3.439	15	PASS	47.04	0.662	15	PASS
N069146-013C	SAMP	50	0.6	12.432	15	PASS	9.52	2.916	15	PASS
N069146-013C-PS	PS	1	39.36	0.505	15	PASS	446.29	1.122	15	PASS

PERCENT RSD SUMMARY: 241016A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	137 Ba [3]				52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N069146-013C-PS	PS	10	13.81	1.591	15	PASS	57.77	0.314	15	PASS
N069146-013CMS	MS	1	39.68	0.821	15	PASS	444.08	0.731	15	PASS
N069146-013CMS	MS	10	6.02	0.154	15	PASS	66.01	0.6	15	PASS
N069146-013CMSD	MSD	1	38.87	0.372	15	PASS	443.53	1.392	15	PASS
N069146-013CMSD	MSD	10	4.31	5.948	15	PASS	50.53	0.507	15	PASS
CCV18	CCV	1	21.3	1.155	15	PASS	19.54	1.107	15	PASS
CCB18	CCB	1	<0.000	N/A	15	<PQL	0.09	38.496	15	<PQL
N069147-002C	SAMP	1	93.78	0.766	15	PASS	1.16	6.19	15	PASS
N069147-002C	SAMP	10	9.61	1.053	15	PASS	0.08	29.38	15	<PQL
N069147-003C	SAMP	1	99.4	0.496	15	PASS	0.55	8.904	15	PASS
N069147-003C	SAMP	10	10.51	0.825	15	PASS	0.03	59.094	15	<PQL
N069147-004C	SAMP	1	87.73	0.836	15	PASS	0.97	4.78	15	PASS
N069147-004C	SAMP	10	9.23	1.091	15	PASS	0.06	11.381	15	PASS
N069147-005C	SAMP	1	100.97	1.818	15	PASS	0.16	14.299	15	PASS
N069147-005C	SAMP	100	1.18	1.075	15	PASS	<0.000	N/A	15	<PQL
N069147-006C	SAMP	1	110.68	1.017	15	PASS	5.17	3.094	15	PASS
N069147-006C	SAMP	10	11.08	1.696	15	PASS	0.53	0.706	15	PASS
CCV19	CCV	1	21.29	2.056	15	PASS	20	1.388	15	PASS
CCB19	CCB	1	<0.000	N/A	15	<PQL	0.07	16.348	15	<PQL
ICSA6	ICSA	1	0	19880.229	15	<PQL	0.1	31.016	15	<PQL
ICSAB6	ICSAB	1	21.22	0.401	15	PASS	19.88	2.269	15	PASS

PERCENT RSD SUMMARY: 241016A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.1	13.456	15	PASS	0.08	39.675	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.53	4.785	15	PASS	0.45	6.949	15	PASS
Std3-5/50 ppb	ICAL	1	4.87	3.161	15	PASS	4.71	1.188	15	PASS
Std4-10/100 ppb	ICAL	1	9.79	1.207	15	PASS	9.64	6.206	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.52	2.06	15	PASS	19.64	4.705	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.46	0.756	15	PASS	39.91	5.01	15	PASS
Std7-100/1000 ppb	ICAL	1	99.63	0.2	15	PASS	101.95	0.219	15	PASS
Std8-200/2000 ppb	ICAL	1	200.35	1.648	15	PASS	199.1	1.827	15	PASS
ICV	ICV	1	100.35	1.294	15	PASS	10.11	9.037	15	PASS
ICB	ICB	1	0	119.188	15	<PQL	0.03	54.418	15	<PQL
LLCCV1	CCV1	1	0.09	9.341	20	PASS	0.09	30.619	20	<PQL
LLCCV2	CCV1	1	0.59	2.017	20	PASS	0.09	90.252	20	<PQL
MLCCV1	CCV	1	19.6	1.474	15	PASS	20.78	1.338	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	20.3	0.942	15	PASS	20.08	4.82	15	PASS
CCV1	CCV	1	19.45	1.467	15	PASS	19.97	2.412	15	PASS
CCB1	CCB	1	0.01	127.093	15	<PQL	0.01	434.957	15	<PQL
CCV2	CCV	1	19.4	2.85	15	PASS	19.48	4.033	15	PASS
CCB2	CCB	1	0.01	33.586	15	<PQL	0.01	370.811	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	0.03	198.289	15	<PQL
ICSAB2	ICSAB	1	19.63	1.579	15	PASS	20	2.069	15	PASS
CCV3	CCV	1	19.66	1.457	15	PASS	20.07	2.796	15	PASS
CCB3	CCB	1	0.01	175.477	15	<PQL	<0.000	N/A	15	<PQL
CCV4	CCV	1	19.42	1.859	15	PASS	19.74	3.68	15	PASS
CCB4	CCB	1	0.02	13.617	15	PASS	0	899.538	15	<PQL
CCV5	CCV	1	19.44	1.429	15	PASS	19.26	3.136	15	PASS
CCB5	CCB	1	0.01	45.522	15	<PQL	0.04	76.753	15	<PQL
CCV6	CCV	1	19.65	1.869	15	PASS	19.55	4.488	15	PASS
CCB6	CCB	1	0.01	78.123	15	<PQL	0.03	90.276	15	<PQL
ICSA3	ICSA	1	0.02	10.212	15	PASS	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	19.63	2.88	15	PASS	19.44	2.319	15	PASS
CCV7	CCV	1	19.3	1.27	15	PASS	19.25	5.883	15	PASS
CCB7	CCB	1	0.01	52.094	15	<PQL	0.01	15.419	15	<PQL
CCV8	CCV	1	19.68	1.151	15	PASS	19.49	0.53	15	PASS
CCB8	CCB	1	0.01	27.433	15	<PQL	<0.000	N/A	15	<PQL
CCV9	CCV	1	19.54	1.781	15	PASS	19.1	1.85	15	PASS
CCB9	CCB	1	0.01	26.887	15	<PQL	<0.000	N/A	15	<PQL
CCV10	CCV	1	19.93	0.695	15	PASS	19.33	1.094	15	PASS
CCB10	CCB	1	0.01	51.697	15	<PQL	0.03	181.019	15	<PQL
CCV11	CCV	1	19.41	1.042	15	PASS	19.29	2.916	15	PASS

PERCENT RSD SUMMARY: 241016A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
CCB11	CCB	1	0.02	38.967	15	<PQL	0	893.963	15	<PQL
ICSA4	ICSA	1	0.01	56.165	15	<PQL	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	19.85	1.836	15	PASS	19.27	4.959	15	PASS
CCV12	CCV	1	19.49	0.755	15	PASS	19.41	0.861	15	PASS
CCB12	CCB	1	0.02	28.312	15	<PQL	0.06	30.481	15	<PQL
CCV13	CCV	1	19.67	1.667	15	PASS	18.62	1.388	15	PASS
CCB13	CCB	1	0.01	142.004	15	<PQL	<0.000	N/A	15	<PQL
CCV14	CCV	1	19.43	1.323	15	PASS	19.18	0.406	15	PASS
CCB14	CCB	1	0.02	83.973	15	<PQL	<0.000	N/A	15	<PQL
CCV15	CCV	1	20.08	1.45	15	PASS	19.61	3.802	15	PASS
CCB15	CCB	1	0.01	17.764	15	<PQL	<0.000	N/A	15	<PQL
ICSA5	ICSA	1	0.02	76.502	15	<PQL	<0.000	N/A	15	<PQL
ICSAB5	ICSAB	1	19.9	1.759	15	PASS	19.21	3.32	15	PASS
MB-113224	MBLK	1	0.01	73.086	15	<PQL	<0.000	N/A	15	<PQL
LCS-113224	LCS	1	97.7	0.32	15	PASS	9.12	4.322	15	PASS
N069147-001C	SAMP	1	21.35	1.111	15	PASS	0.99	11.225	15	PASS
N069105-001C	SAMP	1	11.87	1.553	15	PASS	2.03	14.413	15	PASS
N069146-001C	SAMP	1	116.58	1.805	15	PASS	1.54	14.513	15	PASS
N069146-002C	SAMP	1	47.06	0.948	15	PASS	1.37	4.926	15	PASS
N069146-003B	SAMP	1	1.6	1.256	15	PASS	2.13	17.359	15	NR!
N069146-003B	SAMP	10	0.18	12.866	15	PASS	0.23	11.416	15	PASS
N069146-005B	SAMP	1	498.3	1.182	15	PASS	30.29	4.612	15	PASS
N069146-005B	SAMP	10	54.63	0.818	15	PASS	3.02	5.692	15	PASS
CCV16	CCV	1	19.41	1.812	15	PASS	18.99	1.062	15	PASS
CCB16	CCB	1	0.02	29.332	15	<PQL	<0.000	N/A	15	<PQL
N069146-006B	SAMP	1	1376.73	0.933	15	PASS	0.08	62.506	15	<PQL
N069146-006B	SAMP	10	173.23	2.004	15	PASS	0.01	152.77	15	<PQL
N069146-007C	SAMP	1	782.36	2.045	15	PASS	4.56	11.793	15	PASS
N069146-007C	SAMP	10	105.29	0.67	15	PASS	0.5	13.249	15	PASS
N069146-009C	SAMP	1	4.87	2.485	15	PASS	1.62	2.646	15	PASS
N069146-011C	SAMP	1	383.58	0.268	15	PASS	1.04	13.354	15	PASS
N069146-011C	SAMP	10	41.56	1.657	15	PASS	0.08	30.413	15	<PQL
N069146-012C	SAMP	1	282.65	2.807	15	PASS	1.08	7.131	15	PASS
N069146-012C	SAMP	10	29.32	3.105	15	PASS	0.13	40.408	15	NR!
CCV17	CCV	1	19.26	1.609	15	PASS	18.53	6.055	15	PASS
CCB17	CCB	1	0	28.232	15	<PQL	0.01	296.082	15	<PQL
N069146-013C	SAMP	1	6.82	1.308	15	PASS	3.42	6.661	15	PASS
N069146-013C	SAMP	5	1.39	6.207	15	PASS	0.64	32.075	15	NR!
N069146-013C	SAMP	10	0.83	3.202	15	PASS	0.29	17.23	15	NR!
N069146-013C	SAMP	50	0.13	2.931	15	PASS	0.05	14.762	15	PASS
N069146-013C-PS	PS	1	95.91	1.476	15	PASS	13.33	4.674	15	PASS

PERCENT RSD SUMMARY: 241016A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N069146-013C-PS	PS	10	95.89	0.572	15	PASS	10.38	4.448	15	PASS
N069146-013CMS	MS	1	95.55	0.699	15	PASS	13.59	5.273	15	PASS
N069146-013CMS	MS	10	14.54	2.607	15	PASS	1.86	10.388	15	PASS
N069146-013CMSD	MSD	1	95.93	2.591	15	PASS	13.39	3.974	15	PASS
N069146-013CMSD	MSD	10	10.95	2.478	15	PASS	1.4	3.638	15	PASS
CCV18	CCV	1	19.52	1.892	15	PASS	18.98	1.623	15	PASS
CCB18	CCB	1	0.01	134.176	15	<PQL	<0.000	N/A	15	<PQL
N069147-002C	SAMP	1	325.14	2.465	15	PASS	3.63	7.738	15	PASS
N069147-002C	SAMP	10	35.64	1.669	15	PASS	0.36	15.863	15	NR!
N069147-003C	SAMP	1	685.09	0.695	15	PASS	3.23	13.912	15	PASS
N069147-003C	SAMP	10	73.15	0.368	15	PASS	0.3	35.889	15	NR!
N069147-004C	SAMP	1	721.52	2.381	15	PASS	5.44	4.078	15	PASS
N069147-004C	SAMP	10	77.03	2.573	15	PASS	0.4	9.886	15	PASS
N069147-005C	SAMP	1	1474.69	0.921	15	PASS	4.8	2.992	15	PASS
N069147-005C	SAMP	100	17.02	1.005	15	PASS	0.07	72.616	15	<PQL
N069147-006C	SAMP	1	494.74	1.952	15	PASS	3.18	4.25	15	PASS
N069147-006C	SAMP	10	52.03	1.484	15	PASS	0.42	7.328	15	PASS
CCV19	CCV	1	19.6	1.696	15	PASS	18.68	2.004	15	PASS
CCB19	CCB	1	0.01	96.115	15	<PQL	<0.000	N/A	15	<PQL
ICSA6	ICSA	1	0.02	99.059	15	<PQL	<0.000	0	15	PASS
ICSAB6	ICSAB	1	19.82	1.468	15	PASS	19.05	2.117	15	PASS

PERCENT RSD SUMMARY: 241016A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	78 Se [1]				95 Mo [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.11	77.759	15	<PQL	0.08	39.623	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.44	30.535	15	<PQL	0.52	9.043	15	PASS
Std3-5/50 ppb	ICAL	1	4.86	3.301	15	PASS	4.69	2.637	15	PASS
Std4-10/100 ppb	ICAL	1	9.88	0.415	15	PASS	9.5	0.91	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.69	6.305	15	PASS	19.39	1.657	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.01	3.948	15	PASS	39.15	1.933	15	PASS
Std7-100/1000 ppb	ICAL	1	99.52	0.424	15	PASS	97.98	1.196	15	PASS
Std8-200/2000 ppb	ICAL	1	200.48	0.429	15	PASS	201.27	1.115	15	PASS
ICV	ICV	1	9.99	3.984	15	PASS	10.06	2.737	15	PASS
ICB	ICB	1	0	2452.941	15	<PQL	0.1	14.389	15	PASS
LLCCV1	CCV1	1	0.05	125.569	20	<PQL	0.15	13.47	20	PASS
LLCCV2	CCV1	1	0.41	4.985	20	PASS	0.58	6.138	20	PASS
MLCCV1	CCV	1	20.27	3.972	15	PASS	19	1.31	15	PASS
ICSA1	ICSA	1	0.02	84.355	15	<PQL	0.05	28.989	15	<PQL
ICSAB1	ICSAB	1	20.51	1.621	15	PASS	19.41	2.424	15	PASS
CCV1	CCV	1	20.04	1.916	15	PASS	19.38	0.903	15	PASS
CCB1	CCB	1	0.03	112.981	15	<PQL	0.05	29.993	15	<PQL
CCV2	CCV	1	20.01	1.277	15	PASS	19.53	0.986	15	PASS
CCB2	CCB	1	0	1472.764	15	<PQL	0.03	67.26	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	0.03	47.294	15	<PQL
ICSAB2	ICSAB	1	19.65	0.234	15	PASS	19.7	0.098	15	PASS
CCV3	CCV	1	20.11	3.95	15	PASS	19.47	0.616	15	PASS
CCB3	CCB	1	0.02	213.843	15	<PQL	0.05	41.602	15	<PQL
CCV4	CCV	1	19.75	1.232	15	PASS	19.22	2.187	15	PASS
CCB4	CCB	1	0.02	85.297	15	<PQL	0.03	10.156	15	PASS
CCV5	CCV	1	19.61	3.128	15	PASS	19.55	1.807	15	PASS
CCB5	CCB	1	<0.000	0	15	PASS	0.04	19.216	15	<PQL
CCV6	CCV	1	20.17	4.134	15	PASS	19.4	3.202	15	PASS
CCB6	CCB	1	<0.000	N/A	15	<PQL	0.05	28.923	15	<PQL
ICSA3	ICSA	1	<0.000	0	15	PASS	0	79.293	15	<PQL
ICSAB3	ICSAB	1	19.38	2.014	15	PASS	19.68	0.959	15	PASS
CCV7	CCV	1	19.12	1.921	15	PASS	19.5	0.293	15	PASS
CCB7	CCB	1	<0.000	N/A	15	<PQL	0.05	59.068	15	<PQL
CCV8	CCV	1	18.88	3.074	15	PASS	19.47	0.093	15	PASS
CCB8	CCB	1	<0.000	N/A	15	<PQL	0.04	39.663	15	<PQL
CCV9	CCV	1	19.6	2.733	15	PASS	19.47	1.873	15	PASS
CCB9	CCB	1	<0.000	0	15	PASS	0.04	6.485	15	PASS
CCV10	CCV	1	19.64	2.148	15	PASS	19.56	0.603	15	PASS
CCB10	CCB	1	<0.000	0	15	PASS	0.03	14.504	15	PASS
CCV11	CCV	1	20.36	2.014	15	PASS	19.75	1.441	15	PASS

PERCENT RSD SUMMARY: 241016A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	78 Se [1]				95 Mo [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
CCB11	CCB	1	0.01	329.748	15	<PQL	0.03	8.051	15	PASS
ICSA4	ICSA	1	<0.000	N/A	15	<PQL	0.01	55.383	15	<PQL
ICSAB4	ICSAB	1	19.85	0.248	15	PASS	19.41	1.373	15	PASS
CCV12	CCV	1	19.52	3.084	15	PASS	19.95	1.38	15	PASS
CCB12	CCB	1	0.01	3.816	15	PASS	0.04	42.072	15	<PQL
CCV13	CCV	1	19.73	3.498	15	PASS	19.51	0.987	15	PASS
CCB13	CCB	1	<0.000	N/A	15	<PQL	0.04	28.367	15	<PQL
CCV14	CCV	1	19.8	4.146	15	PASS	19.47	0.519	15	PASS
CCB14	CCB	1	<0.000	N/A	15	<PQL	0.04	21.101	15	<PQL
CCV15	CCV	1	20.03	3.486	15	PASS	19.76	1.183	15	PASS
CCB15	CCB	1	<0.000	N/A	15	<PQL	0.03	43.961	15	<PQL
ICSA5	ICSA	1	0.01	314.159	15	<PQL	0	239.282	15	<PQL
ICSAB5	ICSAB	1	19.28	1.966	15	PASS	19.56	1.586	15	PASS
MB-113224	MBLK	1	<0.000	N/A	15	<PQL	0.03	32.826	15	<PQL
LCS-113224	LCS	1	9.9	6.729	15	PASS	9.84	1.404	15	PASS
N069147-001C	SAMP	1	0.08	74.06	15	<PQL	5.58	1.437	15	PASS
N069105-001C	SAMP	1	0.6	20.958	15	NR!	145.36	1.136	15	PASS
N069146-001C	SAMP	1	0.04	51.354	15	<PQL	13.39	2.29	15	PASS
N069146-002C	SAMP	1	0	384.816	15	<PQL	50.75	1.055	15	PASS
N069146-003B	SAMP	1	3.89	3.059	15	PASS	3.96	5.218	15	PASS
N069146-003B	SAMP	10	0.45	10.303	15	PASS	0.43	11.525	15	PASS
N069146-005B	SAMP	1	0.1	94.789	15	<PQL	6.47	2.493	15	PASS
N069146-005B	SAMP	10	0	9341.322	15	<PQL	0.63	4.175	15	PASS
CCV16	CCV	1	19.14	4.306	15	PASS	19.38	2.699	15	PASS
CCB16	CCB	1	<0.000	N/A	15	<PQL	0.04	47.657	15	<PQL
N069146-006B	SAMP	1	0.09	37.982	15	<PQL	1.4	3.327	15	PASS
N069146-006B	SAMP	10	0	1887.23	15	<PQL	0.18	29.145	15	<PQL
N069146-007C	SAMP	1	0.18	46.435	15	<PQL	31.55	1.803	15	PASS
N069146-007C	SAMP	10	0.02	81.205	15	<PQL	4.16	3.181	15	PASS
N069146-009C	SAMP	1	5.69	10.019	15	PASS	25.96	2.326	15	PASS
N069146-011C	SAMP	1	0.01	213.557	15	<PQL	5.21	2.806	15	PASS
N069146-011C	SAMP	10	0	1661.228	15	<PQL	0.53	10.484	15	PASS
N069146-012C	SAMP	1	0.02	193.313	15	<PQL	5.14	2.709	15	PASS
N069146-012C	SAMP	10	<0.000	0	15	PASS	0.46	1.115	15	PASS
CCV17	CCV	1	20.5	0.747	15	PASS	19.58	1.281	15	PASS
CCB17	CCB	1	<0.000	N/A	15	<PQL	0.04	51.062	15	<PQL
N069146-013C	SAMP	1	1.75	28.245	15	NR!	13.59	0.903	15	PASS
N069146-013C	SAMP	5	0.29	24.203	15	<PQL	2.64	1.629	15	PASS
N069146-013C	SAMP	10	0.18	21.193	15	<PQL	1.37	2.012	15	PASS
N069146-013C	SAMP	50	0.05	152.346	15	<PQL	0.24	15.557	15	<PQL
N069146-013C-PS	PS	1	11.61	6.392	15	PASS	24.18	0.859	15	PASS

PERCENT RSD SUMMARY: 241016A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	78 Se [1]				95 Mo [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N069146-013C-PS	PS	10	10.53	8.528	15	PASS	12.09	0.537	15	PASS
N069146-013CMS	MS	1	11.42	3.308	15	PASS	23.92	0.193	15	PASS
N069146-013CMS	MS	10	1.74	5.635	15	PASS	3.43	5.82	15	PASS
N069146-013CMSD	MSD	1	12.29	8.546	15	PASS	23.93	0.878	15	PASS
N069146-013CMSD	MSD	10	1.1	12.11	15	PASS	2.54	1.58	15	PASS
CCV18	CCV	1	20.82	3.328	15	PASS	19.75	1.632	15	PASS
CCB18	CCB	1	<0.000	N/A	15	<PQL	0.05	38.074	15	<PQL
N069147-002C	SAMP	1	0.05	181.653	15	<PQL	7.71	1.762	15	PASS
N069147-002C	SAMP	10	0	2067.953	15	<PQL	0.77	1.593	15	PASS
N069147-003C	SAMP	1	0.08	41.128	15	<PQL	11.45	3.675	15	PASS
N069147-003C	SAMP	10	<0.000	N/A	15	<PQL	1.12	8.355	15	PASS
N069147-004C	SAMP	1	0.02	193.004	15	<PQL	21.95	1.406	15	PASS
N069147-004C	SAMP	10	<0.000	0	15	PASS	2.2	2.549	15	PASS
N069147-005C	SAMP	1	0.03	192.215	15	<PQL	4.77	1.801	15	PASS
N069147-005C	SAMP	100	<0.000	N/A	15	<PQL	0.04	44.012	15	<PQL
N069147-006C	SAMP	1	0.07	43.237	15	<PQL	1.06	11.732	15	PASS
N069147-006C	SAMP	10	0	3713.94	15	<PQL	0.1	24.668	15	<PQL
CCV19	CCV	1	19.74	3.968	15	PASS	19.73	1.652	15	PASS
CCB19	CCB	1	0	5335.872	15	<PQL	0.03	41.213	15	<PQL
ICSA6	ICSA	1	<0.000	N/A	15	<PQL	0.02	15.328	15	<PQL
ICSAB6	ICSAB	1	20.91	1.745	15	PASS	19.57	1.187	15	PASS

PERCENT RSD SUMMARY: 241027A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.1	4.262	15	PASS	0.1	32.134	15	FAIL
Std2-0.5/5 ppb	ICAL	1	0.47	7.607	15	PASS	0.44	8.966	15	PASS
Std3-5/50 ppb	ICAL	1	4.76	2.864	15	PASS	4.99	8.964	15	PASS
Std4-10/100 ppb	ICAL	1	9.8	1.369	15	PASS	9.79	4.054	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.57	0.475	15	PASS	19.28	2.649	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.3	1.242	15	PASS	40.31	2.269	15	PASS
Std7-100/1000 ppb	ICAL	1	99.49	0.426	15	PASS	100.64	0.905	15	PASS
Std8-200/2000 ppb	ICAL	1	200.45	1.119	15	PASS	199.7	1.538	15	PASS
ICV	ICV	1	101.05	1.285	15	PASS	10.02	2.132	15	PASS
ICB	ICB	1	<0.000	N/A	15	<PQL	0.02	106.649	15	<PQL
LLCCV1	CCV	1	0.09	8.602	20	PASS	0.11	2.362	20	PASS
LLCCV2	CCV	1	0.55	1.792	20	PASS	0.11	42.792	20	NR!
MLCCV1	CCV	1	19.46	1.199	15	PASS	19.52	2.509	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	0.01	3.827	15	PASS
ICSAB1	ICSAB	1	20.28	0.195	15	PASS	20.68	0.633	15	PASS
CCV1	CCV	1	18.44	0.526	15	PASS	19.64	0.992	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL	0.04	60.535	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	0.02	206.124	15	<PQL
ICSAB2	ICSAB	1	19.72	0.933	15	PASS	20.24	2.334	15	PASS
CCV2	CCV	1	18.57	2.402	15	PASS	19.78	1.958	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL	0.03	45.902	15	<PQL
CCV3	CCV	1	18.69	0.754	15	PASS	20.06	1.584	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL	0.01	123.668	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	0.04	134.172	15	<PQL
ICSAB3	ICSAB	1	19.32	1.148	15	PASS	20.71	0.718	15	PASS
CCV4	CCV	1	18.44	2.374	15	PASS	19.92	2.769	15	PASS
CCB4	CCB	1	0.01	80.105	15	<PQL	0.04	48.46	15	<PQL
CCV5	CCV	1	18.08	2.681	15	PASS	20.35	1.63	15	PASS
CCV5	CCV	1	18.6	2.098	15	PASS	20.02	1.558	15	PASS
CCB5	CCB	1	0	604.975	15	<PQL	0.05	35.15	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL	0.02	93.8	15	<PQL
ICSAB4	ICSAB	1	18.71	0.481	15	PASS	19.86	2.316	15	PASS
N069146-007C	SAMP	1	760.69	0.468	15	PASS	4.96	0.571	15	PASS
N069146-007C	SAMP	10	81.43	0.768	15	PASS	0.46	17.95	15	NR!
N069146-003B	SAMP	1	1.66	1.427	15	PASS	2.41	5.785	15	PASS
N069146-003B	SAMP	1	1.56	2.637	15	PASS	2.24	2.427	15	PASS
N069146-003B	SAMP	1	1.62	2.011	15	PASS	2.28	0.485	15	PASS
N069146-003B	SAMP	1	1.61	4.304	15	PASS	2.32	2.583	15	PASS
CCV6	CCV	1	18.91	1.106	15	PASS	20.05	3.49	15	PASS
CCB6	CCB	1	<0.000	N/A	15	<PQL	0.04	37.453	15	<PQL

PERCENT RSD SUMMARY: 241027A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
ICSA5	ICSA	1	<0.000	N/A	15	<PQL	0	542.301	15	<PQL
ICSAB5	ICSAB	1	19.26	1.878	15	PASS	20.95	5.888	15	PASS

PERCENT RSD SUMMARY: 241029A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.08	28.099	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.49	7.907	15	PASS
Std3-5/50 ppb	ICAL	1	4.8	1.64	15	PASS
Std4-10/100 ppb	ICAL	1	10	1.594	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.59	0.237	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	38.88	1.626	15	PASS
Std7-100/1000 ppb	ICAL	1	99.36	3.023	15	PASS
Std8-200/2000 ppb	ICAL	1	200.59	1.496	15	PASS
ICV	ICV	1	10.23	1.733	15	PASS
ICB	ICB	1	0.02	59.505	15	<PQL
LLCCV1	CCV1	1	0.11	15.302	20	PASS
LLCCV2	CCV1	1	1	4.624	20	PASS
MLCCV1	CCV	1	19.39	2.069	15	PASS
ICSA1	ICSA	1	0.02	10.645	15	PASS
ICSAB1	ICSAB	1	20.36	0.948	15	PASS
CCV1	CCV	1	19.49	0.653	15	PASS
CCV1	CCV	1	19.43	0.97	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL
CCV2	CCV	1	19.78	1.15	15	PASS
CCB2	CCB	1	0	3231.657	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	20.11	0.068	15	PASS
N069146-013C-MS	MS	1	429.24	0.995	15	PASS
N069146-013C-MS	MS	10	45.58	2.82	15	PASS
N069146-013C-MSD	MSD	1	435.52	0.433	15	PASS
N069146-013C-MSD	MSD	10	45.51	1.802	15	PASS
CCV3	CCV	1	19.02	1.719	15	PASS
CCB3	CCB	1	0	298.21	15	<PQL
CCV4	CCV	1	19.52	3.564	15	PASS
CCB4	CCB	1	0.03	49.917	15	<PQL
CCV5	CCV	1	19.12	3.794	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	0	2817.683	15	<PQL
ICSAB3	ICSAB	1	19.47	2.129	15	PASS

PERCENT RSD SUMMARY: 241030B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	78 Se [1]			
			Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.08	26.874	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.46	21.433	15	<PQL
Std3-5/50 ppb	ICAL	1	4.75	9.738	15	PASS
Std4-10/100 ppb	ICAL	1	9.12	6.565	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	18.53	8.26	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	37.71	1.694	15	PASS
Std7-100/1000 ppb	ICAL	1	96.78	1.317	15	PASS
Std8-200/2000 ppb	ICAL	1	202.27	2.099	15	PASS
ICV	ICV	1	9.48	1.795	15	PASS
ICB	ICB	1	0.02	58.497	15	<PQL
LLCCV1	CCV	1	0.09	35.092	20	<PQL
LLCCV2	CCV	1	0.56	36.444	20	NR!
MLCCV1	CCV	1	18.43	0.616	15	PASS
ICSA1	ICSA	1	0.01	149.758	15	<PQL
ICSAB1	ICSAB	1	18.79	1.187	15	PASS
N069146-013C	SAMP	1	1.73	4.462	15	PASS
CCV1	CCV	1	17.65	2.027	15	PASS
CCB1	CCB	1	0.03	1.487	15	PASS
CCV1	CCV	1	19.65	6.03	15	PASS
CCB1	CCB	1	0.01	159.935	15	<PQL
ICSA2	ICSA	1	0.01	328.167	15	<PQL
ICSAB2	ICSAB	1	19.29	4.18	15	PASS
CCV2	CCV	1	20.12	4.308	15	PASS
CCB2	CCB	1	0.01	150.205	15	<PQL
CCV3	CCV	1	18.93	2.215	15	PASS
CCB3	CCB	1	0.01	158.371	15	<PQL
CCV4	CCV	1	20.14	1.347	15	PASS
CCB4	CCB	1	0	590.246	15	<PQL
CCV5	CCV	1	19.73	8.721	15	PASS
CCB5	CCB	1	0.02	228.225	15	<PQL
ICSA3	ICSA	1	0	598.2	15	<PQL
ICSAB3	ICSAB	1	19.77	10.48	15	PASS
CCV6	CCV	1	19.76	5.293	15	PASS
CCB6	CCB	1	<0.000	N/A	15	<PQL
CCV7	CCV	1	22.51	1.612	15	PASS
CCB7	CCB	1	0.03	120.287	15	<PQL
CCV8	CCV	1	22.82	4.279	15	PASS
CCB8	CCB	1	0.04	118.764	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	21	6.942	15	PASS

PERCENT RSD SUMMARY: 241030B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	78 Se [1]			
			Conc. [ppb]	RSD	Criteria	Comment
CCV9	CCV	1	23.17	3.638	15	PASS
CCB9	CCB	1	0.04	116.211	15	<PQL
CCV10	CCV	1	25.2	5.494	15	PASS
CCB10	CCB	1	<0.000	N/A	15	<PQL
ICSA5	ICSA	1	0.01	256.034	15	<PQL
ICSAB5	ICSAB	1	24.03	2.381	15	PASS

ANALYSIS RUN LOG



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INJECTION LOG: 241016A

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1016001.d	RINSE	ICAL	1	10/16/24 2:07 PM
A1016002.d	RINSE	ICAL	1	10/16/24 2:11 PM
A1016003.d	Cal Blk	IBLK	1	10/16/24 2:16 PM
A1016004.d	Std1-0.1/1 ppb	ICAL	1	10/16/24 2:21 PM
A1016005.d	Std2-0.5/5 ppb	ICAL	1	10/16/24 2:26 PM
A1016006.d	Std3-5/50 ppb	ICAL	1	10/16/24 2:30 PM
A1016007.d	Std4-10/100 ppb	ICAL	1	10/16/24 2:35 PM
A1016008.d	Std5-4.0/20/200 ppb	ICAL	1	10/16/24 2:40 PM
A1016009.d	Std6-8.0/40/400 ppb	ICAL	1	10/16/24 2:45 PM
A1016010.d	Std7-100/1000 ppb	ICAL	1	10/16/24 2:49 PM
A1016011.d	Std8-200/2000 ppb	ICAL	1	10/16/24 2:54 PM
A1016012.d	ICV	ICV	1	10/16/24 3:01 PM
A1016013.d	ICB	ICB	1	10/16/24 3:05 PM
A1016014.d	LLCCV1	CCV1	1	10/16/24 3:10 PM
A1016015.d	LLCCV2	CCV1	1	10/16/24 3:15 PM
A1016016.d	MLCCV1	CCV	1	10/16/24 3:22 PM
A1016017.d	ICSA1	ICSA	1	10/16/24 3:26 PM
A1016018.d	ICSAB1	ICSAB	1	10/16/24 3:31 PM
A1016019.d	N069105-002C	SAMP	10	10/16/24 3:43 PM
A1016020.d	N069105-003C	SAMP	1	10/16/24 3:48 PM
A1016021.d	N069105-005C	SAMP	1	10/16/24 3:52 PM
A1016022.d	N069105-006C	SAMP	1	10/16/24 3:57 PM
A1016023.d	N069105-009C	SAMP	10	10/16/24 4:02 PM
A1016024.d	N069105-009C	SAMP	50	10/16/24 4:06 PM
A1016025.d	N069105-009C-PS	PS	10	10/16/24 4:11 PM
A1016026.d	N069105-009CMS	MS	10	10/16/24 4:16 PM
A1016027.d	N069105-009CMSD	MSD	10	10/16/24 4:20 PM
A1016028.d	N069105-011C	SAMP	10	10/16/24 4:25 PM
A1016029.d	CCV1	CCV	1	10/16/24 4:30 PM
A1016030.d	CCB1	CCB	1	10/16/24 4:34 PM
A1016031.d	N069105-013C	SAMP	1	10/16/24 4:39 PM
A1016032.d	N069105-003C	SAMP	1	10/16/24 4:44 PM
A1016033.d	N069105-006C	SAMP	1	10/16/24 4:48 PM
A1016034.d	N069105-006C	SAMP	1	10/16/24 4:53 PM
A1016035.d	RINSE	ICAL	1	10/16/24 4:58 PM
A1016036.d	CCV2	CCV	1	10/16/24 5:02 PM
A1016037.d	CCB2	CCB	1	10/16/24 5:07 PM
A1016038.d	ICSA2	ICSA	1	10/16/24 5:11 PM
A1016039.d	ICSAB2	ICSAB	1	10/16/24 5:16 PM
A1016040.d	MB-113179	MBLK	1	10/16/24 5:21 PM
A1016041.d	LCS-113179	LCS	1	10/16/24 5:25 PM
A1016042.d	N069101-002B	SAMP	1	10/16/24 5:30 PM

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Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1016043.d	N069101-003D	SAMP	1	10/16/24 5:35 PM
A1016044.d	N069101-003D	SAMP	100	10/16/24 5:39 PM
A1016045.d	N069101-004D	SAMP	1	10/16/24 5:44 PM
A1016046.d	N069101-004D	SAMP	10	10/16/24 5:49 PM
A1016047.d	N069101-005D	SAMP	1	10/16/24 5:53 PM
A1016048.d	N069101-005D	SAMP	10	10/16/24 5:58 PM
A1016049.d	CCV3	CCV	1	10/16/24 6:03 PM
A1016050.d	CCB3	CCB	1	10/16/24 6:07 PM
A1016051.d	N069101-006D	SAMP	1	10/16/24 6:12 PM
A1016052.d	N069101-006D	SAMP	100	10/16/24 6:17 PM
A1016053.d	N069103-001D	SAMP	1	10/16/24 6:21 PM
A1016054.d	N069103-002D	SAMP	1	10/16/24 6:26 PM
A1016055.d	N069103-003B	SAMP	1	10/16/24 6:31 PM
A1016056.d	N069103-004B	SAMP	1	10/16/24 6:35 PM
A1016057.d	N069103-005D	SAMP	1	10/16/24 6:40 PM
A1016058.d	N069103-006D	SAMP	1	10/16/24 6:45 PM
A1016059.d	N069103-006D	SAMP	5	10/16/24 6:49 PM
A1016060.d	CCV4	CCV	1	10/16/24 6:54 PM
A1016061.d	CCB4	CCB	1	10/16/24 6:59 PM
A1016062.d	N069103-006D-PS	PS	1	10/16/24 7:03 PM
A1016063.d	N069103-006DMS	MS	1	10/16/24 7:08 PM
A1016064.d	N069103-006DMSD	MSD	1	10/16/24 7:13 PM
A1016065.d	N069103-007D	SAMP	1	10/16/24 7:17 PM
A1016066.d	N069103-008D	SAMP	1	10/16/24 7:22 PM
A1016067.d	N069103-009D	SAMP	1	10/16/24 7:27 PM
A1016068.d	N069103-010D	SAMP	1	10/16/24 7:31 PM
A1016069.d	N069103-011D	SAMP	1	10/16/24 7:36 PM
A1016070.d	N069103-012D	SAMP	1	10/16/24 7:40 PM
A1016071.d	RINSE	ICAL	1	10/16/24 7:45 PM
A1016072.d	CCV5	CCV	1	10/16/24 7:50 PM
A1016073.d	CCB5	CCB	1	10/16/24 7:54 PM
A1016074.d	N069103-013D	SAMP	1	10/16/24 7:59 PM
A1016075.d	N069103-017D	SAMP	1	10/16/24 8:04 PM
A1016076.d	N069104-001B	SAMP	1	10/16/24 8:08 PM
A1016077.d	RINSE	ICAL	1	10/16/24 8:13 PM
A1016078.d	CCV6	CCV	1	10/16/24 8:18 PM
A1016079.d	CCB6	CCB	1	10/16/24 8:22 PM
A1016080.d	ICSA3	ICSA	1	10/16/24 8:27 PM
A1016081.d	ICSAB3	ICSAB	1	10/16/24 8:32 PM
A1016082.d	MB-113212	MBLK	1	10/16/24 8:36 PM
A1016083.d	LCS-113212	LCS	1	10/16/24 8:41 PM
A1016084.d	N069102-001B	SAMP	1	10/16/24 8:46 PM

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Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1016085.d	N069102-002B	SAMP	1	10/16/24 8:50 PM
A1016086.d	N069102-002B	SAMP	5	10/16/24 8:55 PM
A1016087.d	N069102-002B	SAMP	10	10/16/24 9:00 PM
A1016088.d	N069102-002B	SAMP	50	10/16/24 9:04 PM
A1016089.d	N069102-002B-PS	PS	1	10/16/24 9:09 PM
A1016090.d	N069102-002B-PS	PS	10	10/16/24 9:14 PM
A1016091.d	CCV7	CCV	1	10/16/24 9:18 PM
A1016092.d	CCB7	CCB	1	10/16/24 9:23 PM
A1016093.d	N069102-002B-MS	MS	1	10/16/24 9:28 PM
A1016094.d	N069102-002B-MS	MS	10	10/16/24 9:32 PM
A1016095.d	N069102-002B-MSD	MSD	1	10/16/24 9:37 PM
A1016096.d	N069102-002B-MSD	MSD	10	10/16/24 9:41 PM
A1016097.d	N069102-003B	SAMP	1	10/16/24 9:46 PM
A1016098.d	N069102-004B	SAMP	1	10/16/24 9:51 PM
A1016099.d	N069102-005B	SAMP	1	10/16/24 9:55 PM
A1016100.d	N069148-001B	SAMP	1	10/16/24 10:00 PM
A1016101.d	N069148-002C	SAMP	1	10/16/24 10:05 PM
A1016102.d	N069148-002C	SAMP	100	10/16/24 10:09 PM
A1016103.d	CCV8	CCV	1	10/16/24 10:14 PM
A1016104.d	CCB8	CCB	1	10/16/24 10:19 PM
A1016105.d	N069148-003E	SAMP	1	10/16/24 10:23 PM
A1016106.d	N069148-003E	SAMP	10	10/16/24 10:28 PM
A1016107.d	N069148-004C	SAMP	1	10/16/24 10:33 PM
A1016108.d	N069148-004C	SAMP	100	10/16/24 10:37 PM
A1016109.d	N069148-005B	SAMP	1	10/16/24 10:42 PM
A1016110.d	N069148-005B	SAMP	100	10/16/24 10:47 PM
A1016111.d	N069148-006B	SAMP	1	10/16/24 10:51 PM
A1016112.d	N069148-006B	SAMP	10	10/16/24 10:56 PM
A1016113.d	N069148-007D	SAMP	1	10/16/24 11:01 PM
A1016114.d	RINSE	ICAL	1	10/16/24 11:05 PM
A1016115.d	CCV9	CCV	1	10/16/24 11:10 PM
A1016116.d	CCB9	CCB	1	10/16/24 11:15 PM
A1016117.d	N069148-008D	SAMP	1	10/16/24 11:19 PM
A1016118.d	N069148-009D	SAMP	1	10/16/24 11:24 PM
A1016119.d	N069148-009D	SAMP	10	10/16/24 11:29 PM
A1016120.d	N069148-010D	SAMP	1	10/16/24 11:33 PM
A1016121.d	N069148-010D	SAMP	10	10/16/24 11:38 PM
A1016122.d	N069148-011D	SAMP	1	10/16/24 11:43 PM
A1016123.d	N069148-012D	SAMP	1	10/16/24 11:47 PM
A1016124.d	N069148-012D	SAMP	10	10/16/24 11:52 PM
A1016125.d	N069148-013D	SAMP	1	10/16/24 11:57 PM
A1016126.d	CCV10	CCV	1	10/17/24 12:01 AM

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Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1016127.d	CCB10	CCB	1	10/17/24 12:06 AM
A1016128.d	N069148-014B	SAMP	1	10/17/24 12:10 AM
A1016129.d	N069148-014B	SAMP	100	10/17/24 12:15 AM
A1016130.d	N069148-015B	SAMP	1	10/17/24 12:20 AM
A1016131.d	N069148-015B	SAMP	10	10/17/24 12:25 AM
A1016132.d	CCV11	CCV	1	10/17/24 12:29 AM
A1016133.d	CCB11	CCB	1	10/17/24 12:34 AM
A1016134.d	ICSA4	ICSA	1	10/17/24 12:38 AM
A1016135.d	ICSAB4	ICSAB	1	10/17/24 12:43 AM
A1016136.d	MB-113213	MBLK	1	10/17/24 12:48 AM
A1016137.d	LCS-113213	LCS	1	10/17/24 12:52 AM
A1016138.d	N069148-016B	SAMP	1	10/17/24 12:57 AM
A1016139.d	N069149-001B	SAMP	1	10/17/24 1:02 AM
A1016140.d	N069149-001B	SAMP	5	10/17/24 1:06 AM
A1016141.d	N069149-001B	SAMP	10	10/17/24 1:11 AM
A1016142.d	N069149-001B	SAMP	50	10/17/24 1:16 AM
A1016143.d	N069149-001B-PS	PS	1	10/17/24 1:20 AM
A1016144.d	N069149-001B-PS	PS	10	10/17/24 1:25 AM
A1016145.d	CCV12	CCV	1	10/17/24 1:30 AM
A1016146.d	CCB12	CCB	1	10/17/24 1:34 AM
A1016147.d	N069149-001B-MS	MS	1	10/17/24 1:39 AM
A1016148.d	N069149-001B-MS	MS	10	10/17/24 1:44 AM
A1016149.d	N069149-001B-MSD	MSD	1	10/17/24 1:48 AM
A1016150.d	N069149-001B-MSD	MSD	10	10/17/24 1:53 AM
A1016151.d	N069149-002B	SAMP	1	10/17/24 1:58 AM
A1016152.d	N069149-003B	SAMP	1	10/17/24 2:02 AM
A1016153.d	N069149-004B	SAMP	1	10/17/24 2:07 AM
A1016154.d	N069149-005B	SAMP	1	10/17/24 2:11 AM
A1016155.d	N069149-006B	SAMP	1	10/17/24 2:16 AM
A1016156.d	RINSE	ICAL	1	10/17/24 2:21 AM
A1016157.d	CCV13	CCV	1	10/17/24 2:25 AM
A1016158.d	CCB13	CCB	1	10/17/24 2:30 AM
A1016159.d	N069149-007D	SAMP	1	10/17/24 2:35 AM
A1016160.d	N069149-008D	SAMP	1	10/17/24 2:39 AM
A1016161.d	N069150-001D	SAMP	1	10/17/24 2:44 AM
A1016162.d	N069150-002B	SAMP	1	10/17/24 2:49 AM
A1016163.d	N069150-002B	SAMP	100	10/17/24 2:53 AM
A1016164.d	N069150-003B	SAMP	1	10/17/24 2:58 AM
A1016165.d	N069150-004B	SAMP	1	10/17/24 3:03 AM
A1016166.d	N069150-004B	SAMP	10	10/17/24 3:07 AM
A1016167.d	N069150-005B	SAMP	1	10/17/24 3:12 AM
A1016168.d	N069150-005B	SAMP	10	10/17/24 3:17 AM

INJECTION LOG: 241016A

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1016169.d	CCV14	CCV	1	10/17/24 3:21 AM
A1016170.d	CCB14	CCB	1	10/17/24 3:26 AM
A1016171.d	N069150-006D	SAMP	1	10/17/24 3:31 AM
A1016172.d	N069150-006D	SAMP	100	10/17/24 3:35 AM
A1016173.d	N069150-007D	SAMP	1	10/17/24 3:40 AM
A1016174.d	N069150-007D	SAMP	100	10/17/24 3:45 AM
A1016175.d	N069150-008D	SAMP	1	10/17/24 3:49 AM
A1016176.d	N069150-008D	SAMP	100	10/17/24 3:54 AM
A1016177.d	N069150-009B	SAMP	1	10/17/24 3:59 AM
A1016178.d	N069150-009B	SAMP	10	10/17/24 4:03 AM
A1016179.d	N069150-010B	SAMP	1	10/17/24 4:08 AM
A1016180.d	N069150-010B	SAMP	100	10/17/24 4:12 AM
A1016181.d	CCV15	CCV	1	10/17/24 4:17 AM
A1016182.d	CCB15	CCB	1	10/17/24 4:22 AM
A1016183.d	ICSA5	ICSA	1	10/17/24 4:27 AM
A1016184.d	ICSAB5	ICSAB	1	10/17/24 4:31 AM
A1016185.d	MB-113224	MBLK	1	10/17/24 4:36 AM
A1016186.d	LCS-113224	LCS	1	10/17/24 4:40 AM
A1016187.d	N069147-001C	SAMP	1	10/17/24 4:45 AM
A1016188.d	N069105-001C	SAMP	1	10/17/24 4:50 AM
A1016189.d	N069146-001C	SAMP	1	10/17/24 4:54 AM
A1016190.d	N069146-002C	SAMP	1	10/17/24 4:59 AM
A1016191.d	N069146-003B	SAMP	1	10/17/24 5:04 AM
A1016192.d	N069146-003B	SAMP	10	10/17/24 5:08 AM
A1016193.d	N069146-005B	SAMP	1	10/17/24 5:13 AM
A1016194.d	N069146-005B	SAMP	10	10/17/24 5:18 AM
A1016195.d	CCV16	CCV	1	10/17/24 5:22 AM
A1016196.d	CCB16	CCB	1	10/17/24 5:27 AM
A1016197.d	N069146-006B	SAMP	1	10/17/24 5:32 AM
A1016198.d	N069146-006B	SAMP	10	10/17/24 5:36 AM
A1016199.d	N069146-007C	SAMP	1	10/17/24 5:41 AM
A1016200.d	N069146-007C	SAMP	10	10/17/24 5:46 AM
A1016201.d	N069146-009C	SAMP	1	10/17/24 5:50 AM
A1016202.d	N069146-011C	SAMP	1	10/17/24 5:55 AM
A1016203.d	N069146-011C	SAMP	10	10/17/24 6:00 AM
A1016204.d	N069146-012C	SAMP	1	10/17/24 6:04 AM
A1016205.d	N069146-012C	SAMP	10	10/17/24 6:09 AM
A1016206.d	CCV17	CCV	1	10/17/24 6:14 AM
A1016207.d	CCB17	CCB	1	10/17/24 6:18 AM
A1016208.d	N069146-013C	SAMP	1	10/17/24 6:23 AM
A1016209.d	N069146-013C	SAMP	5	10/17/24 6:28 AM
A1016210.d	N069146-013C	SAMP	10	10/17/24 6:32 AM

INJECTION LOG: 241016A**Instrument ID: NV00922-ICP8**

Data File	Sample Name	Type	DF	Acq. Date-Time
A1016211.d	N069146-013C	SAMP	50	10/17/24 6:37 AM
A1016212.d	N069146-013C-PS	PS	1	10/17/24 6:42 AM
A1016213.d	N069146-013C-PS	PS	10	10/17/24 6:46 AM
A1016214.d	N069146-013CMS	MS	1	10/17/24 6:51 AM
A1016215.d	N069146-013CMS	MS	10	10/17/24 6:56 AM
A1016216.d	N069146-013CMSD	MSD	1	10/17/24 7:00 AM
A1016217.d	N069146-013CMSD	MSD	10	10/17/24 7:05 AM
A1016218.d	CCV18	CCV	1	10/17/24 7:09 AM
A1016219.d	CCB18	CCB	1	10/17/24 7:14 AM
A1016220.d	N069147-002C	SAMP	1	10/17/24 7:19 AM
A1016221.d	N069147-002C	SAMP	10	10/17/24 7:23 AM
A1016222.d	N069147-003C	SAMP	1	10/17/24 7:28 AM
A1016223.d	N069147-003C	SAMP	10	10/17/24 7:33 AM
A1016224.d	N069147-004C	SAMP	1	10/17/24 7:37 AM
A1016225.d	N069147-004C	SAMP	10	10/17/24 7:42 AM
A1016226.d	N069147-005C	SAMP	1	10/17/24 7:47 AM
A1016227.d	N069147-005C	SAMP	100	10/17/24 7:51 AM
A1016228.d	N069147-006C	SAMP	1	10/17/24 7:56 AM
A1016229.d	N069147-006C	SAMP	10	10/17/24 8:01 AM
A1016230.d	CCV19	CCV	1	10/17/24 8:05 AM
A1016231.d	CCB19	CCB	1	10/17/24 8:10 AM
A1016232.d	ICSA6	ICSA	1	10/17/24 8:15 AM
A1016233.d	ICSAB6	ICSAB	1	10/17/24 8:19 AM
A1016234.d	RINSE	ICAL	1	10/17/24 8:24 AM
A1016235.d	RINSE	ICAL	1	10/17/24 8:29 AM
A1016236.d	RINSE	ICAL	1	10/17/24 8:33 AM

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Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1027001.d	RINSE	ICAL	1	10/27/24 9:59 PM
A1027002.d	RINSE	ICAL	1	10/27/24 10:05 PM
A1027003.d	Cal Blk	IBLK	1	10/27/24 10:10 PM
A1027004.d	Std1-0.1/1 ppb	ICAL	1	10/27/24 10:17 PM
A1027005.d	Std2-0.5/5 ppb	ICAL	1	10/27/24 10:23 PM
A1027006.d	Std3-5/50 ppb	ICAL	1	10/27/24 10:29 PM
A1027007.d	Std4-10/100 ppb	ICAL	1	10/27/24 10:35 PM
A1027008.d	Std5-4.0/20/200 ppb	ICAL	1	10/27/24 10:41 PM
A1027009.d	Std6-8.0/40/400 ppb	ICAL	1	10/27/24 10:47 PM
A1027010.d	Std7-100/1000 ppb	ICAL	1	10/27/24 10:53 PM
A1027011.d	Std8-200/2000 ppb	ICAL	1	10/27/24 10:59 PM
A1027012.d	ICV	ICV	1	10/27/24 11:13 PM
A1027013.d	ICB	ICB	1	10/27/24 11:19 PM
A1027014.d	LLCCV1	CCV	1	10/27/24 11:24 PM
A1027015.d	LLCCV2	CCV	1	10/27/24 11:43 PM
A1027016.d	MLCCV1	CCV	1	10/27/24 11:49 PM
A1027017.d	ICSA1	ICSA	1	10/27/24 11:55 PM
A1027018.d	ICSAB1	ICSAB	1	10/28/24 12:00 AM
A1027019.d	N069306-020D	SAMP	1	10/28/24 12:06 AM
A1027020.d	N069306-026D	SAMP	1	10/28/24 12:12 AM
A1027021.d	N069306-032D	SAMP	1	10/28/24 12:18 AM
A1027022.d	N069306-036D	SAMP	1	10/28/24 12:24 AM
A1027023.d	N069234-016D	SAMP	1	10/28/24 12:30 AM
A1027024.d	N069266-033D	SAMP	100	10/28/24 12:36 AM
A1027025.d	N069320-001D	SAMP	1	10/28/24 12:42 AM
A1027026.d	N069306-002D	SAMP	1	10/28/24 12:48 AM
A1027027.d	N069306-006D	SAMP	1	10/28/24 12:54 AM
A1027028.d	N069306-019D	SAMP	1	10/28/24 1:00 AM
A1027029.d	CCV1	CCV	1	10/28/24 1:06 AM
A1027030.d	CCB1	CCB	1	10/28/24 1:12 AM
A1027031.d	ICSA2	ICSA	1	10/28/24 1:17 AM
A1027032.d	ICSAB2	ICSAB	1	10/28/24 1:23 AM
A1027033.d	MB-113592	MBLK	1	10/28/24 1:29 AM
A1027034.d	LCS-113592	LCS	1	10/28/24 1:35 AM
A1027035.d	N069437-001A	SAMP	1	10/28/24 1:41 AM
A1027036.d	N069437-001A	SAMP	5	10/28/24 1:47 AM
A1027037.d	N069437-001A-PS	PS	1	10/28/24 1:53 AM
A1027038.d	N069437-001A-MS	MS	1	10/28/24 1:59 AM
A1027039.d	N069437-001A-MSD	MSD	1	10/28/24 2:05 AM
A1027040.d	RINSE	ICAL	1	10/28/24 2:10 AM
A1027041.d	CCV2	CCV	1	10/28/24 2:16 AM
A1027042.d	CCB2	CCB	1	10/28/24 2:22 AM

INJECTION LOG: 241027A

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1027043.d	MB-113596	MBLK	1	10/28/24 2:28 AM
A1027044.d	LCS-113596	LCS	1	10/28/24 2:34 AM
A1027045.d	N069425-001A	SAMP	1	10/28/24 2:40 AM
A1027046.d	N069425-001A	SAMP	5	10/28/24 2:46 AM
A1027047.d	N069425-001A-PS	PS	1	10/28/24 2:52 AM
A1027048.d	N069425-001A-MS	MS	1	10/28/24 2:57 AM
A1027049.d	N069425-001A-MSD	MSD	1	10/28/24 3:03 AM
A1027050.d	RINSE	ICAL	1	10/28/24 3:09 AM
A1027051.d	CCV3	CCV	1	10/28/24 3:15 AM
A1027052.d	CCB3	CCB	1	10/28/24 3:21 AM
A1027053.d	ICSA3	ICSA	1	10/28/24 3:27 AM
A1027054.d	ICSAB3	ICSAB	1	10/28/24 3:33 AM
A1027055.d	N069102-001A	SAMP	1	10/28/24 3:38 AM
A1027056.d	N069102-001B	SAMP	1	10/28/24 3:44 AM
A1027057.d	N069150-002A	SAMP	1	10/28/24 3:50 AM
A1027058.d	N069150-002B	SAMP	1	10/28/24 3:56 AM
A1027059.d	N069150-006A	SAMP	1	10/28/24 4:02 AM
A1027060.d	N069150-006D	SAMP	1	10/28/24 4:08 AM
A1027061.d	N069150-008A	SAMP	1	10/28/24 4:14 AM
A1027062.d	N069150-008D	SAMP	1	10/28/24 4:20 AM
A1027063.d	RINSE	ICAL	1	10/28/24 4:26 AM
A1027064.d	CCV4	CCV	1	10/28/24 4:32 AM
A1027065.d	CCB4	CCB	1	10/28/24 4:37 AM
A1027066.d	N069266-003A	SAMP	1	10/28/24 4:43 AM
A1027067.d	N069266-003B	SAMP	1	10/28/24 4:49 AM
A1027068.d	N069266-016A	SAMP	1	10/28/24 4:55 AM
A1027069.d	N069266-016D	SAMP	1	10/28/24 5:01 AM
A1027070.d	N069266-031A	SAMP	1	10/28/24 5:07 AM
A1027071.d	N069266-031D	SAMP	1	10/28/24 5:13 AM
A1027072.d	N069266-033A	SAMP	1	10/28/24 5:19 AM
A1027073.d	N069266-033D	SAMP	1	10/28/24 5:25 AM
A1027074.d	N069306-011D	SAMP	100	10/28/24 5:30 AM
A1027075.d	RINSE	ICAL	1	10/28/24 5:36 AM
A1027076.d	CCV5	CCV	1	10/28/24 5:42 AM
A1027077.d	CCV5	CCV	1	10/28/24 5:55 AM
A1027078.d	CCB5	CCB	1	10/28/24 6:01 AM
A1027079.d	ICSA4	ICSA	1	10/28/24 6:07 AM
A1027080.d	ICSAB4	ICSAB	1	10/28/24 6:13 AM
A1027081.d	N069146-007C	SAMP	1	10/28/24 6:18 AM
A1027082.d	N069146-007C	SAMP	10	10/28/24 6:24 AM
A1027083.d	N069146-003B	SAMP	1	10/28/24 6:30 AM
A1027084.d	N069146-003B	SAMP	1	10/28/24 6:36 AM

INJECTION LOG: 241027A

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1027085.d	N069146-003B	SAMP	1	10/28/24 6:42 AM
A1027086.d	N069146-003B	SAMP	1	10/28/24 6:48 AM
A1027087.d	RINSE	ICAL	1	10/28/24 6:54 AM
A1027088.d	CCV6	CCV	1	10/28/24 7:00 AM
A1027089.d	CCB6	CCB	1	10/28/24 7:06 AM
A1027090.d	ICSA5	ICSA	1	10/28/24 7:12 AM
A1027091.d	ICSAB5	ICSAB	1	10/28/24 7:18 AM
A1027092.d	RINSE	ICAL	1	10/28/24 7:23 AM
A1027093.d	RINSE	ICAL	1	10/28/24 7:29 AM
A1027094.d	RINSE	ICAL	1	10/28/24 7:35 AM

INJECTION LOG: 241029A

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1029001.d	RINSE	ICAL	1	10/29/24 1:11 PM
A1029002.d	RINSE	ICAL	1	10/29/24 1:17 PM
A1029003.d	Cal Blk	IBLK	1	10/29/24 1:23 PM
A1029004.d	Std1-0.1/1 ppb	ICAL	1	10/29/24 1:29 PM
A1029005.d	Std2-0.5/5 ppb	ICAL	1	10/29/24 1:35 PM
A1029006.d	Std3-5/50 ppb	ICAL	1	10/29/24 1:41 PM
A1029007.d	Std4-10/100 ppb	ICAL	1	10/29/24 1:47 PM
A1029008.d	Std5-4.0/20/200 ppb	ICAL	1	10/29/24 1:53 PM
A1029009.d	Std6-8.0/40/400 ppb	ICAL	1	10/29/24 1:59 PM
A1029010.d	Std7-100/1000 ppb	ICAL	1	10/29/24 2:05 PM
A1029011.d	Std8-200/2000 ppb	ICAL	1	10/29/24 2:11 PM
A1029012.d	ICV	ICV	1	10/29/24 2:17 PM
A1029013.d	ICB	ICB	1	10/29/24 2:23 PM
A1029014.d	LLCCV1	CCV1	1	10/29/24 2:29 PM
A1029015.d	LLCCV2	CCV1	1	10/29/24 2:35 PM
A1029016.d	MLCCV1	CCV	1	10/29/24 2:41 PM
A1029017.d	ICSA1	ICSA	1	10/29/24 2:47 PM
A1029018.d	ICSAB1	ICSAB	1	10/29/24 2:53 PM
A1029019.d	MB-113637	MBLK	1	10/29/24 3:02 PM
A1029020.d	LCS-113637	LCS	1	10/29/24 3:16 PM
A1029021.d	N069266-007E	SAMP	1	10/29/24 3:22 PM
A1029022.d	N069266-007E	SAMP	5	10/29/24 3:28 PM
A1029023.d	N069266-007E-PS	PS	1	10/29/24 3:33 PM
A1029024.d	N069266-007E-MS	MS	1	10/29/24 3:39 PM
A1029025.d	N069266-007E-MSD	MSD	1	10/29/24 3:45 PM
A1029026.d	N069266-029F	SAMP	1	10/29/24 3:51 PM
A1029027.d	N069319-001E	SAMP	1	10/29/24 3:57 PM
A1029028.d	CCV1	CCV	1	10/29/24 4:03 PM
A1029029.d	CCV1	CCV	1	10/29/24 4:09 PM
A1029030.d	CCB1	CCB	1	10/29/24 4:15 PM
A1029031.d	N069233-009A	SAMP	1	10/29/24 4:21 PM
A1029032.d	N069233-009C	SAMP	1	10/29/24 4:26 PM
A1029033.d	N069233-015A	SAMP	1	10/29/24 4:32 PM
A1029034.d	N069233-015E	SAMP	1	10/29/24 4:38 PM
A1029035.d	CCV2	CCV	1	10/29/24 4:44 PM
A1029036.d	CCB2	CCB	1	10/29/24 4:50 PM
A1029037.d	ICSA2	ICSA	1	10/29/24 4:56 PM
A1029038.d	ICSAB2	ICSAB	1	10/29/24 5:02 PM
A1029039.d	N068846-001B	SAMP	1	10/29/24 5:07 PM
A1029040.d	N068846-001B	SAMP	5	10/29/24 5:13 PM
A1029041.d	N068846-001B-PS	PS	1	10/29/24 5:19 PM
A1029042.d	N068846-001B-MS	MS	1	10/29/24 5:25 PM

INJECTION LOG: 241029A

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1029043.d	N068846-001B-MSD	MSD	1	10/29/24 5:31 PM
A1029044.d	N069146-013C-MS	MS	1	10/29/24 5:37 PM
A1029045.d	N069146-013C-MS	MS	10	10/29/24 5:43 PM
A1029046.d	N069146-013C-MSD	MSD	1	10/29/24 5:49 PM
A1029047.d	N069146-013C-MSD	MSD	10	10/29/24 5:55 PM
A1029048.d	CCV3	CCV	1	10/29/24 6:00 PM
A1029049.d	CCB3	CCB	1	10/29/24 6:06 PM
A1029050.d	MB-113639	MBLK	1	10/29/24 6:12 PM
A1029051.d	LCS-113639	LCS	1	10/29/24 6:18 PM
A1029052.d	N069392-001A	SAMP	1	10/29/24 6:24 PM
A1029053.d	N069392-001A	SAMP	5	10/29/24 6:30 PM
A1029054.d	N069392-001A	SAMP	10	10/29/24 6:36 PM
A1029055.d	N069392-001A	SAMP	50	10/29/24 6:41 PM
A1029056.d	N069392-001A-PS	PS	1	10/29/24 6:47 PM
A1029057.d	N069392-001A-PS	PS	10	10/29/24 6:53 PM
A1029058.d	N069392-001A-MS	MS	1	10/29/24 6:59 PM
A1029059.d	N069392-001A-MS	MS	10	10/29/24 7:05 PM
A1029060.d	CCV4	CCV	1	10/29/24 7:11 PM
A1029061.d	CCB4	CCB	1	10/29/24 7:17 PM
A1029062.d	N069392-001A-MSD	MSD	1	10/29/24 7:23 PM
A1029063.d	N069392-001A-MSD	MSD	10	10/29/24 7:28 PM
A1029064.d	N069392-002A	SAMP	1	10/29/24 7:34 PM
A1029065.d	N069392-002A	SAMP	10	10/29/24 7:40 PM
A1029066.d	N069392-003A	SAMP	1	10/29/24 7:46 PM
A1029067.d	N069392-003A	SAMP	10	10/29/24 7:52 PM
A1029068.d	N069392-004A	SAMP	1	10/29/24 7:58 PM
A1029069.d	N069392-004A	SAMP	10	10/29/24 8:04 PM
A1029070.d	N069392-005A	SAMP	1	10/29/24 8:10 PM
A1029071.d	N069392-005A	SAMP	10	10/29/24 8:15 PM
A1029072.d	CCV5	CCV	1	10/29/24 8:21 PM
A1029073.d	CCB5	CCB	1	10/29/24 8:27 PM
A1029074.d	ICSA3	ICSA	1	10/29/24 8:33 PM
A1029075.d	ICSAB3	ICSAB	1	10/29/24 8:39 PM
A1029076.d	MB-113638	MBLK	1	10/29/24 8:45 PM
A1029077.d	LCS-113638	LCS	1	10/29/24 8:51 PM
A1029078.d	N069263-001B	SAMP	1	10/29/24 8:56 PM
A1029079.d	N069263-001B	SAMP	5	10/29/24 9:02 PM
A1029080.d	N069263-001B-PS	PS	1	10/29/24 9:08 PM
A1029081.d	N069263-001B-MS	MS	1	10/29/24 9:14 PM
A1029082.d	N069263-001B-MSD	MSD	1	10/29/24 9:20 PM
A1029083.d	N069263-002B	SAMP	1	10/29/24 9:26 PM
A1029084.d	N069263-003B	SAMP	1	10/29/24 9:32 PM

INJECTION LOG: 241030B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1030001.d	RINSE	ICAL	1	10/30/24 6:15 PM
B1030002.d	RINSE	ICAL	1	10/30/24 6:20 PM
B1030003.d	Cal Blk	IBLK	1	10/30/24 6:26 PM
B1030004.d	Std1-0.1/1 ppb	ICAL	1	10/30/24 6:32 PM
B1030005.d	Std2-0.5/5 ppb	ICAL	1	10/30/24 6:39 PM
B1030006.d	Std3-5/50 ppb	ICAL	1	10/30/24 6:45 PM
B1030007.d	Std4-10/100 ppb	ICAL	1	10/30/24 6:51 PM
B1030008.d	Std5-4.0/20/200 ppb	ICAL	1	10/30/24 6:57 PM
B1030009.d	Std6-8.0/40/400 ppb	ICAL	1	10/30/24 7:03 PM
B1030010.d	Std7-100/1000 ppb	ICAL	1	10/30/24 7:09 PM
B1030011.d	Std8-200/2000 ppb	ICAL	1	10/30/24 7:15 PM
B1030012.d	ICV	ICV	1	10/30/24 7:24 PM
B1030013.d	ICB	ICB	1	10/30/24 7:29 PM
B1030014.d	LLCCV1	CCV	1	10/30/24 7:35 PM
B1030015.d	LLCCV2	CCV	1	10/30/24 7:41 PM
B1030016.d	MLCCV1	CCV	1	10/30/24 7:50 PM
B1030017.d	ICSA1	ICSA	1	10/30/24 7:56 PM
B1030018.d	ICSAB1	ICSAB	1	10/30/24 8:01 PM
B1030019.d	N069392-003A	SAMP	1	10/30/24 8:07 PM
B1030020.d	N069392-005A	SAMP	1	10/30/24 8:13 PM
B1030021.d	N069233-004E	SAMP	5	10/30/24 8:19 PM
B1030022.d	N069146-013C	SAMP	1	10/30/24 8:25 PM
B1030023.d	RINSE	ICAL	1	10/30/24 8:31 PM
B1030024.d	CCV1	CCV	1	10/30/24 8:37 PM
B1030025.d	CCB1	CCB	1	10/30/24 8:43 PM
B1030026.d	CCV1	CCV	1	10/30/24 8:48 PM
B1030027.d	CCB1	CCB	1	10/30/24 8:54 PM
B1030028.d	ICSA2	ICSA	1	10/30/24 9:00 PM
B1030029.d	ICSAB2	ICSAB	1	10/30/24 9:06 PM
B1030030.d	N069263-001B	SAMP	10	10/30/24 9:12 PM
B1030031.d	N069263-001B	SAMP	50	10/30/24 9:18 PM
B1030032.d	N069263-001B-PS	PS	10	10/30/24 9:24 PM
B1030033.d	N069263-001B-MS	MS	10	10/30/24 9:30 PM
B1030034.d	N069263-001B-MSD	MSD	10	10/30/24 9:35 PM
B1030035.d	N069263-002B	SAMP	10	10/30/24 9:41 PM
B1030036.d	N069263-003B	SAMP	10	10/30/24 9:47 PM
B1030037.d	N069444-001B	SAMP	10	10/30/24 9:53 PM
B1030038.d	N069444-002B	SAMP	10	10/30/24 9:59 PM
B1030039.d	N069445-001B	SAMP	10	10/30/24 10:05 PM
B1030040.d	CCV2	CCV	1	10/30/24 10:11 PM
B1030041.d	CCB2	CCB	1	10/30/24 10:17 PM
B1030042.d	N069498-001B	SAMP	1	10/30/24 10:36 PM

INJECTION LOG: 241030B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1030043.d	N069498-001B	SAMP	10	10/30/24 10:42 PM
B1030044.d	N069498-002B	SAMP	1	10/30/24 10:48 PM
B1030045.d	N069498-002B	SAMP	5	10/30/24 10:54 PM
B1030046.d	N069498-003B	SAMP	1	10/30/24 11:00 PM
B1030047.d	N069498-003B	SAMP	10	10/30/24 11:06 PM
B1030048.d	N069498-005B	SAMP	1	10/30/24 11:12 PM
B1030049.d	N069498-005B	SAMP	10	10/30/24 11:18 PM
B1030050.d	CCV3	CCV	1	10/30/24 11:23 PM
B1030051.d	CCB3	CCB	1	10/30/24 11:29 PM
B1030052.d	N069498-006B	SAMP	1	10/30/24 11:35 PM
B1030053.d	N069498-007B	SAMP	1	10/30/24 11:41 PM
B1030054.d	N069498-008B	SAMP	1	10/30/24 11:47 PM
B1030055.d	RINSE	ICAL	1	10/30/24 11:53 PM
B1030056.d	CCV4	CCV	1	10/30/24 11:59 PM
B1030057.d	CCB4	CCB	1	10/31/24 12:05 AM
B1030058.d	MB-113640	MBLK	1	10/31/24 12:10 AM
B1030059.d	LCS-113640	LCS	1	10/31/24 12:16 AM
B1030060.d	N069263-001C	SAMP	10	10/31/24 12:22 AM
B1030061.d	N069263-001C	SAMP	50	10/31/24 12:28 AM
B1030062.d	N069263-001C-PS	PS	10	10/31/24 12:34 AM
B1030063.d	N069263-001C-MS	MS	10	10/31/24 12:40 AM
B1030064.d	N069263-001C-MSD	MSD	10	10/31/24 12:46 AM
B1030065.d	N069445-001C	SAMP	10	10/31/24 12:52 AM
B1030066.d	CCV5	CCV	1	10/31/24 12:58 AM
B1030067.d	CCB5	CCB	1	10/31/24 1:03 AM
B1030068.d	ICSA3	ICSA	1	10/31/24 1:09 AM
B1030069.d	ICSAB3	ICSAB	1	10/31/24 1:15 AM
B1030070.d	MB-113718	MBLK	1	10/31/24 1:21 AM
B1030071.d	LCS-113718	LCS	1	10/31/24 1:27 AM
B1030072.d	N069543-001B	SAMP	1	10/31/24 1:33 AM
B1030073.d	N069543-002B	SAMP	1	10/31/24 1:39 AM
B1030074.d	N069543-002B	SAMP	5	10/31/24 1:45 AM
B1030075.d	N069543-002B-PS	PS	1	10/31/24 1:51 AM
B1030076.d	N069543-002B-MS	MS	1	10/31/24 1:57 AM
B1030077.d	N069543-002B-MSD	MSD	1	10/31/24 2:02 AM
B1030078.d	N069543-003B	SAMP	1	10/31/24 2:08 AM
B1030079.d	RINSE	ICAL	1	10/31/24 2:14 AM
B1030080.d	CCV6	CCV	1	10/31/24 2:20 AM
B1030081.d	CCB6	CCB	1	10/31/24 2:26 AM
B1030082.d	N069543-004B	SAMP	1	10/31/24 2:32 AM
B1030083.d	N069543-005B	SAMP	1	10/31/24 2:38 AM
B1030084.d	N069543-006B	SAMP	1	10/31/24 2:44 AM

INJECTION LOG: 241030B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1030085.d	N069543-007B	SAMP	1	10/31/24 2:50 AM
B1030086.d	N069543-008B	SAMP	1	10/31/24 2:56 AM
B1030087.d	N069543-009B	SAMP	1	10/31/24 3:02 AM
B1030088.d	N069543-010B	SAMP	1	10/31/24 3:08 AM
B1030089.d	N069543-011B	SAMP	1	10/31/24 3:13 AM
B1030090.d	N069543-012B	SAMP	1	10/31/24 3:19 AM
B1030091.d	RINSE	ICAL	1	10/31/24 3:25 AM
B1030092.d	CCV7	CCV	1	10/31/24 3:31 AM
B1030093.d	CCB7	CCB	1	10/31/24 3:37 AM
B1030094.d	N069543-013B	SAMP	1	10/31/24 3:43 AM
B1030095.d	N069543-014B	SAMP	1	10/31/24 3:49 AM
B1030096.d	N069543-015B	SAMP	1	10/31/24 3:55 AM
B1030097.d	N069543-016B	SAMP	1	10/31/24 4:01 AM
B1030098.d	N069543-017B	SAMP	1	10/31/24 4:06 AM
B1030099.d	N069543-019B	SAMP	1	10/31/24 4:12 AM
B1030100.d	N069543-020B	SAMP	1	10/31/24 4:18 AM
B1030101.d	RINSE	ICAL	1	10/31/24 4:24 AM
B1030102.d	CCV8	CCV	1	10/31/24 4:30 AM
B1030103.d	CCB8	CCB	1	10/31/24 4:36 AM
B1030104.d	ICSA4	ICSA	1	10/31/24 4:42 AM
B1030105.d	ICSAB4	ICSAB	1	10/31/24 4:48 AM
B1030106.d	N069498-001B	SAMP	1	10/31/24 4:54 AM
B1030107.d	N069498-002B	SAMP	1	10/31/24 5:00 AM
B1030108.d	N069498-003B	SAMP	1	10/31/24 5:06 AM
B1030109.d	N069498-005B	SAMP	1	10/31/24 5:11 AM
B1030110.d	N069498-006B	SAMP	1	10/31/24 5:17 AM
B1030111.d	N069498-007B	SAMP	1	10/31/24 5:23 AM
B1030112.d	N069498-008B	SAMP	1	10/31/24 5:29 AM
B1030113.d	RINSE	ICAL	1	10/31/24 5:35 AM
B1030114.d	CCV9	CCV	1	10/31/24 5:41 AM
B1030115.d	CCB9	CCB	1	10/31/24 5:47 AM
B1030116.d	N069498-001B	SAMP	1	10/31/24 5:53 AM
B1030117.d	N069498-002B	SAMP	1	10/31/24 5:59 AM
B1030118.d	N069498-003B	SAMP	1	10/31/24 6:05 AM
B1030119.d	N069498-005B	SAMP	1	10/31/24 6:10 AM
B1030120.d	N069498-006B	SAMP	1	10/31/24 6:16 AM
B1030121.d	N069498-007B	SAMP	1	10/31/24 6:22 AM
B1030122.d	N069498-008B	SAMP	1	10/31/24 6:28 AM
B1030123.d	RINSE	ICAL	1	10/31/24 6:34 AM
B1030124.d	CCV10	CCV	1	10/31/24 6:40 AM
B1030125.d	CCB10	CCB	1	10/31/24 6:46 AM
B1030126.d	ICSA5	ICSA	1	10/31/24 6:52 AM

INJECTION LOG: 241030B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1030127.d	ICSAB5	ICSAB	1	10/31/24 6:57 AM
B1030128.d	RINSE	ICAL	1	10/31/24 7:03 AM
B1030129.d	RINSE	ICAL	1	10/31/24 7:09 AM
B1030130.d	RINSE	ICAL	1	10/31/24 7:15 AM

SAMPLE PREPARATION LOG



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: **10/11/2024 10:04:28 AM**

Reviewed/ Date: *JRB* **11/1/2024**

Page: 1 of 2

Prep End Date: **10/11/2024 2:00:00 PM**

Initials/ Date: *JRB* _____

Prep Factor Units Temp. (°C): Location:

Prep Batch **113224** Prep Code:**3010_W_MSDISS_TPK**

Technician: **Diane Jetajobe**

mL / mL **95.1 DB-4-21**

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-113224	Aqueous		25	<input type="checkbox"/>	25	1.000		
50ML LOT# J585566-8247								
MB-113224	Aqueous		25	<input type="checkbox"/>	25	1.000		
THERMOMETER ID: DIGESTION 7								
N069105-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-002C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-003B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-005B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-006B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-007C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-009C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-011C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-012C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-013C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17137	NITRIC ACID
17144	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-240815C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-240815D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-240815E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-240815F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 10/11/2024 10:04:28 AM

Reviewed/ Date: JRB 11/1/2024

Page: 2 of 2

Prep End Date: 10/11/2024 2:00:00 PM

Initials/ Date: for _____

Prep Factor Units Temp. (°C): Location:

Prep Batch 113224 Prep Code: 3010_W_MSDISS_TPK

Technician: Diane Jetajobe

mL / mL

95.1 DB-4-21

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N069146-013CMS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-013CMSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069147-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069147-002C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069147-003C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069147-004C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069147-005C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069147-006C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17137	NITRIC ACID
17144	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-240815C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-240815D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-240815E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-240815F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

INSTRUMENT TUNING CHECK



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

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399

US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\241015A2.b
Acq. Date-Time 2024-10-16 14:04:02
Report Comment —
Instrument Name G8421A SG19193757

[No Gas]

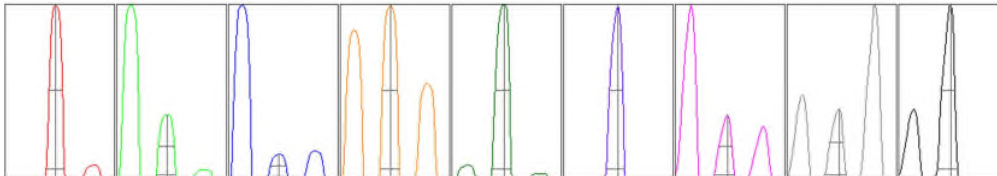
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	5732	57320.64	500.00		3.491	5.000
24	10.00	14186	141860.76	500.00		2.265	5.000
25	10.00	1872	18723.46	500.00		3.189	5.000
26	10.00	2154	21541.38	500.00		2.853	5.000
59	10.00	17823	178227.79	500.00		2.412	5.000
115	10.00	22316	223161.91	500.00		2.329	5.000
206	10.00	4490	44895.13	500.00		3.055	5.000
207	10.00	3723	37227.16	500.00		3.696	5.000
208	10.00	9180	91802.27	500.00		3.113	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.435 %
Doubly Charged 70 / 140 0.934 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	5974.75	8.90	8.90 - 9.10	
24	14347.32	23.90	23.90 - 24.10	
25	1884.60	24.90	24.90 - 25.10	
26	2201.74	25.90	25.90 - 26.10	
59	17562.50	58.95	58.90 - 59.10	
115	22179.07	115.00	114.90 - 115.10	
206	4811.93	205.95	205.90 - 206.10	
207	3966.68	206.95	206.90 - 207.10	
208	10066.58	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.37	0.487	0.900	
24	0.44	0.540	0.900	
25	0.43	0.540	0.900	
26	0.43	0.539	0.900	
59	0.40	0.532	0.900	
115	0.37	0.491	0.900	
206	0.36	0.572	0.900	
207	0.37	0.590	0.900	
208	0.37	0.577	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	1.3 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2620 V Pulse HV 1839 V

[H2]

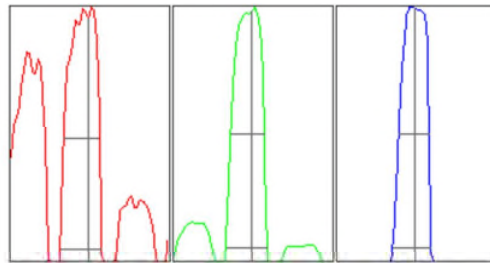
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		120	1196.44			11.184	
59		1916	19161.03			3.803	
115		18319	183185.33			2.847	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.337 %
 Doubly Charged 70 / 140 0.306 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	125.51	26.00	25.90 - 26.10	
59	1990.75	59.00	58.90 - 59.10	
115	18624.11	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.67	0.786	0.900	
59	0.63	0.782	0.900	
115	0.58	0.724	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	--	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	—	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0005	QP Bias	-15.0 V
Mass Offset	126	Axis Offset	-0.06		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	1.3 mm
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EM

Discriminator	4.5 mV	Analog HV	2620 V	Pulse HV	1839 V
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[He]

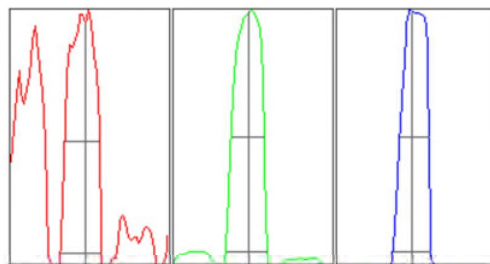
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		46	461.61			13.407	
59		3329	33292.69			3.184	
115		2997	29970.14			3.162	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.131 %
 Doubly Charged 70 / 140 1.188 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	47.75	25.95	25.90 - 26.10	
59	3370.01	58.95	58.90 - 59.10	
115	2995.39	114.95	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.64	0.775	0.900	
59	0.62	0.780	0.900	
115	0.56	0.720	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0005	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	-0.06		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	1.3 mm
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EM

Discriminator	4.5 mV	Analog HV	2620 V	Pulse HV	1839 V
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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\241025A.b
Acq. Date-Time 2024-10-27 21:55:46
Report Comment —
Instrument Name G8421A SG19193757

[No Gas]

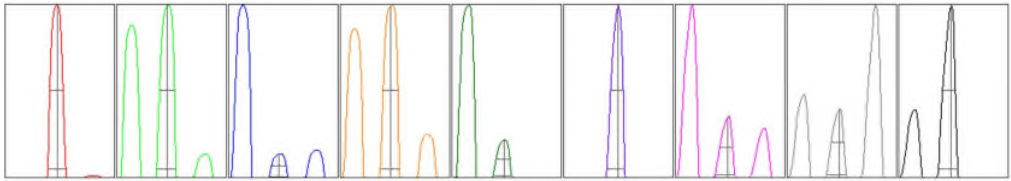
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	21413	214132.12	500.00		1.156	5.000
24	10.00	54771	547711.89	500.00		2.213	5.000
25	10.00	7276	72755.83	500.00		3.116	5.000
26	10.00	8494	84940.04	500.00		3.082	5.000
59	10.00	83624	836244.20	500.00		2.896	5.000
115	10.00	109169	1091686.17	500.00		2.391	5.000
206	10.00	25016	250164.98	500.00		1.765	5.000
207	10.00	19889	198885.89	500.00		1.877	5.000
208	10.00	49287	492873.34	500.00		2.053	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.808 %
Doubly Charged 70 / 140 1.048 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	21160.69	8.95	8.90 - 9.10	
24	53801.08	23.90	23.90 - 24.10	
25	7146.14	24.90	24.90 - 25.10	
26	8211.69	25.90	25.90 - 26.10	
59	80342.35	58.95	58.90 - 59.10	
115	103676.88	115.00	114.90 - 115.10	
206	23802.20	205.95	205.90 - 206.10	
207	19777.21	206.95	206.90 - 207.10	
208	50358.97	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.37	0.486	0.900	
24	0.42	0.534	0.900	
25	0.41	0.497	0.900	
26	0.41	0.530	0.900	
59	0.38	0.504	0.900	
115	0.35	0.484	0.900	
206	0.36	0.534	0.900	
207	0.35	0.540	0.900	
208	0.35	0.536	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.07 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.3 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2633 V Pulse HV 1858 V

[H2]

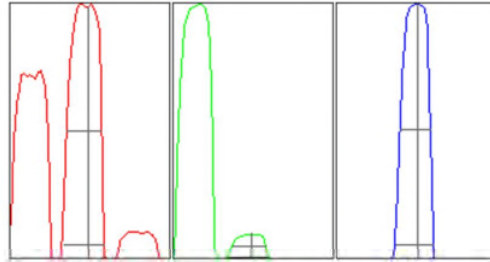
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		417	4167.51			4.733	
59		8246	82464.60			2.003	
115		81225	812246.44			1.865	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.596 %
 Doubly Charged 70 / 140 0.369 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	437.57	26.00	25.90 - 26.10	
59	8476.07	59.00	58.90 - 59.10	
115	83436.85	115.05	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.67	0.788	0.900	
59	0.63	0.747	0.900	
115	0.58	0.733	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.07 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	--	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	—	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0002	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.3 mm
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EM

Discriminator	4.5 mV	Analog HV	2633 V	Pulse HV	1858 V
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[He]

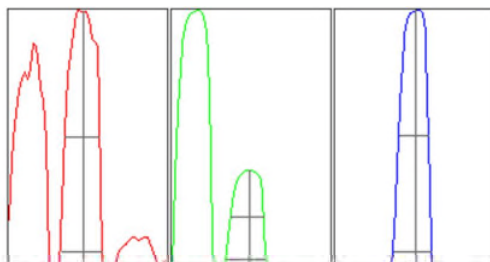
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		183	1827.90			8.897	
59		15590	155900.29			1.677	
115		15030	150299.60			2.200	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.249 %
 Doubly Charged 70 / 140 1.139 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	190.77	25.95	25.90 - 26.10	
59	15803.51	59.00	58.90 - 59.10	
115	15363.71	115.05	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.66	0.786	0.900	
59	0.63	0.747	0.900	
115	0.57	0.731	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.07 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0002	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.3 mm
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EM

Discriminator	4.5 mV	Analog HV	2633 V	Pulse HV	1858 V
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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\241026A.b
Acq. Date-Time 2024-10-29 13:05:42
Report Comment —
Instrument Name G8421A SG19193757

[No Gas]

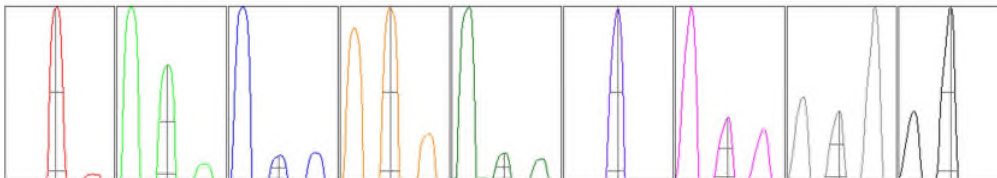
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	9399	93987.85	500.00		1.433	5.000
24	10.00	20512	205115.94	500.00		2.200	5.000
25	10.00	2715	27145.35	500.00		2.874	5.000
26	10.00	3156	31562.95	500.00		2.837	5.000
59	10.00	26510	265103.39	500.00		2.343	5.000
115	10.00	33834	338338.75	500.00		1.956	5.000
206	10.00	8347	83470.09	500.00		1.737	5.000
207	10.00	6620	66204.92	500.00		1.815	5.000
208	10.00	16536	165361.42	500.00		1.731	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.476 %
Doubly Charged 70 / 140 1.100 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	9356.56	8.90	8.90 - 9.10	
24	20330.90	23.90	23.90 - 24.10	
25	2765.32	24.90	24.90 - 25.10	
26	3141.98	25.90	25.90 - 26.10	
59	25661.69	58.95	58.90 - 59.10	
115	32431.06	115.00	114.90 - 115.10	
206	8419.50	205.95	205.90 - 206.10	
207	6909.01	206.95	206.90 - 207.10	
208	17569.19	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.37	0.486	0.900	
24	0.43	0.537	0.900	
25	0.42	0.522	0.900	
26	0.42	0.535	0.900	
59	0.39	0.496	0.900	
115	0.37	0.490	0.900	
206	0.38	0.566	0.900	
207	0.38	0.584	0.900	
208	0.38	0.575	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.07 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	2.0 mm	Torch V	1.6 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2631 V Pulse HV 1855 V

[H2]

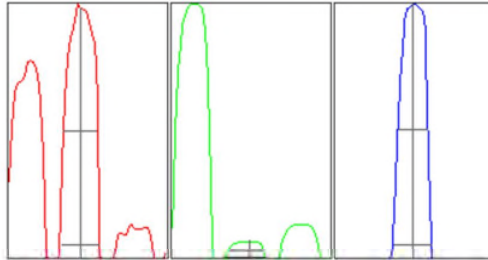
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		151	1510.87			7.910	
59		2572	25721.87			2.444	
115		24801	248007.43			1.906	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.373 %
 Doubly Charged 70 / 140 0.323 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	160.76	25.90	25.90 - 26.10	
59	2609.38	59.00	58.90 - 59.10	
115	25686.72	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.64	0.742	0.900	
59	0.64	0.774	0.900	
115	0.57	0.733	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.07 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	--	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	—	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0007	QP Bias	-15.0 V
Mass Offset	126	Axis Offset	-0.07		

Hardware Settings

Torch

Torch H	2.0 mm	Torch V	1.6 mm
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EM

Discriminator	4.5 mV	Analog HV	2631 V	Pulse HV	1855 V
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[He]

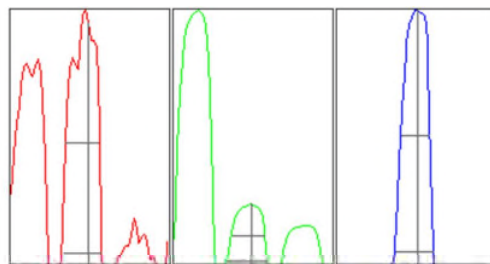
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		66	658.61			12.197	
59		4831	48305.40			1.819	
115		4182	41819.14			2.310	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.152 %
Doubly Charged	70 / 140 1.104 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	73.00	26.00	25.90 - 26.10	
59	4929.73	59.00	58.90 - 59.10	
115	4326.51	115.05	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.63	0.741	0.900	
59	0.63	0.770	0.900	
115	0.56	0.731	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.07 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0007	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	-0.07		

Hardware Settings

Torch

Torch H	2.0 mm	Torch V	1.6 mm
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EM

Discriminator	4.5 mV	Analog HV	2631 V	Pulse HV	1855 V
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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\241029A.b
Acq. Date-Time 2024-10-30 11:32:42
Report Comment --
Instrument Name G8421A SG19193757

[No Gas]

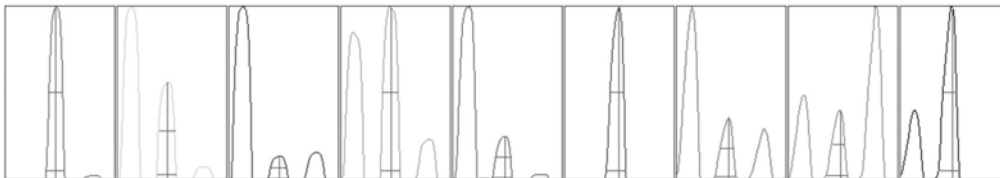
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	14718	147182.52	500.00		1.880	5.000
24	10.00	30724	307240.74	500.00		2.558	5.000
25	10.00	4034	40338.57	500.00		2.808	5.000
26	10.00	4605	46053.25	500.00		3.076	5.000
59	10.00	38189	381893.25	500.00		3.007	5.000
115	10.00	46885	468854.57	500.00		2.623	5.000
206	10.00	10271	102707.30	500.00		1.950	5.000
207	10.00	8019	80190.23	500.00		2.486	5.000
208	10.00	20223	202231.10	500.00		2.308	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.964 %
Doubly Charged 70 / 140 1.064 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	15037.83	8.90	8.90 - 9.10	
24	30065.80	23.90	23.90 - 24.10	
25	3951.19	24.90	24.90 - 25.10	
26	4635.20	25.90	25.90 - 26.10	
59	36696.04	58.95	58.90 - 59.10	
115	44691.17	115.00	114.90 - 115.10	
206	10373.15	205.95	205.90 - 206.10	
207	8481.76	206.95	206.90 - 207.10	
208	21120.23	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.38	0.489	0.900	
24	0.45	0.541	0.900	
25	0.44	0.544	0.900	
26	0.43	0.540	0.900	
59	0.41	0.535	0.900	
115	0.38	0.528	0.900	
206	0.37	0.580	0.900	
207	0.37	0.593	0.900	
208	0.38	0.583	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.07 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.8 mm	Torch V	1.5 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2628 V Pulse HV 1853 V

[H2]

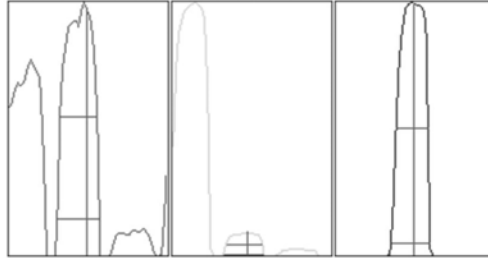
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		231	2309.76			7.634	
59		3389	33894.49			2.902	
115		36414	364137.90			2.148	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.762 %
 Doubly Charged 70 / 140 0.352 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	252.78	26.00	25.90 - 26.10	
59	3554.41	58.95	58.90 - 59.10	
115	37563.66	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.68	0.804	0.900	
59	0.66	0.746	0.900	
115	0.61	0.734	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.07 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	132	Axis Gain	1.0007	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	-0.09		

Hardware Settings

Torch

Torch H	1.8 mm	Torch V	1.5 mm
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EM

Discriminator	4.5 mV	Analog HV	2628 V	Pulse HV	1853 V
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[He]

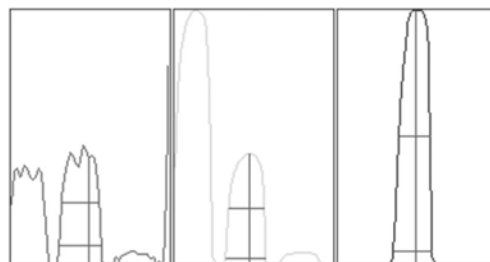
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		101	1011.03			10.946	
59		7478	74782.43			1.944	
115		6284	62841.32			2.413	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.307 %
Doubly Charged	70 / 140 1.135 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	95.26	26.00	25.90 - 26.10	
59	7663.12	58.95	58.90 - 59.10	
115	6364.13	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.69	0.801	0.900	
59	0.66	0.746	0.900	
115	0.59	0.732	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.07 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	132	Axis Gain	1.0007	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.09		

Hardware Settings

Torch

Torch H	1.8 mm	Torch V	1.5 mm
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EM

Discriminator	4.5 mV	Analog HV	2628 V	Pulse HV	1853 V
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INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

420

INITIAL CALIBRATION SUMMARY: 241016A

Instrument ID: NV00922-ICP8

Analyte	Data File	A1016003.d	A1016004.d	A1016005.d	A1016006.d	A1016007.d	A1016008.d	A1016009.d	A1016010.d	A1016011.d	R
	Acq. Date-Time	10/16/2024 02:16 PM	10/16/2024 02:21 PM	10/16/2024 02:26 PM	10/16/2024 02:30 PM	10/16/2024 02:35 PM	10/16/2024 02:40 PM	10/16/2024 02:45 PM	10/16/2024 02:49 PM	10/16/2024 02:54 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L		
45 Sc (ISTD) [2]	CPS	28528.8		28536.6	28262.9	28908.3	28272.8	28643.4	28693.5	29142.1	
55 Mn [2]	CPS	14.4		545.6	4888.5	10044.2	19577.2	40072.7	101333	206918.5	1.0000
52 Cr [2]	CPS	156.7		1046.7	9249.3	18996.5	37706.1	76391.2	192198.7	392855.1	1.0000
72 Ge (ISTD) [1]	CPS	53397.8		53028.9	53427.9	53832.6	53633	54058.9	54413.3	54587.3	
78 Se [1]	CPS	2.2		60	653.4	1335.6	2648	5287.6	13575.7	27433.1	1.0000
72 Ge (ISTD) [2]	CPS	15482.9	15148.2	15152.6	15331.6	15257.1	15302.7	15508.5	15366.1	15991.2	
75 As [2]	CPS	7.8	23.3	101.1	1005.6	2040.1	4162.8	8562.3	21666.6	44013.5	0.9999
103 Rh (ISTD) [2]	CPS	413507.4		416442.7	416044.4	418413.1	413108.9	422762.4	423534.9	424244.4	
95 Mo [2]	CPS	8.9		545.6	4840.7	9848.6	19844.5	40994.3	102779.6	211457	0.9999
159 Tb (ISTD) [3]	CPS	1301130.7		1292777.4	1283143.5	1308143.4	1292732.7	1289641.2	1316291.6	1313586.5	
137 Ba [3]	CPS	30		1273.4	11531.1	23057.3	47623.2	96725.2	244064.3	491584.9	1.0000

Standard Code
ICAL: 2MSST-240311B
ICAL: 2MSST-240311C
ICAL: 2MWST-240815K
ICV: 2MWST-240815G
LLICV: 2MWST-240815J
IS Mix: 2MWST-240815A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION SUMMARY: 241027A

Instrument ID: NV00922-ICP8

Analyte	Data File	A1027003.d	A1027004.d	A1027005.d	A1027006.d	A1027007.d	A1027008.d	A1027009.d	A1027010.d	A1027011.d	R
	Acq. Date-Time	10/27/2024 10:10 PM	10/27/2024 10:17 PM	10/27/2024 10:23 PM	10/27/2024 10:29 PM	10/27/2024 10:35 PM	10/27/2024 10:41 PM	10/27/2024 10:47 PM	10/27/2024 10:53 PM	10/27/2024 10:59 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
	Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	
45 Sc (ISTD) [2]	CPS	43297		43763.8	43249.2	43429.5	43699.1	44092.4	44119.1	44651.7	
55 Mn [2]	CPS	30		791.1	7677.4	15828.7	31774.8	64343	162960.4	332210	1.0000
72 Ge (ISTD) [2]	CPS	24548.4	24443.8	24432.7	24423.8	24498.3	24875.6	24932.3	24825.5	25646.8	
75 As [2]	CPS	5.6	42.2	158.9	1761.2	3450.4	6901.5	14453.1	35918.3	73604.9	1.0000

Standard Code
ICAL: 2MSST-240311B
ICAL: 2MSST-240311C
ICAL: 2MWST-240815K
ICV: 2MWST-240815G
LLICV: 2MWST-240815J
IS Mix: 2MWST-240815A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION SUMMARY: 241029A

Instrument ID: NV00922-ICP8

Analyte	Data File	A1029003.d	A1029005.d	A1029006.d	A1029007.d	A1029008.d	A1029009.d	A1029010.d	A1029011.d	R
	Acq. Date-Time	10/29/2024 01:23 PM	10/29/2024 01:35 PM	10/29/2024 01:41 PM	10/29/2024 01:47 PM	10/29/2024 01:53 PM	10/29/2024 01:59 PM	10/29/2024 02:05 PM	10/29/2024 02:11 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
	Concentration	0.00	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	
45 Sc (ISTD) [2]	CPS	14215	14245	14513	14023.7	14574.2	14664.3	14527.5	14595.3	
52 Cr [2]	CPS	71.1	547.8	4827.4	9635.1	19542.6	38955.6	98477.3	199753.5	1.0000

Standard Code
ICAL: 2MSST-240311B
ICAL: 2MSST-240311C
ICAL: 2MWST-240815K
ICV: 2MWST-240815G
LLICV: 2MWST-240815J
IS Mix: 2MWST-240815A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION SUMMARY: 241030B

Instrument ID: NV00922-ICP8

Analyte	Data File	B1030003.d	B1030005.d	B1030006.d	B1030007.d	B1030008.d	B1030009.d	B1030010.d	B1030011.d	
	Acq. Date-Time	10/30/2024 06:26 PM	10/30/2024 06:39 PM	10/30/2024 06:45 PM	10/30/2024 06:51 PM	10/30/2024 06:57 PM	10/30/2024 07:03 PM	10/30/2024 07:09 PM	10/30/2024 07:15 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
	Concentration	0.00	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	R
72 Ge (ISTD) [1]	CPS	54112.4	52985.4	53290.9	52610.8	53586.3	52026.9	52798.2	49903.5	
78 Se [1]	CPS	1.1	80	821.1	1554.5	3214.8	6356.8	16549.5	32690.5	0.9998

Standard Code
ICAL: 2MSST-240311B
ICAL: 2MSST-240311C
ICAL: 2MWST-240815K
ICV: 2MWST-240815G
LLICV: 2MWST-240815J
IS Mix: 2MWST-240815A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

425

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: ICV	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6243983							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.108	0.10	10.00	0	101	90	110				
Barium	10.047	1.0	10.00	0	100	90	110				
Manganese	100.348	0.50	100.0	0	100	90	110				
Molybdenum	10.055	0.50	10.00	0	101	90	110				
Selenium	9.995	0.50	10.00	0	99.9	90	110				

Sample ID LLCCV2	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: ZZZZZZ	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6243986							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.087	0.10	0.1000	0	86.5	80	120				
Barium	1.076	1.0	1.000	0	108	80	120				
Manganese	0.589	0.50	0.5000	0	118	80	120				
Molybdenum	0.581	0.50	0.5000	0	116	80	120				
Selenium	0.406	0.50	0.5000	0	81.2	80	120				

Sample ID MLCCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6243987							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.781	0.10	20.00	0	104	90	110				
Barium	19.529	1.0	20.00	0	97.6	90	110				
Manganese	19.604	0.50	20.00	0	98.0	90	110				
Molybdenum	19.002	0.50	20.00	0	95.0	90	110				
Selenium	20.266	0.50	20.00	0	101	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244000							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.966	0.10	20.00	0	99.8	90	110				
Barium	20.252	1.0	20.00	0	101	90	110				
Manganese	19.451	0.50	20.00	0	97.3	90	110				
Molybdenum	19.380	0.50	20.00	0	96.9	90	110				
Selenium	20.039	0.50	20.00	0	100	90	110				

Sample ID CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244006							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.477	0.10	20.00	0	97.4	90	110				
Barium	20.464	1.0	20.00	0	102	90	110				
Manganese	19.398	0.50	20.00	0	97.0	90	110				
Molybdenum	19.526	0.50	20.00	0	97.6	90	110				
Selenium	20.007	0.50	20.00	0	100	90	110				

Sample ID CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244019							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.066	0.10	20.00	0	100	90	110				
Barium	20.195	1.0	20.00	0	101	90	110				
Manganese	19.659	0.50	20.00	0	98.3	90	110				
Molybdenum	19.469	0.50	20.00	0	97.3	90	110				
Selenium	20.108	0.50	20.00	0	101	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/16/2024	SeqNo: 6244030						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.741	0.10	20.00	0	98.7	90	110				
Barium	20.489	1.0	20.00	0	102	90	110				
Manganese	19.417	0.50	20.00	0	97.1	90	110				
Molybdenum	19.219	0.50	20.00	0	96.1	90	110				
Selenium	19.754	0.50	20.00	0	98.8	90	110				

Sample ID CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/16/2024	SeqNo: 6244041						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.262	0.10	20.00	0	96.3	90	110				
Barium	20.810	1.0	20.00	0	104	90	110				
Manganese	19.437	0.50	20.00	0	97.2	90	110				
Molybdenum	19.553	0.50	20.00	0	97.8	90	110				
Selenium	19.608	0.50	20.00	0	98.0	90	110				

Sample ID CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/16/2024	SeqNo: 6244046						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.546	0.10	20.00	0	97.7	90	110				
Barium	21.212	1.0	20.00	0	106	90	110				
Manganese	19.655	0.50	20.00	0	98.3	90	110				
Molybdenum	19.402	0.50	20.00	0	97.0	90	110				
Selenium	20.165	0.50	20.00	0	101	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/16/2024	SeqNo: 6244059						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.247	0.10	20.00	0	96.2	90	110				
Barium	21.414	1.0	20.00	0	107	90	110				
Manganese	19.302	0.50	20.00	0	96.5	90	110				
Molybdenum	19.505	0.50	20.00	0	97.5	90	110				
Selenium	19.118	0.50	20.00	0	95.6	90	110				

Sample ID CCV8	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/16/2024	SeqNo: 6244071						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.492	0.10	20.00	0	97.5	90	110				
Barium	21.451	1.0	20.00	0	107	90	110				
Manganese	19.685	0.50	20.00	0	98.4	90	110				
Molybdenum	19.465	0.50	20.00	0	97.3	90	110				
Selenium	18.880	0.50	20.00	0	94.4	90	110				

Sample ID CCV9	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/16/2024	SeqNo: 6244082						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.096	0.10	20.00	0	95.5	90	110				
Barium	21.191	1.0	20.00	0	106	90	110				
Manganese	19.544	0.50	20.00	0	97.7	90	110				
Molybdenum	19.469	0.50	20.00	0	97.3	90	110				
Selenium	19.600	0.50	20.00	0	98.0	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV10	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244093							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.327	0.10	20.00	0	96.6	90	110				
Barium	21.294	1.0	20.00	0	106	90	110				
Manganese	19.934	0.50	20.00	0	99.7	90	110				
Molybdenum	19.557	0.50	20.00	0	97.8	90	110				
Selenium	19.642	0.50	20.00	0	98.2	90	110				

Sample ID CCV11	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244099							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.288	0.10	20.00	0	96.4	90	110				
Barium	20.800	1.0	20.00	0	104	90	110				
Manganese	19.409	0.50	20.00	0	97.0	90	110				
Molybdenum	19.749	0.50	20.00	0	98.7	90	110				
Selenium	20.359	0.50	20.00	0	102	90	110				

Sample ID CCV12	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244112							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.406	0.10	20.00	0	97.0	90	110				
Barium	21.259	1.0	20.00	0	106	90	110				
Manganese	19.489	0.50	20.00	0	97.4	90	110				
Molybdenum	19.955	0.50	20.00	0	99.8	90	110				
Selenium	19.522	0.50	20.00	0	97.6	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV13	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244123							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.617	0.10	20.00	0	93.1	90	110				
Barium	20.895	1.0	20.00	0	104	90	110				
Manganese	19.674	0.50	20.00	0	98.4	90	110				
Molybdenum	19.511	0.50	20.00	0	97.6	90	110				
Selenium	19.729	0.50	20.00	0	98.6	90	110				

Sample ID CCV14	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244135							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.176	0.10	20.00	0	95.9	90	110				
Barium	20.969	1.0	20.00	0	105	90	110				
Manganese	19.429	0.50	20.00	0	97.1	90	110				
Molybdenum	19.468	0.50	20.00	0	97.3	90	110				
Selenium	19.803	0.50	20.00	0	99.0	90	110				

Sample ID CCV15	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244147							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.606	0.10	20.00	0	98.0	90	110				
Barium	21.238	1.0	20.00	0	106	90	110				
Manganese	20.081	0.50	20.00	0	100	90	110				
Molybdenum	19.756	0.50	20.00	0	98.8	90	110				
Selenium	20.033	0.50	20.00	0	100	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV16	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244161							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.990	0.10	20.00	0	95.0	90	110				
Barium	21.375	1.0	20.00	0	107	90	110				
Manganese	19.413	0.50	20.00	0	97.1	90	110				
Molybdenum	19.380	0.50	20.00	0	96.9	90	110				
Selenium	19.143	0.50	20.00	0	95.7	90	110				

Sample ID CCV17	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244172							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.531	0.10	20.00	0	92.7	90	110				
Barium	20.875	1.0	20.00	0	104	90	110				
Manganese	19.259	0.50	20.00	0	96.3	90	110				
Molybdenum	19.582	0.50	20.00	0	97.9	90	110				
Selenium	20.499	0.50	20.00	0	102	90	110				

Sample ID CCV18	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244184							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.984	0.10	20.00	0	94.9	90	110				
Barium	21.298	1.0	20.00	0	106	90	110				
Manganese	19.515	0.50	20.00	0	97.6	90	110				
Molybdenum	19.754	0.50	20.00	0	98.8	90	110				
Selenium	20.817	0.50	20.00	0	104	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV19	SampType: CCV	TestCode: 6020_DIS_TP Units: µg/L				Prep Date:			RunNo: 194443		
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020				Analysis Date: 10/17/2024			SeqNo: 6244196		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.679	0.10	20.00	0	93.4	90	110				
Barium	21.290	1.0	20.00	0	106	90	110				
Manganese	19.599	0.50	20.00	0	98.0	90	110				
Molybdenum	19.733	0.50	20.00	0	98.7	90	110				
Selenium	19.742	0.50	20.00	0	98.7	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194864						
Client ID: ICV	Batch ID: R194864	TestNo: EPA 6020		Analysis Date: 10/27/2024	SeqNo: 6267317						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.024	0.10	10.00	0	100	90	110				
Manganese	101.050	0.50	100.0	0	101	90	110				

Sample ID LLCCV1	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194864						
Client ID: ZZZZZ	Batch ID: R194864	TestNo: EPA 6020		Analysis Date: 10/27/2024	SeqNo: 6267319						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.114	0.10	0.1000	0	114	80	120				

Sample ID LLCCV2	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194864						
Client ID: ZZZZZ	Batch ID: R194864	TestNo: EPA 6020		Analysis Date: 10/27/2024	SeqNo: 6267320						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	0.545	0.50	0.5000	0	109	80	120				

Sample ID MLCCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194864						
Client ID: CCV	Batch ID: R194864	TestNo: EPA 6020		Analysis Date: 10/27/2024	SeqNo: 6267321						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.521	0.10	20.00	0	97.6	90	110				
Manganese	19.461	0.50	20.00	0	97.3	90	110				

Sample ID CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194864						
Client ID: CCV	Batch ID: R194864	TestNo: EPA 6020		Analysis Date: 10/28/2024	SeqNo: 6267334						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.644	0.10	20.00	0	98.2	90	110				
Manganese	18.438	0.50	20.00	0	92.2	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194864						
Client ID: CCV	Batch ID: R194864	TestNo: EPA 6020		Analysis Date: 10/28/2024	SeqNo: 6267345						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.779	0.10	20.00	0	98.9	90	110				
Manganese	18.571	0.50	20.00	0	92.9	90	110				

Sample ID CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194864						
Client ID: CCV	Batch ID: R194864	TestNo: EPA 6020		Analysis Date: 10/28/2024	SeqNo: 6267354						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.061	0.10	20.00	0	100	90	110				
Manganese	18.693	0.50	20.00	0	93.5	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194864						
Client ID: CCV	Batch ID: R194864	TestNo: EPA 6020		Analysis Date: 10/28/2024	SeqNo: 6267366						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.924	0.10	20.00	0	99.6	90	110				
Manganese	18.438	0.50	20.00	0	92.2	90	110				

Sample ID CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194864						
Client ID: CCV	Batch ID: R194864	TestNo: EPA 6020		Analysis Date: 10/28/2024	SeqNo: 6267378						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.024	0.10	20.00	0	100	90	110				
Manganese	18.603	0.50	20.00	0	93.0	90	110				

Sample ID CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194864						
Client ID: CCV	Batch ID: R194864	TestNo: EPA 6020		Analysis Date: 10/28/2024	SeqNo: 6267388						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.052	0.10	20.00	0	100	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV6	SampType: CCV	TestCode: 6020_DIS_TP Units: µg/L				Prep Date:			RunNo: 194864		
Client ID: CCV	Batch ID: R194864	TestNo: EPA 6020				Analysis Date: 10/28/2024			SeqNo: 6267388		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	18.907	0.50	20.00	0	94.5	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195048
Client ID: ICV	Batch ID: R195048	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6278207	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Selenium	9.481	0.50	10.00	0	94.8 90 110

Sample ID LLCCV2	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195048
Client ID: ZZZZZ	Batch ID: R195048	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6278210	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Selenium	0.555	0.50	0.5000	0	111 80 120

Sample ID MLCCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195048
Client ID: CCV	Batch ID: R195048	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6278211	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Selenium	18.430	0.50	20.00	0	92.1 90 110

Sample ID CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195048
Client ID: CCV	Batch ID: R195048	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6278220	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Selenium	19.648	0.50	20.00	0	98.2 90 110

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446						
Client ID: ICV	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244352							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	10.309	1.0	10.00	0	103	90	110				

Sample ID LLCCV2	SampType: CCV1	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446						
Client ID: ZZZZZ	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244355							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	1.044	1.0	1.000	0	104	80	120				

Sample ID MLCCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446						
Client ID: CCV	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244356							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.689	1.0	20.00	0	98.4	90	110				

Sample ID CCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446						
Client ID: CCV	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244369							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.058	1.0	20.00	0	100	90	110				

Sample ID CCV2	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446						
Client ID: CCV	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244375							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.157	1.0	20.00	0	101	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCV3	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446						
Client ID: CCV	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244388							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.132	1.0	20.00	0	101	90	110				
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Sample ID CCV4	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446						
Client ID: CCV	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244399							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.204	1.0	20.00	0	101	90	110				
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Sample ID CCV5	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446						
Client ID: CCV	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244410							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.076	1.0	20.00	0	100	90	110				
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Sample ID CCV6	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446						
Client ID: CCV	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244415							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.957	1.0	20.00	0	99.8	90	110				
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Sample ID CCV7	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446						
Client ID: CCV	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244428							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.884	1.0	20.00	0	99.4	90	110				
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCV8	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446						
Client ID: CCV	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244440							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.803	1.0	20.00	0	99.0	90	110				

Sample ID CCV9	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446						
Client ID: CCV	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244451							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.944	1.0	20.00	0	99.7	90	110				

Sample ID CCV10	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446						
Client ID: CCV	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244462							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.974	1.0	20.00	0	99.9	90	110				

Sample ID CCV11	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446						
Client ID: CCV	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244468							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.826	1.0	20.00	0	99.1	90	110				

Sample ID CCV12	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446						
Client ID: CCV	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244481							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.081	1.0	20.00	0	100	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCV13	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446						
Client ID: CCV	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244492							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.957	1.0	20.00	0	99.8	90	110				

Sample ID CCV14	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446						
Client ID: CCV	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244504							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.708	1.0	20.00	0	98.5	90	110				

Sample ID CCV15	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446						
Client ID: CCV	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244516							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.224	1.0	20.00	0	101	90	110				

Sample ID CCV16	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446						
Client ID: CCV	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244530							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.597	1.0	20.00	0	98.0	90	110				

Sample ID CCV17	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446						
Client ID: CCV	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244541							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.139	1.0	20.00	0	101	90	110				

Qualifiers:

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| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCV18	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446						
Client ID: CCV	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244553							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.537	1.0	20.00	0	97.7	90	110				

Sample ID CCV19	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446						
Client ID: CCV	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244565							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.000	1.0	20.00	0	100	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194926						
Client ID: ICV	Batch ID: R194926	TestNo: EPA 6020		Analysis Date: 10/29/2024	SeqNo: 6270650						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	10.229	1.0	10.00	0	102	90	110				
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Sample ID LLCCV2	SampType: CCV1	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194926						
Client ID: ZZZZZ	Batch ID: R194926	TestNo: EPA 6020		Analysis Date: 10/29/2024	SeqNo: 6270653						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	0.998	1.0	1.000	0	99.8	80	120				
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Sample ID MLCCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194926						
Client ID: CCV	Batch ID: R194926	TestNo: EPA 6020		Analysis Date: 10/29/2024	SeqNo: 6270654						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.393	1.0	20.00	0	97.0	90	110				
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Sample ID CCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194926						
Client ID: CCV	Batch ID: R194926	TestNo: EPA 6020		Analysis Date: 10/29/2024	SeqNo: 6270667						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.433	1.0	20.00	0	97.2	90	110				
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Sample ID CCV2	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194926						
Client ID: CCV	Batch ID: R194926	TestNo: EPA 6020		Analysis Date: 10/29/2024	SeqNo: 6270673						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.779	1.0	20.00	0	98.9	90	110				
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCV3	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194926						
Client ID: CCV	Batch ID: R194926	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6270686							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.021	1.0	20.00	0	95.1	90	110				
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Sample ID CCV4	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194926						
Client ID: CCV	Batch ID: R194926	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6270698							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.525	1.0	20.00	0	97.6	90	110				
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Sample ID CCV5	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194926						
Client ID: CCV	Batch ID: R194926	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6270710							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.117	1.0	20.00	0	95.6	90	110				
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
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“Serving Clients with Passion and Professionalism”

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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: ICB	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/16/2024	SeqNo: 6243984						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	0.095	0.50									
Selenium	ND	0.50									

Sample ID CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/16/2024	SeqNo: 6244001						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/16/2024	SeqNo: 6244007						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/16/2024	SeqNo: 6244020						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/16/2024	SeqNo: 6244031						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/16/2024	SeqNo: 6244042						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/16/2024	SeqNo: 6244047						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/16/2024	SeqNo: 6244060						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/16/2024	SeqNo: 6244072						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

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ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/16/2024	SeqNo: 6244083						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB10	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244094						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB11	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244100						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

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ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB12	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244113						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB13	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244124						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB14	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244136						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

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ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB15	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244148						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB16	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244162						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB17	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244173						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

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ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB18	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244185							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB19	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244197							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194864						
Client ID: ICB	Batch ID: R194864	TestNo: EPA 6020		Analysis Date: 10/27/2024	SeqNo: 6267318						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic
Manganese

ND 0.10
ND 0.50

Sample ID CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194864						
Client ID: CCB	Batch ID: R194864	TestNo: EPA 6020		Analysis Date: 10/28/2024	SeqNo: 6267335						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic
Manganese

ND 0.10
ND 0.50

Sample ID CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194864						
Client ID: CCB	Batch ID: R194864	TestNo: EPA 6020		Analysis Date: 10/28/2024	SeqNo: 6267346						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic
Manganese

ND 0.10
ND 0.50

Sample ID CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194864						
Client ID: CCB	Batch ID: R194864	TestNo: EPA 6020		Analysis Date: 10/28/2024	SeqNo: 6267355						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic
Manganese

ND 0.10
ND 0.50

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194864						
Client ID: CCB	Batch ID: R194864	TestNo: EPA 6020		Analysis Date: 10/28/2024	SeqNo: 6267367						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic

ND 0.10

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194864
Client ID: CCB	Batch ID: R194864	TestNo: EPA 6020	Analysis Date: 10/28/2024	SeqNo: 6267367	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Manganese	ND	0.50			

Sample ID CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194864
Client ID: CCB	Batch ID: R194864	TestNo: EPA 6020	Analysis Date: 10/28/2024	SeqNo: 6267379	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Manganese	ND	0.50			

Sample ID CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194864
Client ID: CCB	Batch ID: R194864	TestNo: EPA 6020	Analysis Date: 10/28/2024	SeqNo: 6267389	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Manganese	ND	0.50			

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
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ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195048
Client ID: ICB	Batch ID: R195048	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6278208	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Selenium ND 0.50

Sample ID CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195048
Client ID: CCB	Batch ID: R195048	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6278221	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Selenium ND 0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

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ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446
Client ID: ICB	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244353	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0
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Sample ID CCB1	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446
Client ID: CCB	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244370	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0
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Sample ID CCB2	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446
Client ID: CCB	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244376	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0
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Sample ID CCB3	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446
Client ID: CCB	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244389	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0
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Sample ID CCB4	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446
Client ID: CCB	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244400	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
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ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCB5	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446
Client ID: CCB	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244411	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0			
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Sample ID CCB6	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446
Client ID: CCB	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244416	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0			
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Sample ID CCB7	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446
Client ID: CCB	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244429	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0			
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Sample ID CCB8	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446
Client ID: CCB	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244441	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0			
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Sample ID CCB9	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446
Client ID: CCB	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244452	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0			
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCB10	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446
Client ID: CCB	Batch ID: R194446	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244463
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0				
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Sample ID CCB11	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446
Client ID: CCB	Batch ID: R194446	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244469
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0				
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Sample ID CCB12	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446
Client ID: CCB	Batch ID: R194446	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244482
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0				
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Sample ID CCB13	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446
Client ID: CCB	Batch ID: R194446	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244493
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0				
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Sample ID CCB14	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446
Client ID: CCB	Batch ID: R194446	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244505
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0				
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCB15	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446						
Client ID: CCB	Batch ID: R194446	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244517						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID CCB16	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446						
Client ID: CCB	Batch ID: R194446	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244531						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID CCB17	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446						
Client ID: CCB	Batch ID: R194446	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244542						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID CCB18	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446						
Client ID: CCB	Batch ID: R194446	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244554						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID CCB19	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446						
Client ID: CCB	Batch ID: R194446	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244566						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194926
Client ID: ICB	Batch ID: R194926	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6270651	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB1	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194926
Client ID: CCB	Batch ID: R194926	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6270668	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB2	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194926
Client ID: CCB	Batch ID: R194926	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6270674	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB3	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194926
Client ID: CCB	Batch ID: R194926	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6270687	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB4	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194926
Client ID: CCB	Batch ID: R194926	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6270699	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCB5	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194926						
Client ID: CCB	Batch ID: R194926	TestNo: EPA 6020		Analysis Date: 10/29/2024	SeqNo: 6270711						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: ICSA	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6243988							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: ICSA	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6243989							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	20.082	0.10	20.00	0	100	80	120				
Barium	19.980	1.0	20.00	0	99.9	80	120				
Manganese	20.295	0.50	20.00	0	101	80	120				
Molybdenum	19.413	0.50	20.00	0	97.1	80	120				
Selenium	20.513	0.50	20.00	0	103	80	120				

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: ICSA	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244008							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSAB2	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: ICSAB	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244009							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.999	0.10	20.00	0	100	80	120				
Barium	20.606	1.0	20.00	0	103	80	120				
Manganese	19.632	0.50	20.00	0	98.2	80	120				
Molybdenum	19.700	0.50	20.00	0	98.5	80	120				
Selenium	19.645	0.50	20.00	0	98.2	80	120				

Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: ICSA	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244048							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSAB3	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: ICSAB	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244049							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.440	0.10	20.00	0	97.2	80	120				
Barium	21.380	1.0	20.00	0	107	80	120				
Manganese	19.627	0.50	20.00	0	98.1	80	120				
Molybdenum	19.683	0.50	20.00	0	98.4	80	120				
Selenium	19.379	0.50	20.00	0	96.9	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: ICSA	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244101						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: ICSA	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244102						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.267	0.10	20.00	0	96.3	80	120				
Barium	21.092	1.0	20.00	0	105	80	120				
Manganese	19.846	0.50	20.00	0	99.2	80	120				
Molybdenum	19.412	0.50	20.00	0	97.1	80	120				
Selenium	19.850	0.50	20.00	0	99.2	80	120				

Sample ID ICSA5	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: ICSA	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244149						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSAB5	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: ICSAB	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244150							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.212	0.10	20.00	0	96.1	80	120				
Barium	21.537	1.0	20.00	0	108	80	120				
Manganese	19.900	0.50	20.00	0	99.5	80	120				
Molybdenum	19.558	0.50	20.00	0	97.8	80	120				
Selenium	19.277	0.50	20.00	0	96.4	80	120				

Sample ID ICSA6	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: ICSA	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244198							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSAB6	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: ICSAB	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244199							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.050	0.10	20.00	0	95.3	80	120				
Barium	21.216	1.0	20.00	0	106	80	120				
Manganese	19.821	0.50	20.00	0	99.1	80	120				
Molybdenum	19.570	0.50	20.00	0	97.8	80	120				
Selenium	20.907	0.50	20.00	0	105	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194864
Client ID: ICSA	Batch ID: R194864	TestNo: EPA 6020	Analysis Date: 10/27/2024	SeqNo: 6267322	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194864
Client ID: ICSA	Batch ID: R194864	TestNo: EPA 6020	Analysis Date: 10/28/2024	SeqNo: 6267323	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	20.679	0.10	20.00	0	103	80	120				
Manganese	20.276	0.50	20.00	0	101	80	120				

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194864
Client ID: ICSA	Batch ID: R194864	TestNo: EPA 6020	Analysis Date: 10/28/2024	SeqNo: 6267336	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194864
Client ID: ICSA	Batch ID: R194864	TestNo: EPA 6020	Analysis Date: 10/28/2024	SeqNo: 6267337	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	20.239	0.10	20.00	0	101	80	120				
Manganese	19.717	0.50	20.00	0	98.6	80	120				

Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194864
Client ID: ICSA	Batch ID: R194864	TestNo: EPA 6020	Analysis Date: 10/28/2024	SeqNo: 6267356	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10									
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194864						
Client ID: ICSA	Batch ID: R194864	TestNo: EPA 6020		Analysis Date: 10/28/2024	SeqNo: 6267356						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	ND	0.50									
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Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194864						
Client ID: ICSA	Batch ID: R194864	TestNo: EPA 6020		Analysis Date: 10/28/2024	SeqNo: 6267357						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	20.706	0.10	20.00	0	104	80	120				
Manganese	19.324	0.50	20.00	0	96.6	80	120				

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194864						
Client ID: ICSA	Batch ID: R194864	TestNo: EPA 6020		Analysis Date: 10/28/2024	SeqNo: 6267380						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194864						
Client ID: ICSA	Batch ID: R194864	TestNo: EPA 6020		Analysis Date: 10/28/2024	SeqNo: 6267381						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.860	0.10	20.00	0	99.3	80	120				
Manganese	18.709	0.50	20.00	0	93.5	80	120				

Sample ID ICSA5	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194864						
Client ID: ICSA	Batch ID: R194864	TestNo: EPA 6020		Analysis Date: 10/28/2024	SeqNo: 6267390						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID	ICSAB5	SampType:	ICSAB	TestCode:	6020_DIS_TP	Units:	µg/L	Prep Date:		RunNo:	194864		
Client ID:	ICSAB	Batch ID:	R194864	TestNo:	EPA 6020			Analysis Date:	10/28/2024	SeqNo:	6267391		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic		20.951		0.10	20.00	0	105	80	120				
Manganese		19.259		0.50	20.00	0	96.3	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195048
Client ID: ICSA	Batch ID: R195048	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6278212	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Selenium	ND	0.50									
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Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195048
Client ID: ICSA	Batch ID: R195048	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6278212	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Selenium	18.793	0.50	20.00	0	94.0	80	120				
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Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195048
Client ID: ICSA	Batch ID: R195048	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6278222	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Selenium	ND	0.50									
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Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195048
Client ID: ICSA	Batch ID: R195048	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6278223	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Selenium	19.290	0.50	20.00	0	96.4	80	120				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446
Client ID: ICSA	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244357	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0									
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Sample ID ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446
Client ID: ICSA	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244358	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	20.216	1.0	20.00	0	101	80	120				
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Sample ID ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446
Client ID: ICSA	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244377	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0									
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Sample ID ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446
Client ID: ICSA	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244378	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	20.343	1.0	20.00	0	102	80	120				
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Sample ID ICSA3	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446
Client ID: ICSA	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244417	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICSAB3	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446						
Client ID: ICSAB	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244418							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 19.952 1.0 20.00 0 99.8 80 120

Sample ID ICSA4	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446						
Client ID: ICSA	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244470							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium ND 1.0

Sample ID ICSAB4	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446						
Client ID: ICSAB	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244471							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 20.103 1.0 20.00 0 101 80 120

Sample ID ICSA5	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446						
Client ID: ICSA	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244518							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium ND 1.0

Sample ID ICSAB5	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446						
Client ID: ICSAB	Batch ID: R194446	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244519							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 19.817 1.0 20.00 0 99.1 80 120

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICSA6	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446						
Client ID: ICSA	Batch ID: R194446	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244567						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID ICSAB6	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446						
Client ID: ICSAB	Batch ID: R194446	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244568						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.876	1.0	20.00	0	99.4	80	120				
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194926						
Client ID: ICSA	Batch ID: R194926	TestNo: EPA 6020		Analysis Date: 10/29/2024	SeqNo: 6270655						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194926						
Client ID: ICSA	Batch ID: R194926	TestNo: EPA 6020		Analysis Date: 10/29/2024	SeqNo: 6270655						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.363	1.0	20.00	0	102	80	120				
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Sample ID ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194926						
Client ID: ICSA	Batch ID: R194926	TestNo: EPA 6020		Analysis Date: 10/29/2024	SeqNo: 6270675						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194926						
Client ID: ICSA	Batch ID: R194926	TestNo: EPA 6020		Analysis Date: 10/29/2024	SeqNo: 6270676						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.114	1.0	20.00	0	101	80	120				
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Sample ID ICSA3	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194926						
Client ID: ICSA	Batch ID: R194926	TestNo: EPA 6020		Analysis Date: 10/29/2024	SeqNo: 6270712						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID	ICSAB3	SampType:	ICSAB	TestCode:	6020DIS_CrP	Units:	µg/L	Prep Date:	RunNo:	194926			
Client ID:	ICSAB	Batch ID:	R194926	TestNo:	EPA 6020			Analysis Date:	10/29/2024	SeqNo:	6270713		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium		19.471		1.0	20.00	0	97.4	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

INTERNAL STANDARD SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

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INTERNAL STANDARD: 241016A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	1301130.7	1301130.7	100	PASS	30-150	28528.8	28528.8	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	1308802.6	1301130.7	100.59	PASS	30-150	28302.9	28528.8	99.21	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	1292777.4	1301130.7	99.36	PASS	30-150	28536.6	28528.8	100.03	PASS	30-150
Std3-5/50 ppb	ICAL	1	1283143.5	1301130.7	98.62	PASS	30-150	28262.9	28528.8	99.07	PASS	30-150
Std4-10/100 ppb	ICAL	1	1308143.4	1301130.7	100.54	PASS	30-150	28908.3	28528.8	101.33	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	1292732.7	1301130.7	99.35	PASS	30-150	28272.8	28528.8	99.1	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	1289641.2	1301130.7	99.12	PASS	30-150	28643.4	28528.8	100.4	PASS	30-150
Std7-100/1000 ppb	ICAL	1	1316291.6	1301130.7	101.17	PASS	30-150	28693.5	28528.8	100.58	PASS	30-150
Std8-200/2000 ppb	ICAL	1	1313586.5	1301130.7	100.96	PASS	30-150	29142.1	28528.8	102.15	PASS	30-150
ICV	ICV	1	1313125.6	1301130.7	100.92	PASS	30-150	28182.7	28528.8	98.79	PASS	30-150
ICB	ICB	1	1257163.6	1301130.7	96.62	PASS	30-150	27078.6	28528.8	94.92	PASS	30-150
LLCCV1	CCV1	1	1253250.8	1301130.7	96.32	PASS	30-150	27650.7	28528.8	96.92	PASS	30-150
LLCCV2	CCV1	1	1256342	1301130.7	96.56	PASS	30-150	27362.4	28528.8	95.91	PASS	30-150
MLCCV1	CCV	1	1249492.5	1301130.7	96.03	PASS	30-150	27146.5	28528.8	95.15	PASS	30-150
ICSA1	ICSA	1	1260251.9	1301130.7	96.86	PASS	30-150	26941.7	28528.8	94.44	PASS	30-150
ICSAB1	ICSAB	1	1263953.6	1301130.7	97.14	PASS	30-150	26522.2	28528.8	92.97	PASS	30-150
CCV1	CCV	1	1265888.3	1301130.7	97.29	PASS	30-150	27682.9	28528.8	97.04	PASS	30-150
CCB1	CCB	1	1256060.9	1301130.7	96.54	PASS	30-150	26944	28528.8	94.44	PASS	30-150
CCV2	CCV	1	1253481.2	1301130.7	96.34	PASS	30-150	28622.3	28528.8	100.33	PASS	30-150
CCB2	CCB	1	1259621.1	1301130.7	96.81	PASS	30-150	27354.7	28528.8	95.88	PASS	30-150
ICSA2	ICSA	1	1264883.1	1301130.7	97.21	PASS	30-150	27648.4	28528.8	96.91	PASS	30-150
ICSAB2	ICSAB	1	1280018.8	1301130.7	98.38	PASS	30-150	27770.9	28528.8	97.34	PASS	30-150
CCV3	CCV	1	1306761.9	1301130.7	100.43	PASS	30-150	27020.7	28528.8	94.71	PASS	30-150
CCB3	CCB	1	1293234.9	1301130.7	99.39	PASS	30-150	26338.5	28528.8	92.32	PASS	30-150
CCV4	CCV	1	1300119.9	1301130.7	99.92	PASS	30-150	27659.6	28528.8	96.95	PASS	30-150
CCB4	CCB	1	1292029.6	1301130.7	99.3	PASS	30-150	26987.4	28528.8	94.6	PASS	30-150
CCV5	CCV	1	1282752.3	1301130.7	98.59	PASS	30-150	28030.1	28528.8	98.25	PASS	30-150
CCB5	CCB	1	1273264.6	1301130.7	97.86	PASS	30-150	27817.6	28528.8	97.51	PASS	30-150
CCV6	CCV	1	1290131.5	1301130.7	99.15	PASS	30-150	28360.7	28528.8	99.41	PASS	30-150
CCB6	CCB	1	1289378.1	1301130.7	99.1	PASS	30-150	28223.8	28528.8	98.93	PASS	30-150
ICSA3	ICSA	1	1298633.5	1301130.7	99.81	PASS	30-150	28872.7	28528.8	101.21	PASS	30-150
ICSAB3	ICSAB	1	1294172.8	1301130.7	99.47	PASS	30-150	28637.9	28528.8	100.38	PASS	30-150
CCV7	CCV	1	1298907.4	1301130.7	99.83	PASS	30-150	28946.2	28528.8	101.46	PASS	30-150
CCB7	CCB	1	1285276.9	1301130.7	98.78	PASS	30-150	28643.4	28528.8	100.4	PASS	30-150
CCV8	CCV	1	1324210.7	1301130.7	101.77	PASS	30-150	29258.9	28528.8	102.56	PASS	30-150
CCB8	CCB	1	1313117.1	1301130.7	100.92	PASS	30-150	28533.2	28528.8	100.02	PASS	30-150
CCV9	CCV	1	1358949.6	1301130.7	104.44	PASS	30-150	29715.3	28528.8	104.16	PASS	30-150
CCB9	CCB	1	1341842.1	1301130.7	103.13	PASS	30-150	29092	28528.8	101.97	PASS	30-150
CCV10	CCV	1	1363317.3	1301130.7	104.78	PASS	30-150	28953.9	28528.8	101.49	PASS	30-150
CCB10	CCB	1	1344080.8	1301130.7	103.3	PASS	30-150	28919.4	28528.8	101.37	PASS	30-150
CCV11	CCV	1	1339677.4	1301130.7	102.96	PASS	30-150	28694.6	28528.8	100.58	PASS	30-150

INTERNAL STANDARD: 241016A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
CCB11	CCB	1	1326706.8	1301130.7	101.97	PASS	30-150	28324	28528.8	99.28	PASS	30-150
ICSA4	ICSA	1	1339490.1	1301130.7	102.95	PASS	30-150	28782.6	28528.8	100.89	PASS	30-150
ICSAB4	ICSAB	1	1337476.6	1301130.7	102.79	PASS	30-150	28905	28528.8	101.32	PASS	30-150
CCV12	CCV	1	1337400.7	1301130.7	102.79	PASS	30-150	30128.3	28528.8	105.61	PASS	30-150
CCB12	CCB	1	1326518.3	1301130.7	101.95	PASS	30-150	29526.1	28528.8	103.5	PASS	30-150
CCV13	CCV	1	1349326.8	1301130.7	103.7	PASS	30-150	28876.1	28528.8	101.22	PASS	30-150
CCB13	CCB	1	1327262.7	1301130.7	102.01	PASS	30-150	28871.6	28528.8	101.2	PASS	30-150
CCV14	CCV	1	1363798.6	1301130.7	104.82	PASS	30-150	29189.9	28528.8	102.32	PASS	30-150
CCB14	CCB	1	1336010.9	1301130.7	102.68	PASS	30-150	28923.9	28528.8	101.38	PASS	30-150
CCV15	CCV	1	1331166.2	1301130.7	102.31	PASS	30-150	27536	28528.8	96.52	PASS	30-150
CCB15	CCB	1	1345179.5	1301130.7	103.39	PASS	30-150	27580.5	28528.8	96.68	PASS	30-150
ICSA5	ICSA	1	1343354.2	1301130.7	103.25	PASS	30-150	27858.7	28528.8	97.65	PASS	30-150
ICSAB5	ICSAB	1	1355015.2	1301130.7	104.14	PASS	30-150	28151.5	28528.8	98.68	PASS	30-150
MB-113224	MBLK	1	1357595.9	1301130.7	104.34	PASS	30-150	27725.2	28528.8	97.18	PASS	30-150
LCS-113224	LCS	1	1390452.3	1301130.7	106.86	PASS	30-150	28512.1	28528.8	99.94	PASS	30-150
N069147-001C	SAMP	1	1079076.6	1301130.7	82.93	PASS	30-150	25066.6	28528.8	87.86	PASS	30-150
N069105-001C	SAMP	1	912924.2	1301130.7	70.16	PASS	30-150	23328.5	28528.8	81.77	PASS	30-150
N069146-001C	SAMP	1	1024402.5	1301130.7	78.73	PASS	30-150	25273.6	28528.8	88.59	PASS	30-150
N069146-002C	SAMP	1	956279.3	1301130.7	73.5	PASS	30-150	24467.9	28528.8	85.77	PASS	30-150
N069146-003B	SAMP	1	1206444.6	1301130.7	92.72	PASS	30-150	27583.9	28528.8	96.69	PASS	30-150
N069146-003B	SAMP	10	1261070.5	1301130.7	96.92	PASS	30-150	27935.6	28528.8	97.92	PASS	30-150
N069146-005B	SAMP	1	1249600.3	1301130.7	96.04	PASS	30-150	27037.5	28528.8	94.77	PASS	30-150
N069146-005B	SAMP	10	1269081.1	1301130.7	97.54	PASS	30-150	27177.6	28528.8	95.26	PASS	30-150
CCV16	CCV	1	1326550	1301130.7	101.95	PASS	30-150	29251.1	28528.8	102.53	PASS	30-150
CCB16	CCB	1	1292214	1301130.7	99.31	PASS	30-150	28358.5	28528.8	99.4	PASS	30-150
N069146-006B	SAMP	1	1251695.8	1301130.7	96.2	PASS	30-150	25771	28528.8	90.33	PASS	30-150
N069146-006B	SAMP	10	1281356.3	1301130.7	98.48	PASS	30-150	26395.3	28528.8	92.52	PASS	30-150
N069146-007C	SAMP	1	1022145.9	1301130.7	78.56	PASS	30-150	24361.1	28528.8	85.39	PASS	30-150
N069146-007C	SAMP	10	1174788.5	1301130.7	90.29	PASS	30-150	26361.9	28528.8	92.4	PASS	30-150
N069146-009C	SAMP	1	1115008.4	1301130.7	85.7	PASS	30-150	25289.2	28528.8	88.64	PASS	30-150
N069146-011C	SAMP	1	1074386	1301130.7	82.57	PASS	30-150	25431.6	28528.8	89.14	PASS	30-150
N069146-011C	SAMP	10	1215449.7	1301130.7	93.41	PASS	30-150	27161	28528.8	95.21	PASS	30-150
N069146-012C	SAMP	1	1067101.7	1301130.7	82.01	PASS	30-150	25248	28528.8	88.5	PASS	30-150
N069146-012C	SAMP	10	1200997	1301130.7	92.3	PASS	30-150	27261.1	28528.8	95.56	PASS	30-150
CCV17	CCV	1	1287952.6	1301130.7	98.99	PASS	30-150	28616.7	28528.8	100.31	PASS	30-150
CCB17	CCB	1	1272226.9	1301130.7	97.78	PASS	30-150	28183.8	28528.8	98.79	PASS	30-150
N069146-013C	SAMP	1	1043106.8	1301130.7	80.17	PASS	30-150	25162.3	28528.8	88.2	PASS	30-150
N069146-013C	SAMP	5	1188774	1301130.7	91.36	PASS	30-150	27610.6	28528.8	96.78	PASS	30-150
N069146-013C	SAMP	10	1215655.3	1301130.7	93.43	PASS	30-150	26614.5	28528.8	93.29	PASS	30-150
N069146-013C	SAMP	50	1231612.8	1301130.7	94.66	PASS	30-150	27304.6	28528.8	95.71	PASS	30-150
N069146-013C-PS	PS	1	1050222	1301130.7	80.72	PASS	30-150	25295.8	28528.8	88.67	PASS	30-150

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Instrument ID: NV00922-ICP8

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
N069146-013C-PS	PS	10	1194799.2	1301130.7	91.83	PASS	30-150	26556.7	28528.8	93.09	PASS	30-150
N069146-013CMS	MS	1	1029210.1	1301130.7	79.1	PASS	30-150	25224.6	28528.8	88.42	PASS	30-150
N069146-013CMS	MS	10	1171042.6	1301130.7	90	PASS	30-150	26956.2	28528.8	94.49	PASS	30-150
N069146-013CMSD	MSD	1	1034806.4	1301130.7	79.53	PASS	30-150	25221.3	28528.8	88.41	PASS	30-150
N069146-013CMSD	MSD	10	1202607.1	1301130.7	92.43	PASS	30-150	27241.1	28528.8	95.49	PASS	30-150
CCV18	CCV	1	1276068.6	1301130.7	98.07	PASS	30-150	29086.4	28528.8	101.95	PASS	30-150
CCB18	CCB	1	1281301.4	1301130.7	98.48	PASS	30-150	28128.1	28528.8	98.6	PASS	30-150
N069147-002C	SAMP	1	1054898.1	1301130.7	81.08	PASS	30-150	25592.9	28528.8	89.71	PASS	30-150
N069147-002C	SAMP	10	1207287.3	1301130.7	92.79	PASS	30-150	26629	28528.8	93.34	PASS	30-150
N069147-003C	SAMP	1	1052164.5	1301130.7	80.87	PASS	30-150	25204.6	28528.8	88.35	PASS	30-150
N069147-003C	SAMP	10	1196234	1301130.7	91.94	PASS	30-150	26660.2	28528.8	93.45	PASS	30-150
N069147-004C	SAMP	1	1062323	1301130.7	81.65	PASS	30-150	25472.8	28528.8	89.29	PASS	30-150
N069147-004C	SAMP	10	1216087.6	1301130.7	93.46	PASS	30-150	26851.6	28528.8	94.12	PASS	30-150
N069147-005C	SAMP	1	1068139.8	1301130.7	82.09	PASS	30-150	25199	28528.8	88.33	PASS	30-150
N069147-005C	SAMP	100	1212472.2	1301130.7	93.19	PASS	30-150	27368	28528.8	95.93	PASS	30-150
N069147-006C	SAMP	1	1213740.1	1301130.7	93.28	PASS	30-150	26609	28528.8	93.27	PASS	30-150
N069147-006C	SAMP	10	1238405.8	1301130.7	95.18	PASS	30-150	26611.2	28528.8	93.28	PASS	30-150
CCV19	CCV	1	1284431.9	1301130.7	98.72	PASS	30-150	27922.2	28528.8	97.87	PASS	30-150
CCB19	CCB	1	1273195.6	1301130.7	97.85	PASS	30-150	27776.4	28528.8	97.36	PASS	30-150
ICSA6	ICSA	1	1293684.7	1301130.7	99.43	PASS	30-150	27341.2	28528.8	95.84	PASS	30-150
ICSAB6	ICSAB	1	1296928.8	1301130.7	99.68	PASS	30-150	27885.5	28528.8	97.75	PASS	30-150

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Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]					72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	15482.9	15482.9	100	PASS	30-150	53397.8	53397.8	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	15148.2	15482.9	97.84	PASS	30-150	53448	53397.8	100.09	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	15152.6	15482.9	97.87	PASS	30-150	53028.9	53397.8	99.31	PASS	30-150
Std3-5/50 ppb	ICAL	1	15331.6	15482.9	99.02	PASS	30-150	53427.9	53397.8	100.06	PASS	30-150
Std4-10/100 ppb	ICAL	1	15257.1	15482.9	98.54	PASS	30-150	53832.6	53397.8	100.81	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	15302.7	15482.9	98.84	PASS	30-150	53633	53397.8	100.44	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	15508.5	15482.9	100.17	PASS	30-150	54058.9	53397.8	101.24	PASS	30-150
Std7-100/1000 ppb	ICAL	1	15366.1	15482.9	99.25	PASS	30-150	54413.3	53397.8	101.9	PASS	30-150
Std8-200/2000 ppb	ICAL	1	15991.2	15482.9	103.28	PASS	30-150	54587.3	53397.8	102.23	PASS	30-150
ICV	ICV	1	15207.1	15482.9	98.22	PASS	30-150	53438	53397.8	100.08	PASS	30-150
ICB	ICB	1	14707.7	15482.9	94.99	PASS	30-150	51704.6	53397.8	96.83	PASS	30-150
LLCCV1	CCV1	1	14832.3	15482.9	95.8	PASS	30-150	52289.9	53397.8	97.93	PASS	30-150
LLCCV2	CCV1	1	14510.9	15482.9	93.72	PASS	30-150	52467.1	53397.8	98.26	PASS	30-150
MLCCV1	CCV	1	14401.9	15482.9	93.02	PASS	30-150	51340.2	53397.8	96.15	PASS	30-150
ICSA1	ICSA	1	14361.9	15482.9	92.76	PASS	30-150	51331.3	53397.8	96.13	PASS	30-150
ICSAB1	ICSAB	1	14390.8	15482.9	92.95	PASS	30-150	51486.3	53397.8	96.42	PASS	30-150
CCV1	CCV	1	14981.3	15482.9	96.76	PASS	30-150	52517.3	53397.8	98.35	PASS	30-150
CCB1	CCB	1	14651	15482.9	94.63	PASS	30-150	50874.3	53397.8	95.27	PASS	30-150
CCV2	CCV	1	15823.2	15482.9	102.2	PASS	30-150	52930.9	53397.8	99.13	PASS	30-150
CCB2	CCB	1	15121.5	15482.9	97.67	PASS	30-150	50346	53397.8	94.28	PASS	30-150
ICSA2	ICSA	1	15148.2	15482.9	97.84	PASS	30-150	51468.5	53397.8	96.39	PASS	30-150
ICSAB2	ICSAB	1	15329.4	15482.9	99.01	PASS	30-150	51633.3	53397.8	96.7	PASS	30-150
CCV3	CCV	1	15023.6	15482.9	97.03	PASS	30-150	49289.6	53397.8	92.31	PASS	30-150
CCB3	CCB	1	14834.5	15482.9	95.81	PASS	30-150	49119	53397.8	91.99	PASS	30-150
CCV4	CCV	1	15924.5	15482.9	102.85	PASS	30-150	51845.1	53397.8	97.09	PASS	30-150
CCB4	CCB	1	15645.3	15482.9	101.05	PASS	30-150	51129.6	53397.8	95.75	PASS	30-150
CCV5	CCV	1	16310.4	15482.9	105.34	PASS	30-150	53268.6	53397.8	99.76	PASS	30-150
CCB5	CCB	1	16172.5	15482.9	104.45	PASS	30-150	52475	53397.8	98.27	PASS	30-150
CCV6	CCV	1	16460.5	15482.9	106.31	PASS	30-150	53766.8	53397.8	100.69	PASS	30-150
CCB6	CCB	1	16248.1	15482.9	104.94	PASS	30-150	54191.5	53397.8	101.49	PASS	30-150
ICSA3	ICSA	1	16686.3	15482.9	107.77	PASS	30-150	54018.7	53397.8	101.16	PASS	30-150
ICSAB3	ICSAB	1	16562.9	15482.9	106.98	PASS	30-150	54094.6	53397.8	101.3	PASS	30-150
CCV7	CCV	1	16765.3	15482.9	108.28	PASS	30-150	55560.5	53397.8	104.05	PASS	30-150
CCB7	CCB	1	16675.2	15482.9	107.7	PASS	30-150	55056.6	53397.8	103.11	PASS	30-150
CCV8	CCV	1	16646.3	15482.9	107.51	PASS	30-150	55983.1	53397.8	104.84	PASS	30-150
CCB8	CCB	1	16644	15482.9	107.5	PASS	30-150	56372.1	53397.8	105.57	PASS	30-150
CCV9	CCV	1	17215.8	15482.9	111.19	PASS	30-150	56330.9	53397.8	105.49	PASS	30-150
CCB9	CCB	1	17068.9	15482.9	110.24	PASS	30-150	55866	53397.8	104.62	PASS	30-150
CCV10	CCV	1	16991.1	15482.9	109.74	PASS	30-150	56562.9	53397.8	105.93	PASS	30-150
CCB10	CCB	1	16945.5	15482.9	109.45	PASS	30-150	56246.1	53397.8	105.33	PASS	30-150
CCV11	CCV	1	16709.7	15482.9	107.92	PASS	30-150	54869.2	53397.8	102.76	PASS	30-150

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Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]					72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
CCB11	CCB	1	16655.2	15482.9	107.57	PASS	30-150	55118	53397.8	103.22	PASS	30-150
ICSA4	ICSA	1	16713	15482.9	107.94	PASS	30-150	55746.8	53397.8	104.4	PASS	30-150
ICSAB4	ICSAB	1	16799.8	15482.9	108.51	PASS	30-150	56144.7	53397.8	105.14	PASS	30-150
CCV12	CCV	1	17218	15482.9	111.21	PASS	30-150	57214	53397.8	107.15	PASS	30-150
CCB12	CCB	1	17107.9	15482.9	110.5	PASS	30-150	56721.1	53397.8	106.22	PASS	30-150
CCV13	CCV	1	16876.5	15482.9	109	PASS	30-150	55919.5	53397.8	104.72	PASS	30-150
CCB13	CCB	1	16677.4	15482.9	107.71	PASS	30-150	55455.7	53397.8	103.85	PASS	30-150
CCV14	CCV	1	16885.4	15482.9	109.06	PASS	30-150	56323.1	53397.8	105.48	PASS	30-150
CCB14	CCB	1	17058.9	15482.9	110.18	PASS	30-150	56589.6	53397.8	105.98	PASS	30-150
CCV15	CCV	1	16342.6	15482.9	105.55	PASS	30-150	54723.3	53397.8	102.48	PASS	30-150
CCB15	CCB	1	16512.8	15482.9	106.65	PASS	30-150	54819.2	53397.8	102.66	PASS	30-150
ICSA5	ICSA	1	16433.9	15482.9	106.14	PASS	30-150	54303	53397.8	101.7	PASS	30-150
ICSAB5	ICSAB	1	16500.6	15482.9	106.57	PASS	30-150	55149.2	53397.8	103.28	PASS	30-150
MB-113224	MBLK	1	16248.1	15482.9	104.94	PASS	30-150	54605.2	53397.8	102.26	PASS	30-150
LCS-113224	LCS	1	17007.8	15482.9	109.85	PASS	30-150	54769	53397.8	102.57	PASS	30-150
N069147-001C	SAMP	1	14014.9	15482.9	90.52	PASS	30-150	44132.6	53397.8	82.65	PASS	30-150
N069105-001C	SAMP	1	12739.5	15482.9	82.28	PASS	30-150	38652.1	53397.8	72.39	PASS	30-150
N069146-001C	SAMP	1	13822.6	15482.9	89.28	PASS	30-150	43042	53397.8	80.61	PASS	30-150
N069146-002C	SAMP	1	13460	15482.9	86.93	PASS	30-150	41149.4	53397.8	77.06	PASS	30-150
N069146-003B	SAMP	1	15454	15482.9	99.81	PASS	30-150	50048.4	53397.8	93.73	PASS	30-150
N069146-003B	SAMP	10	16291.5	15482.9	105.22	PASS	30-150	53081.2	53397.8	99.41	PASS	30-150
N069146-005B	SAMP	1	15521.8	15482.9	100.25	PASS	30-150	48488.2	53397.8	90.81	PASS	30-150
N069146-005B	SAMP	10	15842.2	15482.9	102.32	PASS	30-150	52469.2	53397.8	98.26	PASS	30-150
CCV16	CCV	1	16588.4	15482.9	107.14	PASS	30-150	56041	53397.8	104.95	PASS	30-150
CCB16	CCB	1	16408.3	15482.9	105.98	PASS	30-150	55098	53397.8	103.18	PASS	30-150
N069146-006B	SAMP	1	14859	15482.9	95.97	PASS	30-150	47110.9	53397.8	88.23	PASS	30-150
N069146-006B	SAMP	10	15411.7	15482.9	99.54	PASS	30-150	49324.1	53397.8	92.37	PASS	30-150
N069146-007C	SAMP	1	13173.1	15482.9	85.08	PASS	30-150	40300.6	53397.8	75.47	PASS	30-150
N069146-007C	SAMP	10	14767.8	15482.9	95.38	PASS	30-150	47932.1	53397.8	89.76	PASS	30-150
N069146-009C	SAMP	1	14279.6	15482.9	92.23	PASS	30-150	44113.9	53397.8	82.61	PASS	30-150
N069146-011C	SAMP	1	13952.7	15482.9	90.12	PASS	30-150	43181.3	53397.8	80.87	PASS	30-150
N069146-011C	SAMP	10	15785.4	15482.9	101.95	PASS	30-150	50504.3	53397.8	94.58	PASS	30-150
N069146-012C	SAMP	1	13969.3	15482.9	90.22	PASS	30-150	43464.2	53397.8	81.4	PASS	30-150
N069146-012C	SAMP	10	15249.4	15482.9	98.49	PASS	30-150	50036.1	53397.8	93.7	PASS	30-150
CCV17	CCV	1	16312.6	15482.9	105.36	PASS	30-150	54916.3	53397.8	102.84	PASS	30-150
CCB17	CCB	1	16043.5	15482.9	103.62	PASS	30-150	53878.3	53397.8	100.9	PASS	30-150
N069146-013C	SAMP	1	13946	15482.9	90.07	PASS	30-150	42376.9	53397.8	79.36	PASS	30-150
N069146-013C	SAMP	5	15525.2	15482.9	100.27	PASS	30-150	49171.4	53397.8	92.09	PASS	30-150
N069146-013C	SAMP	10	15351.7	15482.9	99.15	PASS	30-150	50418.4	53397.8	94.42	PASS	30-150
N069146-013C	SAMP	50	15539.6	15482.9	100.37	PASS	30-150	52464.8	53397.8	98.25	PASS	30-150
N069146-013C-PS	PS	1	13880.4	15482.9	89.65	PASS	30-150	42986.3	53397.8	80.5	PASS	30-150

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Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]					72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
N069146-013C-PS	PS	10	15115.9	15482.9	97.63	PASS	30-150	50622.5	53397.8	94.8	PASS	30-150
N069146-013CMS	MS	1	13834.8	15482.9	89.36	PASS	30-150	43115.5	53397.8	80.74	PASS	30-150
N069146-013CMS	MS	10	15248.3	15482.9	98.48	PASS	30-150	49335.2	53397.8	92.39	PASS	30-150
N069146-013CMSD	MSD	1	13877.1	15482.9	89.63	PASS	30-150	43504.3	53397.8	81.47	PASS	30-150
N069146-013CMSD	MSD	10	15428.4	15482.9	99.65	PASS	30-150	50000.6	53397.8	93.64	PASS	30-150
CCV18	CCV	1	16789.8	15482.9	108.44	PASS	30-150	55857.1	53397.8	104.61	PASS	30-150
CCB18	CCB	1	16418.2	15482.9	106.04	PASS	30-150	54765.7	53397.8	102.56	PASS	30-150
N069147-002C	SAMP	1	13923.7	15482.9	89.93	PASS	30-150	43016.3	53397.8	80.56	PASS	30-150
N069147-002C	SAMP	10	15541.9	15482.9	100.38	PASS	30-150	50985.7	53397.8	95.48	PASS	30-150
N069147-003C	SAMP	1	14260.7	15482.9	92.11	PASS	30-150	44033.4	53397.8	82.46	PASS	30-150
N069147-003C	SAMP	10	15377.3	15482.9	99.32	PASS	30-150	50032.8	53397.8	93.7	PASS	30-150
N069147-004C	SAMP	1	14021.6	15482.9	90.56	PASS	30-150	43397.4	53397.8	81.27	PASS	30-150
N069147-004C	SAMP	10	15282.7	15482.9	98.71	PASS	30-150	50408.4	53397.8	94.4	PASS	30-150
N069147-005C	SAMP	1	13795.9	15482.9	89.1	PASS	30-150	43320.5	53397.8	81.13	PASS	30-150
N069147-005C	SAMP	100	15829.9	15482.9	102.24	PASS	30-150	51781.6	53397.8	96.97	PASS	30-150
N069147-006C	SAMP	1	15404	15482.9	99.49	PASS	30-150	49009.8	53397.8	91.78	PASS	30-150
N069147-006C	SAMP	10	15885.5	15482.9	102.6	PASS	30-150	51569.8	53397.8	96.58	PASS	30-150
CCV19	CCV	1	16277	15482.9	105.13	PASS	30-150	53230.6	53397.8	99.69	PASS	30-150
CCB19	CCB	1	15943.4	15482.9	102.97	PASS	30-150	51728.1	53397.8	96.87	PASS	30-150
ICSA6	ICSA	1	15944.5	15482.9	102.98	PASS	30-150	52340	53397.8	98.02	PASS	30-150
ICSAB6	ICSAB	1	16172.5	15482.9	104.45	PASS	30-150	52800.3	53397.8	98.88	PASS	30-150

INTERNAL STANDARD: 241016A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	103 Rh (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	413507.4	413507.4	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	416923.1	413507.4	100.83	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	416442.7	413507.4	100.71	PASS	30-150
Std3-5/50 ppb	ICAL	1	416044.4	413507.4	100.61	PASS	30-150
Std4-10/100 ppb	ICAL	1	418413.1	413507.4	101.19	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	413108.9	413507.4	99.9	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	422762.4	413507.4	102.24	PASS	30-150
Std7-100/1000 ppb	ICAL	1	423534.9	413507.4	102.42	PASS	30-150
Std8-200/2000 ppb	ICAL	1	424244.4	413507.4	102.6	PASS	30-150
ICV	ICV	1	414741.3	413507.4	100.3	PASS	30-150
ICB	ICB	1	401654.9	413507.4	97.13	PASS	30-150
LLCCV1	CCV1	1	405208	413507.4	97.99	PASS	30-150
LLCCV2	CCV1	1	401796.4	413507.4	97.17	PASS	30-150
MLCCV1	CCV	1	397243.6	413507.4	96.07	PASS	30-150
ICSA1	ICSA	1	393370	413507.4	95.13	PASS	30-150
ICSAB1	ICSAB	1	397746	413507.4	96.19	PASS	30-150
CCV1	CCV	1	400492.7	413507.4	96.85	PASS	30-150
CCB1	CCB	1	394593.8	413507.4	95.43	PASS	30-150
CCV2	CCV	1	409693	413507.4	99.08	PASS	30-150
CCB2	CCB	1	403113.3	413507.4	97.49	PASS	30-150
ICSA2	ICSA	1	403583.3	413507.4	97.6	PASS	30-150
ICSAB2	ICSAB	1	405450.3	413507.4	98.05	PASS	30-150
CCV3	CCV	1	403261.2	413507.4	97.52	PASS	30-150
CCB3	CCB	1	396219.8	413507.4	95.82	PASS	30-150
CCV4	CCV	1	410811.7	413507.4	99.35	PASS	30-150
CCB4	CCB	1	406331.4	413507.4	98.26	PASS	30-150
CCV5	CCV	1	407739.8	413507.4	98.61	PASS	30-150
CCB5	CCB	1	409451.5	413507.4	99.02	PASS	30-150
CCV6	CCV	1	414547.3	413507.4	100.25	PASS	30-150
CCB6	CCB	1	415459	413507.4	100.47	PASS	30-150
ICSA3	ICSA	1	412145.1	413507.4	99.67	PASS	30-150
ICSAB3	ICSAB	1	417621.7	413507.4	100.99	PASS	30-150
CCV7	CCV	1	420734.4	413507.4	101.75	PASS	30-150
CCB7	CCB	1	416589.6	413507.4	100.75	PASS	30-150
CCV8	CCV	1	426486.2	413507.4	103.14	PASS	30-150
CCB8	CCB	1	420630.9	413507.4	101.72	PASS	30-150
CCV9	CCV	1	435582.6	413507.4	105.34	PASS	30-150
CCB9	CCB	1	431560.4	413507.4	104.37	PASS	30-150
CCV10	CCV	1	433039	413507.4	104.72	PASS	30-150
CCB10	CCB	1	431700	413507.4	104.4	PASS	30-150
CCV11	CCV	1	427249.5	413507.4	103.32	PASS	30-150

INTERNAL STANDARD: 241016A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	103 Rh (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
CCB11	CCB	1	425467	413507.4	102.89	PASS	30-150
ICSA4	ICSA	1	425873.5	413507.4	102.99	PASS	30-150
ICSAB4	ICSAB	1	429290.6	413507.4	103.82	PASS	30-150
CCV12	CCV	1	435357.8	413507.4	105.28	PASS	30-150
CCB12	CCB	1	434361.2	413507.4	105.04	PASS	30-150
CCV13	CCV	1	426907.4	413507.4	103.24	PASS	30-150
CCB13	CCB	1	422057	413507.4	102.07	PASS	30-150
CCV14	CCV	1	430595.2	413507.4	104.13	PASS	30-150
CCB14	CCB	1	424678.4	413507.4	102.7	PASS	30-150
CCV15	CCV	1	417078.8	413507.4	100.86	PASS	30-150
CCB15	CCB	1	414429.1	413507.4	100.22	PASS	30-150
ICSA5	ICSA	1	420070.9	413507.4	101.59	PASS	30-150
ICSAB5	ICSAB	1	425008.7	413507.4	102.78	PASS	30-150
MB-113224	MBLK	1	423963.4	413507.4	102.53	PASS	30-150
LCS-113224	LCS	1	424540.4	413507.4	102.67	PASS	30-150
N069147-001C	SAMP	1	317955.6	413507.4	76.89	PASS	30-150
N069105-001C	SAMP	1	283897.5	413507.4	68.66	PASS	30-150
N069146-001C	SAMP	1	315417.5	413507.4	76.28	PASS	30-150
N069146-002C	SAMP	1	299613.5	413507.4	72.46	PASS	30-150
N069146-003B	SAMP	1	364609.7	413507.4	88.17	PASS	30-150
N069146-003B	SAMP	10	390763.8	413507.4	94.5	PASS	30-150
N069146-005B	SAMP	1	363423.6	413507.4	87.89	PASS	30-150
N069146-005B	SAMP	10	390570.1	413507.4	94.45	PASS	30-150
CCV16	CCV	1	423231.8	413507.4	102.35	PASS	30-150
CCB16	CCB	1	416101.4	413507.4	100.63	PASS	30-150
N069146-006B	SAMP	1	361794.4	413507.4	87.49	PASS	30-150
N069146-006B	SAMP	10	385620.9	413507.4	93.26	PASS	30-150
N069146-007C	SAMP	1	303355.7	413507.4	73.36	PASS	30-150
N069146-007C	SAMP	10	352426.8	413507.4	85.23	PASS	30-150
N069146-009C	SAMP	1	331152.9	413507.4	80.08	PASS	30-150
N069146-011C	SAMP	1	324042.1	413507.4	78.36	PASS	30-150
N069146-011C	SAMP	10	372167	413507.4	90	PASS	30-150
N069146-012C	SAMP	1	323928.3	413507.4	78.34	PASS	30-150
N069146-012C	SAMP	10	366339.9	413507.4	88.59	PASS	30-150
CCV17	CCV	1	408700.1	413507.4	98.84	PASS	30-150
CCB17	CCB	1	408409.9	413507.4	98.77	PASS	30-150
N069146-013C	SAMP	1	318783.2	413507.4	77.09	PASS	30-150
N069146-013C	SAMP	5	364204.9	413507.4	88.08	PASS	30-150
N069146-013C	SAMP	10	365227.2	413507.4	88.32	PASS	30-150
N069146-013C	SAMP	50	388124.1	413507.4	93.86	PASS	30-150
N069146-013C-PS	PS	1	323336.4	413507.4	78.19	PASS	30-150

INTERNAL STANDARD: 241016A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	103 Rh (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
N069146-013C-PS	PS	10	363940.7	413507.4	88.01	PASS	30-150
N069146-013CMS	MS	1	318605.1	413507.4	77.05	PASS	30-150
N069146-013CMS	MS	10	363380	413507.4	87.88	PASS	30-150
N069146-013CMSD	MSD	1	319390.3	413507.4	77.24	PASS	30-150
N069146-013CMSD	MSD	10	364273	413507.4	88.09	PASS	30-150
CCV18	CCV	1	411754.3	413507.4	99.58	PASS	30-150
CCB18	CCB	1	410323.5	413507.4	99.23	PASS	30-150
N069147-002C	SAMP	1	323194.7	413507.4	78.16	PASS	30-150
N069147-002C	SAMP	10	368190.2	413507.4	89.04	PASS	30-150
N069147-003C	SAMP	1	324778.6	413507.4	78.54	PASS	30-150
N069147-003C	SAMP	10	365685.8	413507.4	88.44	PASS	30-150
N069147-004C	SAMP	1	325960.6	413507.4	78.83	PASS	30-150
N069147-004C	SAMP	10	366660.6	413507.4	88.67	PASS	30-150
N069147-005C	SAMP	1	318863.5	413507.4	77.11	PASS	30-150
N069147-005C	SAMP	100	385868.5	413507.4	93.32	PASS	30-150
N069147-006C	SAMP	1	367465.5	413507.4	88.87	PASS	30-150
N069147-006C	SAMP	10	383710.2	413507.4	92.79	PASS	30-150
CCV19	CCV	1	405872	413507.4	98.15	PASS	30-150
CCB19	CCB	1	401644.6	413507.4	97.13	PASS	30-150
ICSA6	ICSA	1	407912.7	413507.4	98.65	PASS	30-150
ICSAB6	ICSAB	1	410663	413507.4	99.31	PASS	30-150

INTERNAL STANDARD: 241027A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	45 Sc (ISTD) [2]					72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	43297	43297	100	PASS	30-150	24548.4	24548.4	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	43525.3	43297	100.53	PASS	30-150	24443.8	24548.4	99.57	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	43763.8	43297	101.08	PASS	30-150	24432.7	24548.4	99.53	PASS	30-150
Std3-5/50 ppb	ICAL	1	43249.2	43297	99.89	PASS	30-150	24423.8	24548.4	99.49	PASS	30-150
Std4-10/100 ppb	ICAL	1	43429.5	43297	100.31	PASS	30-150	24498.3	24548.4	99.8	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	43699.1	43297	100.93	PASS	30-150	24875.6	24548.4	101.33	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	44092.4	43297	101.84	PASS	30-150	24932.3	24548.4	101.56	PASS	30-150
Std7-100/1000 ppb	ICAL	1	44119.1	43297	101.9	PASS	30-150	24825.5	24548.4	101.13	PASS	30-150
Std8-200/2000 ppb	ICAL	1	44651.7	43297	103.13	PASS	30-150	25646.8	24548.4	104.47	PASS	30-150
ICV	ICV	1	43992.1	43297	101.61	PASS	30-150	24923.4	24548.4	101.53	PASS	30-150
ICB	ICB	1	43784.9	43297	101.13	PASS	30-150	25001.3	24548.4	101.84	PASS	30-150
LLCCV1	CCV	1	43576.6	43297	100.65	PASS	30-150	25073.6	24548.4	102.14	PASS	30-150
LLCCV2	CCV	1	44340.8	43297	102.41	PASS	30-150	24638.6	24548.4	100.37	PASS	30-150
MLCCV1	CCV	1	44022.3	43297	101.68	PASS	30-150	24645.2	24548.4	100.39	PASS	30-150
ICSA1	ICSA	1	44518	43297	102.82	PASS	30-150	24732	24548.4	100.75	PASS	30-150
ICSAB1	ICSAB	1	43769.3	43297	101.09	PASS	30-150	24564	24548.4	100.06	PASS	30-150
CCV1	CCV	1	40575.8	43297	93.72	PASS	30-150	23067.4	24548.4	93.97	PASS	30-150
CCB1	CCB	1	39949.9	43297	92.27	PASS	30-150	22854.9	24548.4	93.1	PASS	30-150
ICSA2	ICSA	1	39312.8	43297	90.8	PASS	30-150	22755.8	24548.4	92.7	PASS	30-150
ICSAB2	ICSAB	1	38938.6	43297	89.93	PASS	30-150	23064	24548.4	93.95	PASS	30-150
CCV2	CCV	1	40015.7	43297	92.42	PASS	30-150	23113	24548.4	94.15	PASS	30-150
CCB2	CCB	1	39595.7	43297	91.45	PASS	30-150	23105.3	24548.4	94.12	PASS	30-150
CCV3	CCV	1	38878.5	43297	89.79	PASS	30-150	22784.8	24548.4	92.82	PASS	30-150
CCB3	CCB	1	38987.6	43297	90.05	PASS	30-150	23168.6	24548.4	94.38	PASS	30-150
ICSA3	ICSA	1	39321.8	43297	90.82	PASS	30-150	22672.4	24548.4	92.36	PASS	30-150
ICSAB3	ICSAB	1	38440.8	43297	88.78	PASS	30-150	22321.9	24548.4	90.93	PASS	30-150
CCV4	CCV	1	36037.7	43297	83.23	PASS	30-150	21165.9	24548.4	86.22	PASS	30-150
CCB4	CCB	1	35061.2	43297	80.98	PASS	30-150	20782.1	24548.4	84.66	PASS	30-150
CCV5	CCV	1	30186.1	43297	69.72	PASS	30-150	17745.2	24548.4	72.29	PASS	30-150
CCV5	CCV	1	32914.6	43297	76.02	PASS	30-150	19744.2	24548.4	80.43	PASS	30-150
CCB5	CCB	1	32971.4	43297	76.15	PASS	30-150	19996.7	24548.4	81.46	PASS	30-150
ICSA4	ICSA	1	33166.2	43297	76.6	PASS	30-150	19737.5	24548.4	80.4	PASS	30-150
ICSAB4	ICSAB	1	33421.2	43297	77.19	PASS	30-150	19871	24548.4	80.95	PASS	30-150
N069146-007C	SAMP	1	31326	43297	72.35	PASS	30-150	17850.9	24548.4	72.72	PASS	30-150
N069146-007C	SAMP	10	36072.3	43297	83.31	PASS	30-150	21198.2	24548.4	86.35	PASS	30-150
N069146-003B	SAMP	1	37035.4	43297	85.54	PASS	30-150	21395.1	24548.4	87.15	PASS	30-150
N069146-003B	SAMP	1	34147.1	43297	78.87	PASS	30-150	19918.8	24548.4	81.14	PASS	30-150
N069146-003B	SAMP	1	33082.7	43297	76.41	PASS	30-150	19398.2	24548.4	79.02	PASS	30-150
N069146-003B	SAMP	1	33995.7	43297	78.52	PASS	30-150	20219.2	24548.4	82.36	PASS	30-150
CCV6	CCV	1	36407.4	43297	84.09	PASS	30-150	21646.6	24548.4	88.18	PASS	30-150
CCB6	CCB	1	35524.4	43297	82.05	PASS	30-150	21349.5	24548.4	86.97	PASS	30-150

INTERNAL STANDARD: 241027A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	45 Sc (ISTD) [2]					72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
ICSA5	ICSA	1	35958.7	43297	83.05	PASS	30-150	21198.2	24548.4	86.35	PASS	30-150
ICSAB5	ICSAB	1	36390.7	43297	84.05	PASS	30-150	21352.9	24548.4	86.98	PASS	30-150

INTERNAL STANDARD: 241029A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	14215	14215	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	14513	14215	102.1	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	14245	14215	100.21	PASS	30-150
Std3-5/50 ppb	ICAL	1	14513	14215	102.1	PASS	30-150
Std4-10/100 ppb	ICAL	1	14023.7	14215	98.65	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	14574.2	14215	102.53	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	14664.3	14215	103.16	PASS	30-150
Std7-100/1000 ppb	ICAL	1	14527.5	14215	102.2	PASS	30-150
Std8-200/2000 ppb	ICAL	1	14595.3	14215	102.68	PASS	30-150
ICV	ICV	1	14243.9	14215	100.2	PASS	30-150
ICB	ICB	1	14258.3	14215	100.3	PASS	30-150
LLCCV1	CCV1	1	14037	14215	98.75	PASS	30-150
LLCCV2	CCV1	1	14411.8	14215	101.38	PASS	30-150
MLCCV1	CCV	1	14434.1	14215	101.54	PASS	30-150
ICSA1	ICSA	1	14409.6	14215	101.37	PASS	30-150
ICSAB1	ICSAB	1	14285	14215	100.49	PASS	30-150
CCV1	CCV	1	16495.9	14215	116.05	PASS	30-150
CCV1	CCV	1	16583.8	14215	116.66	PASS	30-150
CCB1	CCB	1	16073.3	14215	113.07	PASS	30-150
CCV2	CCV	1	16263.5	14215	114.41	PASS	30-150
CCB2	CCB	1	16083.4	14215	113.14	PASS	30-150
ICSA2	ICSA	1	16015.5	14215	112.67	PASS	30-150
ICSAB2	ICSAB	1	16095.6	14215	113.23	PASS	30-150
N069146-013C-MS	MS	1	14102.7	14215	99.21	PASS	30-150
N069146-013C-MS	MS	10	15233.7	14215	107.17	PASS	30-150
N069146-013C-MSD	MSD	1	13691.2	14215	96.32	PASS	30-150
N069146-013C-MSD	MSD	10	15138	14215	106.49	PASS	30-150
CCV3	CCV	1	16341.4	14215	114.96	PASS	30-150
CCB3	CCB	1	16022.2	14215	112.71	PASS	30-150
CCV4	CCV	1	16191.2	14215	113.9	PASS	30-150
CCB4	CCB	1	15852	14215	111.52	PASS	30-150
CCV5	CCV	1	16245.7	14215	114.29	PASS	30-150
CCB5	CCB	1	15894.3	14215	111.81	PASS	30-150
ICSA3	ICSA	1	15943.2	14215	112.16	PASS	30-150
ICSAB3	ICSAB	1	16445.9	14215	115.69	PASS	30-150

INTERNAL STANDARD: 241030B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	54112.4	54112.4	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	53927.3	54112.4	99.66	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	52985.4	54112.4	97.92	PASS	30-150
Std3-5/50 ppb	ICAL	1	53290.9	54112.4	98.48	PASS	30-150
Std4-10/100 ppb	ICAL	1	52610.8	54112.4	97.23	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	53586.3	54112.4	99.03	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	52026.9	54112.4	96.15	PASS	30-150
Std7-100/1000 ppb	ICAL	1	52798.2	54112.4	97.57	PASS	30-150
Std8-200/2000 ppb	ICAL	1	49903.5	54112.4	92.22	PASS	30-150
ICV	ICV	1	53090.1	54112.4	98.11	PASS	30-150
ICB	ICB	1	52809.4	54112.4	97.59	PASS	30-150
LLCCV1	CCV	1	52423.6	54112.4	96.88	PASS	30-150
LLCCV2	CCV	1	52448.1	54112.4	96.92	PASS	30-150
MLCCV1	CCV	1	52183.9	54112.4	96.44	PASS	30-150
ICSA1	ICSA	1	53210.6	54112.4	98.33	PASS	30-150
ICSAB1	ICSAB	1	52330	54112.4	96.71	PASS	30-150
N069146-013C	SAMP	1	42033.8	54112.4	77.68	PASS	30-150
CCV1	CCV	1	51570.9	54112.4	95.3	PASS	30-150
CCB1	CCB	1	51699.1	54112.4	95.54	PASS	30-150
CCV1	CCV	1	49463.3	54112.4	91.41	PASS	30-150
CCB1	CCB	1	49237.1	54112.4	90.99	PASS	30-150
ICSA2	ICSA	1	49911.4	54112.4	92.24	PASS	30-150
ICSAB2	ICSAB	1	48779.1	54112.4	90.14	PASS	30-150
CCV2	CCV	1	45798.3	54112.4	84.64	PASS	30-150
CCB2	CCB	1	46139.3	54112.4	85.27	PASS	30-150
CCV3	CCV	1	47852.9	54112.4	88.43	PASS	30-150
CCB3	CCB	1	49242.7	54112.4	91	PASS	30-150
CCV4	CCV	1	37078.6	54112.4	68.52	PASS	30-150
CCB4	CCB	1	37652.1	54112.4	69.58	PASS	30-150
CCV5	CCV	1	37667.7	54112.4	69.61	PASS	30-150
CCB5	CCB	1	39289.3	54112.4	72.61	PASS	30-150
ICSA3	ICSA	1	38832.6	54112.4	71.76	PASS	30-150
ICSAB3	ICSAB	1	38540.8	54112.4	71.22	PASS	30-150
CCV6	CCV	1	36340.2	54112.4	67.16	PASS	30-150
CCB6	CCB	1	37794.7	54112.4	69.84	PASS	30-150
CCV7	CCV	1	25326.3	54112.4	46.8	PASS	30-150
CCB7	CCB	1	26350.1	54112.4	48.7	PASS	30-150
CCV8	CCV	1	24286.9	54112.4	44.88	PASS	30-150
CCB8	CCB	1	24785.5	54112.4	45.8	PASS	30-150
ICSA4	ICSA	1	25399.7	54112.4	46.94	PASS	30-150
ICSAB4	ICSAB	1	26201	54112.4	48.42	PASS	30-150

INTERNAL STANDARD: 241030B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria
CCV9	CCV	1	21799	54112.4	40.28	PASS	30-150
CCB9	CCB	1	21961.4	54112.4	40.58	PASS	30-150
CCV10	CCV	1	17050	54112.4	31.51	PASS	30-150
CCB10	CCB	1	17220.2	54112.4	31.82	PASS	30-150
ICSA5	ICSA	1	17563.9	54112.4	32.46	PASS	30-150
ICSAB5	ICSAB	1	17571.7	54112.4	32.47	PASS	30-150

SERIAL DILUTION/ POST DIGESTION SPIKE



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ICP-MS-Metals in Water

Work Order No.: N069146
 Test Method: EPA 6020
 Analysis Date: 10/17/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 113224

Instrument ID: NV00922-ICP8 (ICPMS-03)
 Instrument Description: Agilent 7800


Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Mn & Se. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069146-013C DT 5x	Arsenic	As	µg/L	3.207192	PASS	3.41695	6.14%	10
N069146-013C DT 5x	Barium	Ba	µg/L	29.39423	PASS	29.23634	0.54%	10
N069146-013C DT 5x	Manganese	Mn	µg/L	6.952814	NA	6.818849	1.96%	10
N069146-013C DT 5x	Molybdenum	Mo	µg/L	13.17971	PASS	13.59022	3.02%	10
N069146-013C DT 5x	Selenium	Se	µg/L	1.454847	NA	1.732162	16.01%	10
N069146-013C DT 50x	Chromium	Cr	µg/L	475.8044	PASS	470.4066	1.15%	10

Reviewed by:

 11/27/2024

Note: NA - Not Applicable

11/12/24 15:58

N069146_6020_113224_DT

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID N069146-013C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: ZZZZZZ	Batch ID: 113224	TestNo: EPA 6020 EPA 3010A	Analysis Date: 10/17/2024	SeqNo: 6244178							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	13.330	0.10	10.00	3.417	99.1	80	120				
Barium	39.365	1.0	10.00	29.24	101	80	120				
Manganese	95.908	0.50	100.0	6.819	89.1	80	120				
Molybdenum	24.183	0.50	10.00	13.59	106	80	120				

Sample ID N069146-013C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: ZZZZZZ	Batch ID: 113224	TestNo: EPA 6020 EPA 3010A	Analysis Date: 10/17/2024	SeqNo: 6272715							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Selenium	11.613	0.50	10.00	1.732	98.8	80	120				
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069146
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID N069146-013C-PS	SampType: PS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194446						
Client ID: ZZZZZZ	Batch ID: 113224	TestNo: EPA 6020	EPA 3010A	Analysis Date: 10/17/2024	SeqNo: 6244548						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	577.710	10	100.0	470.4	107	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

MDL STUDY



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Method Detection Limit

Analytical Method: **EPA 6020B**
 Digestion Method: **3010**
 Date of Analysis: **2/15-2/19/2024**
 Digestion Date: **2/15-2/19/2024**
 Instrument Name: **NV0922-ICP8**
 Analysts: **DJ**

Matrix: **Water**
 Unit: **ug/L**

Analyte	1	2	3	4	5	6	7	AMT SPIKED, ppb	SD	MDLs	PQL	MDL
ANTIMONY	0.543	0.521	0.559	0.527	0.573	0.559	0.572	0.50	0.0208	0.0653	0.50	0.0653
ARSENIC	0.102	0.123	0.107	0.116	0.096	0.161	0.115	0.10	0.0212	0.0668	0.10	0.0668
BARIUM	1.103	1.065	1.083	1.081	1.094	1.066	1.060	1.00	0.0159	0.0499	1.00	0.0499
BERYLLIUM	0.533	0.524	0.557	0.541	0.564	0.565	0.502	0.50	0.0233	0.0733	0.50	0.0733
CADMIUM	0.523	0.562	0.529	0.559	0.491	0.544	0.533	0.50	0.0243	0.0763	0.50	0.0763
CHROMIUM	1.015	0.996	1.000	1.100	1.030	1.081	1.052	1.00	0.0402	0.1264	1.00	0.1264
COBALT	0.524	0.523	0.541	0.559	0.528	0.534	0.551	0.50	0.0138	0.0433	0.50	0.0433
COPPER	1.043	1.028	1.026	1.016	1.068	1.098	1.021	1.00	0.0301	0.0947	1.00	0.0947
IRON	11.041	10.660	10.783	11.168	10.989	10.919	10.802	10.00	0.1734	0.5449	10.00	0.5449
LEAD	1.076	1.068	1.091	1.077	1.083	1.040	1.040	1.00	0.0203	0.0637	1.00	0.0637
MANGANESE	0.558	0.529	0.519	0.541	0.532	0.525	0.554	0.50	0.0148	0.0465	0.50	0.0465
MOLYBDENUM	0.564	0.571	0.574	0.537	0.518	0.554	0.550	0.50	0.0200	0.0629	0.50	0.0629
NICKEL	1.025	1.059	1.057	0.947	0.974	1.069	1.036	1.00	0.0465	0.1461	1.00	0.1461
SELENIUM	0.679	0.622	0.547	0.429	0.439	0.552	0.506	0.50	0.0911	0.2863	0.50	0.2863
SILVER	0.525	0.538	0.555	0.545	0.551	0.530	0.518	0.50	0.0140	0.0439	0.50	0.0439
THALLIUM	0.503	0.493	0.491	0.555	0.525	0.504	0.499	0.50	0.0227	0.0713	0.50	0.0713
URANIUM	0.517	0.513	0.528	0.542	0.526	0.533	0.523	0.50	0.0097	0.0306	0.50	0.0306
VANADIUM	1.081	1.076	1.027	1.054	1.069	1.043	1.080	1.00	0.0209	0.0658	1.00	0.0658
ZINC	10.646	10.643	10.661	10.514	10.927	10.516	10.419	10.00	0.1631	0.5126	10.00	0.7534
ALUMINUM	10.305	10.064	10.146	10.336	10.592	10.459	10.670	10.00	0.2224	0.6990	10.00	0.6990



Method Detection Limit (Blanks)

Analyte	1	2	3	4	5	6	7	Mean	SD	MDLb
ANTIMONY	0.011	0.009	0.001	0.001	0.003	0.018	0.012	0.0080	0.0065	0.0285
ARSENIC	0.021	0.013	0.004	0.008	0.000	0.001	0.000	0.0067	0.0079	0.0316
BARIUM	0.000	0.018	0.014	0.000	0.003	0.001	0.003	0.0054	0.0072	0.0280
BERYLLIUM	0.003	0.005	0.007	0.002	0.005	0.014	0.003	0.0057	0.0039	0.0179
CADMIUM	0.000	0.002	0.000	0.000	0.000	0.001	0.000	0.0004	0.0007	0.0026
CHROMIUM	0.000	0.000	0.000	0.000	0.000	0.001	0.004	0.0008	0.0016	0.0059
COBALT	0.000	0.000	0.000	0.000	0.000	0.003	0.001	0.0006	0.0012	0.0042
COPPER	0.000	0.000	0.069	0.000	0.010	0.000	0.000	0.0113	0.0258	0.0924
IRON	0.000	0.000	0.000	0.236	0.187	0.020	0.112	0.0792	0.0996	0.3922
LEAD	0.001	0.000	0.000	0.002	0.001	0.001	0.001	0.0011	0.0009	0.0037
MANGANESE	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.0008	0.0020	0.0071
MOLYBDENUM	0.017	0.013	0.007	0.015	0.004	0.022	0.009	0.0126	0.0062	0.0321
NICKEL	0.000	0.000	0.062	0.000	0.000	0.017	0.013	0.0132	0.0228	0.0849
SELENIUM	0.007	0.027	0.000	0.000	0.019	0.000	0.013	0.0093	0.0107	0.0428
SILVER	0.004	0.002	0.002	0.000	0.000	0.001	0.000	0.0012	0.0014	0.0057
THALLIUM	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.0003	0.0008	0.0028
URANIUM	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.0001	0.0004	0.0013
VANADIUM	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.0003	0.0004	0.0016
ZINC	0.000	0.000	0.257	0.175	0.513	0.000	0.000	0.1350	0.1968	0.7534
ALUMINUM	0.000	0.000	0.106	0.000	0.000	0.170	0.295	0.0816	0.1160	0.4460

Note: Higher value between **MDLs** and **MDLb** will be used.



LOD PQL VERIFICATION 2024

Analytical Method: EPA 6020 / 200.8
Digestion Method: EPA 3010A
Date of Analysis: 1/20/2024
Digestion Date: 1/20/2024
Instrument Name: ICPMS3
Analysts: DBJ

Matrix: Water
Units: ug/L

N062388

Analyte	MDLs	LOD	ACTUAL LOD	PQL	ACTUAL PQL	% RECOVERY
ANTIMONY	0.0652	0.025	0.288	0.50	0.552	110
ARSENIC	0.0667	0.050	0.055	0.10	0.107	107
BARIUM	0.0498	0.500	0.547	1.00	1.049	105
BERYLLIUM	0.0732	0.250	0.253	0.50	0.502	100
CADMIUM	0.0763	0.250	0.255	0.50	0.498	100
CHROMIUM	0.1263	0.500	0.536	1.00	1.048	105
COBALT	0.0433	0.250	0.261	0.50	0.518	104
COPPER	0.0946	0.100	0.620	1.00	0.941	94
IRON	0.5444	5.000	5.219	10.00	10.531	105
LEAD	0.0636	0.500	0.513	1.00	1.035	104
MANGANESE	0.0464	0.250	0.261	0.50	0.602	120
MOLYBDENUM	0.0628	0.250	0.275	0.50	0.534	107
NICKEL	0.1460	0.500	0.492	1.00	1.184	118
SELENIUM	0.2861	0.250	0.272	0.50	0.536	107
SILVER	0.0438	0.250	0.277	0.50	0.534	107
THALLIUM	0.0712	0.250	0.264	0.50	0.508	102
URANIUM	0.0306	0.250	0.261	0.50	0.523	105
VANADIUM	0.0657	0.500	0.557	1.00	1.063	106
ZINC	0.5121	5.000	5.394	10.00	10.481	105
ALUMINUM	0.6983	5.000	5.519	10.00	10.395	104

ARCADIS

Project: PG&E Topock - PCM

Project No.: 30211191

ASSET Laboratories Work Order:

N069147

ANALYTICAL and QC RESULTS SAMPLE RECEIVING ITEMS

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October 29, 2024

Laura Madsen
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661
TEL: 1 720 344 3771
FAX:

Workorder No.: N069147

RE: PG&E Topock - PCM, 30211191

Attention: Laura Madsen

Enclosed are the results for sample(s) received on October 10, 2024 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

The reported results relate only to the samples as received and parameters tested by the laboratory.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,



Nancy Sibucan
Laboratory Director

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CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30211191
Lab Order: N069147

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 218.6:

Dilution was necessary for samples N069147-002, -003, -004, and -005A due to matrix interference. Samples were analyzed at lower dilution however matrix spike recovery and/or retention time criteria were not met indicating possible matrix interference. Samples were reported at dilution that meets matrix spike recovery limit and the detected peak within retention time window.

Analytical Comments for EPA 300:

Dilution was necessary due to precipitation of samples upon addition of eluent.



ASSET Laboratories

Date: 29-Oct-24

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30211191
Lab Order: N069147
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N069147-001A	MW-79-058-1024	Groundwater	10/10/2024 10:16:00 AM	10/10/2024	10/29/2024
N069147-001B	MW-79-058-1024	Groundwater	10/10/2024 10:16:00 AM	10/10/2024	10/29/2024
N069147-001C	MW-79-058-1024	Groundwater	10/10/2024 10:16:00 AM	10/10/2024	10/29/2024
N069147-002A	MW-79-102-1024	Groundwater	10/10/2024 9:48:00 AM	10/10/2024	10/29/2024
N069147-002B	MW-79-102-1024	Groundwater	10/10/2024 9:48:00 AM	10/10/2024	10/29/2024
N069147-002C	MW-79-102-1024	Groundwater	10/10/2024 9:48:00 AM	10/10/2024	10/29/2024
N069147-003A	MW-80-057-1024	Groundwater	10/10/2024 12:39:00 PM	10/10/2024	10/29/2024
N069147-003B	MW-80-057-1024	Groundwater	10/10/2024 12:39:00 PM	10/10/2024	10/29/2024
N069147-003C	MW-80-057-1024	Groundwater	10/10/2024 12:39:00 PM	10/10/2024	10/29/2024
N069147-004A	MW-80-082-1024	Groundwater	10/10/2024 12:16:00 PM	10/10/2024	10/29/2024
N069147-004B	MW-80-082-1024	Groundwater	10/10/2024 12:16:00 PM	10/10/2024	10/29/2024
N069147-004C	MW-80-082-1024	Groundwater	10/10/2024 12:16:00 PM	10/10/2024	10/29/2024
N069147-005A	MW-26-1024	Groundwater	10/10/2024 10:50:00 AM	10/10/2024	10/29/2024
N069147-005B	MW-26-1024	Groundwater	10/10/2024 10:50:00 AM	10/10/2024	10/29/2024
N069147-005C	MW-26-1024	Groundwater	10/10/2024 10:50:00 AM	10/10/2024	10/29/2024
N069147-006A	MW-51-1024	Groundwater	10/10/2024 11:35:00 AM	10/10/2024	10/29/2024
N069147-006B	MW-51-1024	Groundwater	10/10/2024 11:35:00 AM	10/10/2024	10/29/2024
N069147-006C	MW-51-1024	Groundwater	10/10/2024 11:35:00 AM	10/10/2024	10/29/2024
N069147-007A	EB-708-Q424	Groundwater	10/10/2024 1:30:00 PM	10/10/2024	10/29/2024



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ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 29-Oct-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069147
Project: PG&E Topock - PCM, 30211191
Lab ID: N069147-001

Client Sample ID: MW-79-058-1024
Collection Date: 10/10/2024 10:16:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241012A	QC Batch: R194221			PrepDate:		Analyst: RAB
Hexavalent Chromium	2.6	0.039	0.20	µg/L	1	10/12/2024 11:10 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 29-Oct-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069147
Project: PG&E Topock - PCM, 30211191
Lab ID: N069147-002

Client Sample ID: MW-79-102-1024
Collection Date: 10/10/2024 9:48:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241013A	QC Batch: R194254			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.19	1.0	µg/L	5	10/13/2024 12:48 PM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 29-Oct-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069147
Project: PG&E Topock - PCM, 30211191
Lab ID: N069147-003

Client Sample ID: MW-80-057-1024
Collection Date: 10/10/2024 12:39:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241012A	QC Batch: R194221			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.19	1.0	µg/L	5	10/12/2024 01:42 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 29-Oct-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069147
Project: PG&E Topock - PCM, 30211191
Lab ID: N069147-004

Client Sample ID: MW-80-082-1024
Collection Date: 10/10/2024 12:16:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241012A	QC Batch: R194221			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.19	1.0	µg/L	5	10/12/2024 02:01 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 29-Oct-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069147
Project: PG&E Topock - PCM, 30211191
Lab ID: N069147-005

Client Sample ID: MW-26-1024
Collection Date: 10/10/2024 10:50:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241012A	QC Batch: R194221			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.19	1.0	µg/L	5	10/12/2024 02:20 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 29-Oct-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069147
Project: PG&E Topock - PCM, 30211191
Lab ID: N069147-006

Client Sample ID: MW-51-1024
Collection Date: 10/10/2024 11:35:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: NV00922-IC7_241012A	QC Batch: R194221		PrepDate:		Analyst: RAB		
Hexavalent Chromium	2.0	0.039	0.20		µg/L	1	10/12/2024 11:48 AM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 29-Oct-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069147
Project: PG&E Topock - PCM, 30211191
Lab ID: N069147-007

Client Sample ID: EB-708-Q424
Collection Date: 10/10/2024 1:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241012A	QC Batch: R194221			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	10/12/2024 12:07 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID	LCS-R194221	SampType:	LCS	TestCode:	218.6_WPGE	Units:	µg/L	Prep Date:		RunNo:	194221			
Client ID:	LCSW	Batch ID:	R194221	TestNo:	EPA 218.6			Analysis Date:	10/12/2024	SeqNo:	6228214			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium		5.405		0.039	0.20	5.000	0	108	90	110				

Sample ID	MB-R194221	SampType:	MBLK	TestCode:	218.6_WPGE	Units:	µg/L	Prep Date:		RunNo:	194221			
Client ID:	PBW	Batch ID:	R194221	TestNo:	EPA 218.6			Analysis Date:	10/12/2024	SeqNo:	6228215			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium		ND		0.039	0.20									

Sample ID	N069148-001AMS	SampType:	MS	TestCode:	218.6_WPGE	Units:	µg/L	Prep Date:		RunNo:	194221			
Client ID:	ZZZZZ	Batch ID:	R194221	TestNo:	EPA 218.6			Analysis Date:	10/12/2024	SeqNo:	6228217			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium		190.946		0.77	4.0	100.0	88.11	103	90	110				

Sample ID	N069148-001AMSD	SampType:	MSD	TestCode:	218.6_WPGE	Units:	µg/L	Prep Date:		RunNo:	194221			
Client ID:	ZZZZZ	Batch ID:	R194221	TestNo:	EPA 218.6			Analysis Date:	10/12/2024	SeqNo:	6228218			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium		187.792		0.77	4.0	100.0	88.11	99.7	90	110	190.9	1.67	20	

Sample ID	N069103-003ADUP	SampType:	DUP	TestCode:	218.6_WPGE	Units:	µg/L	Prep Date:		RunNo:	194221			
Client ID:	ZZZZZ	Batch ID:	R194221	TestNo:	EPA 218.6			Analysis Date:	10/12/2024	SeqNo:	6228220			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium		19.953		0.19	1.0						19.32	3.21	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069146-007AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221							
Client ID: ZZZZZZ	Batch ID: R194221	TestNo: EPA 218.6	Analysis Date: 10/12/2024	SeqNo: 6228222								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.797	0.19	1.0	5.000	0	95.9	90	110				
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Sample ID N069147-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221							
Client ID: ZZZZZZ	Batch ID: R194221	TestNo: EPA 218.6	Analysis Date: 10/12/2024	SeqNo: 6228227								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	3.611	0.039	0.20	1.000	2.585	103	90	110				
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Sample ID N069147-006AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221							
Client ID: ZZZZZZ	Batch ID: R194221	TestNo: EPA 218.6	Analysis Date: 10/12/2024	SeqNo: 6228229								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	2.999	0.039	0.20	1.000	2.010	98.9	90	110				
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Sample ID N069147-007AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221							
Client ID: ZZZZZZ	Batch ID: R194221	TestNo: EPA 218.6	Analysis Date: 10/12/2024	SeqNo: 6228231								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	1.051	0.039	0.20	1.000	0	105	90	110				
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Sample ID N069147-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221							
Client ID: ZZZZZZ	Batch ID: R194221	TestNo: EPA 218.6	Analysis Date: 10/12/2024	SeqNo: 6228235								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.886	0.19	1.0	5.000	0	97.7	90	110				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| (M) Test is modified | | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069147-004AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221							
Client ID: ZZZZZZ	Batch ID: R194221	TestNo: EPA 218.6		Analysis Date: 10/12/2024	SeqNo: 6228237							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.216	0.19	1.0	5.000	0	104	90	110				

Sample ID N069147-005AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221							
Client ID: ZZZZZZ	Batch ID: R194221	TestNo: EPA 218.6		Analysis Date: 10/12/2024	SeqNo: 6228239							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.185	0.19	1.0	5.000	0	104	90	110				

Sample ID N069146-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221							
Client ID: ZZZZZZ	Batch ID: R194221	TestNo: EPA 218.6		Analysis Date: 10/12/2024	SeqNo: 6228248							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	64.631	0.19	1.0	25.00	39.37	101	90	110				

Sample ID N069146-011AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221							
Client ID: ZZZZZZ	Batch ID: R194221	TestNo: EPA 218.6		Analysis Date: 10/12/2024	SeqNo: 6228250							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.953	0.19	1.0	5.000	0	99.1	90	110				

Sample ID N069146-012AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221							
Client ID: ZZZZZZ	Batch ID: R194221	TestNo: EPA 218.6		Analysis Date: 10/12/2024	SeqNo: 6228254							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.947	0.19	1.0	5.000	0	98.9	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID MB-R194254	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194254							
Client ID: PBW	Batch ID: R194254	TestNo: EPA 218.6		Analysis Date: 10/13/2024	SeqNo: 6230969							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	ND	0.039	0.20									
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Sample ID LCS-R194254	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194254							
Client ID: LCSW	Batch ID: R194254	TestNo: EPA 218.6		Analysis Date: 10/13/2024	SeqNo: 6230970							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.889	0.039	0.20	5.000	0	97.8	90	110				
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Sample ID N069147-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194254							
Client ID: ZZZZZ	Batch ID: R194254	TestNo: EPA 218.6		Analysis Date: 10/13/2024	SeqNo: 6230972							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.990	0.19	1.0	5.000	0	99.8	90	110				
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Sample ID N069147-002AMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194254							
Client ID: ZZZZZ	Batch ID: R194254	TestNo: EPA 218.6		Analysis Date: 10/13/2024	SeqNo: 6230973							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.755	0.19	1.0	5.000	0	95.1	90	110	4.990	4.81	20	
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Sample ID N069149-001ADUP	SampType: DUP	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194254							
Client ID: ZZZZZ	Batch ID: R194254	TestNo: EPA 218.6		Analysis Date: 10/13/2024	SeqNo: 6230975							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	ND	0.039	0.20						0	0	20	
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069105-008AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194254							
Client ID: ZZZZZZ	Batch ID: R194254	TestNo: EPA 218.6		Analysis Date: 10/13/2024	SeqNo: 6230978							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.859	0.19	1.0	5.000	0	97.2	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069147
Project: PG&E Topock - PCM, 30211191
Lab ID: N069147-001

Client Sample ID: MW-79-058-1024
Collection Date: 10/10/2024 10:16:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241011A	QC Batch: R194191				PrepDate:		Analyst: RAB
Sulfate	320	17	25		mg/L	50	10/11/2024 01:19 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241011A	QC Batch: R194197				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	10/11/2024 02:56 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069147
Project: PG&E Topock - PCM, 30211191
Lab ID: N069147-002

Client Sample ID: MW-79-102-1024
Collection Date: 10/10/2024 9:48:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241011A	QC Batch: R194191				PrepDate:		Analyst: RAB
Sulfate	270	17	25		mg/L	50	10/11/2024 01:35 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241011A	QC Batch: R194197				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	10/11/2024 11:21 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069147
Project: PG&E Topock - PCM, 30211191
Lab ID: N069147-003

Client Sample ID: MW-80-057-1024
Collection Date: 10/10/2024 12:39:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241011A	QC Batch: R194191				PrepDate:		Analyst: RAB
Sulfate	300	17	25		mg/L	50	10/11/2024 01:51 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241011A	QC Batch: R194197				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	10/11/2024 03:12 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069147
Project: PG&E Topock - PCM, 30211191
Lab ID: N069147-004

Client Sample ID: MW-80-082-1024
Collection Date: 10/10/2024 12:16:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241011A	QC Batch: R194191				PrepDate:		Analyst: RAB
Sulfate	300	17	25		mg/L	50	10/11/2024 02:08 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241011A	QC Batch: R194197				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	10/11/2024 03:28 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069147
Project: PG&E Topock - PCM, 30211191
Lab ID: N069147-005

Client Sample ID: MW-26-1024
Collection Date: 10/10/2024 10:50:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241011A	QC Batch: R194191				PrepDate:		Analyst: RAB
Sulfate	300	17	25		mg/L	50	10/11/2024 02:24 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241011A	QC Batch: R194197				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	10/11/2024 03:44 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069147
Project: PG&E Topock - PCM, 30211191
Lab ID: N069147-006

Client Sample ID: MW-51-1024
Collection Date: 10/10/2024 11:35:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241011A	QC Batch: R194191				PrepDate:		Analyst: RAB
Sulfate	11	1.7	2.5		mg/L	5	10/11/2024 02:40 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241011A	QC Batch: R194197				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.12	0.25		mg/L	5	10/11/2024 05:03 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID	MB-R194191_SO4	SampType:	MBLK	TestCode:	300_W_SO4P	Units:	mg/L	Prep Date:		RunNo:	194191			
Client ID:	PBW	Batch ID:	R194191	TestNo:	EPA 300.0			Analysis Date:	10/11/2024	SeqNo:	6227003			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		ND		0.34	0.50									

Sample ID	LCS-R194191_SO4	SampType:	LCS	TestCode:	300_W_SO4P	Units:	mg/L	Prep Date:		RunNo:	194191			
Client ID:	LCSW	Batch ID:	R194191	TestNo:	EPA 300.0			Analysis Date:	10/11/2024	SeqNo:	6227004			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		3.934		0.34	0.50	4.000	0	98.3	90	110				

Sample ID	N069146-013BMS	SampType:	MS	TestCode:	300_W_SO4P	Units:	mg/L	Prep Date:		RunNo:	194191			
Client ID:	ZZZZZ	Batch ID:	R194191	TestNo:	EPA 300.0			Analysis Date:	10/11/2024	SeqNo:	6227006			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		608.455		17	25	200.0	406.3	101	80	120				

Sample ID	N069146-013BMSD	SampType:	MSD	TestCode:	300_W_SO4P	Units:	mg/L	Prep Date:		RunNo:	194191			
Client ID:	ZZZZZ	Batch ID:	R194191	TestNo:	EPA 300.0			Analysis Date:	10/11/2024	SeqNo:	6227007			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		605.435		17	25	200.0	406.3	99.6	80	120	608.5	0.498	20	

Sample ID	N069147-001BDUP	SampType:	DUP	TestCode:	300_W_SO4P	Units:	mg/L	Prep Date:		RunNo:	194191			
Client ID:	ZZZZZ	Batch ID:	R194191	TestNo:	EPA 300.0			Analysis Date:	10/11/2024	SeqNo:	6227022			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		316.150		17	25						318.7	0.811	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID N069147-001BMS	SampType: MS	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 194191							
Client ID: ZZZZZZ	Batch ID: R194191	TestNo: EPA 300.0		Analysis Date: 10/11/2024	SeqNo: 6227023							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	511.375	17	25	200.0	318.7	96.3	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: MB-R194197_NO3	SampType: MBLK	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194197							
Client ID: PBW	Batch ID: R194197	TestNo: EPA 300.0		Analysis Date: 10/11/2024	SeqNo: 6227123							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.024 0.050

Sample ID: LCS-R194197_NO3	SampType: LCS	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194197							
Client ID: LCSW	Batch ID: R194197	TestNo: EPA 300.0		Analysis Date: 10/11/2024	SeqNo: 6227124							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 1.263 0.024 0.050 1.250 0 101 90 110

Sample ID: N069146-013BMS	SampType: MS	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194197							
Client ID: ZZZZZ	Batch ID: R194197	TestNo: EPA 300.0		Analysis Date: 10/11/2024	SeqNo: 6227126							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 12.587 0.24 0.50 12.50 0.6420 95.6 80 120

Sample ID: N069146-013BMDS	SampType: MSD	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194197							
Client ID: ZZZZZ	Batch ID: R194197	TestNo: EPA 300.0		Analysis Date: 10/11/2024	SeqNo: 6227127							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 12.538 0.24 0.50 12.50 0.6420 95.2 80 120 12.59 0.390 20

Sample ID: N069147-001BDUP	SampType: DUP	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194197							
Client ID: ZZZZZ	Batch ID: R194197	TestNo: EPA 300.0		Analysis Date: 10/11/2024	SeqNo: 6227147							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.24 0.50 0 0 20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID N069147-001BMS	SampType: MS	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194197							
Client ID: ZZZZZZ	Batch ID: R194197	TestNo: EPA 300.0	Analysis Date: 10/11/2024	SeqNo: 6227148								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	12.213	0.24	0.50	12.50	0	97.7	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 29-Oct-24

CLIENT:	ARCADIS U.S., Inc. - California	Client Sample ID:	MW-79-058-1024
Lab Order:	N069147		
Project:	PG&E Topock - PCM, 30211191	Collection Date:	10/10/2024 10:16:00 AM
Lab ID:	N069147-001	Matrix:	GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP4_241011E	QC Batch: 113210			PrepDate:	10/11/2024	Analyst: DJ	
Iron	ND	5.8	20		µg/L	1	10/12/2024 02:04 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out	(M)	Test is modified



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ANALYTICAL RESULTS

Print Date: 29-Oct-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069147
Project: PG&E Topock - PCM, 30211191
Lab ID: N069147-002

Client Sample ID: MW-79-102-1024
Collection Date: 10/10/2024 9:48:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP4_241011E	QC Batch: 113210			PrepDate:	10/11/2024	Analyst: DJ	
Iron	430	5.8	20		µg/L	1	10/12/2024 02:06 AM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 29-Oct-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069147
Project: PG&E Topock - PCM, 30211191
Lab ID: N069147-003

Client Sample ID: MW-80-057-1024
Collection Date: 10/10/2024 12:39:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP4_241011E	QC Batch: 113210			PrepDate:	10/11/2024	Analyst: DJ	
Iron	110	5.8	20		µg/L	1	10/12/2024 02:08 AM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 29-Oct-24

CLIENT: ARCADIS U.S., Inc. - California	Client Sample ID: MW-80-082-1024
Lab Order: N069147	
Project: PG&E Topock - PCM, 30211191	Collection Date: 10/10/2024 12:16:00 PM
Lab ID: N069147-004	Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP4_241011E	QC Batch: 113210			PrepDate:	10/11/2024	Analyst: DJ	
Iron	240	5.8	20		µg/L	1	10/12/2024 02:10 AM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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ANALYTICAL RESULTS

Print Date: 29-Oct-24

CLIENT: ARCADIS U.S., Inc. - California	Client Sample ID: MW-26-1024
Lab Order: N069147	
Project: PG&E Topock - PCM, 30211191	Collection Date: 10/10/2024 10:50:00 AM
Lab ID: N069147-005	Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP4_241011E	QC Batch: 113210			PrepDate:	10/11/2024	Analyst: DJ	
Iron	330	5.8	20		µg/L	1	10/12/2024 02:13 AM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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ANALYTICAL RESULTS

Print Date: 29-Oct-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069147
Project: PG&E Topock - PCM, 30211191
Lab ID: N069147-006

Client Sample ID: MW-51-1024
Collection Date: 10/10/2024 11:35:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP4_241011E	QC Batch: 113210			PrepDate:	10/11/2024	Analyst: DJ	
Iron	30	5.8	20		µg/L	1	10/12/2024 02:20 AM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID MB-113210	SampType: MBLK	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 10/11/2024	RunNo: 194223							
Client ID: PBW	Batch ID: 113210	TestNo: EPA 6010B EPA 3010A		Analysis Date: 10/12/2024	SeqNo: 6229406							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	5.900	5.8	20									

Sample ID LCS-113210	SampType: LCS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 10/11/2024	RunNo: 194223							
Client ID: LCSW	Batch ID: 113210	TestNo: EPA 6010B EPA 3010A		Analysis Date: 10/12/2024	SeqNo: 6229407							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	109.840	5.8	20	100.0	0	110	85	115				

Sample ID N069146-013CMS	SampType: MS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 10/11/2024	RunNo: 194223							
Client ID: ZZZZZ	Batch ID: 113210	TestNo: EPA 6010B EPA 3010A		Analysis Date: 10/12/2024	SeqNo: 6229421							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	115.970	5.8	20	100.0	13.21	103	75	125				

Sample ID N069146-013CMSD	SampType: MSD	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 10/11/2024	RunNo: 194223							
Client ID: ZZZZZ	Batch ID: 113210	TestNo: EPA 6010B EPA 3010A		Analysis Date: 10/12/2024	SeqNo: 6229422							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	121.600	5.8	20	100.0	13.21	108	75	125	116.0	4.74	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

Calculations are based on raw values

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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

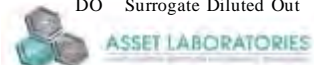
ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID N069146-013C-PS	SampType: PS	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223							
Client ID: ZZZZZ	Batch ID: 113210	TestNo: EPA 6010B EPA 3010A		Analysis Date: 10/12/2024	SeqNo: 6229420							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	120.230	5.8	20	100.0	13.21	107	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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ICP-Metals in Water

Work Order No.: N069147
Test Method: EPA 6010B
Analysis Date: 10/12/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 113210

Instrument ID: NV00922-ICP4
Instrument Description: Agilent 5800VDV

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Fe. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069146-013C DT 5x	Iron	Fe	µg/L	0	NA	13.21	100.00%	10

REVIEWED BY:



10/28/2024

Note: NA - Not Applicable

10/28/24 20:00

N069147_6010B_113210_DT

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 29-Oct-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069147
Project: PG&E Topock - PCM, 30211191
Lab ID: N069147-001

Client Sample ID: MW-79-058-1024
Collection Date: 10/10/2024 10:16:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241016D	QC Batch:	113224	PrepDate:	10/11/2024	Analyst:	DJ
Arsenic	0.99	0.067	0.10	µg/L	1	10/17/2024 04:45 AM	
Barium	110	0.050	1.0	µg/L	1	10/17/2024 04:45 AM	
Manganese	21	0.046	0.50	µg/L	1	10/17/2024 04:45 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 29-Oct-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069147
Project: PG&E Topock - PCM, 30211191
Lab ID: N069147-002

Client Sample ID: MW-79-102-1024
Collection Date: 10/10/2024 9:48:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241016D	QC Batch: 113224			PrepDate: 10/11/2024		Analyst: DJ	
Arsenic	3.6	0.067	0.10	µg/L	1	10/17/2024 07:19 AM	
Barium	94	0.050	1.0	µg/L	1	10/17/2024 07:19 AM	
Manganese	360	0.46	5.0	µg/L	10	10/17/2024 07:23 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 29-Oct-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069147
Project: PG&E Topock - PCM, 30211191
Lab ID: N069147-003

Client Sample ID: MW-80-057-1024
Collection Date: 10/10/2024 12:39:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241016D	QC Batch: 113224			PrepDate: 10/11/2024		Analyst: DJ	
Arsenic	3.2	0.067	0.10	µg/L	1	10/17/2024 07:28 AM	
Barium	99	0.050	1.0	µg/L	1	10/17/2024 07:28 AM	
Manganese	730	0.46	5.0	µg/L	10	10/17/2024 07:33 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 29-Oct-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069147
Project: PG&E Topock - PCM, 30211191
Lab ID: N069147-004

Client Sample ID: MW-80-082-1024
Collection Date: 10/10/2024 12:16:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241016D	QC Batch:	113224	PrepDate:	10/11/2024	Analyst:	DJ
Arsenic	5.4	0.067	0.10	µg/L	1	10/17/2024 07:37 AM	
Barium	88	0.050	1.0	µg/L	1	10/17/2024 07:37 AM	
Manganese	770	0.46	5.0	µg/L	10	10/17/2024 07:42 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069147
Project: PG&E Topock - PCM, 30211191
Lab ID: N069147-005

Client Sample ID: MW-26-1024
Collection Date: 10/10/2024 10:50:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241016D	QC Batch: 113224			PrepDate: 10/11/2024		Analyst: DJ	
Arsenic	4.8	0.067	0.10	µg/L	1	10/17/2024 07:47 AM	
Barium	100	0.050	1.0	µg/L	1	10/17/2024 07:47 AM	
Manganese	1700	4.6	50	µg/L	100	10/17/2024 07:51 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 29-Oct-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069147
Project: PG&E Topock - PCM, 30211191
Lab ID: N069147-006

Client Sample ID: MW-51-1024
Collection Date: 10/10/2024 11:35:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241016D	QC Batch:	113224	PrepDate:	10/11/2024	Analyst:	DJ
Arsenic	3.2	0.067	0.10	µg/L	1	10/17/2024 07:56 AM	
Barium	110	0.050	1.0	µg/L	1	10/17/2024 07:56 AM	
Manganese	520	0.46	5.0	µg/L	10	10/17/2024 08:01 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID MB-113224	SampType: MBLK	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/11/2024	RunNo: 194443							
Client ID: PBW	Batch ID: 113224	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/17/2024	SeqNo: 6244151							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.067	0.10									
Barium	ND	0.050	1.0									
Manganese	ND	0.046	0.50									

Sample ID LCS-113224	SampType: LCS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/11/2024	RunNo: 194443							
Client ID: LCSW	Batch ID: 113224	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/17/2024	SeqNo: 6244152							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	9.125	0.067	0.10	10.00	0	91.2	85	115				
Barium	10.650	0.050	1.0	10.00	0	106	85	115				
Manganese	97.698	0.046	0.50	100.0	0	97.7	85	115				

Sample ID N069146-013CMS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/11/2024	RunNo: 194443							
Client ID: ZZZZZ	Batch ID: 113224	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/17/2024	SeqNo: 6244180							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	13.594	0.067	0.10	10.00	3.417	102	75	125				
Barium	39.676	0.050	1.0	10.00	29.24	104	75	125				
Manganese	95.549	0.046	0.50	100.0	6.819	88.7	75	125				

Sample ID N069146-013CMSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/11/2024	RunNo: 194443							
Client ID: ZZZZZ	Batch ID: 113224	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/17/2024	SeqNo: 6244182							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	13.392	0.067	0.10	10.00	3.417	99.8	75	125	13.59	1.50	20	
Barium	38.865	0.050	1.0	10.00	29.24	96.3	75	125	39.68	2.06	20	
Manganese	95.933	0.046	0.50	100.0	6.819	89.1	75	125	95.55	0.401	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID N069146-013C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443							
Client ID: ZZZZZ	Batch ID: 113224	TestNo: EPA 6020	EPA 3010A	Analysis Date: 10/17/2024	SeqNo: 6244178							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	13.330	0.067	0.10	10.00	3.417	99.1	80	120				
Barium	39.365	0.050	1.0	10.00	29.24	101	80	120				
Manganese	95.908	0.046	0.50	100.0	6.819	89.1	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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ICP-MS-Metals in Water

Work Order No.: N069147
Test Method: EPA 6020
Analysis Date: 10/17/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 113224

Instrument ID: NV00922-ICP8 (ICPMS-03)
Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Mn. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069146-013C DT 5x	Arsenic	As	µg/L	3.207192	PASS	3.41695	6.14%	10
N069146-013C DT 5x	Barium	Ba	µg/L	29.39423	PASS	29.23634	0.54%	10
N069146-013C DT 5x	Manganese	Mn	µg/L	6.952814	NA	6.818849	1.96%	10

REVIEWED BY:



10/28/2024

Note: NA - Not Applicable

10/28/24 18:07

N069147_6020_113224_DT

SAMPLE RECEIVING ITEMS



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ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CHAIN OF CUSTODY RECORD

ARCUS02 C: 10/25/202 12:00 AM
 FOLDER R: 10/10/2024
N069147-008A
 1 of 1



Page 1 of 1

Client: Arcadis		Report to: Laura Madsen		Bill to: Janet Newman		EED I	
Address: 630 Plaza Dr, Suite 200		Company: Arcadis		Address:		Excel EDD	
Address: Highlands Ranch, CO 80129		Email: laura.madsen@arcadis.com		Address:		Geotracker	
Phone: 720-344-3500		Address:		Email to: janet.newman@arcadis.com		Labspec	
Submitted By: Riggie T.		Phone: 949 293-2445		P.O.#		Others	
Title: Field Tech		Fax:		Fax:		Specify:	
Signature: [Signature]		Date: 10/10/24		Sampled By: Riggie T.		RWQCB	
Project Name: PG&E Topock - PCM		Signature: [Signature]		Date: 10/10/24		Regulatory	
Project Number: 30211191		Date:		Date:		Specify State:	

Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Matrix												Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks	
						Ground	X	Sediment	250 mL poly	1 L poly	500mL poly	500mL poly	500mL poly	3x40 mL VOA	125 mL poly	1 L poly	1 L poly						1 L poly
						Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH																	
						Nitrate as N, sulfate (EPA 300.0)																	
						Dissolved metals (SW6020) FF; HNO3 Arsenic, Iron, Barium, Manganese																	
						Dissolved metals (SW6020) FF; HNO3 Total Dissolved Chromium.																	
						Dissolved metals (SW6020) FF; HNO3 Molybdenum, Selenium																	
						Total Organic Carbon (SM5310C); H2SO4																	
						Nitrate/Nitrite as Nitrogen (SM4500NH3); H2SO4																	
						Ammonia as Nitrogen (SM4500NH3); H2SO4																	
						Nitrate as N (EPA 300.0)																	

Relinquished by (Signature and Printed Name): [Signature]	Date/Time: 10/10/24 1608	Relinquished by (Signature and Printed Name): [Signature]	Date/Time: 10/10/24 1608
Relinquished by (Signature and Printed Name): [Signature]	Date/Time: 10/10/24 1800	Relinquished by (Signature and Printed Name): [Signature]	Date/Time: 10/10/24 1800

<p>Turn Around Time (TAT)</p> <p> <input type="checkbox"/> A < 24 Hrs or Same Day TAT <input type="checkbox"/> B = Next Workday <input type="checkbox"/> C = 2 Workdays <input type="checkbox"/> D = 3 Workdays <input checked="" type="checkbox"/> E = Routine 5-7 Workdays </p>	<p>Special Instruction:</p>
--	-----------------------------

<p>Preservatives:</p> <p> H=HCL N=HNO3 S=H2SO4 C=4°C Z=Zn(AC)2 O=NaOH T=Na2S2O3 </p>	<p>Container Type:</p> <p> T=Tube V=VOA P=Pin J=Jar B=Tedlar G=Glass M=Metal M=Metal C=Can </p>
--	---

White=Laboratory Copy

Yellow=Customer's Copy

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On: 10/10/2024 Workorder: N069147
 Rep sample Temp (Deg C): 3.4/4.5 IR Gun ID: 4
 Temp Blank: Yes No
 Carrier name: ASSET
 Last 4 digits of Tracking No.: NA Packing Material Used: None
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

- | | | | |
|---|--|--|--|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 14. Water - pH acceptable upon receipt?
Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 15. Did the bottle labels indicate correct preservatives used? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 16. Were there Non-Conformance issues at login?
Was Client notified? | Yes <input type="checkbox"/>
Yes <input type="checkbox"/> | No <input type="checkbox"/>
No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>
NA <input checked="" type="checkbox"/> |

Comments:

Checklist Completed By: EF *E Fanegof* 10/11/2024

Reviewed By: for: *J. Mayhew*
MBC10/13/2024

ASSET Laboratories

WORK ORDER Summary

11-Oct-24

WorkOrder: N069147

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30211191

QC Level: Level IV

Date Received: 10/10/2024 6:00 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N069147-001A	MW-79-058-1024	10/10/2024 10:16:00 AM	10/25/2024	Groundwater	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069147-001B			10/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069147-001C			10/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069147-002A	MW-79-102-1024	10/10/2024 9:48:00 AM	10/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069147-002B			10/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069147-002C			10/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069147-003A	MW-80-057-1024	10/10/2024 12:39:00 PM	10/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069147-003B			10/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069147-003C			10/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069147-004A	MW-80-082-1024	10/10/2024 12:16:00 PM	10/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

11-Oct-24

WorkOrder: N069147

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30211191

QC Level: Level IV

Date Received: 10/10/2024 6:00 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N069147-004B	MW-80-082-1024	10/10/2024 12:16:00 PM	10/25/2024	Groundwater	EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069147-004C			10/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069147-005A	MW-26-1024	10/10/2024 10:50:00 AM	10/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069147-005B			10/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069147-005C			10/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069147-006A	MW-51-1024	10/10/2024 11:35:00 AM	10/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069147-006B			10/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069147-006C			10/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			10/25/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069147-007A	EB-708-Q424	10/10/2024 1:30:00 PM	10/25/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069147-008A	FOLDER	10/25/2024	10/25/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

ASSET Laboratories

WORK ORDER Summary

11-Oct-24

WorkOrder: N069147

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30211191

QC Level: Level IV

Date Received: 10/10/2024 6:00 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N069147-008A	FOLDER	10/25/2024	10/25/2024		Folder	Level IV Report	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			10/25/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

List of Analysts

ASSET Laboratories Work Order: N069147

NAME	TEST METHOD
Ria Abes	EPA 218.6, EPA 300.0
Diane Jetajobe	EPA 6010B_Dissolved, EPA 6020_Dissolved



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EPA 218.6



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IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
REV 2.0
011416

QC Batch Number: R194221
ASSET #: N069147

Instrument ID: NV00922-IC7
Analyst: RBA
Date Analyzed: 10/12/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria? (r = 0.995, r =0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)	X			X		
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X				X	
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?	X			X		
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?	X			X		
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)	X			X		
14. For Hinkley DOM samples, matrix spike protocol performed on all samples ? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed ?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)	X			X		
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments: **Dilution was necessary for samples N069147--003, -004, and -005A due to matrix interference.**

Detection of Cr6+ in CCB4 is >0.02ppb criteria. However, samples affected are non-detect.

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA
2nd Level Reviewer d/Rocha 10/24/2024

Date: _____
Date: _____



IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
REV 2.0
011416

QC Batch Number: R194254
ASSET #: N069147

Instrument ID: NV00922-IC7
Analyst: RBA
Date Analyzed: 10/13/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria? (r = 0.995, r = 0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)	X			X		
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?	X			X		
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?	X			X		
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)	X			X		
14. For Hinkley DOM samples, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)	X			X		
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments: **Dilution was necessary for samples N069147-002 due to matrix interference.**

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA

Date: _____

2nd Level Reviewer M. Rocha 10/22/2024

Date: _____

SAMPLE CALCULATION



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL TECHNOLOGIES

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Sample Calculation

METHOD: EPA 218.6
TEST NAME: HEXAVALENT CHROMIUM BY IC
MATRIX: Groundwater

FORMULA:

Calculate the Hexavalent Chromium concentration, in $\mu\text{g/L}$, in the original sample as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = A * \text{DF}$$

where:

A = $\mu\text{g/L}$, IC Cr+6 calculated concentration
DF = dilution factor

For Sample **N069147-001A** , the concentration in $\mu\text{g/L}$ is calculated as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = 2.5848 * 1$$

$$\text{Cr}^{+6}, \mu\text{g/L} = 2.5848$$

Reporting results in two significant figures,

$$\text{Cr}^{+6}, \mu\text{g/L} = 2.6$$

Reviewed by:

d/Recha 11/6/2024

ANALYSIS RUN LOG



ASSET LABORATORIES
INTEGRATION • INNOVATION • IMPROVEMENT

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INJECTION LOG: 241001A**Instrument ID: NV00922-IC7**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/01/24 10:06 AM	Not Reported
2	BLANK	BLANK	1	Hexavalent Chromium	10/01/24 10:20 AM	Not Reported
3	iBLANK	iBLANK	1	Hexavalent Chromium	10/01/24 10:29 AM	Reported
4	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:39 AM	Reported
5	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:48 AM	Reported
6	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:58 AM	Reported
7	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:07 AM	Reported
8	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:17 AM	Reported
9	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:26 AM	Reported
10	ICV	ICV	1	Hexavalent Chromium	10/01/24 11:38 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/01/24 11:48 AM	Reported
12	ICB	ICB	1	Hexavalent Chromium	10/01/24 11:57 AM	Reported

Injection Log Summary

Sequence Details

<i>Name:</i>	IC-07_241001A	<i>Created On:</i>	24/Jul/12 17:17:21
<i>Directory:</i>	Instrument Data\IC-7\2023\IC7	<i>Created By:</i>	ics 5000
<i>Data Vault:</i>	ChromeleonLocal4	<i>Updated On:</i>	01/Oct/24 12:28:25
<i>No. of Injections:</i>	15	<i>Updated By:</i>	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/01/2024 10:06	Finished	BLANK
2	BLANK	2	1000	Unknown		10/01/2024 10:20	Finished	BLANK
3	iBLANK	3	1000	Unknown		10/01/2024 10:29	Finished	INSTRUMENT BLANK
4	STD1-0.2 ppb	4	1000	Calibration Standard	01	10/01/2024 10:39	Finished	0.2 ppb, IWST-240729A, 2uL>
5	STD2-1.0 ppb	5	1000	Calibration Standard	02	10/01/2024 10:48	Finished	1.0 ppb, IWST-240729A, 10uL>
6	STD3-5.0 ppb	6	1000	Calibration Standard	03	10/01/2024 10:58	Finished	5.0 ppb, IWST-240729A, 50uL>
7	STD4-10.0 ppb	7	1000	Calibration Standard	04	10/01/2024 11:07	Finished	10 ppb, IWST-240729A, 100uL>
8	STD5-15.0 ppb	8	1000	Calibration Standard	05	10/01/2024 11:17	Finished	15 ppb, IWST-240729A, 150uL>
9	STD6-20.0 ppb	9	1000	Calibration Standard	06	10/01/2024 11:26	Finished	20 ppb, IWST-240729A, 200uL>
10	ICV,ICV,1,	10	1000	Unknown		10/01/2024 11:38	Finished	ICV @5ppb, IWST-240729B
11	PQL@0.2ppb,CCV2,	11	1000	Unknown		10/01/2024 11:48	Finished	PQL @ 0.2ppb
12	ICB,ICB,1	12	1000	Unknown		10/01/2024 11:57	Finished	ICB R240708C
13	SHUTDOWN	22	1000	Unknown		n.a.	Finished	
14	Eluent: R240930A	23	1000	Unknown		n.a.	Finished	
15	PCR: R240930B	24	1000	Unknown		n.a.	Finished	

INJECTION LOG: 241012A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/01/24 10:06 AM	Not Reported
2	BLANK	BLANK	1	Hexavalent Chromium	10/01/24 10:20 AM	Not Reported
3	iBLANK	iBLANK	1	Hexavalent Chromium	10/01/24 10:29 AM	Reported
4	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:39 AM	Reported
5	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:48 AM	Reported
6	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:58 AM	Reported
7	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:07 AM	Reported
8	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:17 AM	Reported
9	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:26 AM	Reported
10	BLANK	BLANK	1	Hexavalent Chromium	10/12/24 6:29 AM	Not Reported
11	CCV-1	CCV	1	Hexavalent Chromium	10/12/24 6:42 AM	Reported
12	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/12/24 6:52 AM	Reported
13	CCB-1	CCB	1	Hexavalent Chromium	10/12/24 7:01 AM	Reported
14	MB-H2O	MBLK	1	Hexavalent Chromium	10/12/24 7:11 AM	Not Reported
15	LCS-R194221	LCS	1	Hexavalent Chromium	10/12/24 7:20 AM	Reported
16	MB-R194221	MBLK	1	Hexavalent Chromium	10/12/24 7:37 AM	Reported
17	N069148-001A	SAMP	20	Hexavalent Chromium	10/12/24 7:48 AM	Reported
18	N069148-001AMS	MS	20	Hexavalent Chromium	10/12/24 7:58 AM	Reported
19	N069148-001AMSD	MSD	20	Hexavalent Chromium	10/12/24 8:07 AM	Reported
20	N069103-003A	SAMP	5	Hexavalent Chromium	10/12/24 8:16 AM	Reported
21	N069103-003ADUP	DUP	5	Hexavalent Chromium	10/12/24 8:37 AM	Reported
22	N069146-007A	SAMP	5	Hexavalent Chromium	10/12/24 8:49 AM	Reported
23	N069146-007AMS	MS	5	Hexavalent Chromium	10/12/24 8:58 AM	Reported
24	N069148-002A	SAMP	1	Hexavalent Chromium	10/12/24 9:08 AM	Reported
25	CCV-2	CCV1	1	Hexavalent Chromium	10/12/24 10:50 AM	Reported
26	CCB-2	CCB	1	Hexavalent Chromium	10/12/24 11:01 AM	Reported
27	N069147-001A	SAMP	1	Hexavalent Chromium	10/12/24 11:10 AM	Reported
28	N069147-001AMS	MS	1	Hexavalent Chromium	10/12/24 11:20 AM	Reported
29	N069147-002A	SAMP	1	Hexavalent Chromium	10/12/24 11:29 AM	Not Reported
30	N069147-002AMS	MS	1	Hexavalent Chromium	10/12/24 11:39 AM	Not Reported
31	N069147-006A	SAMP	1	Hexavalent Chromium	10/12/24 11:48 AM	Reported
32	N069147-006AMS	MS	1	Hexavalent Chromium	10/12/24 11:58 AM	Reported
33	N069147-007A	SAMP	1	Hexavalent Chromium	10/12/24 12:07 PM	Reported
34	N069147-007AMS	MS	1	Hexavalent Chromium	10/12/24 12:17 PM	Reported
35	N069147-003A	SAMP	1	Hexavalent Chromium	10/12/24 12:26 PM	Not Reported
36	N069147-003AMS	MS	1	Hexavalent Chromium	10/12/24 12:36 PM	Not Reported
37	CCV-3	CCV	1	Hexavalent Chromium	10/12/24 12:45 PM	Reported
38	CCB-3	CCB	1	Hexavalent Chromium	10/12/24 12:54 PM	Reported
39	N069147-004A	SAMP	1	Hexavalent Chromium	10/12/24 1:04 PM	Not Reported
40	N069147-004AMS	MS	1	Hexavalent Chromium	10/12/24 1:13 PM	Not Reported
41	N069147-005A	SAMP	1	Hexavalent Chromium	10/12/24 1:23 PM	Not Reported
42	N069147-005AMS	MS	1	Hexavalent Chromium	10/12/24 1:32 PM	Not Reported

INJECTION LOG: 241012A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069147-003A	SAMP	5	Hexavalent Chromium	10/12/24 1:42 PM	Reported
44	N069147-003AMS	MS	5	Hexavalent Chromium	10/12/24 1:51 PM	Reported
45	N069147-004A	SAMP	5	Hexavalent Chromium	10/12/24 2:01 PM	Reported
46	N069147-004AMS	MS	5	Hexavalent Chromium	10/12/24 2:10 PM	Reported
47	N069147-005A	SAMP	5	Hexavalent Chromium	10/12/24 2:20 PM	Reported
48	N069147-005AMS	MS	5	Hexavalent Chromium	10/12/24 2:29 PM	Reported
49	CCV-4	CCV1	1	Hexavalent Chromium	10/12/24 2:39 PM	Reported
50	CCB-4	CCB	1	Hexavalent Chromium	10/12/24 2:48 PM	Reported
51	N069148-003A	SAMP	5	Hexavalent Chromium	10/12/24 2:57 PM	Not Reported
52	N069148-004A	SAMP	1	Hexavalent Chromium	10/12/24 3:07 PM	Reported
53	N069148-005A	SAMP	1	Hexavalent Chromium	10/12/24 3:16 PM	Reported
54	N069148-006A	SAMP	5	Hexavalent Chromium	10/12/24 3:26 PM	Reported
55	N069148-007A	SAMP	10	Hexavalent Chromium	10/12/24 3:35 PM	Reported
56	N069148-008A	SAMP	5	Hexavalent Chromium	10/12/24 3:45 PM	Reported
57	N069146-003A	SAMP	5	Hexavalent Chromium	10/12/24 3:54 PM	Reported
58	N069146-003AMS	MS	5	Hexavalent Chromium	10/12/24 4:04 PM	Reported
59	N069146-011A	SAMP	5	Hexavalent Chromium	10/12/24 4:13 PM	Reported
60	N069146-011AMS	MS	5	Hexavalent Chromium	10/12/24 4:23 PM	Reported
61	CCV-5	CCV	1	Hexavalent Chromium	10/12/24 4:32 PM	Reported
62	CCB-5	CCB	1	Hexavalent Chromium	10/12/24 4:41 PM	Reported
63	N069146-012A	SAMP	5	Hexavalent Chromium	10/12/24 4:51 PM	Reported
64	N069146-012AMS	MS	5	Hexavalent Chromium	10/12/24 5:00 PM	Reported
65	CCV-6	CCV1	1	Hexavalent Chromium	10/12/24 5:10 PM	Reported
66	CCB-6	CCB	1	Hexavalent Chromium	10/12/24 5:19 PM	Reported
67	BLANK	BLANK	1	Hexavalent Chromium	10/12/24 5:29 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241012A	Created On:	24Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	12/Oct/24 17:59:32
No. of Injections:	70	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/01/2024 10:06	Finished	BLANK
2	BLANK	2	1000	Unknown		10/01/2024 10:20	Finished	BLANK
3	iBLANK	3	1000	Unknown		10/01/2024 10:29	Finished	INSTRUMENT BLANK
4	STD1-0.2 ppb	4	1000	Calibration Standard	01	10/01/2024 10:39	Finished	0.2 ppb, IWST-240729A, 2uL>
5	STD2-1.0 ppb	5	1000	Calibration Standard	02	10/01/2024 10:48	Finished	1.0 ppb, IWST-240729A, 10uL>
6	STD3-5.0 ppb	6	1000	Calibration Standard	03	10/01/2024 10:58	Finished	5.0 ppb, IWST-240729A, 50uL>
7	STD4-10.0 ppb	7	1000	Calibration Standard	04	10/01/2024 11:07	Finished	10 ppb, IWST-240729A, 100uL>
8	STD5-15.0 ppb	8	1000	Calibration Standard	05	10/01/2024 11:17	Finished	15 ppb, IWST-240729A, 150uL>
9	STD6-20.0 ppb	9	1000	Calibration Standard	06	10/01/2024 11:26	Finished	20 ppb, IWST-240729A, 200uL>
10	BLANK	1	1000	Unknown		10/12/2024 06:29	Finished	BLANK
11	CCV-1.CCV,1,	2	1000	Unknown		10/12/2024 06:42	Finished	CCV @5ppb, IWST-240729A
12	PQL@0.2ppb.CCV2,	3	1000	Unknown		10/12/2024 06:52	Finished	PQL @ 0.2ppb
13	CCB-1.CCB,1,	4	1000	Unknown		10/12/2024 07:01	Finished	CCB R240923C
14	MB-H2O.MBLK,1,	5	1000	Unknown		10/12/2024 07:11	Finished	MB R240923C
15	LCS-H2O.LCS,1,	6	1000	Unknown		10/12/2024 07:20	Finished	LCS @5ppb, IWST-240729B
16	MB-H2O.MBLK,1,	1	1000	Unknown		10/12/2024 07:37	Finished	MB R240923C
17	N069148-001A,SAMF	2	1000	Unknown		10/12/2024 07:48	Finished	SAMP.0.5>10 mL
18	N069148-001AMS,MS	3	1000	Unknown		10/12/2024 07:58	Finished	MS (5ppb), IWST-240729B,0.5
19	N069148-001AMSD,MS	4	1000	Unknown		10/12/2024 08:07	Finished	MSD (5ppb), IWST-240729B,0
20	N069103-003A,SAMF	5	1000	Unknown		10/12/2024 08:16	Finished	SAMP,2>10 mL
21	N069103-003ADUP,MS	1	1000	Unknown		10/12/2024 08:37	Finished	DUP,2>10 mL
22	N069146-007A,SAMF	2	1000	Unknown		10/12/2024 08:49	Finished	SAMP,2>10 mL
23	N069146-007AMS,MS	3	1000	Unknown		10/12/2024 08:58	Finished	MS (1ppb), IWST-240729B,2>
24	N069148-002A,SAMF	4	1000	Unknown		10/12/2024 09:08	Finished	SAMP,10 mL
25	CCV-2.CCV1,1,	1	1000	Unknown		10/12/2024 10:50	Finished	CCV @10ppb, IWST-240729A
26	CCB-2.CCB,1,	2	1000	Unknown		10/12/2024 11:01	Finished	CCB R240923C
27	N069147-001A,SAMF	3	1000	Unknown		10/12/2024 11:10	Finished	SAMP,10 mL
28	N069147-001AMS,MS	4	1000	Unknown		10/12/2024 11:20	Finished	MS (1ppb), IWST-240729B,10r
29	N069147-002A,SAMF	5	1000	Unknown		10/12/2024 11:29	Finished	SAMP,10 mL
30	N069147-002AMS,MS	6	1000	Unknown		10/12/2024 11:39	Finished	MS (1ppb), IWST-240729B,10r
31	N069147-006A,SAMF	7	1000	Unknown		10/12/2024 11:48	Finished	SAMP,10 mL
32	N069147-006AMS,MS	8	1000	Unknown		10/12/2024 11:58	Finished	MS (1ppb), IWST-240729B,10r
33	N069147-007A,SAMF	9	1000	Unknown		10/12/2024 12:07	Finished	SAMP,10 mL
34	N069147-007AMS,MS	10	1000	Unknown		10/12/2024 12:17	Finished	DUP,10 mL
35	N069147-003A,SAMF	11	1000	Unknown		10/12/2024 12:26	Finished	SAMP,10 mL
36	N069147-003AMS,MS	12	1000	Unknown		10/12/2024 12:36	Finished	MS (1ppb), IWST-240729B,10r
37	CCV-3.CCV,1,	13	1000	Unknown		10/12/2024 12:45	Finished	CCV @5ppb, IWST-240729A
38	CCB-3.CCB,1,	14	1000	Unknown		10/12/2024 12:54	Finished	CCB R240923C
39	N069147-004A,SAMF	15	1000	Unknown		10/12/2024 13:04	Finished	SAMP,10 mL
40	N069147-004AMS,MS	16	1000	Unknown		10/12/2024 13:13	Finished	MS (1ppb), IWST-240729B,10r
41	N069147-005A,SAMF	17	1000	Unknown		10/12/2024 13:23	Finished	SAMP,10 mL
42	N069147-005AMS,MS	18	1000	Unknown		10/12/2024 13:32	Finished	MS (1ppb), IWST-240729B,10r
43	N069147-003A,SAMF	19	1000	Unknown		10/12/2024 13:42	Finished	SAMP,2>10 mL
44	N069147-003AMS,MS	20	1000	Unknown		10/12/2024 13:51	Finished	MS (1ppb), IWST-240729B,2>
45	N069147-004A,SAMF	21	1000	Unknown		10/12/2024 14:01	Finished	SAMP,2>10 mL
46	N069147-004AMS,MS	22	1000	Unknown		10/12/2024 14:10	Finished	MS (1ppb), IWST-240729B,2>
47	N069147-005A,SAMF	23	1000	Unknown		10/12/2024 14:20	Finished	SAMP,2>10 mL
48	N069147-005AMS,MS	24	1000	Unknown		10/12/2024 14:29	Finished	MS (1ppb), IWST-240729B,2>
49	CCV-4.CCV1,1,	25	1000	Unknown		10/12/2024 14:39	Finished	CCV @10ppb, IWST-240729A
50	CCB-4.CCB,1,	26	1000	Unknown		10/12/2024 14:48	Finished	CCB R240923C
51	N069148-003A,SAMF	27	1000	Unknown		10/12/2024 14:57	Finished	SAMP,2>10 mL
52	N069148-004A,SAMF	28	1000	Unknown		10/12/2024 15:07	Finished	SAMP,10 mL
53	N069148-005A,SAMF	29	1000	Unknown		10/12/2024 15:16	Finished	SAMP,10 mL
54	N069148-006A,SAMF	30	1000	Unknown		10/12/2024 15:26	Finished	SAMP,2>10 mL
55	N069148-007A,SAMF	31	1000	Unknown		10/12/2024 15:35	Finished	SAMP,1>10 mL
56	N069148-008A,SAMF	32	1000	Unknown		10/12/2024 15:45	Finished	SAMP,2>10 mL
57	N069146-003A,SAMF	33	1000	Unknown		10/12/2024 15:54	Finished	SAMP,2>10 mL
58	N069146-003AMS,MS	34	1000	Unknown		10/12/2024 16:04	Finished	MS (1ppb), IWST-240729B,2>
59	N069146-011A,SAMF	35	1000	Unknown		10/12/2024 16:13	Finished	SAMP,2>10 mL
60	N069146-011AMS,MS	36	1000	Unknown		10/12/2024 16:23	Finished	MS (1ppb), IWST-240729B,2>

61	CCV-5.CCV,1,	37	1000	Unknown		10/12/2024 16:32	Finished	CCV @5ppb, IWST-240729A
62	CCB-5.CCB,1,	38	1000	Unknown		10/12/2024 16:41	Finished	CCB R240923C
63	N069146-012A,SAMP	39	1000	Unknown		10/12/2024 16:51	Finished	SAMP,2>10 mL
64	N069146-012AMS,MS	40	1000	Unknown		10/12/2024 17:00	Finished	MS (1ppb), IWST-240729B,2>10 mL
65	CCV-6.CCV1,1,	41	1000	Unknown		10/12/2024 17:10	Finished	CCV @10ppb, IWST-240729A
66	CCB-6.CCB,1,	42	1000	Unknown		10/12/2024 17:19	Finished	CCB R240923C
67	BLANK	43	1000	Unknown		10/12/2024 17:29	Finished	BLANK
68	SHUTDOWN	44	1000	Unknown		10/12/2024 17:38	Finished	
69	Eluent: R241012A	45	1000	Unknown		n.a.	Finished	
70	PCR: R241012B	46	1000	Unknown		n.a.	Finished	




INJECTION LOG: 241013A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/01/24 10:06 AM	Not Reported
2	BLANK	BLANK	1	Hexavalent Chromium	10/01/24 10:20 AM	Not Reported
3	iBLANK	iBLANK	1	Hexavalent Chromium	10/01/24 10:29 AM	Reported
4	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:39 AM	Reported
5	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:48 AM	Reported
6	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:58 AM	Reported
7	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:07 AM	Reported
8	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:17 AM	Reported
9	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:26 AM	Reported
10	BLANK	BLANK	1	Hexavalent Chromium	10/13/24 11:43 AM	Not Reported
11	CCV-1	CCV	1	Hexavalent Chromium	10/13/24 11:56 AM	Reported
12	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/13/24 12:05 PM	Reported
13	CCB-1	CCB	1	Hexavalent Chromium	10/13/24 12:15 PM	Reported
14	MB-R194254	MBLK	1	Hexavalent Chromium	10/13/24 12:24 PM	Reported
15	LCS-R194254	LCS	1	Hexavalent Chromium	10/13/24 12:34 PM	Reported
16	N069147-002A	SAMP	5	Hexavalent Chromium	10/13/24 12:48 PM	Reported
17	N069147-002AMS	MS	5	Hexavalent Chromium	10/13/24 1:00 PM	Reported
18	N069147-002AMSD	MSD	5	Hexavalent Chromium	10/13/24 1:09 PM	Reported
19	N069149-001A	SAMP	1	Hexavalent Chromium	10/13/24 1:19 PM	Reported
20	N069149-001ADUP	DUP	1	Hexavalent Chromium	10/13/24 1:28 PM	Reported
21	N069069-008A	SAMP	1	Hexavalent Chromium	10/13/24 1:38 PM	Reported
22	N069105-008A	SAMP	5	Hexavalent Chromium	10/13/24 1:47 PM	Reported
23	N069105-008AMS	MS	5	Hexavalent Chromium	10/13/24 1:57 PM	Reported
24	CCV-2	CCV1	1	Hexavalent Chromium	10/13/24 2:06 PM	Reported
25	CCB-2	CCB	1	Hexavalent Chromium	10/13/24 2:15 PM	Reported
26	N069148-009A	SAMP	5	Hexavalent Chromium	10/13/24 2:25 PM	Reported
27	N069148-010A	SAMP	5	Hexavalent Chromium	10/13/24 2:34 PM	Reported
28	N069148-011A	SAMP	20	Hexavalent Chromium	10/13/24 2:44 PM	Reported
29	N069148-012A	SAMP	20	Hexavalent Chromium	10/13/24 2:53 PM	Reported
30	N069148-013A	SAMP	5	Hexavalent Chromium	10/13/24 3:03 PM	Not Reported
31	N069148-014A	SAMP	1	Hexavalent Chromium	10/13/24 3:12 PM	Not Reported
32	N069148-015A	SAMP	1	Hexavalent Chromium	10/13/24 3:22 PM	Reported
33	N069148-016A	SAMP	1	Hexavalent Chromium	10/13/24 3:31 PM	Reported
34	N069149-002A	SAMP	1	Hexavalent Chromium	10/13/24 3:41 PM	Reported
35	N069149-003A	SAMP	1	Hexavalent Chromium	10/13/24 3:50 PM	Reported
36	CCV-3	CCV	1	Hexavalent Chromium	10/13/24 3:59 PM	Reported
37	CCB-3	CCB	1	Hexavalent Chromium	10/13/24 4:09 PM	Reported
38	N069149-004A	SAMP	1	Hexavalent Chromium	10/13/24 4:18 PM	Reported
39	N069149-005A	SAMP	1	Hexavalent Chromium	10/13/24 4:28 PM	Reported
40	N069149-006A	SAMP	1	Hexavalent Chromium	10/13/24 4:37 PM	Reported
41	N069149-007A	SAMP	5	Hexavalent Chromium	10/13/24 4:47 PM	Reported
42	N069149-008A	SAMP	5	Hexavalent Chromium	10/13/24 4:56 PM	Reported

For RBA

 10/31/2024

INJECTION LOG: 241013A**Instrument ID: NV00922-IC7**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	MB-2	MBLK	1	Hexavalent Chromium	10/13/24 5:06 PM	Not Reported
44	LCS-2	LCS	1	Hexavalent Chromium	10/13/24 5:15 PM	Not Reported
45	N068851-008A	SAMP	5	Hexavalent Chromium	10/13/24 5:25 PM	Not Reported
46	N068851-008AMS	MS	5	Hexavalent Chromium	10/13/24 5:34 PM	Not Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	10/13/24 5:43 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	10/13/24 5:53 PM	Reported
49	N068851-011A	SAMP	1	Hexavalent Chromium	10/13/24 6:02 PM	Not Reported
50	N068851-011AMS	MS	1	Hexavalent Chromium	10/13/24 6:12 PM	Not Reported
51	N068902-005A	SAMP	1	Hexavalent Chromium	10/13/24 6:21 PM	Not Reported
52	N068902-005AMS	MS	1	Hexavalent Chromium	10/13/24 6:31 PM	Not Reported
53	N068903-002A	SAMP	1	Hexavalent Chromium	10/13/24 6:40 PM	Not Reported
54	N068903-002AMS	MS	1	Hexavalent Chromium	10/13/24 6:50 PM	Not Reported
55	N068903-003A	SAMP	1	Hexavalent Chromium	10/13/24 6:59 PM	Not Reported
56	N068903-003AMS	MS	1	Hexavalent Chromium	10/13/24 7:09 PM	Not Reported
57	N068943-015A	SAMP	1	Hexavalent Chromium	10/13/24 7:18 PM	Not Reported
58	N068943-015AMS	MS	1	Hexavalent Chromium	10/13/24 7:28 PM	Not Reported
59	N068964-003A	SAMP	1	Hexavalent Chromium	10/13/24 7:37 PM	Not Reported
60	N068964-003AMS	MS	1	Hexavalent Chromium	10/13/24 7:46 PM	Not Reported
61	CCV-5	CCV	1	Hexavalent Chromium	10/13/24 7:56 PM	Not Reported
62	CCB-5	CCB	1	Hexavalent Chromium	10/13/24 8:05 PM	Not Reported
63	BLANK	BLANK	1	Hexavalent Chromium	10/13/24 8:15 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241013A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	13/Oct/24 20:45:38
No. of Injections:	66	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/01/2024 10:06	Finished	BLANK
2	BLANK	2	1000	Unknown		10/01/2024 10:20	Finished	BLANK
3	BLANK	3	1000	Unknown		10/01/2024 10:29	Finished	INSTRUMENT BLANK
4	STD1-0.2 ppb	4	1000	Calibration Standard	01	10/01/2024 10:39	Finished	0.2 ppb, IWST-240729A, 2uL>
5	STD2-1.0 ppb	5	1000	Calibration Standard	02	10/01/2024 10:48	Finished	1.0 ppb, IWST-240729A, 10uL>
6	STD3-5.0 ppb	6	1000	Calibration Standard	03	10/01/2024 10:58	Finished	5.0 ppb, IWST-240729A, 50uL>
7	STD4-10.0 ppb	7	1000	Calibration Standard	04	10/01/2024 11:07	Finished	10 ppb, IWST-240729A, 100uL>
8	STD5-15.0 ppb	8	1000	Calibration Standard	05	10/01/2024 11:17	Finished	15 ppb, IWST-240729A, 150uL>
9	STD6-20.0 ppb	9	1000	Calibration Standard	06	10/01/2024 11:26	Finished	20 ppb, IWST-240729A, 200uL>
10	BLANK	1	1000	Unknown		10/13/2024 11:43	Finished	BLANK
11	CCV-1,CCV,1,	2	1000	Unknown		10/13/2024 11:56	Finished	CCV @5ppb, IWST-240729A
12	PQL @0.2ppb,CCV2,	3	1000	Unknown		10/13/2024 12:05	Finished	PQL @ 0.2ppb
13	CCB-1,CCB,1,	4	1000	Unknown		10/13/2024 12:15	Finished	CCB R240923C
14	MB-H2O,MBLK,1,	5	1000	Unknown		10/13/2024 12:24	Finished	MB R240923C
15	LCS-H2O,LCS,1,	6	1000	Unknown		10/13/2024 12:34	Finished	LCS @5ppb, IWST-240729B
16	N069147-002A,SAMP	1	1000	Unknown		10/13/2024 12:48	Finished	SAMP,2>10 mL
17	N069147-002AMS,MS	2	1000	Unknown		10/13/2024 13:00	Finished	MS (1ppb), IWST-240729B,2>
18	N069147-002AMSD,MS	3	1000	Unknown		10/13/2024 13:09	Finished	MSD (1ppb), IWST-240729B,2>
19	N069149-001A,SAMP	4	1000	Unknown		10/13/2024 13:19	Finished	SAMP,10 mL
20	N069149-001ADUP,MS	5	1000	Unknown		10/13/2024 13:28	Finished	DUP,10 mL
21	N069069-008A,SAMP	6	1000	Unknown		10/13/2024 13:38	Finished	SAMP,10 mL
22	N069105-008A,SAMP	7	1000	Unknown		10/13/2024 13:47	Finished	SAMP,2>10 mL
23	N069105-008AMS,MS	8	1000	Unknown		10/13/2024 13:57	Finished	MS (1ppb), IWST-240729B,2>
24	CCV-2,CCV1,1,	9	1000	Unknown		10/13/2024 14:06	Finished	CCV @10ppb, IWST-240729A
25	CCB-2,CCB,1,	10	1000	Unknown		10/13/2024 14:15	Finished	CCB R240923C
26	N069148-009A,SAMP	11	1000	Unknown		10/13/2024 14:25	Finished	SAMP,2>10 mL
27	N069148-010A,SAMP	12	1000	Unknown		10/13/2024 14:34	Finished	SAMP,2>10 mL
28	N069148-011A,SAMP	13	1000	Unknown		10/13/2024 14:44	Finished	SAMP,0.5>10 mL
29	N069148-012A,SAMP	14	1000	Unknown		10/13/2024 14:53	Finished	SAMP,0.5>10 mL
30	N069148-013A,SAMP	15	1000	Unknown		10/13/2024 15:03	Finished	SAMP,2>10 mL
31	N069148-014A,SAMP	16	1000	Unknown		10/13/2024 15:12	Finished	SAMP,10 mL
32	N069148-015A,SAMP	17	1000	Unknown		10/13/2024 15:22	Finished	SAMP,10 mL
33	N069148-016A,SAMP	18	1000	Unknown		10/13/2024 15:31	Finished	SAMP,10 mL
34	N069149-002A,SAMP	19	1000	Unknown		10/13/2024 15:41	Finished	SAMP,10 mL
35	N069149-003A,SAMP	20	1000	Unknown		10/13/2024 15:50	Finished	MS (1ppb), IWST-240729B,10r
36	CCV-3,CCV,1,	21	1000	Unknown		10/13/2024 15:59	Finished	CCV @5ppb, IWST-240729A
37	CCB-3,CCB,1,	22	1000	Unknown		10/13/2024 16:09	Finished	CCB R240923C
38	N069149-004A,SAMP	23	1000	Unknown		10/13/2024 16:18	Finished	SAMP,10 mL
39	N069149-005A,SAMP	24	1000	Unknown		10/13/2024 16:28	Finished	SAMP,10 mL
40	N069149-006A,SAMP	25	1000	Unknown		10/13/2024 16:37	Finished	SAMP,10 mL
41	N069149-007A,SAMP	26	1000	Unknown		10/13/2024 16:47	Finished	SAMP,2>10 mL
42	N069149-008A,SAMP	27	1000	Unknown		10/13/2024 16:56	Finished	SAMP,2>10 mL
43	MB-2,MBLK,1,	28	1000	Unknown		10/13/2024 17:06	Finished	MB R240923C
44	LCS-2,LCS,1,	29	1000	Unknown		10/13/2024 17:15	Finished	LCS @5ppb, IWST-240729B
45	N068851-008A,SAMP	30	1000	Unknown		10/13/2024 17:25	Finished	SAMP,2>10 mL
46	N068851-008AMS,MS	31	1000	Unknown		10/13/2024 17:34	Finished	MS (1ppb), IWST-240729B,2>
47	CCV-4,CCV1,1,	32	1000	Unknown		10/13/2024 17:43	Finished	CCV @10ppb, IWST-240729A
48	CCB-4,CCB,1,	33	1000	Unknown		10/13/2024 17:53	Finished	CCB R240923C
49	N068851-011A,SAMP	34	1000	Unknown		10/13/2024 18:02	Finished	SAMP,10 mL
50	N068851-011AMS,MS	35	1000	Unknown		10/13/2024 18:12	Finished	MS (1ppb), IWST-240729B,10r
51	N068902-005A,SAMP	36	1000	Unknown		10/13/2024 18:21	Finished	SAMP,10 mL
52	N068902-005AMS,MS	37	1000	Unknown		10/13/2024 18:31	Finished	MS (1ppb), IWST-240729B,10r
53	N068903-002A,SAMP	38	1000	Unknown		10/13/2024 18:40	Finished	SAMP,10 mL
54	N068903-002AMS,MS	39	1000	Unknown		10/13/2024 18:50	Finished	MS (1ppb), IWST-240729B,10r
55	N068903-003A,SAMP	40	1000	Unknown		10/13/2024 18:59	Finished	SAMP,10 mL
56	N068903-003AMS,MS	41	1000	Unknown		10/13/2024 19:09	Finished	MS (1ppb), IWST-240729B,10r
57	N068943-015A,SAMP	42	1000	Unknown		10/13/2024 19:18	Finished	SAMP,10 mL
58	N068943-015AMS,MS	43	1000	Unknown		10/13/2024 19:28	Finished	MS (1ppb), IWST-240729B,10r
59	N068964-003A,SAMP	44	1000	Unknown		10/13/2024 19:37	Finished	SAMP,10 mL
60	N068964-003AMS,MS	45	1000	Unknown		10/13/2024 19:46	Finished	MS (1ppb), IWST-240729B,10r

61	CCV-5,CCV,1,	46	1000	Unknown		10/13/2024 19:56	Finished	CCV @5ppb, IWST-240729A
62	CCB-5,CCB,1,	47	1000	Unknown		10/13/2024 20:05	Finished	CCB R240923C
63	BLANK	48	1000	Unknown		10/13/2024 20:15	Finished	BLANK
64	SHUTDOWN	49	1000	Unknown		10/13/2024 20:24	Finished	
65	Eluent: R241012A	50	1000	Unknown		n.a.	Finished	
66	PCR: R241012B	51	1000	Unknown		n.a.	Finished	



SAMPLE PREPARATION LOG



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

Hexavalent Chromium Preparation and Runlog

Sample Preparation

Date Prepared: 10/11/24 Reagent ID:
 Time Prepared: 0920H Sulfuric Acid: 16620
 Prepared By: RA Diphenylcarbazide: 16810 *Low NaOH*
 NH4OH + NH4SO4 eluent: N24102A *N241002A*
 NH4OH + NH4SO4 buffer: N240923C

Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1) NO6914 - 1A	8.41	9.44	200m	-200m	+6	
2) 2A	8.58	9.48			+6	
3) 3A	9.37	-				
4) 4A	9.68	-				
5) 5A	9.14	9.35			+3	
6) 6A	9.72	-				
7) 7A	9.77	-				
8) 8A	9.69	-				
9) 9A	9.31	-				
10) 10A	9.72	-				
11) 11A	9.74	-				
12) 12A	9.35	-				
13) 13A	9.48	-				
14) NO6914 - 1A	9.52	-				
15) 2A	9.77	-				
3A	9.74	-				

Sample Preparation

Date Prepared: 10/11/24 Reagent ID:
 Time Prepared: 0920H Sulfuric Acid: 16620
 Prepared By: RA Diphenylcarbazide: 16810 *Low NaOH*
 NH4OH + NH4SO4 eluent: N24102A *N241002A*
 NH4OH + NH4SO4 buffer: N240923C

Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1) NO69147 - 4A	9.38	-	200m	200m		
2) 5A	9.40	-				
3) 6A	9.43	-				
4) 7A	9.63	-				
5) NO69148 - 1A	9.52	-				
6) 2A	9.74	-				
7) 3A	8.95	9.53			+5	
8) 4A	9.73	-				
9) 5A	9.74	-				
10) 6A	9.47	-				
11) 7A	9.28	-				
12) 8A	8.86	9.49			+5	
13) 9A	9.44	-				
14) 10A	8.95	9.79			+3	
15) 11A	9.34	-				
12A	9.38	-				

Logbook No. 25

INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL TECHNOLOGIES

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"Serving Clients with Passion and Professionalism"

(EPA 218.6) - INITIAL CALIBRATION

Instrument ID: NV00922-IC7
Date Calibrated: 10/1/2024

Initial Calibration:

Hexavalent Chromium	STD1	STD2	STD3	STD4	STD5	STD6	
COMPOUND, in ug/L	0.2	1	5	10	15	20	R ²
Area,mAU*min	0.0546	0.2704	1.3745	2.7397	4.0756	5.4103	1.0000
Measured, in ug/L	0.201100	0.996000	5.063000	10.091900	15.012700	19.929000	
Relative Error (%RE)	0.5%		1.3%				

	Stock	Working
Standard Concentration:	1,000,000 PPB	1,000 PPB
Standard ID:	ISST-240705H	IWST-240729A

Calibration Acceptance Criteria: > 0.999 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
INTEGRATION • INNOVATION • IMPROVEMENT • INSIGHT

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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221						
Client ID: ICV	Batch ID: R194221	TestNo: EPA 218.6	Analysis Date: 10/1/2024	SeqNo: 6228208							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.802	0.20	5.000	0	96.0	90	110				

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221						
Client ID: ZZZZZZ	Batch ID: R194221	TestNo: EPA 218.6	Analysis Date: 10/1/2024	SeqNo: 6228209							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.194	0.20	0.2000	0	97.0	80	120				

Sample ID CCV-1	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221						
Client ID: CCV	Batch ID: R194221	TestNo: EPA 218.6	Analysis Date: 10/12/2024	SeqNo: 6228211							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.070	0.20	5.000	0	101	95	105				

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221						
Client ID: ZZZZZZ	Batch ID: R194221	TestNo: EPA 218.6	Analysis Date: 10/12/2024	SeqNo: 6228212							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.220	0.20	0.2000	0	110	80	120				

Sample ID CCV-2	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221						
Client ID: ZZZZZZ	Batch ID: R194221	TestNo: EPA 218.6	Analysis Date: 10/12/2024	SeqNo: 6228224							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	10.331	0.20	10.00	0	103	95	105				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCV-3	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221						
Client ID: CCV	Batch ID: R194221	TestNo: EPA 218.6	Analysis Date: 10/12/2024	SeqNo: 6228232							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.044	0.20	5.000	0	101	95	105				

Sample ID CCV-4	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221						
Client ID: ZZZZZ	Batch ID: R194221	TestNo: EPA 218.6	Analysis Date: 10/12/2024	SeqNo: 6228240							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	10.338	0.20	10.00	0	103	95	105				

Sample ID CCV-5	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221						
Client ID: CCV	Batch ID: R194221	TestNo: EPA 218.6	Analysis Date: 10/12/2024	SeqNo: 6228251							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.052	0.20	5.000	0	101	95	105				

Sample ID CCV-6	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221						
Client ID: ZZZZZ	Batch ID: R194221	TestNo: EPA 218.6	Analysis Date: 10/12/2024	SeqNo: 6228255							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	10.248	0.20	10.00	0	102	95	105				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194254
Client ID: ICV	Batch ID: R194254	TestNo: EPA 218.6	Analysis Date: 10/1/2024	SeqNo: 6230963	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	4.802	0.20	5.000	0	96.0 90 110

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194254
Client ID: ZZZZZ	Batch ID: R194254	TestNo: EPA 218.6	Analysis Date: 10/1/2024	SeqNo: 6230964	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	0.194	0.20	0.2000	0	97.0 80 120

Sample ID CCV-1	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194254
Client ID: CCV	Batch ID: R194254	TestNo: EPA 218.6	Analysis Date: 10/13/2024	SeqNo: 6230966	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	5.146	0.20	5.000	0	103 95 105

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194254
Client ID: ZZZZZ	Batch ID: R194254	TestNo: EPA 218.6	Analysis Date: 10/13/2024	SeqNo: 6230967	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	0.188	0.20	0.2000	0	93.8 80 120

Sample ID CCV-2	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194254
Client ID: ZZZZZ	Batch ID: R194254	TestNo: EPA 218.6	Analysis Date: 10/13/2024	SeqNo: 6230979	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	10.350	0.20	10.00	0	103 95 105

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCV-3	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194254						
Client ID: CCV	Batch ID: R194254	TestNo: EPA 218.6	Analysis Date: 10/13/2024	SeqNo: 6230990							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.076	0.20	5.000	0	102	95	105
---------------------	-------	------	-------	---	-----	----	-----

Sample ID CCV-4	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194254						
Client ID: ZZZZZ	Batch ID: R194254	TestNo: EPA 218.6	Analysis Date: 10/13/2024	SeqNo: 6230997							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	10.088	0.20	10.00	0	101	95	105
---------------------	--------	------	-------	---	-----	----	-----

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221						
Client ID: ICB	Batch ID: R194221	TestNo: EPA 218.6		Analysis Date: 10/1/2024	SeqNo: 6228210						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-1	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221						
Client ID: CCB	Batch ID: R194221	TestNo: EPA 218.6		Analysis Date: 10/12/2024	SeqNo: 6228213						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-2	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221						
Client ID: CCB	Batch ID: R194221	TestNo: EPA 218.6		Analysis Date: 10/12/2024	SeqNo: 6228225						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-3	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221						
Client ID: CCB	Batch ID: R194221	TestNo: EPA 218.6		Analysis Date: 10/12/2024	SeqNo: 6228233						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20


Sample ID CCB-4	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221						
Client ID: CCB	Batch ID: R194221	TestNo: EPA 218.6		Analysis Date: 10/12/2024	SeqNo: 6228241						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 0.200 0.20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

Detection of Cr6+ in CCB4 is >0.02ppb criteria. However, samples affected are non-detect.

 10/31/2024

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCB-5	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221						
Client ID: CCB	Batch ID: R194221	TestNo: EPA 218.6		Analysis Date: 10/12/2024	SeqNo: 6228252						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	ND	0.20
---------------------	----	------

Sample ID CCB-6	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194221						
Client ID: CCB	Batch ID: R194221	TestNo: EPA 218.6		Analysis Date: 10/12/2024	SeqNo: 6228256						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	ND	0.20
---------------------	----	------

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194254
Client ID: ICB	Batch ID: R194254	TestNo: EPA 218.6		Analysis Date: 10/1/2024	SeqNo: 6230965
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-1	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194254
Client ID: CCB	Batch ID: R194254	TestNo: EPA 218.6		Analysis Date: 10/13/2024	SeqNo: 6230968
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-2	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194254
Client ID: CCB	Batch ID: R194254	TestNo: EPA 218.6		Analysis Date: 10/13/2024	SeqNo: 6230980
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-3	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194254
Client ID: CCB	Batch ID: R194254	TestNo: EPA 218.6		Analysis Date: 10/13/2024	SeqNo: 6230991
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-4	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194254
Client ID: CCB	Batch ID: R194254	TestNo: EPA 218.6		Analysis Date: 10/13/2024	SeqNo: 6230998
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

RETENTION TIME SUMMARY



ASSET LABORATORIES
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RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/12/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.990	
CCV-1	5.848	
CCV-2	5.848	
CCV-3	5.848	
CCV-4	5.848	
CCV-5	5.848	
CCV-6	5.848	

Average 5.848
Actual RT Window 5.768 - 5.928
Applied RT Window 5.648 - 6.048

LCS-R194221	5.873	PASS
MB-R194221	N.A.	N.A.
N069148-001A	5.848	PASS
N069148-001AMS	5.848	PASS
N069148-001AMSD	5.848	PASS
N069103-003A	5.848	PASS
N069103-003ADUP	5.848	PASS
N069146-007A	N.A.	N.A.
N069146-007AMS	5.806	PASS
N069148-002A	N.A.	N.A.
N069147-001A	5.681	PASS
N069147-001AMS	5.681	PASS
N069147-002A	N.A.	N.A.
N069147-002AMS	5.673	PASS
N069147-006A	5.823	PASS
N069147-006AMS	5.823	PASS
N069147-007A	N.A.	N.A.
N069147-007AMS	5.848	PASS
N069147-003A	N.A.	N.A.
N069147-003AMS	5.681	PASS
N069147-004A	N.A.	N.A.
N069147-004AMS	5.673	PASS

Reviewed by:

MRecha 10/24/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/12/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.990	
CCV-1	5.848	
CCV-2	5.848	
CCV-3	5.848	
CCV-4	5.848	
CCV-5	5.848	
CCV-6	5.848	

Average 5.848
Actual RT Window 5.768 - 5.928
Applied RT Window 5.648 - 6.048

N069147-005A	N.A.	N.A.
N069147-005AMS	5.690	PASS
N069147-003A	N.A.	N.A.
N069147-003AMS	5.823	PASS
N069147-004A	N.A.	N.A.
N069147-004AMS	5.815	PASS
N069147-005A	N.A.	N.A.
N069147-005AMS	5.823	PASS
N069148-003A	5.831	PASS
N069148-004A	5.840	PASS
N069148-005A	5.831	PASS
N069148-006A	5.840	PASS
N069148-007A	5.848	PASS
N069148-008A	5.840	PASS
N069146-003A	5.840	PASS
N069146-003AMS	5.840	PASS
N069146-011A	N.A.	N.A.
N069146-011AMS	5.815	PASS
N069146-012A	N.A.	N.A.
N069146-012AMS	5.815	PASS

Reviewed by:

MRecha 10/24/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/13/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.990	
CCV-1	5.840	
CCV-2	5.840	
CCV-3	5.840	
CCV-4	5.840	

Average 5.840
Actual RT Window 5.760 - 5.920
Applied RT Window 5.640 - 6.040

MB-R194254	N.A.	N.A.
LCS-R194254	5.840	PASS
N069147-002A	N.A.	N.A.
N069147-002AMS	5.806	PASS
N069147-002AMSD	5.815	PASS
N069149-001A	N.A.	N.A.
N069149-001ADUP	N.A.	N.A.
N069069-008A	N.A.	N.A.
N069105-008A	N.A.	N.A.
N069105-008AMS	5.815	PASS
N069148-009A	5.831	PASS
N069148-010A	5.831	PASS
N069148-011A	5.840	PASS
N069148-012A	5.840	PASS
N069148-013A	5.831	PASS
N069148-014A	5.823	PASS
N069148-015A	N.A.	N.A.
N069148-016A	N.A.	N.A.
N069149-002A	N.A.	N.A.
N069149-003A	N.A.	N.A.
N069149-004A	N.A.	N.A.
N069149-005A	5.823	PASS
N069149-006A	N.A.	N.A.
N069149-007A	5.831	PASS

Reviewed by:

Alrocha 10/22/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/13/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.990	
CCV-1	5.840	
CCV-2	5.840	
CCV-3	5.840	
CCV-4	5.840	

Average 5.840
Actual RT Window 5.760 - 5.920
Applied RT Window 5.640 - 6.040

N069149-008A	5.831	PASS
MB-2	N.A.	N.A.
LCS-2	5.840	PASS
N068851-008A	5.831	PASS
N068851-008AMS	5.831	PASS
N068851-011A	N.A.	N.A.
N068851-011AMS	5.831	PASS
N068902-005A	5.781	PASS
N068902-005AMS	5.781	PASS
N068903-002A	5.756	PASS
N068903-002AMS	5.756	PASS
N068903-003A	5.773	PASS
N068903-003AMS	5.773	PASS
N068943-015A	5.798	PASS
N068943-015AMS	5.790	PASS
N068964-003A	5.831	PASS
N068964-003AMS	5.831	PASS

Reviewed by:

d/Rocha 10/22/2024

MDL STUDY



ASSET LABORATORIES
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METHOD DETECTION LIMIT (Spiked)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): 10/4/2022, 11/15/2022, 1/4/2023, 3/1/2023, 4/4/2023, 5/16/2023, 7/10/2023, 8/2/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: ug/L

Instrument Name: **IC-07**

Datafile 221004A D12 221115A D12 230104A D11 230301C D14 230404A D11 230516A D11 230710A D12 230802A D11

Analyte	#1	#2	#3	#4	#5	#6	#7	#8	Spike Conc., ug/L	SD	t _(n-1) value	MDLs	PQL
Hexavalent Chromium	0.199	0.194	0.169	0.190	0.167	0.194	0.201	0.185	0.20	0.0129	2.998	0.0387	0.20

METHOD DETECTION LIMIT (Blanks)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Instrument Name: **IC-07**

Analyte	MDLb	#of Records
Hexavalent Chromium	0.00	166

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

RAW DATA



ASSET LABORATORIES
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INITIAL CALIBRATION



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INJECTION LOG: 241001A**Instrument ID: NV00922-IC7**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/01/24 10:06 AM	Not Reported
2	BLANK	BLANK	1	Hexavalent Chromium	10/01/24 10:20 AM	Not Reported
3	iBLANK	iBLANK	1	Hexavalent Chromium	10/01/24 10:29 AM	Reported
4	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:39 AM	Reported
5	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:48 AM	Reported
6	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:58 AM	Reported
7	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:07 AM	Reported
8	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:17 AM	Reported
9	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:26 AM	Reported
10	ICV	ICV	1	Hexavalent Chromium	10/01/24 11:38 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/01/24 11:48 AM	Reported
12	ICB	ICB	1	Hexavalent Chromium	10/01/24 11:57 AM	Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241001A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	01/Oct/24 12:28:25
No. of Injections:	15	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/01/2024 10:06	Finished	BLANK
2	BLANK	2	1000	Unknown		10/01/2024 10:20	Finished	BLANK
3	iBLANK	3	1000	Unknown		10/01/2024 10:29	Finished	INSTRUMENT BLANK
4	STD1-0.2 ppb	4	1000	Calibration Standard	01	10/01/2024 10:39	Finished	0.2 ppb, IWST-240729A, 2uL>
5	STD2-1.0 ppb	5	1000	Calibration Standard	02	10/01/2024 10:48	Finished	1.0 ppb, IWST-240729A, 10uL>
6	STD3-5.0 ppb	6	1000	Calibration Standard	03	10/01/2024 10:58	Finished	5.0 ppb, IWST-240729A, 50uL>
7	STD4-10.0 ppb	7	1000	Calibration Standard	04	10/01/2024 11:07	Finished	10 ppb, IWST-240729A, 100uL>
8	STD5-15.0 ppb	8	1000	Calibration Standard	05	10/01/2024 11:17	Finished	15 ppb, IWST-240729A, 150uL>
9	STD6-20.0 ppb	9	1000	Calibration Standard	06	10/01/2024 11:26	Finished	20 ppb, IWST-240729A, 200uL>
10	ICV,ICV,1,	10	1000	Unknown		10/01/2024 11:38	Finished	ICV @5ppb, IWST-240729B
11	PQL@0.2ppb,CCV2,	11	1000	Unknown		10/01/2024 11:48	Finished	PQL @ 0.2ppb
12	ICB,ICB,1	12	1000	Unknown		10/01/2024 11:57	Finished	ICB R240708C
13	SHUTDOWN	22	1000	Unknown		n.a.	Finished	
14	Eluent: R240930A	23	1000	Unknown		n.a.	Finished	
15	PCR: R240930B	24	1000	Unknown		n.a.	Finished	

Reviewed by:

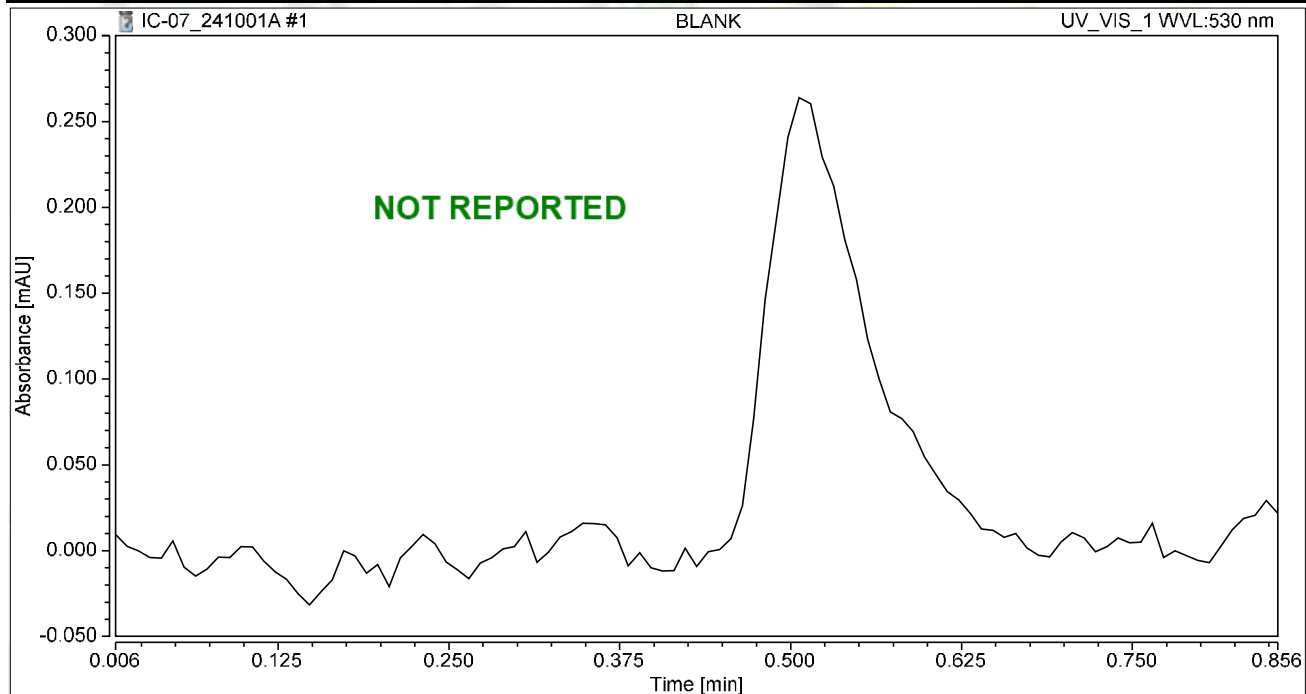
d/Rocha 10/6/2024

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	0.85
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 10:06	Sample Weight:	1.0000

Chromatogram



Integration Results

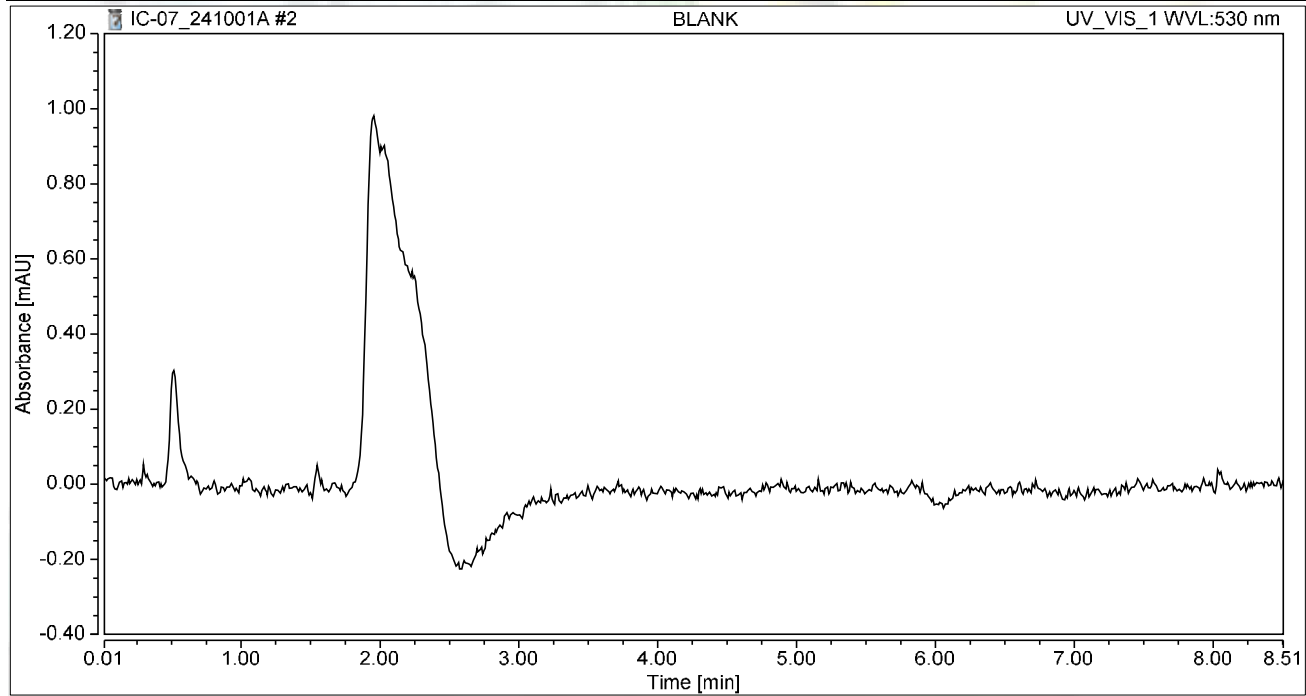
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 10:20	Sample Weight:	1.0000

Chromatogram



Integration Results

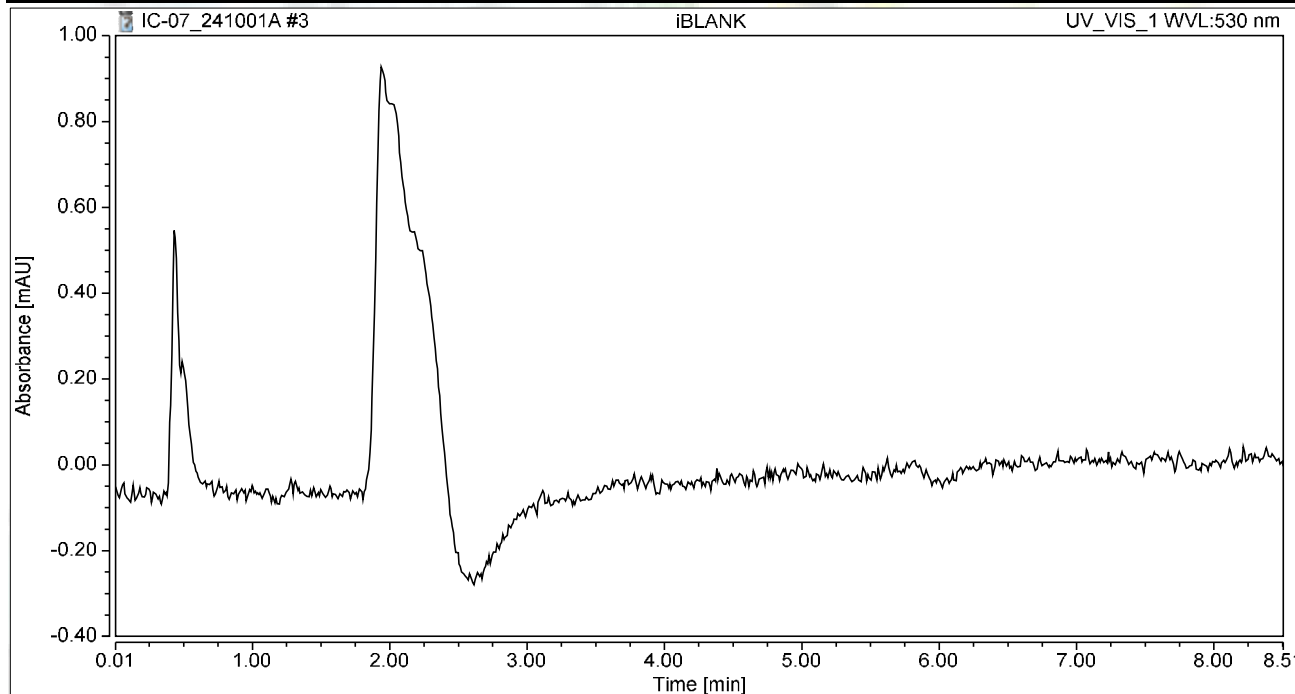
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	iBLANK	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 10:29	Sample Weight:	1.0000

Chromatogram



Integration Results

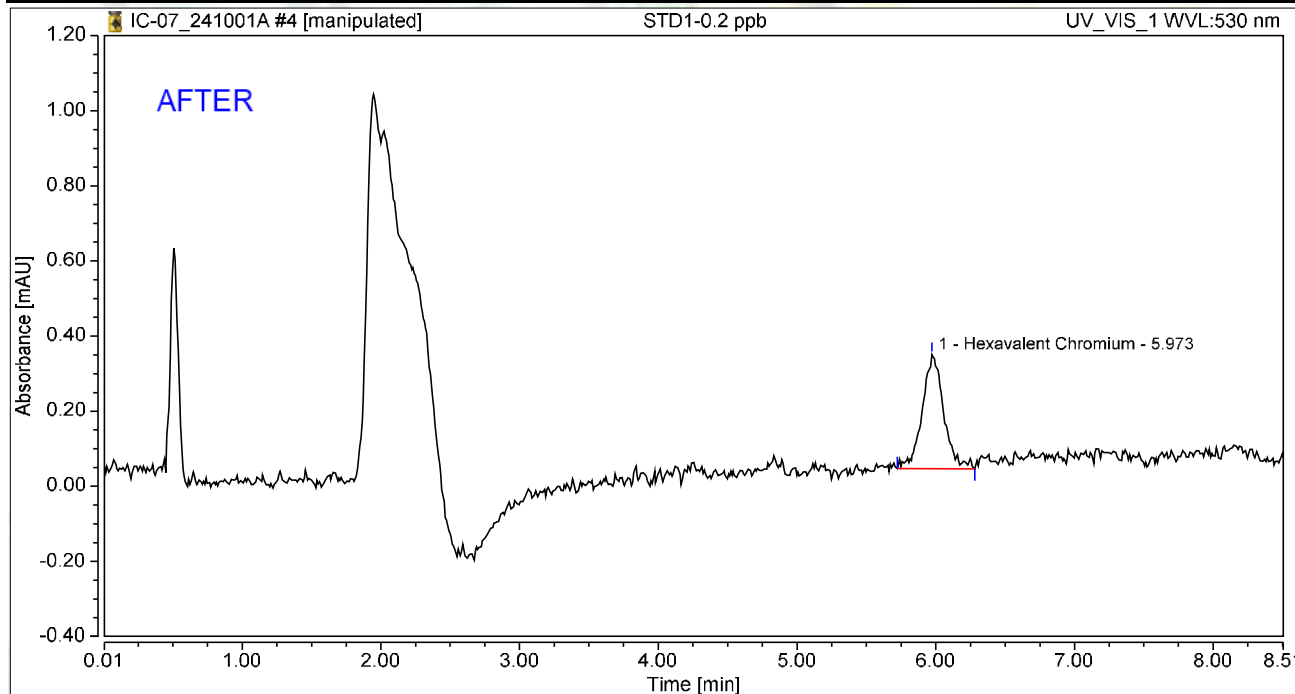
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	STD1-0.2 ppb	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	01	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 10:39	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.973	0.055	0.304	100.00	100.00	0.2011
Total:			0.055	0.304	100.00	100.00	

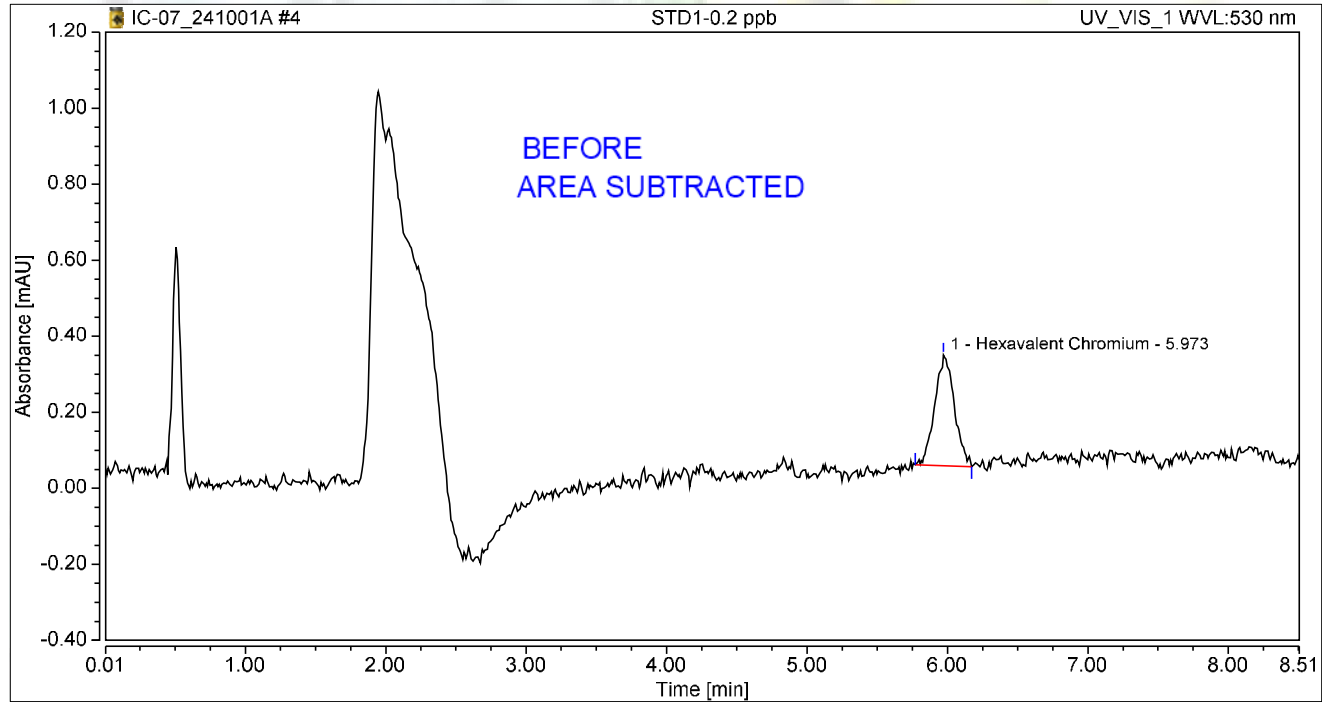
Reviewed by:

d/Rocha 10/6/2024

Chromatogram and Results

Injection Details		
Injection Name:	STD1-0.2 ppb	Run Time (min): 8.50
Vial Number:	4	Injection Volume: 1000.00
Injection Type:	Calibration Standard	Channel: UV_VIS_1
Calibration Level:	01	Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	01/Oct/24 10:39	Sample Weight: 1.0000

Chromatogram



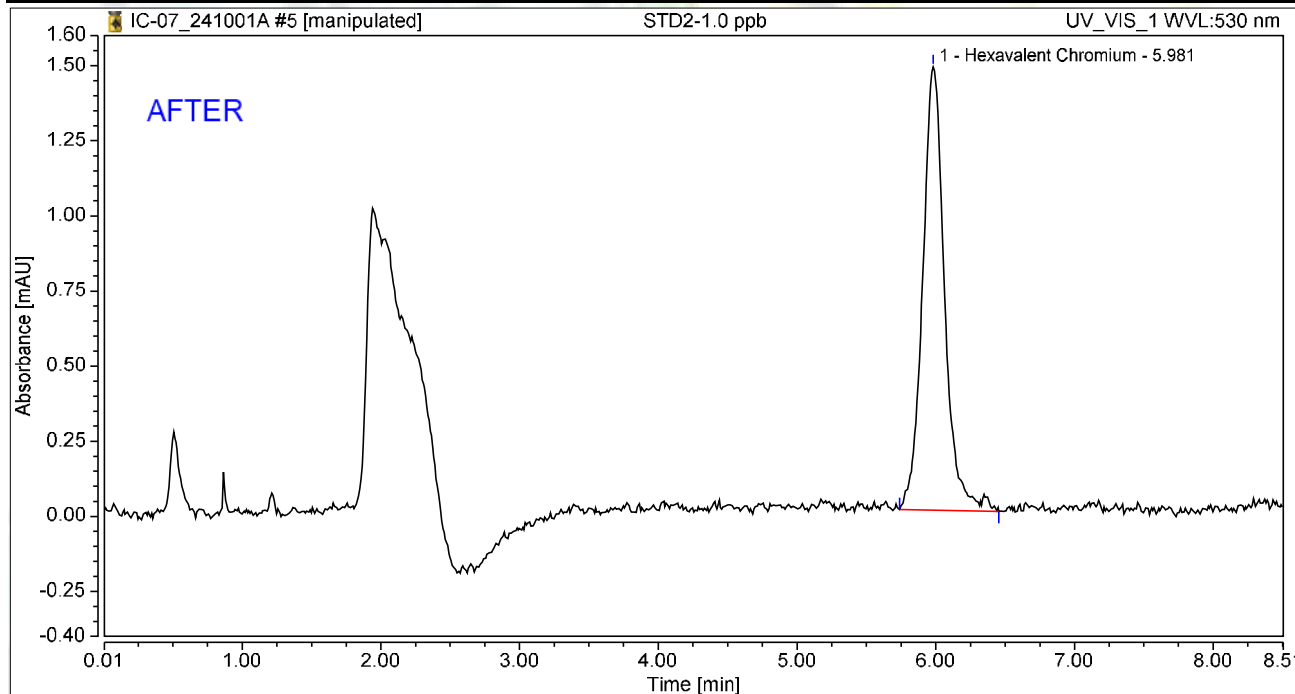
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.973	0.047	0.291	100.00	100.00	0.1740
Total:			0.047	0.291	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD2-1.0 ppb	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	02	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 10:48	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.981	0.270	1.476	100.00	100.00	0.9960
Total:			0.270	1.476	100.00	100.00	

Reviewed by:

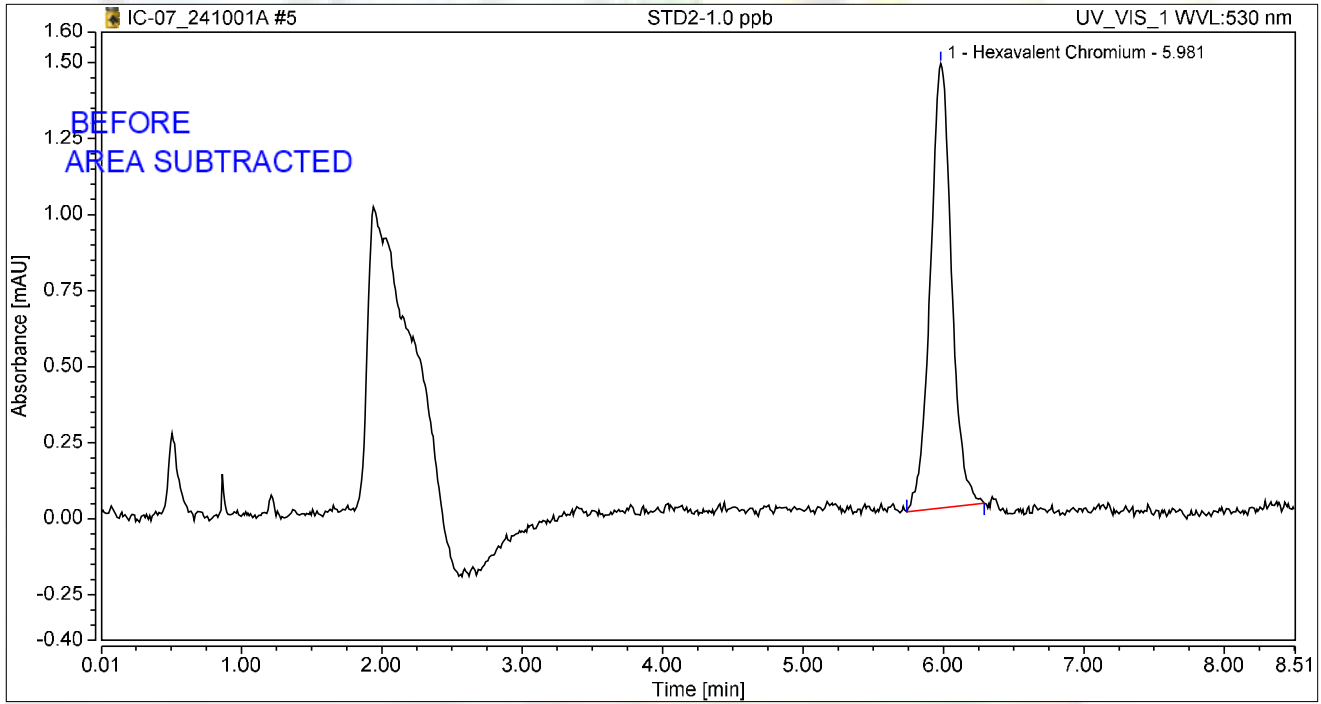
MRecha 10/6/2024

Chromatogram and Results

Injection Details

Injection Name:	STD2-1.0 ppb	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	02	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 10:48	Sample Weight:	1.0000

Chromatogram



Integration Results

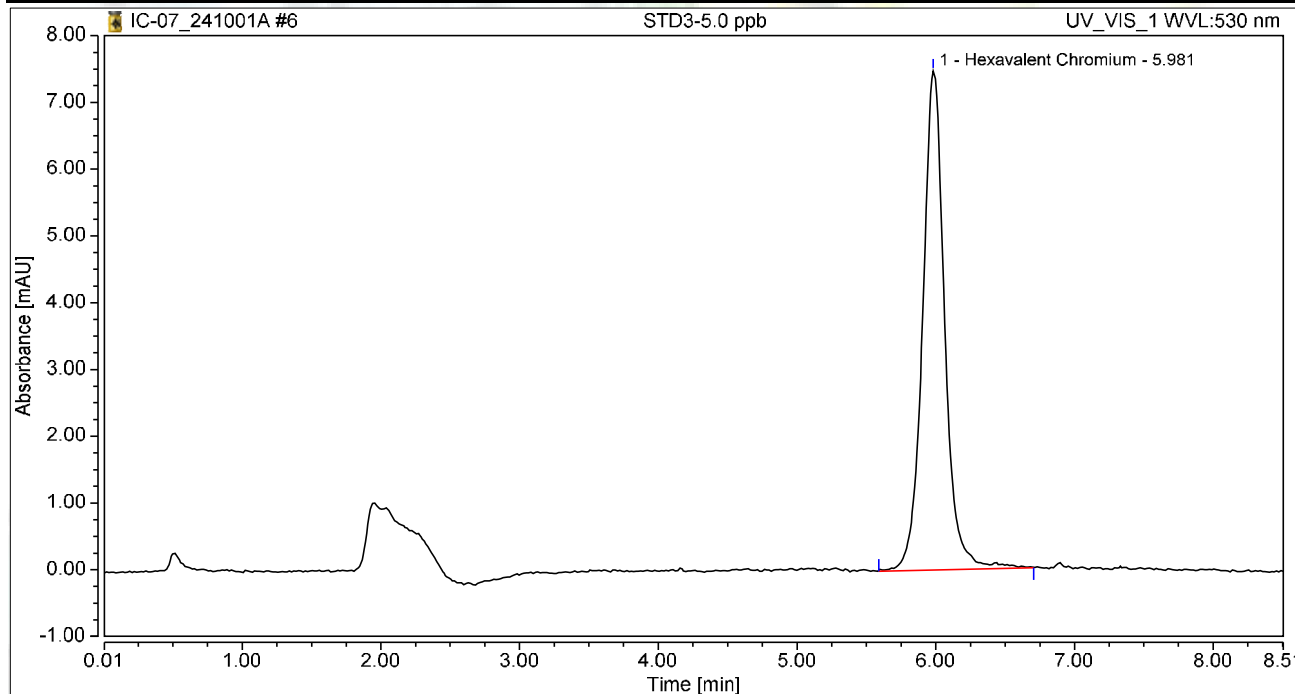
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.981	0.256	1.461	100.00	100.00	0.9449
Total:			0.256	1.461	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD3-5.0 ppb	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	03	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 10:58	Sample Weight:	1.0000

Chromatogram



Integration Results

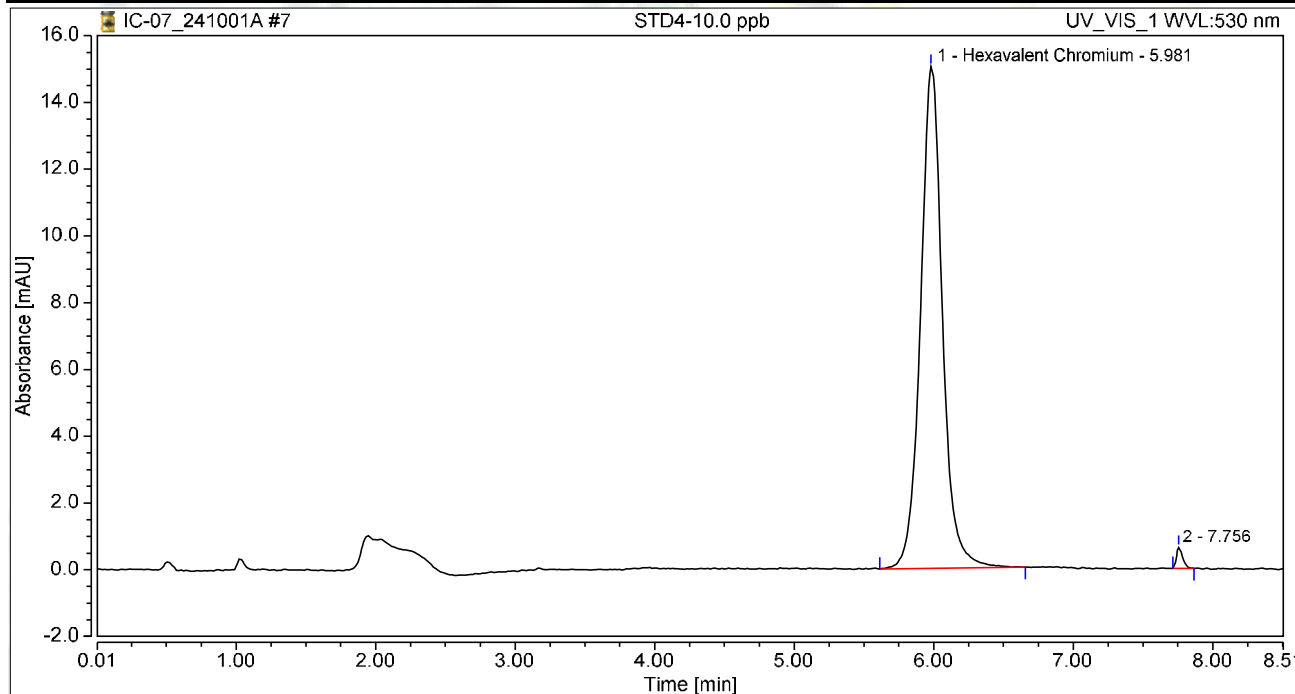
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.981	1.375	7.475	100.00	100.00	5.0630
Total:			1.375	7.475	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD4-10.0 ppb	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	04	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 11:07	Sample Weight:	1.0000

Chromatogram



Integration Results

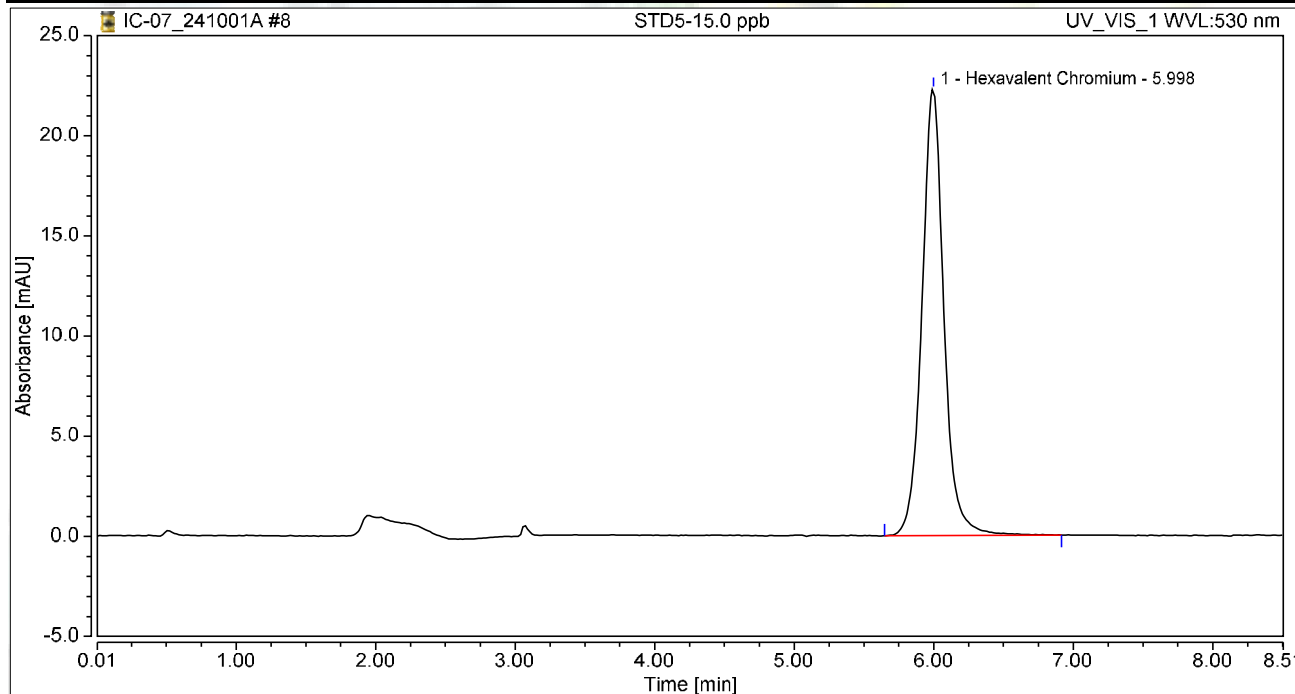
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.981	2.740	15.035	98.84	96.00	10.0919
2		7.756	0.032	0.626	1.16	4.00	n.a.
Total:			2.772	15.661	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD5-15.0 ppb	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	05	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 11:17	Sample Weight:	1.0000

Chromatogram



Integration Results

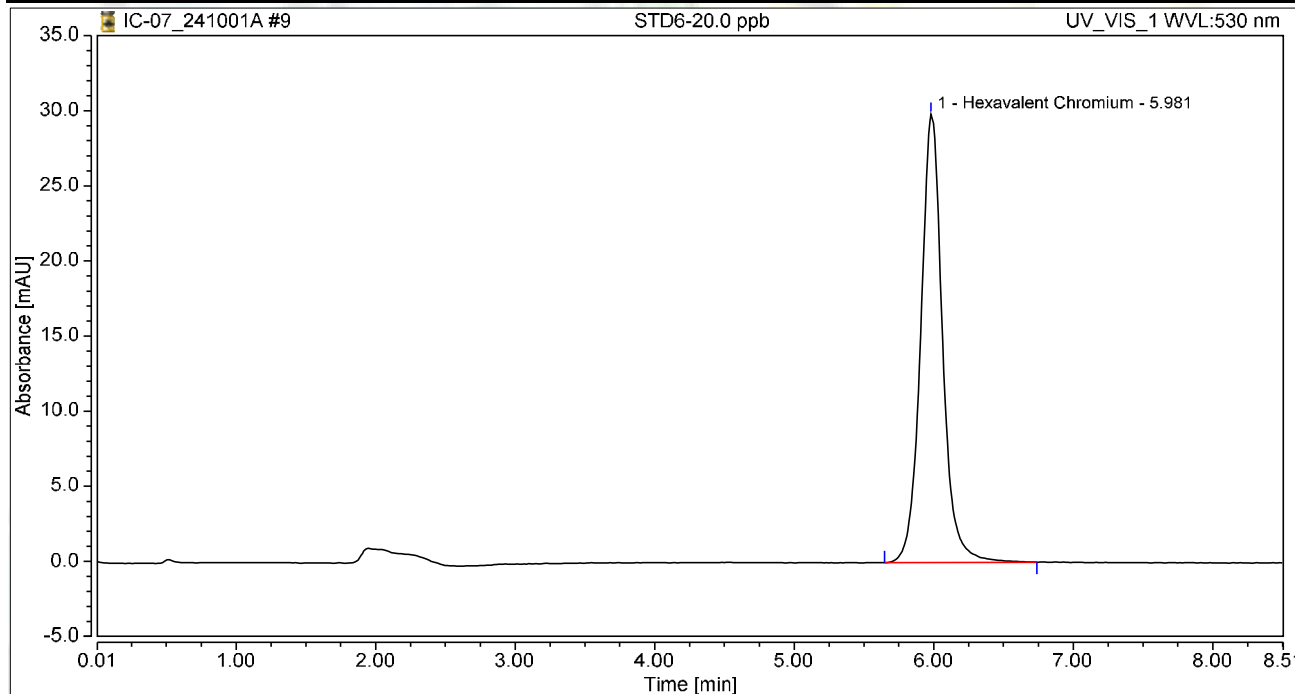
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.998	4.076	22.277	100.00	100.00	15.0127
Total:			4.076	22.277	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD6-20.0 ppb	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	06	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 11:26	Sample Weight:	1.0000

Chromatogram



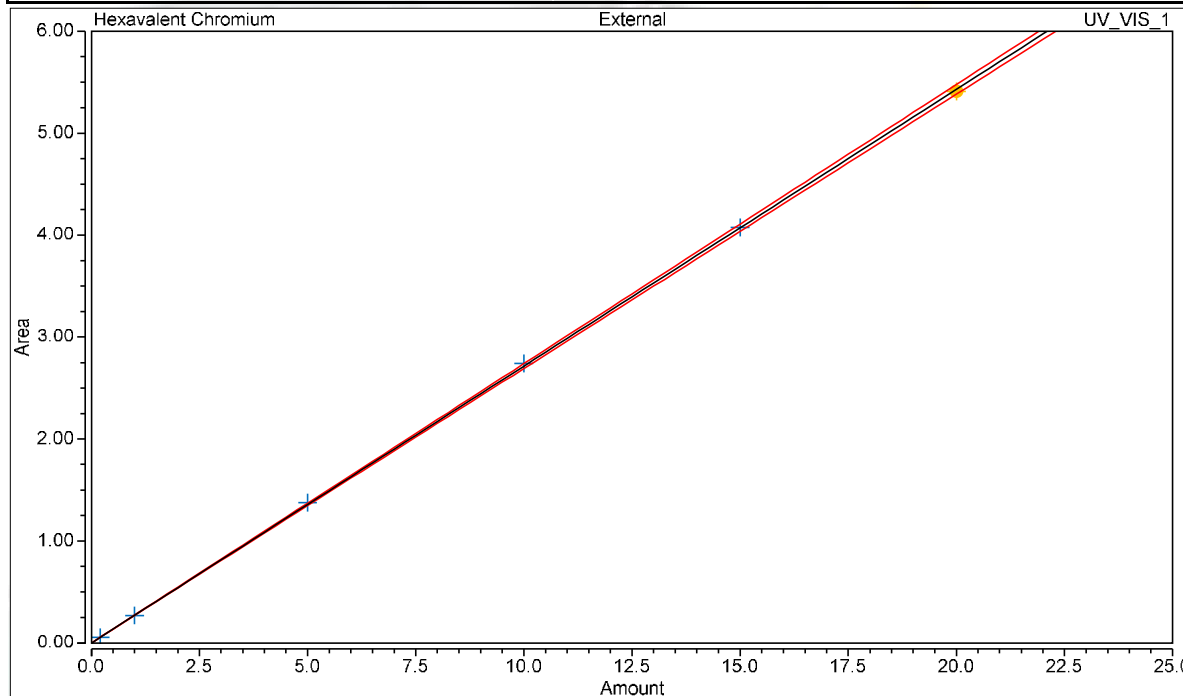
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.981	5.410	29.843	100.00	100.00	19.9290
Total:			5.410	29.843	100.00	100.00	

Initial Calibration Summary

Calibration Details		Hexavalent Chromium	
Calibration Type	Lin	Offset (C0)	0.0000
Evaluation Type	Area	Slope (C1)	0.2715
Number of Calibration Points	6	Curve (C2)	0.0000
Number of disabled Calibration Points	0	R-Square	0.99994

Calibration Plot Hexavalent Chromium



Calibration Results Hexavalent Chromium

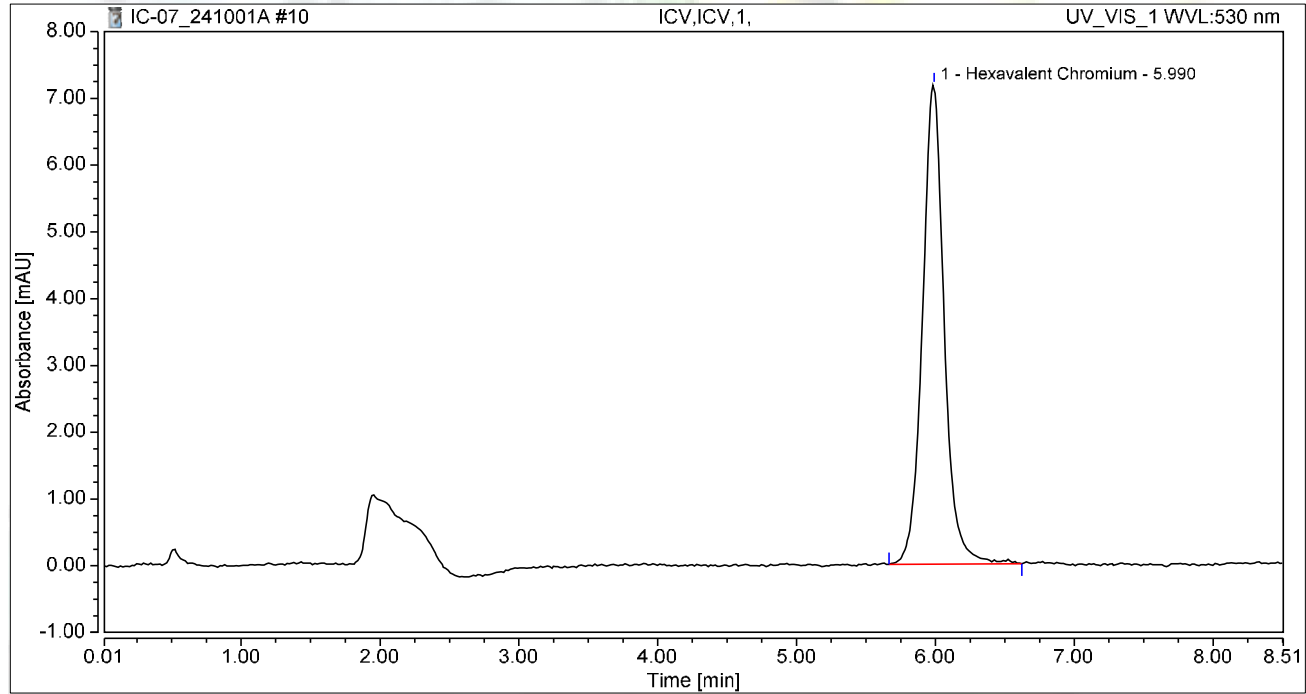
No.	Injection Name	Calibration Level	X Value	Y Value	Area mAU*min	Height mAU
4	STD1-0.2 ppb	01	0.2000	0.0546	0.055	0.304
5	STD2-1.0 ppb	02	1.0000	0.2704	0.270	1.476
6	STD3-5.0 ppb	03	5.0000	1.3745	1.375	7.475
7	STD4-10.0 ppb	04	10.0000	2.7397	2.740	15.035
8	STD5-15.0 ppb	05	15.0000	4.0756	4.076	22.277
9	STD6-20.0 ppb	06	20.0000	5.4103	5.410	29.843

Chromatogram and Results

Injection Details

Injection Name:	ICV,ICV,1,	Run Time (min):	8.49
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 11:38	Sample Weight:	1.0000

Chromatogram



Integration Results

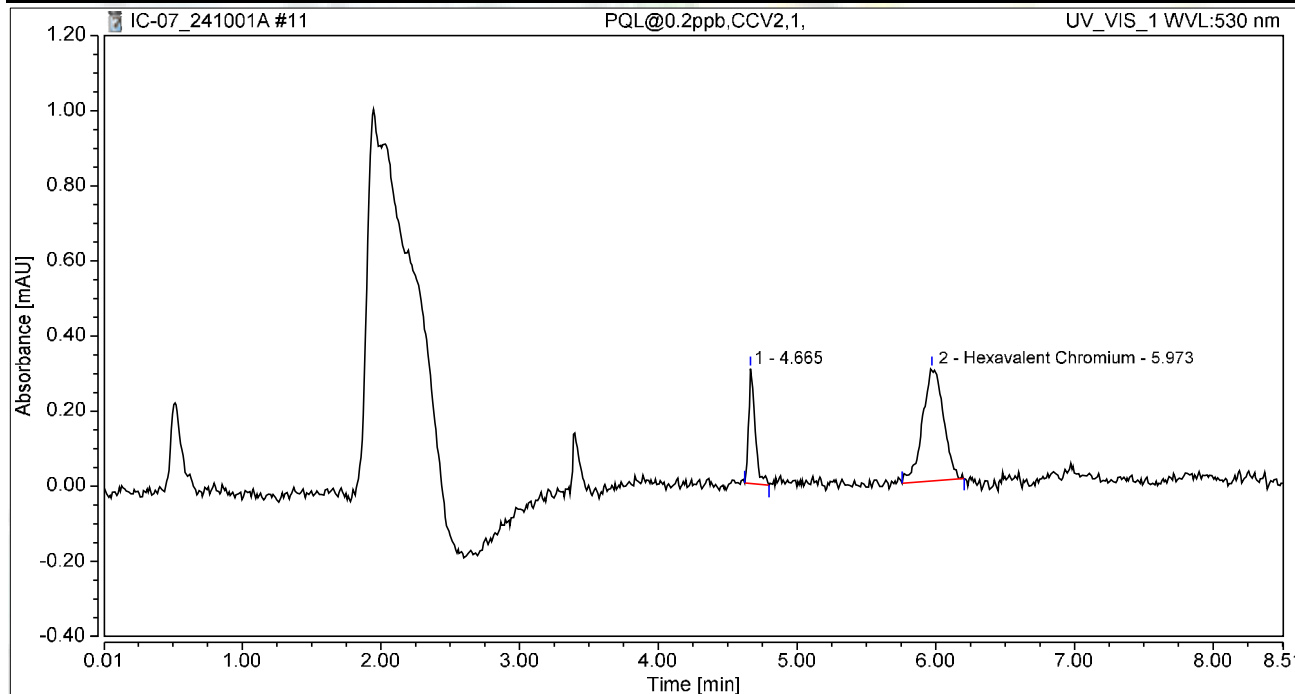
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.990	1.304	7.179	100.00	100.00	4.8023
Total:			1.304	7.179	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 11:48	Sample Weight:	1.0000

Chromatogram



Integration Results

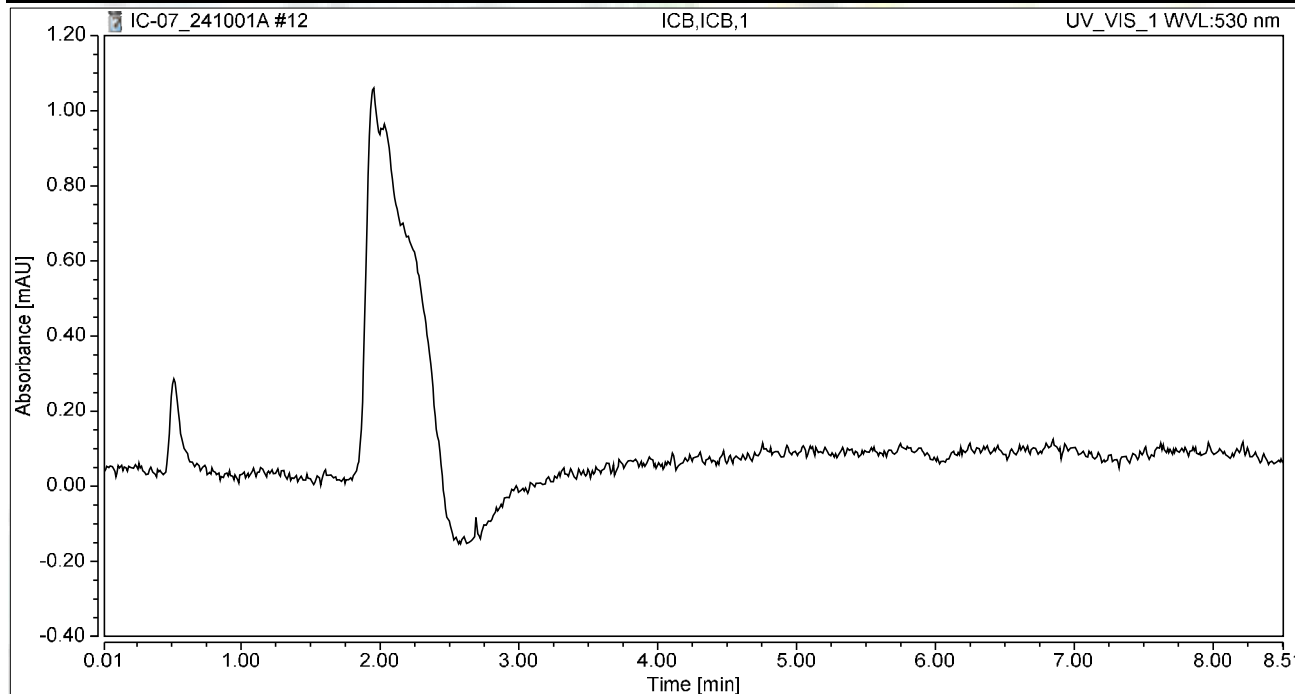
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		4.665	0.017	0.306	24.06	50.53	n.a.
2	Hexavalent Chromium	5.973	0.053	0.299	75.94	49.47	0.1940
Total:			0.069	0.605	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	ICB,ICB,1	Run Time (min):	8.49
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Oct/24 11:57	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

RAW DATA



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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INJECTION LOG: 241012A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/01/24 10:06 AM	Not Reported
2	BLANK	BLANK	1	Hexavalent Chromium	10/01/24 10:20 AM	Not Reported
3	iBLANK	iBLANK	1	Hexavalent Chromium	10/01/24 10:29 AM	Reported
4	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:39 AM	Reported
5	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:48 AM	Reported
6	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:58 AM	Reported
7	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:07 AM	Reported
8	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:17 AM	Reported
9	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:26 AM	Reported
10	BLANK	BLANK	1	Hexavalent Chromium	10/12/24 6:29 AM	Not Reported
11	CCV-1	CCV	1	Hexavalent Chromium	10/12/24 6:42 AM	Reported
12	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/12/24 6:52 AM	Reported
13	CCB-1	CCB	1	Hexavalent Chromium	10/12/24 7:01 AM	Reported
14	MB-H2O	MBLK	1	Hexavalent Chromium	10/12/24 7:11 AM	Not Reported
15	LCS-R194221	LCS	1	Hexavalent Chromium	10/12/24 7:20 AM	Reported
16	MB-R194221	MBLK	1	Hexavalent Chromium	10/12/24 7:37 AM	Reported
17	N069148-001A	SAMP	20	Hexavalent Chromium	10/12/24 7:48 AM	Reported
18	N069148-001AMS	MS	20	Hexavalent Chromium	10/12/24 7:58 AM	Reported
19	N069148-001AMSD	MSD	20	Hexavalent Chromium	10/12/24 8:07 AM	Reported
20	N069103-003A	SAMP	5	Hexavalent Chromium	10/12/24 8:16 AM	Reported
21	N069103-003ADUP	DUP	5	Hexavalent Chromium	10/12/24 8:37 AM	Reported
22	N069146-007A	SAMP	5	Hexavalent Chromium	10/12/24 8:49 AM	Reported
23	N069146-007AMS	MS	5	Hexavalent Chromium	10/12/24 8:58 AM	Reported
24	N069148-002A	SAMP	1	Hexavalent Chromium	10/12/24 9:08 AM	Reported
25	CCV-2	CCV1	1	Hexavalent Chromium	10/12/24 10:50 AM	Reported
26	CCB-2	CCB	1	Hexavalent Chromium	10/12/24 11:01 AM	Reported
27	N069147-001A	SAMP	1	Hexavalent Chromium	10/12/24 11:10 AM	Reported
28	N069147-001AMS	MS	1	Hexavalent Chromium	10/12/24 11:20 AM	Reported
29	N069147-002A	SAMP	1	Hexavalent Chromium	10/12/24 11:29 AM	Not Reported
30	N069147-002AMS	MS	1	Hexavalent Chromium	10/12/24 11:39 AM	Not Reported
31	N069147-006A	SAMP	1	Hexavalent Chromium	10/12/24 11:48 AM	Reported
32	N069147-006AMS	MS	1	Hexavalent Chromium	10/12/24 11:58 AM	Reported
33	N069147-007A	SAMP	1	Hexavalent Chromium	10/12/24 12:07 PM	Reported
34	N069147-007AMS	MS	1	Hexavalent Chromium	10/12/24 12:17 PM	Reported
35	N069147-003A	SAMP	1	Hexavalent Chromium	10/12/24 12:26 PM	Not Reported
36	N069147-003AMS	MS	1	Hexavalent Chromium	10/12/24 12:36 PM	Not Reported
37	CCV-3	CCV	1	Hexavalent Chromium	10/12/24 12:45 PM	Reported
38	CCB-3	CCB	1	Hexavalent Chromium	10/12/24 12:54 PM	Reported
39	N069147-004A	SAMP	1	Hexavalent Chromium	10/12/24 1:04 PM	Not Reported
40	N069147-004AMS	MS	1	Hexavalent Chromium	10/12/24 1:13 PM	Not Reported
41	N069147-005A	SAMP	1	Hexavalent Chromium	10/12/24 1:23 PM	Not Reported
42	N069147-005AMS	MS	1	Hexavalent Chromium	10/12/24 1:32 PM	Not Reported

INJECTION LOG: 241012A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069147-003A	SAMP	5	Hexavalent Chromium	10/12/24 1:42 PM	Reported
44	N069147-003AMS	MS	5	Hexavalent Chromium	10/12/24 1:51 PM	Reported
45	N069147-004A	SAMP	5	Hexavalent Chromium	10/12/24 2:01 PM	Reported
46	N069147-004AMS	MS	5	Hexavalent Chromium	10/12/24 2:10 PM	Reported
47	N069147-005A	SAMP	5	Hexavalent Chromium	10/12/24 2:20 PM	Reported
48	N069147-005AMS	MS	5	Hexavalent Chromium	10/12/24 2:29 PM	Reported
49	CCV-4	CCV1	1	Hexavalent Chromium	10/12/24 2:39 PM	Reported
50	CCB-4	CCB	1	Hexavalent Chromium	10/12/24 2:48 PM	Reported
51	N069148-003A	SAMP	5	Hexavalent Chromium	10/12/24 2:57 PM	Not Reported
52	N069148-004A	SAMP	1	Hexavalent Chromium	10/12/24 3:07 PM	Reported
53	N069148-005A	SAMP	1	Hexavalent Chromium	10/12/24 3:16 PM	Reported
54	N069148-006A	SAMP	5	Hexavalent Chromium	10/12/24 3:26 PM	Reported
55	N069148-007A	SAMP	10	Hexavalent Chromium	10/12/24 3:35 PM	Reported
56	N069148-008A	SAMP	5	Hexavalent Chromium	10/12/24 3:45 PM	Reported
57	N069146-003A	SAMP	5	Hexavalent Chromium	10/12/24 3:54 PM	Reported
58	N069146-003AMS	MS	5	Hexavalent Chromium	10/12/24 4:04 PM	Reported
59	N069146-011A	SAMP	5	Hexavalent Chromium	10/12/24 4:13 PM	Reported
60	N069146-011AMS	MS	5	Hexavalent Chromium	10/12/24 4:23 PM	Reported
61	CCV-5	CCV	1	Hexavalent Chromium	10/12/24 4:32 PM	Reported
62	CCB-5	CCB	1	Hexavalent Chromium	10/12/24 4:41 PM	Reported
63	N069146-012A	SAMP	5	Hexavalent Chromium	10/12/24 4:51 PM	Reported
64	N069146-012AMS	MS	5	Hexavalent Chromium	10/12/24 5:00 PM	Reported
65	CCV-6	CCV1	1	Hexavalent Chromium	10/12/24 5:10 PM	Reported
66	CCB-6	CCB	1	Hexavalent Chromium	10/12/24 5:19 PM	Reported
67	BLANK	BLANK	1	Hexavalent Chromium	10/12/24 5:29 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241012A	Created On:	24Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	12/Oct/24 17:59:32
No. of Injections:	70	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/01/2024 10:06	Finished	BLANK
2	BLANK	2	1000	Unknown		10/01/2024 10:20	Finished	BLANK
3	iBLANK	3	1000	Unknown		10/01/2024 10:29	Finished	INSTRUMENT BLANK
4	STD1-0.2 ppb	4	1000	Calibration Standard	01	10/01/2024 10:39	Finished	0.2 ppb, IWST-240729A, 2uL>
5	STD2-1.0 ppb	5	1000	Calibration Standard	02	10/01/2024 10:48	Finished	1.0 ppb, IWST-240729A, 10uL>
6	STD3-5.0 ppb	6	1000	Calibration Standard	03	10/01/2024 10:58	Finished	5.0 ppb, IWST-240729A, 50uL>
7	STD4-10.0 ppb	7	1000	Calibration Standard	04	10/01/2024 11:07	Finished	10 ppb, IWST-240729A, 100uL>
8	STD5-15.0 ppb	8	1000	Calibration Standard	05	10/01/2024 11:17	Finished	15 ppb, IWST-240729A, 150uL>
9	STD6-20.0 ppb	9	1000	Calibration Standard	06	10/01/2024 11:26	Finished	20 ppb, IWST-240729A, 200uL>
10	BLANK	1	1000	Unknown		10/12/2024 06:29	Finished	BLANK
11	CCV-1.CCV,1,	2	1000	Unknown		10/12/2024 06:42	Finished	CCV @5ppb, IWST-240729A
12	PQL@0.2ppb.CCV2,	3	1000	Unknown		10/12/2024 06:52	Finished	PQL @ 0.2ppb
13	CCB-1.CCB,1,	4	1000	Unknown		10/12/2024 07:01	Finished	CCB R240923C
14	MB-H2O.MBLK,1,	5	1000	Unknown		10/12/2024 07:11	Finished	MB R240923C
15	LCS-H2O.LCS,1,	6	1000	Unknown		10/12/2024 07:20	Finished	LCS @5ppb, IWST-240729B
16	MB-H2O.MBLK,1,	1	1000	Unknown		10/12/2024 07:37	Finished	MB R240923C
17	N069148-001A,SAMP	2	1000	Unknown		10/12/2024 07:48	Finished	SAMP,0.5>10 mL
18	N069148-001AMS,MS	3	1000	Unknown		10/12/2024 07:58	Finished	MS (5ppb), IWST-240729B,0.5
19	N069148-001AMSD,N	4	1000	Unknown		10/12/2024 08:07	Finished	MSD (5ppb), IWST-240729B,0
20	N069103-003A,SAMP	5	1000	Unknown		10/12/2024 08:16	Finished	SAMP,2>10 mL
21	N069103-003ADUP,D	1	1000	Unknown		10/12/2024 08:37	Finished	DUP,2>10 mL
22	N069146-007A,SAMP	2	1000	Unknown		10/12/2024 08:49	Finished	SAMP,2>10 mL
23	N069146-007AMS,MS	3	1000	Unknown		10/12/2024 08:58	Finished	MS (1ppb), IWST-240729B,2>1
24	N069148-002A,SAMP	4	1000	Unknown		10/12/2024 09:08	Finished	SAMP,10 mL
25	CCV-2.CCV1,1,	1	1000	Unknown		10/12/2024 10:50	Finished	CCV @10ppb, IWST-240729A
26	CCB-2.CCB,1,	2	1000	Unknown		10/12/2024 11:01	Finished	CCB R240923C
27	N069147-001A,SAMP	3	1000	Unknown		10/12/2024 11:10	Finished	SAMP,10 mL
28	N069147-001AMS,MS	4	1000	Unknown		10/12/2024 11:20	Finished	MS (1ppb), IWST-240729B,10r
29	N069147-002A,SAMP	5	1000	Unknown		10/12/2024 11:29	Finished	SAMP,10 mL
30	N069147-002AMS,MS	6	1000	Unknown		10/12/2024 11:39	Finished	MS (1ppb), IWST-240729B,10r
31	N069147-006A,SAMP	7	1000	Unknown		10/12/2024 11:48	Finished	SAMP,10 mL
32	N069147-006AMS,MS	8	1000	Unknown		10/12/2024 11:58	Finished	MS (1ppb), IWST-240729B,10r
33	N069147-007A,SAMP	9	1000	Unknown		10/12/2024 12:07	Finished	SAMP,10 mL
34	N069147-007AMS,MS	10	1000	Unknown		10/12/2024 12:17	Finished	DUP,10 mL
35	N069147-003A,SAMP	11	1000	Unknown		10/12/2024 12:26	Finished	SAMP,10 mL
36	N069147-003AMS,MS	12	1000	Unknown		10/12/2024 12:36	Finished	MS (1ppb), IWST-240729B,10r
37	CCV-3.CCV,1,	13	1000	Unknown		10/12/2024 12:45	Finished	CCV @5ppb, IWST-240729A
38	CCB-3.CCB,1,	14	1000	Unknown		10/12/2024 12:54	Finished	CCB R240923C
39	N069147-004A,SAMP	15	1000	Unknown		10/12/2024 13:04	Finished	SAMP,10 mL
40	N069147-004AMS,MS	16	1000	Unknown		10/12/2024 13:13	Finished	MS (1ppb), IWST-240729B,10r
41	N069147-005A,SAMP	17	1000	Unknown		10/12/2024 13:23	Finished	SAMP,10 mL
42	N069147-005AMS,MS	18	1000	Unknown		10/12/2024 13:32	Finished	MS (1ppb), IWST-240729B,10r
43	N069147-003A,SAMP	19	1000	Unknown		10/12/2024 13:42	Finished	SAMP,2>10 mL
44	N069147-003AMS,MS	20	1000	Unknown		10/12/2024 13:51	Finished	MS (1ppb), IWST-240729B,2>1
45	N069147-004A,SAMP	21	1000	Unknown		10/12/2024 14:01	Finished	SAMP,2>10 mL
46	N069147-004AMS,MS	22	1000	Unknown		10/12/2024 14:10	Finished	MS (1ppb), IWST-240729B,2>1
47	N069147-005A,SAMP	23	1000	Unknown		10/12/2024 14:20	Finished	SAMP,2>10 mL
48	N069147-005AMS,MS	24	1000	Unknown		10/12/2024 14:29	Finished	MS (1ppb), IWST-240729B,2>1
49	CCV-4.CCV1,1,	25	1000	Unknown		10/12/2024 14:39	Finished	CCV @10ppb, IWST-240729A
50	CCB-4.CCB,1,	26	1000	Unknown		10/12/2024 14:48	Finished	CCB R240923C
51	N069148-003A,SAMP	27	1000	Unknown		10/12/2024 14:57	Finished	SAMP,2>10 mL
52	N069148-004A,SAMP	28	1000	Unknown		10/12/2024 15:07	Finished	SAMP,10 mL
53	N069148-005A,SAMP	29	1000	Unknown		10/12/2024 15:16	Finished	SAMP,10 mL
54	N069148-006A,SAMP	30	1000	Unknown		10/12/2024 15:26	Finished	SAMP,2>10 mL
55	N069148-007A,SAMP	31	1000	Unknown		10/12/2024 15:35	Finished	SAMP,1>10 mL
56	N069148-008A,SAMP	32	1000	Unknown		10/12/2024 15:45	Finished	SAMP,2>10 mL
57	N069146-003A,SAMP	33	1000	Unknown		10/12/2024 15:54	Finished	SAMP,2>10 mL
58	N069146-003AMS,MS	34	1000	Unknown		10/12/2024 16:04	Finished	MS (1ppb), IWST-240729B,2>1
59	N069146-011A,SAMP	35	1000	Unknown		10/12/2024 16:13	Finished	SAMP,2>10 mL
60	N069146-011AMS,MS	36	1000	Unknown		10/12/2024 16:23	Finished	MS (1ppb), IWST-240729B,2>1

61	CCV-5.CCV,1,	37	1000	Unknown		10/12/2024 16:32	Finished	CCV @5ppb, IWST-240729A
62	CCB-5.CCB,1,	38	1000	Unknown		10/12/2024 16:41	Finished	CCB R240923C
63	N069146-012A,SAMP	39	1000	Unknown		10/12/2024 16:51	Finished	SAMP,2>10 mL
64	N069146-012AMS,MS	40	1000	Unknown		10/12/2024 17:00	Finished	MS (1ppb), IWST-240729B,2>1
65	CCV-6.CCV1,1,	41	1000	Unknown		10/12/2024 17:10	Finished	CCV @10ppb, IWST-240729A
66	CCB-6.CCB,1,	42	1000	Unknown		10/12/2024 17:19	Finished	CCB R240923C
67	BLANK	43	1000	Unknown		10/12/2024 17:29	Finished	BLANK
68	SHUTDOWN	44	1000	Unknown		10/12/2024 17:38	Finished	
69	Eluent: R241012A	45	1000	Unknown		n.a.	Finished	
70	PCR: R241012B	46	1000	Unknown		n.a.	Finished	

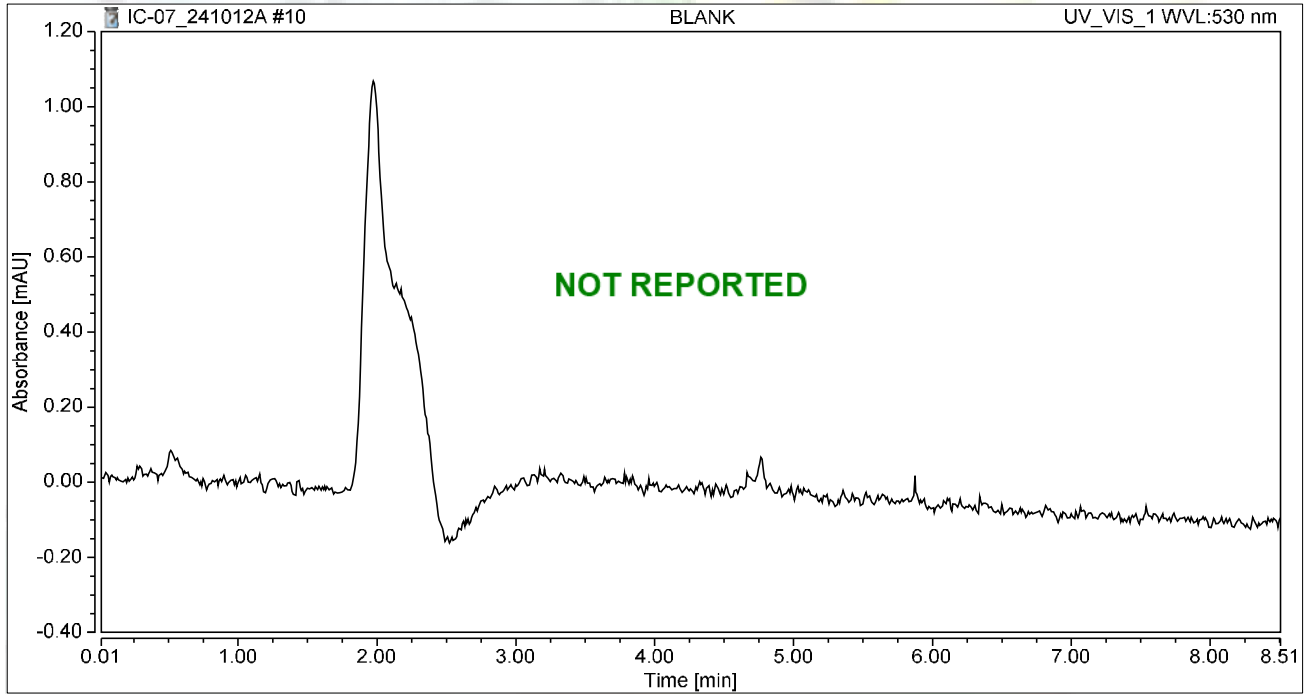


Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 06:29	Sample Weight:	1.0000

Chromatogram



Integration Results

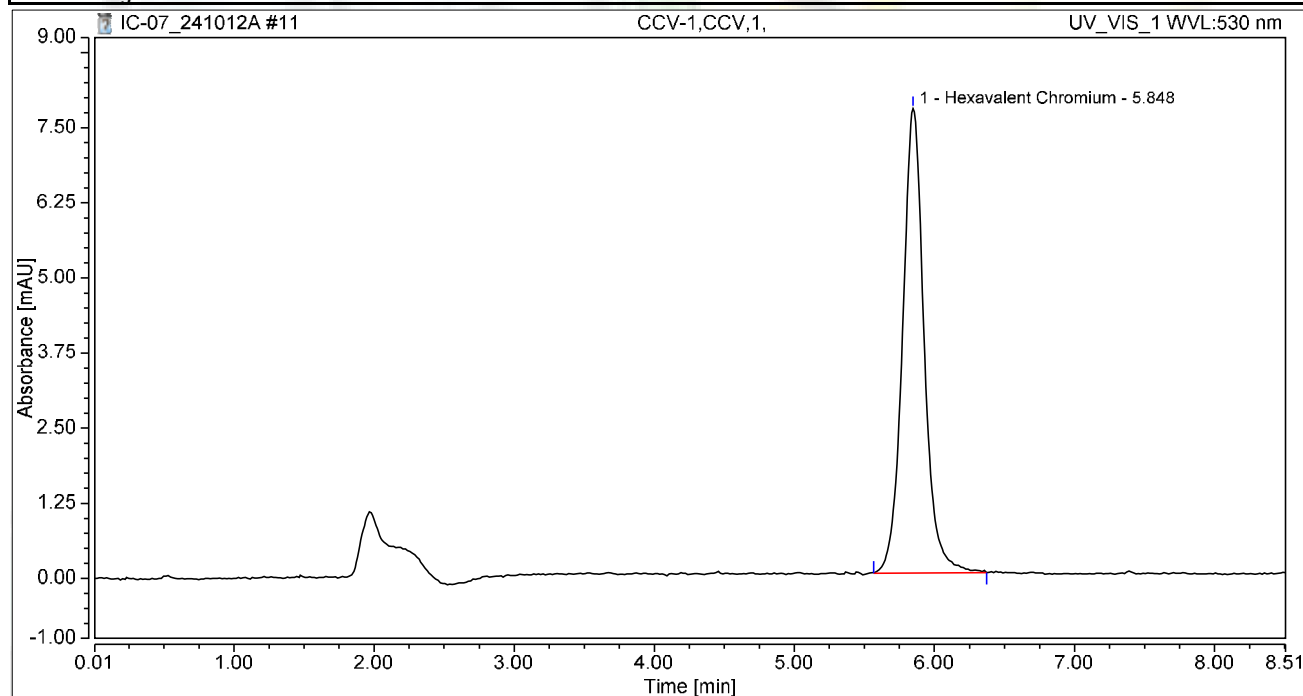
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-1,CCV,1,	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 06:42	Sample Weight:	1.0000

Chromatogram



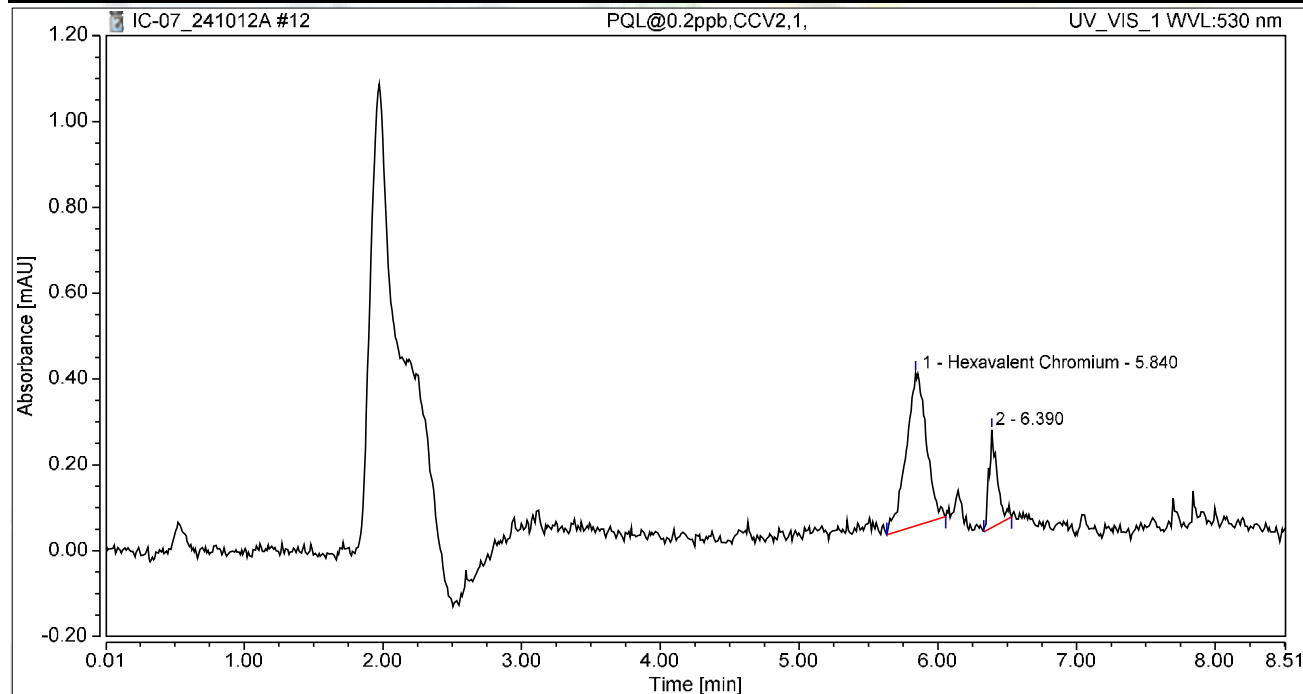
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.848	1.377	7.726	100.00	100.00	5.0704
Total:			1.377	7.726	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min): 8.50
Vial Number:	3	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Oct/24 06:52	Sample Weight: 1.0000

Chromatogram



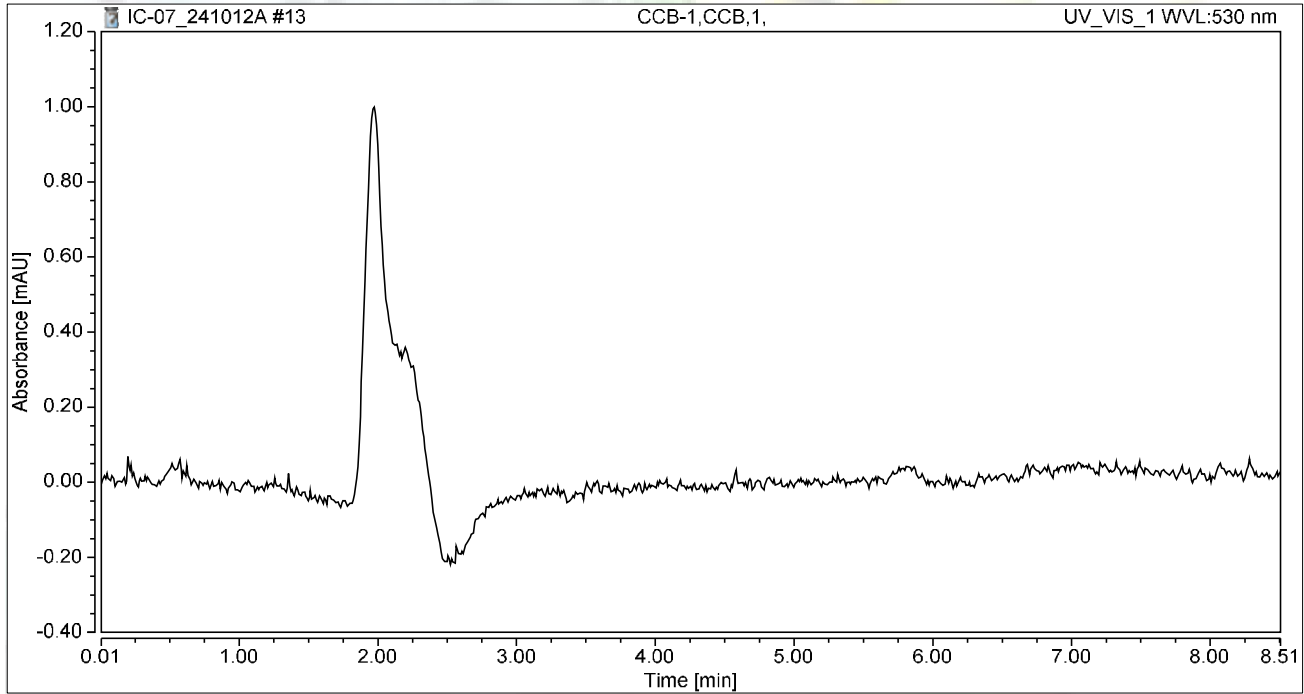
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.840	0.060	0.355	79.42	61.06	0.2202
2		6.390	0.015	0.227	20.58	38.94	n.a.
Total:			0.075	0.582	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-1,CCB,1,	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 07:01	Sample Weight:	1.0000

Chromatogram



Integration Results

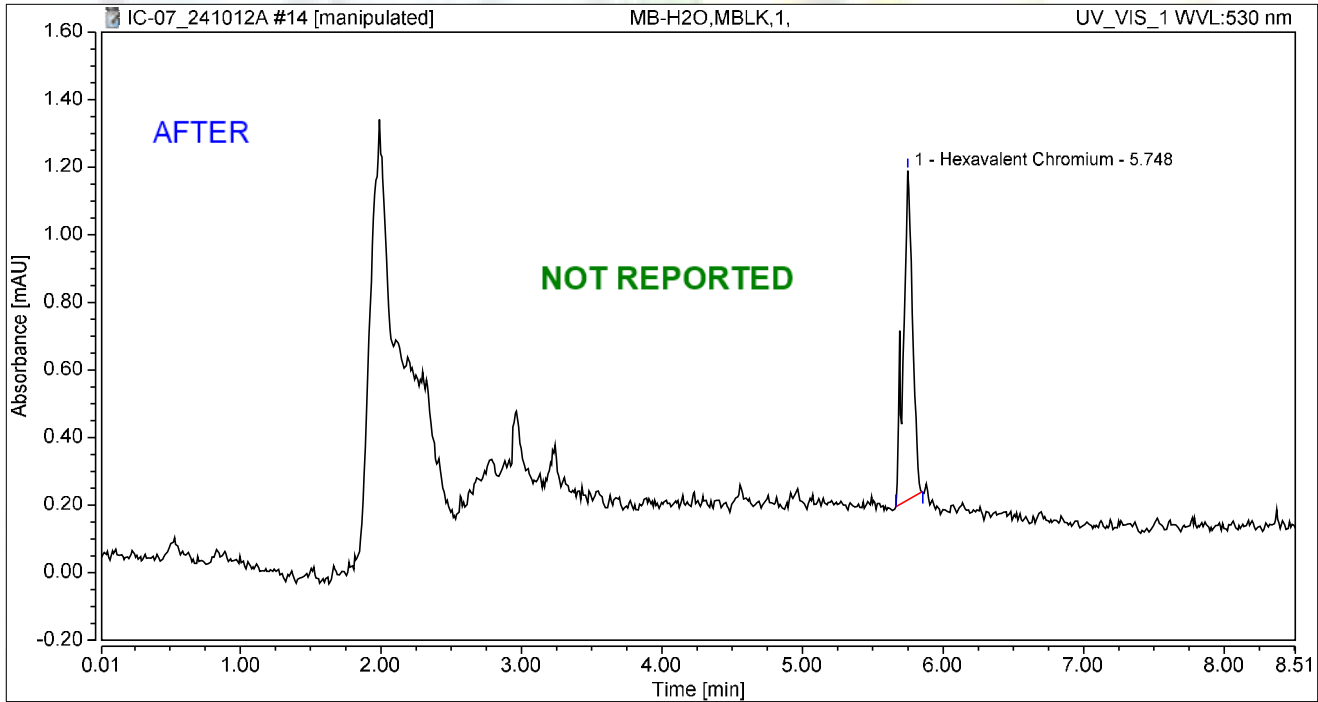
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.49
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 07:11	Sample Weight:	1.0000

Chromatogram



Integration Results

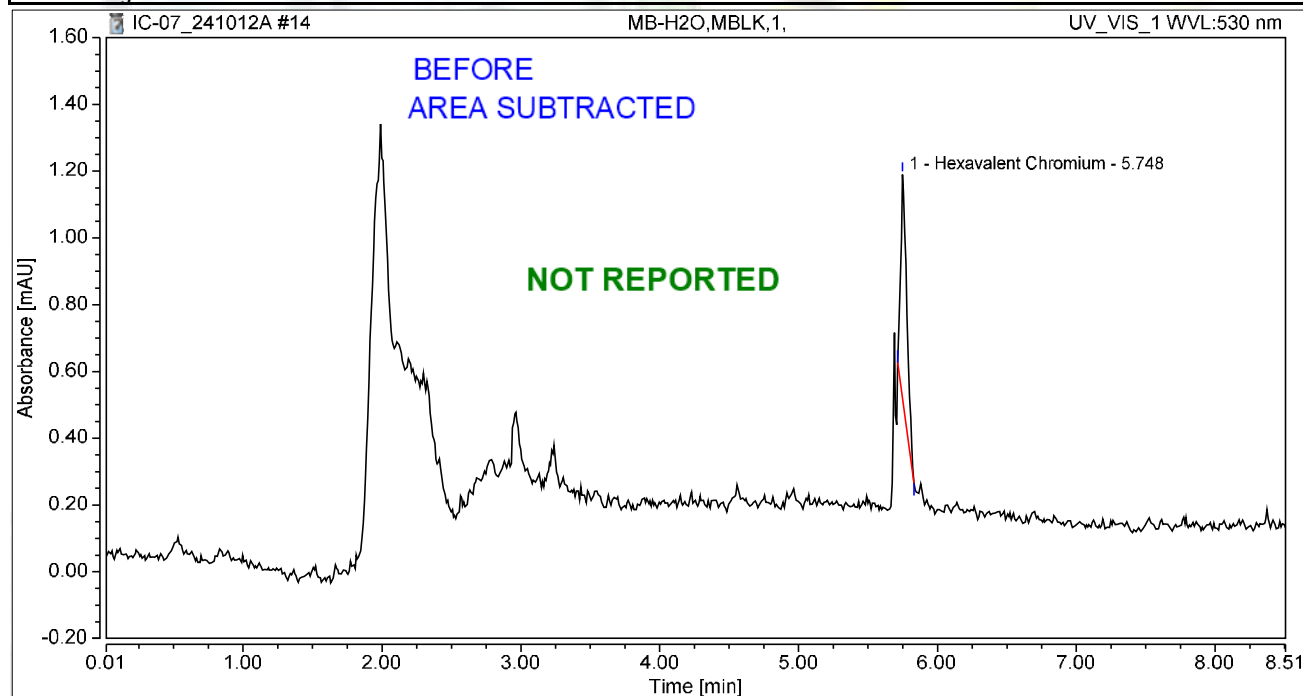
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.748	0.073	0.975	100.00	100.00	0.2685
Total:			0.073	0.975	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.49
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 07:11	Sample Weight:	1.0000

Chromatogram



Integration Results

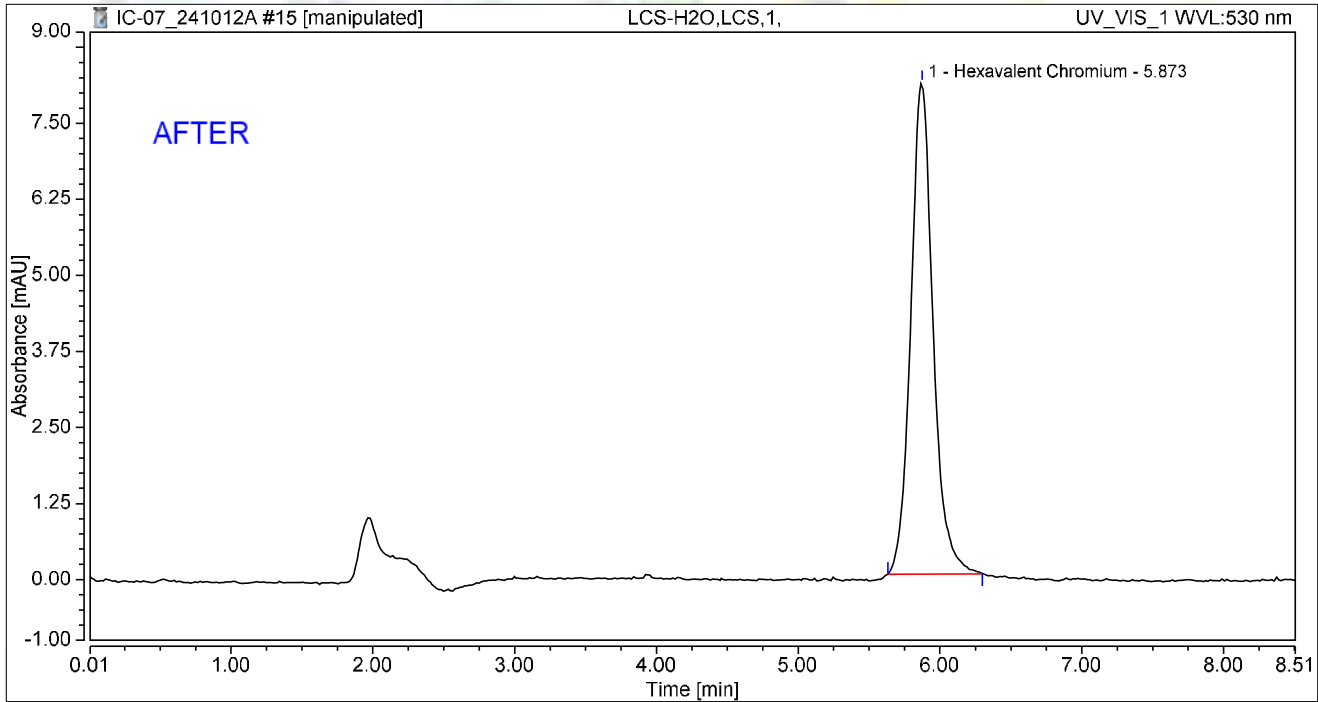
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.748	0.034	0.667	100.00	100.00	0.1238
Total:			0.034	0.667	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-H2O,LCS,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 07:20	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.873	1.467	8.079	100.00	100.00	5.4049
Total:			1.467	8.079	100.00	100.00	

Reviewed by:

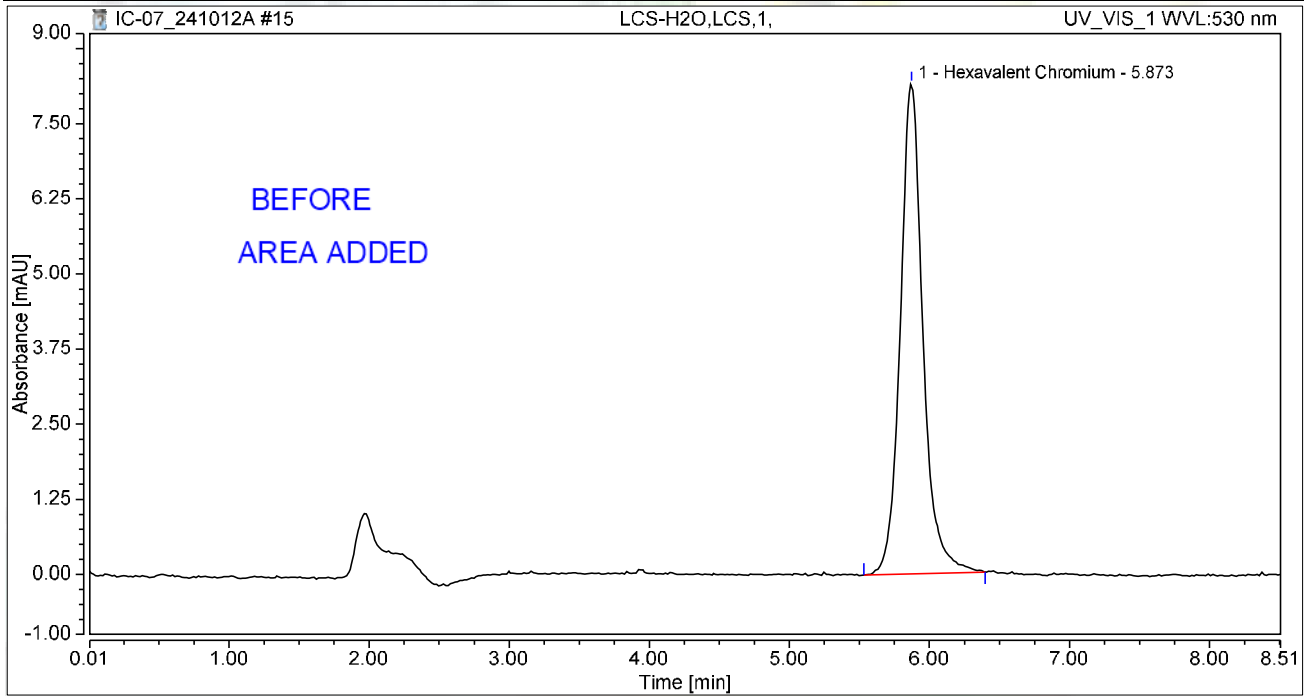
d/Recha 10/24/2024

Chromatogram and Results

Injection Details

Injection Name:	LCS-H2O,LCS,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 07:20	Sample Weight:	1.0000

Chromatogram



Integration Results

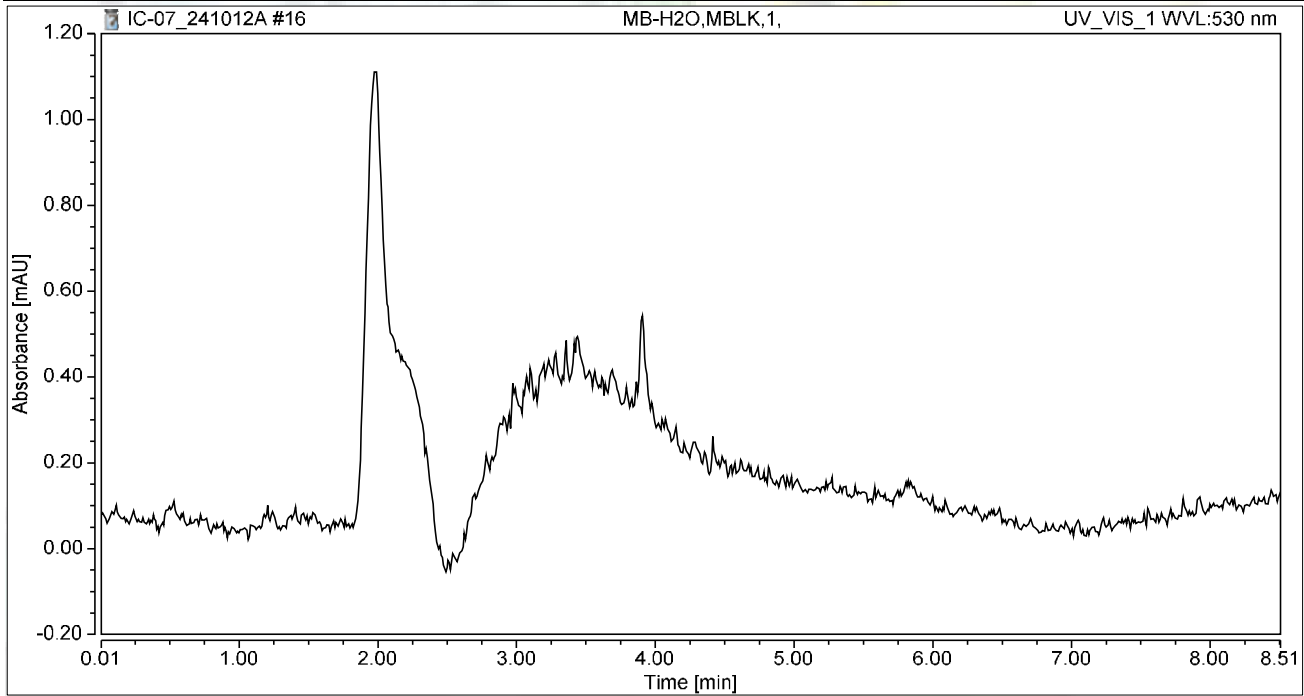
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.873	1.525	8.160	100.00	100.00	5.6166
Total:			1.525	8.160	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 07:37	Sample Weight:	1.0000

Chromatogram



Integration Results

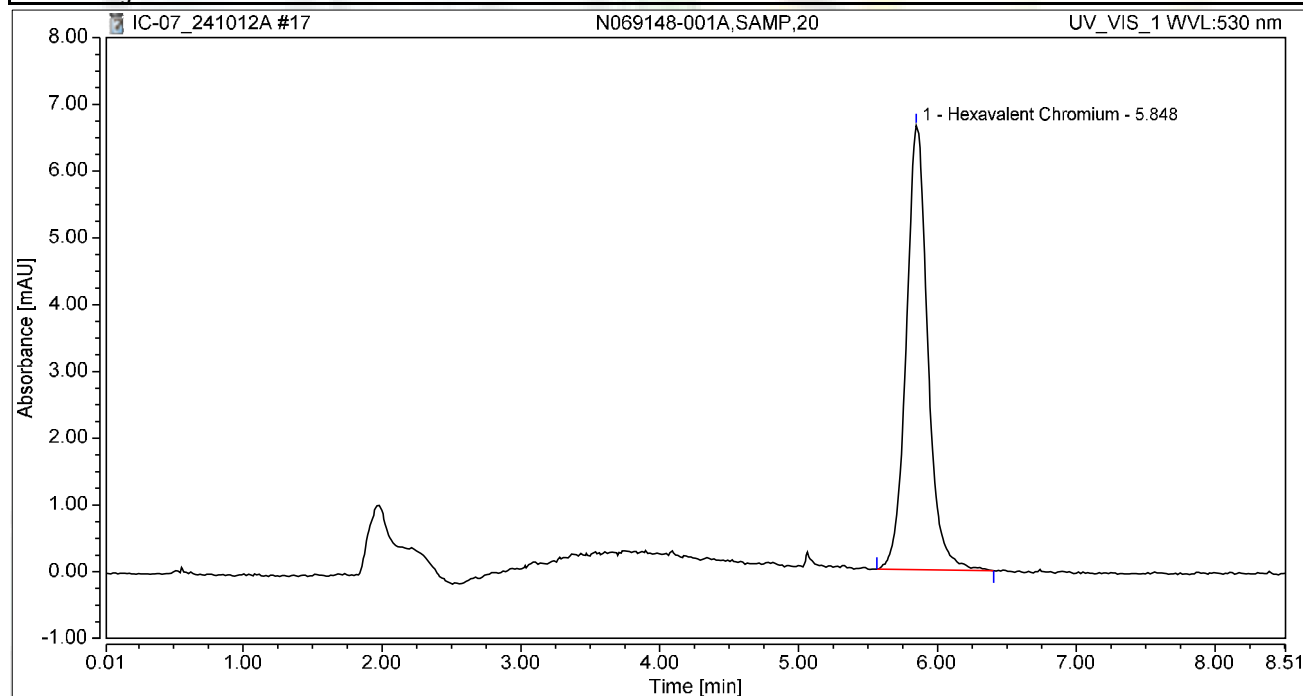
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069148-001A,SAMP,20	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 07:48	Sample Weight:	1.0000

Chromatogram



Integration Results

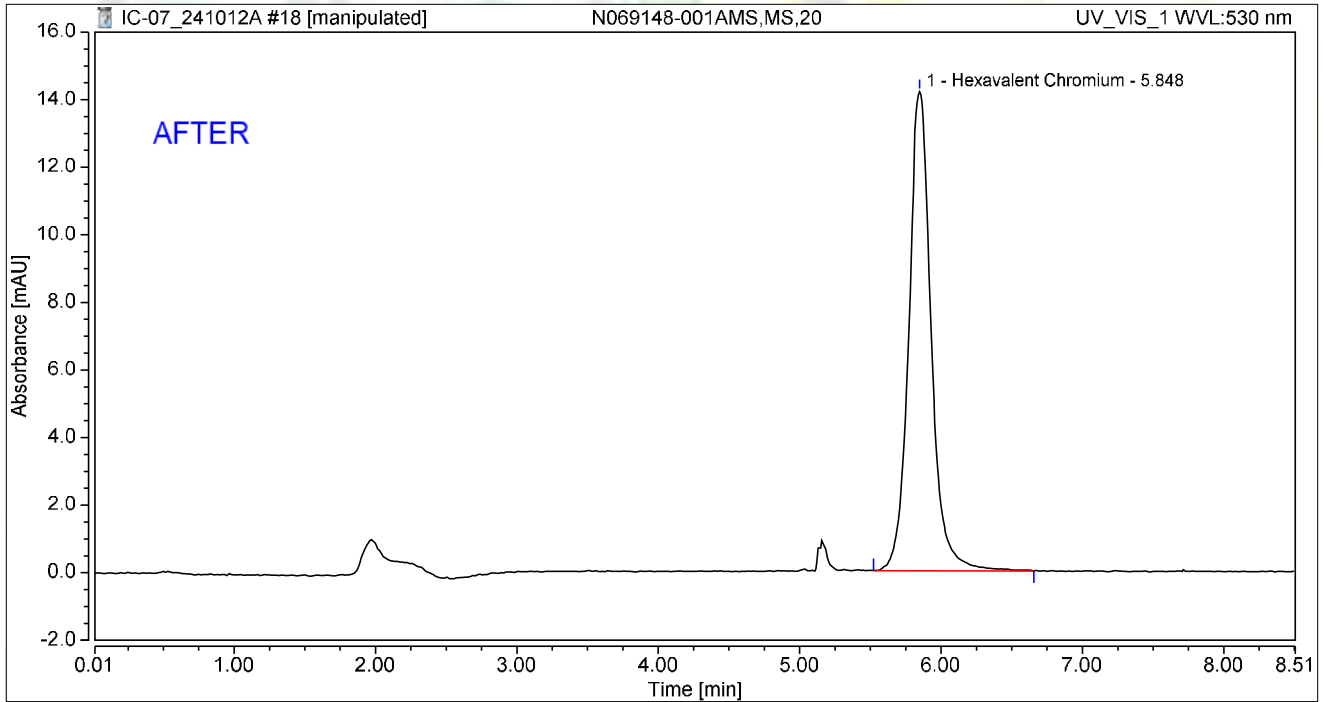
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.848	1.196	6.654	100.00	100.00	4.4053
Total:			1.196	6.654	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069148-001AMS,MS,20	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 07:58	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.848	2.592	14.182	100.00	100.00	9.5473
Total:			2.592	14.182	100.00	100.00	

Reviewed by:

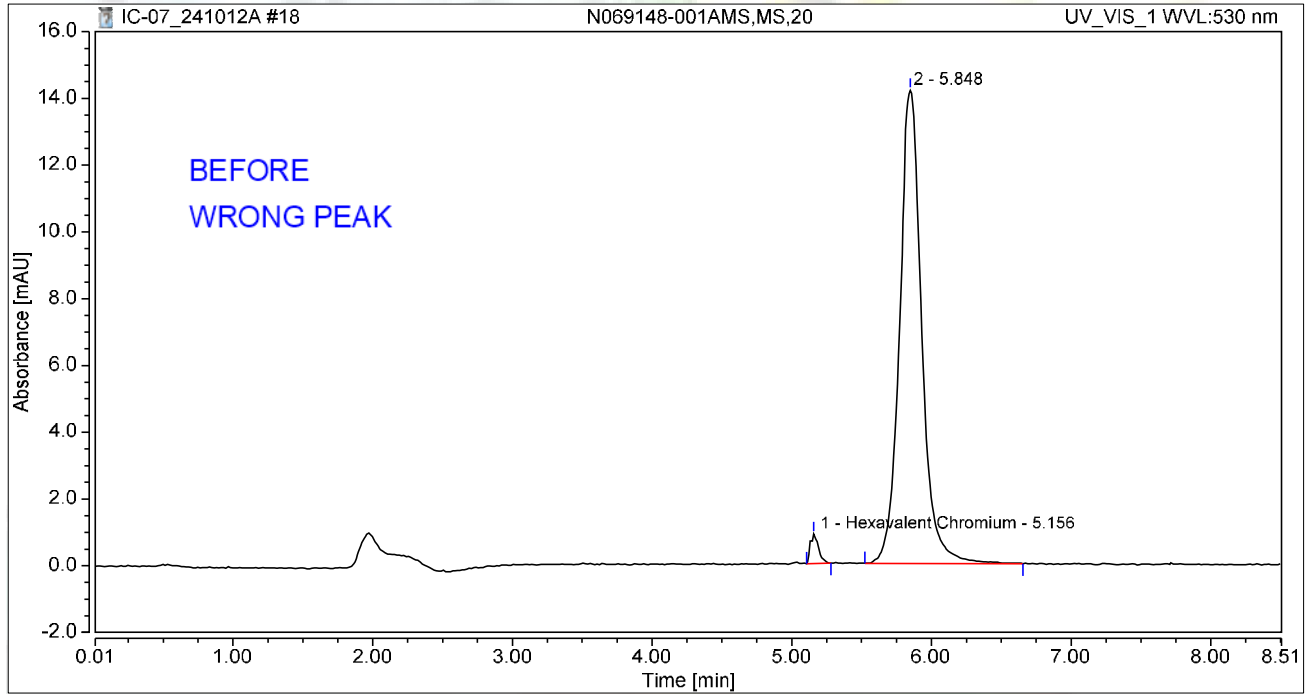
M. Rocha 10/24/2024

Chromatogram and Results

Injection Details

Injection Name:	N069148-001AMS,MS,20	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 07:58	Sample Weight:	1.0000

Chromatogram



Integration Results

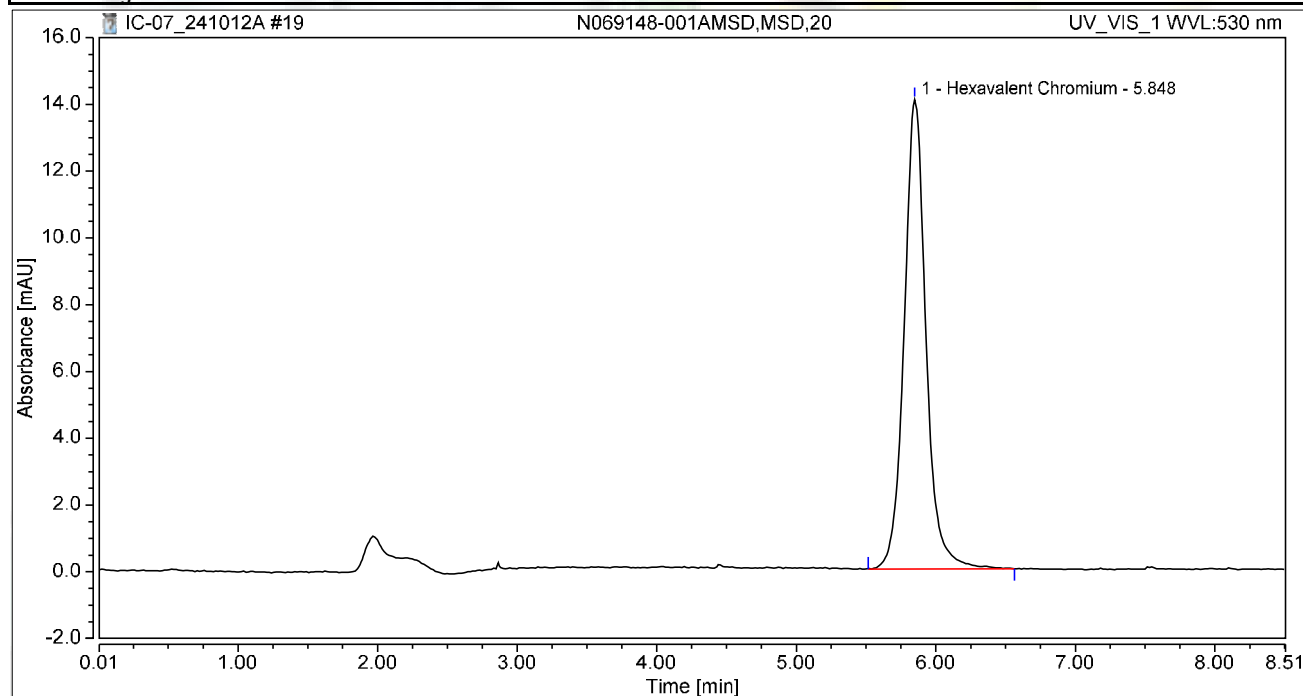
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.156	0.061	0.890	2.29	5.90	0.2233
2		5.848	2.592	14.182	97.71	94.10	n.a.
Total:			2.653	15.072	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069148-001AMSD,MSD,20	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 08:07	Sample Weight:	1.0000

Chromatogram



Integration Results

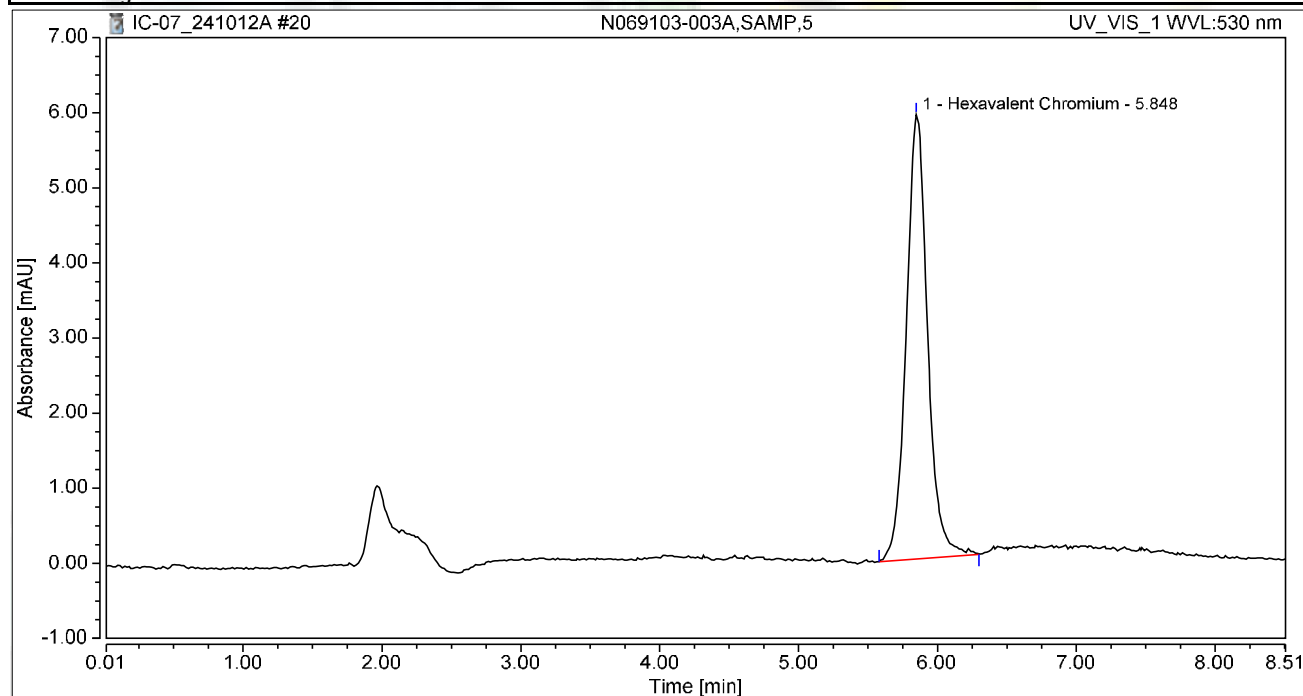
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.848	2.549	14.060	100.00	100.00	9.3896
Total:			2.549	14.060	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069103-003A,SAMP,5	Run Time (min):	8.49
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 08:16	Sample Weight:	1.0000

Chromatogram



Integration Results

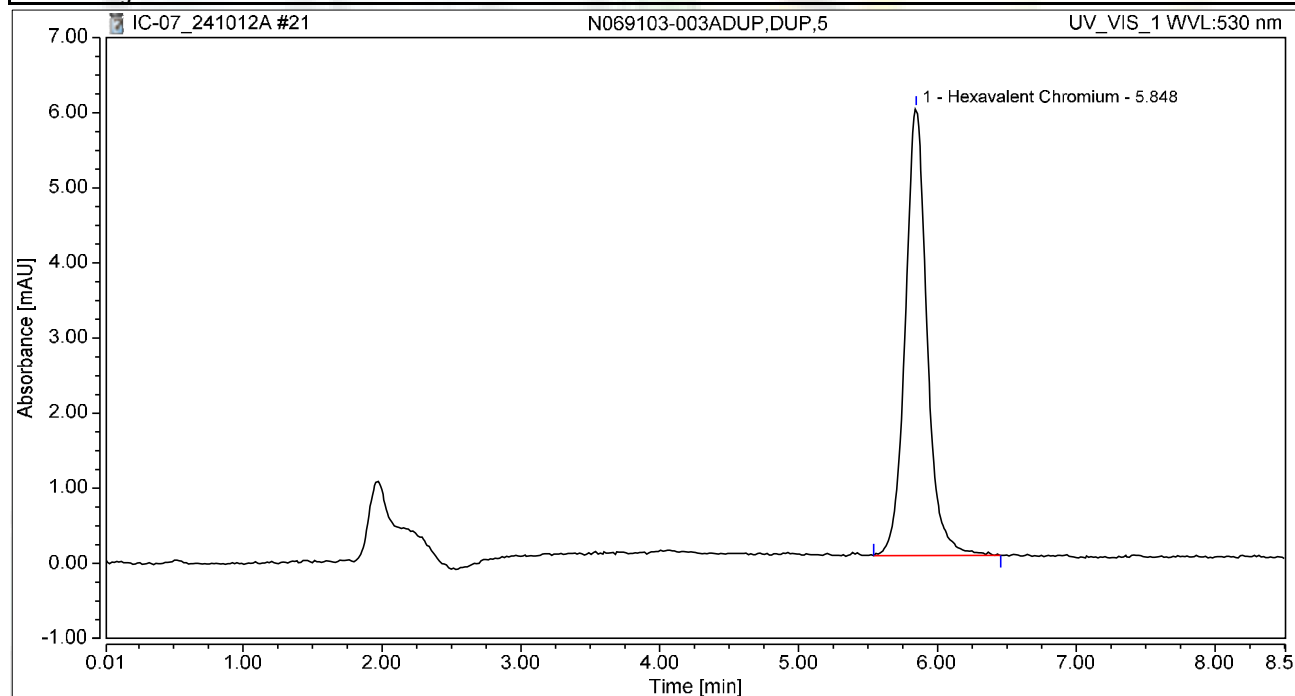
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.848	1.049	5.912	100.00	100.00	3.8646
Total:			1.049	5.912	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069103-003ADUP,DUP,5	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 08:37	Sample Weight:	1.0000

Chromatogram



Integration Results

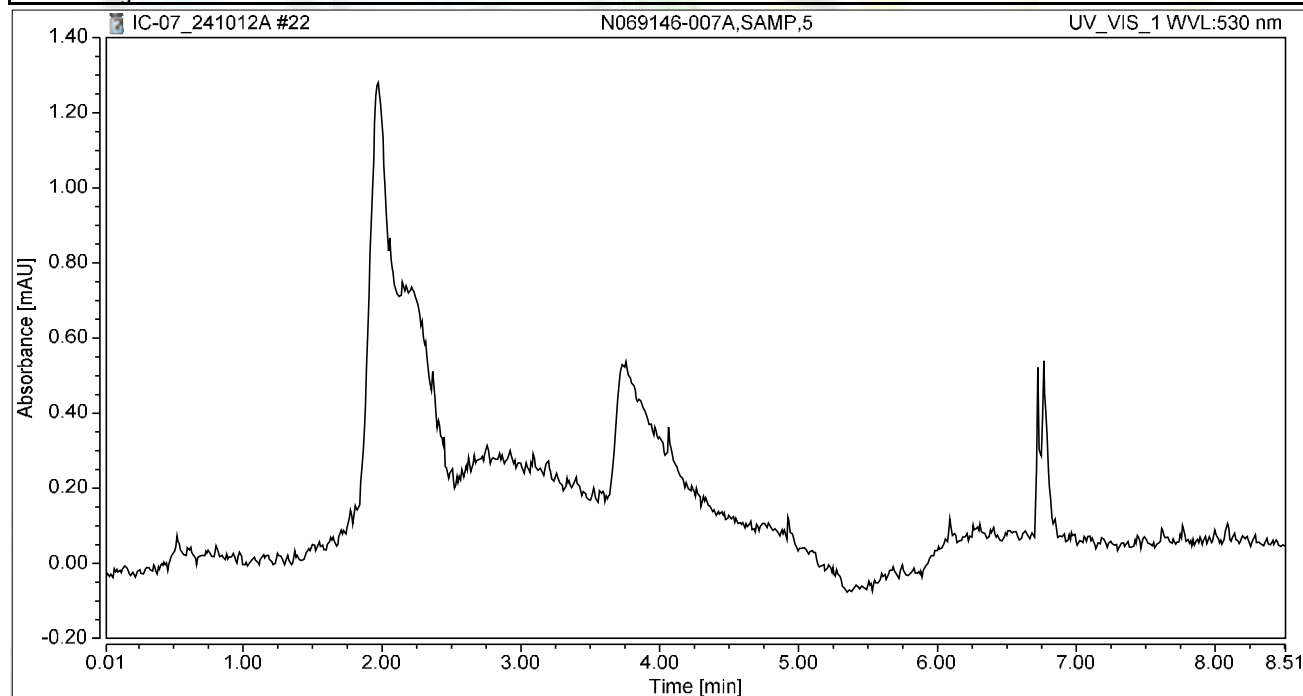
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.848	1.083	5.959	100.00	100.00	3.9906
Total:			1.083	5.959	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-007A,SAMP,5	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 08:49	Sample Weight:	1.0000

Chromatogram



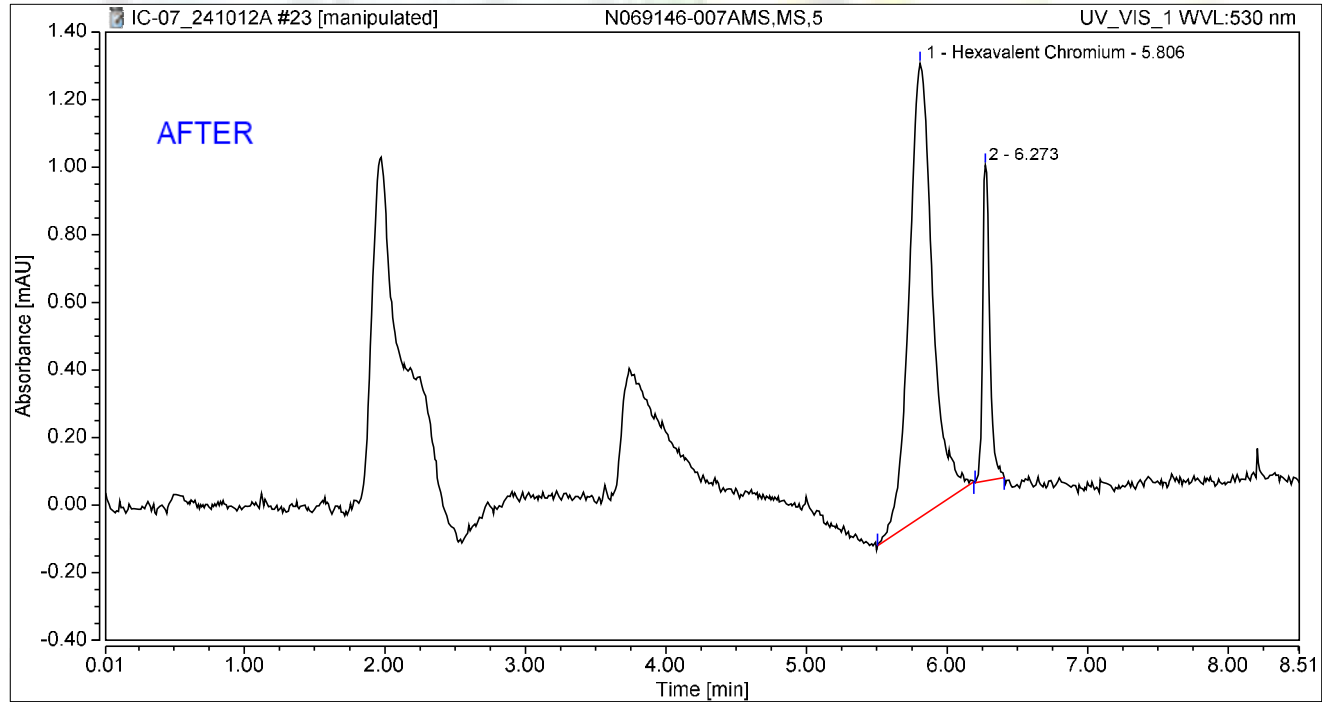
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069146-007AMS,MS,5	Run Time (min): 8.49
Vial Number:	3	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Oct/24 08:58	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.806	0.260	1.343	82.74	58.99	0.9593
2		6.273	0.054	0.934	17.26	41.01	n.a.
Total:			0.315	2.277	100.00	100.00	

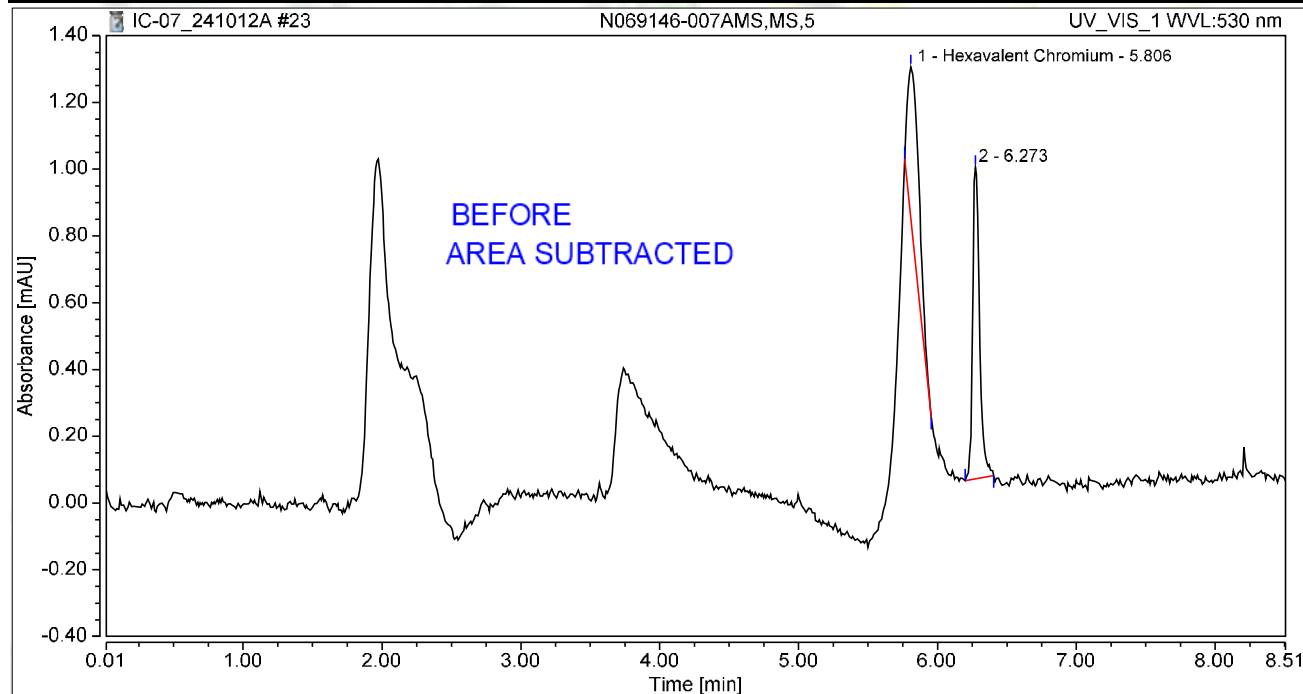
Reviewed by:

d/Rocha 10/24/2024

Chromatogram and Results

Injection Details		
Injection Name:	N069146-007AMS,MS,5	Run Time (min): 8.49
Vial Number:	3	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Oct/24 08:58	Sample Weight: 1.0000

Chromatogram

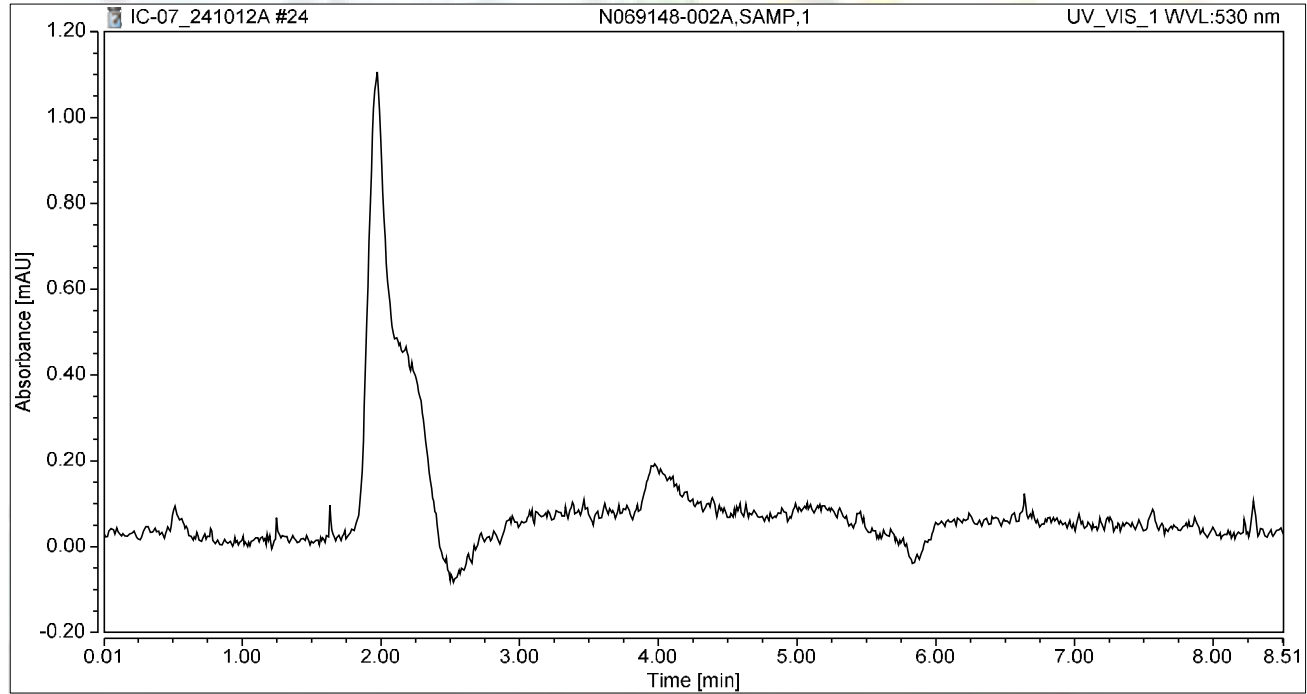


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.806	0.047	0.443	46.29	32.18	0.1725
2		6.273	0.054	0.934	53.71	67.82	n.a.
Total:			0.101	1.377	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069148-002A,SAMP,1	Run Time (min): 8.50
Vial Number:	4	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Oct/24 09:08	Sample Weight: 1.0000

Chromatogram



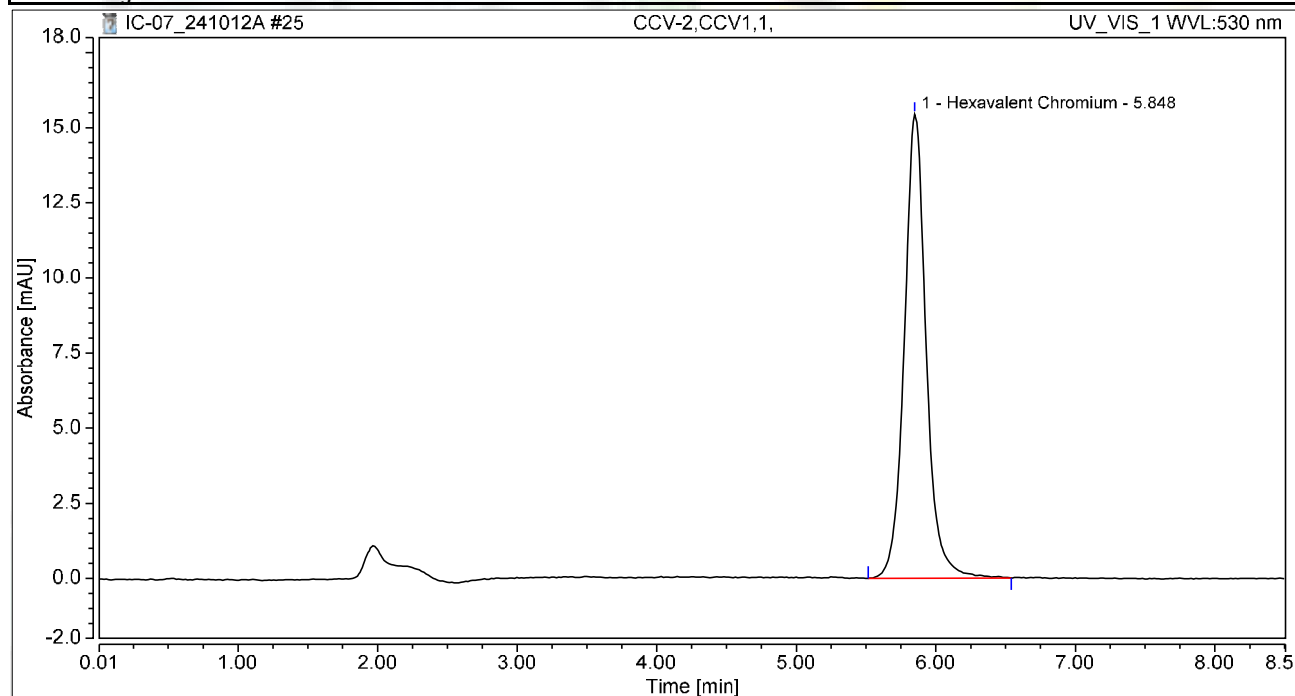
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-2,CCV1,1,	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 10:50	Sample Weight:	1.0000

Chromatogram



Integration Results

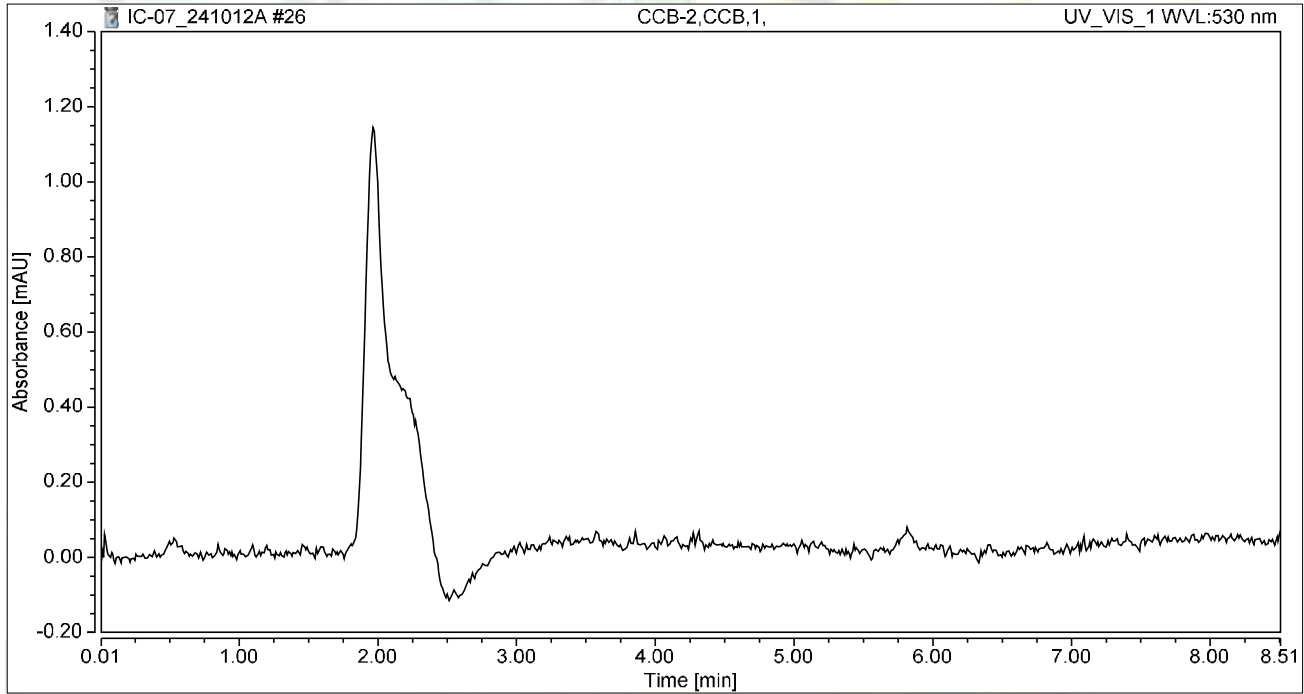
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.848	2.805	15.440	100.00	100.00	10.3311
Total:			2.805	15.440	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-2,CCB,1,	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 11:01	Sample Weight:	1.0000

Chromatogram



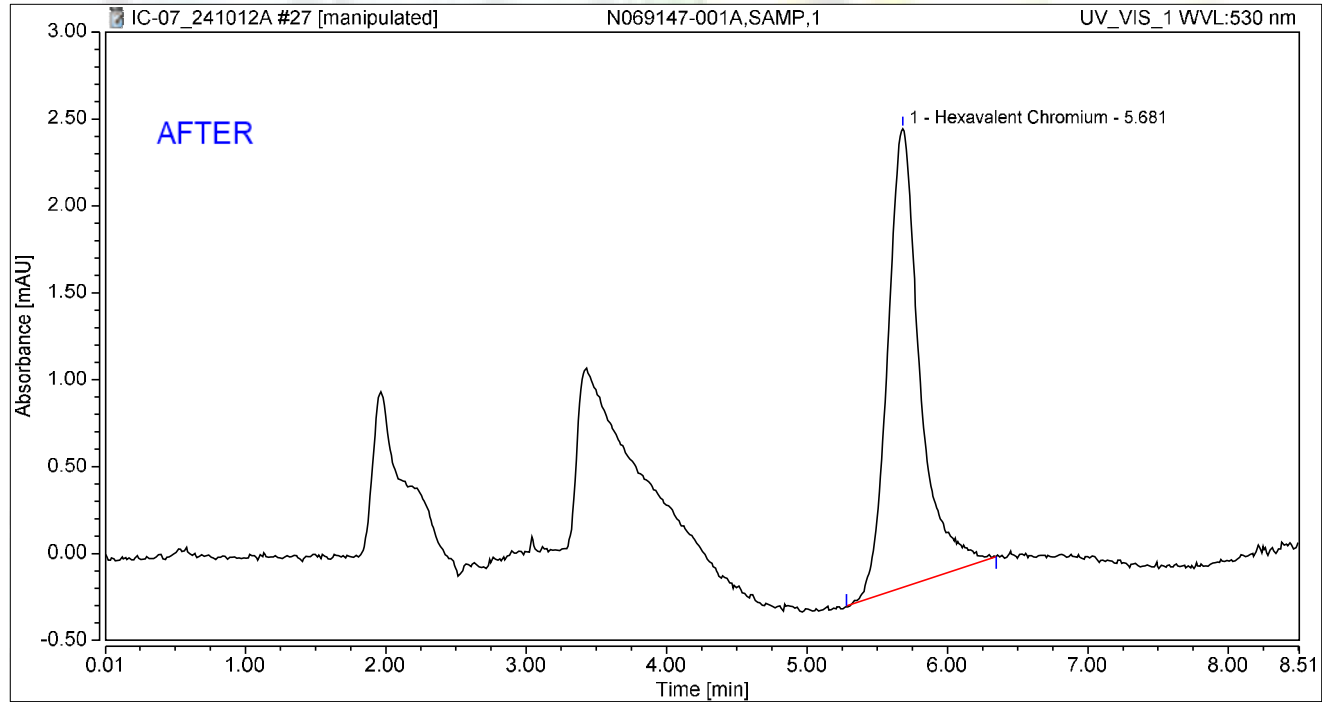
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069147-001A,SAMP,1	Run Time (min): 8.50
Vial Number:	3	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Oct/24 11:10	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.702	2.641	100.00	100.00	2.5848
Total:			0.702	2.641	100.00	100.00	

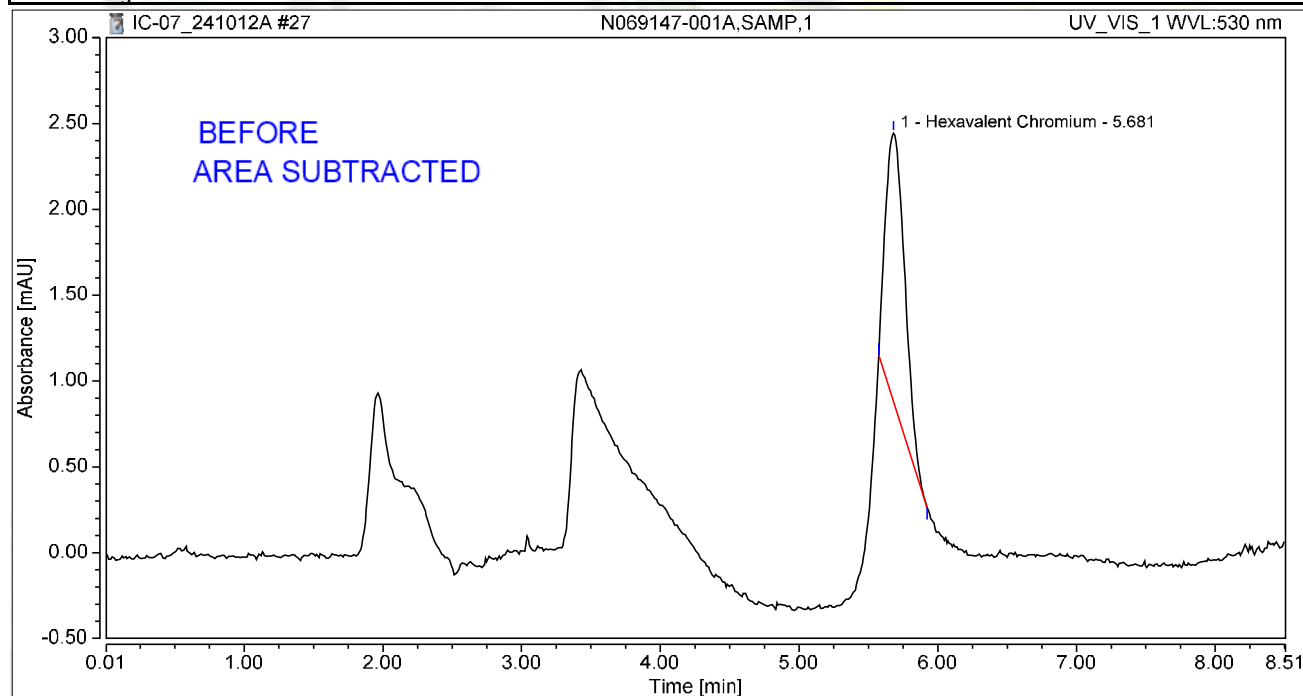
Reviewed by:

d/Rocha 10/24/2024

Chromatogram and Results

Injection Details		
Injection Name:	N069147-001A,SAMP,1	Run Time (min): 8.50
Vial Number:	3	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Oct/24 11:10	Sample Weight: 1.0000

Chromatogram

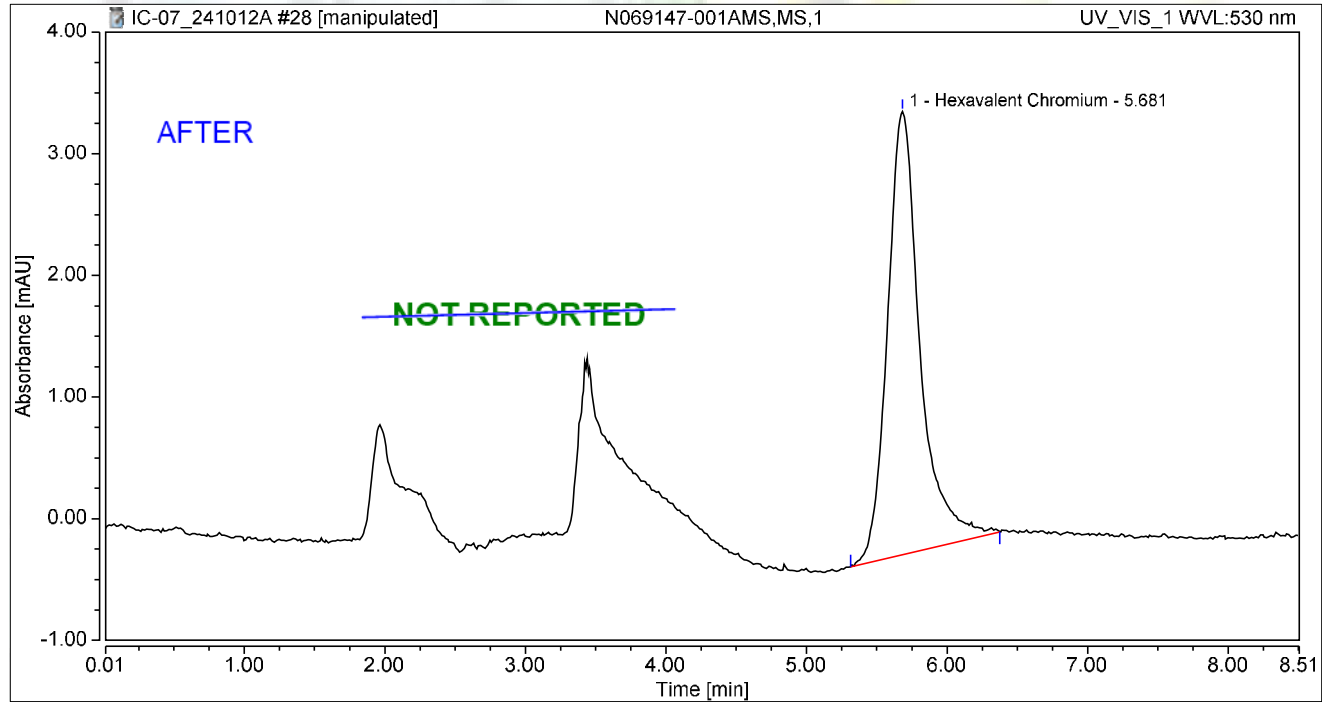


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.253	1.568	100.00	100.00	0.9318
Total:			0.253	1.568	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069147-001AMS,MS,1	Run Time (min): 8.49
Vial Number:	4	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Oct/24 11:20	Sample Weight: 1.0000

Chromatogram



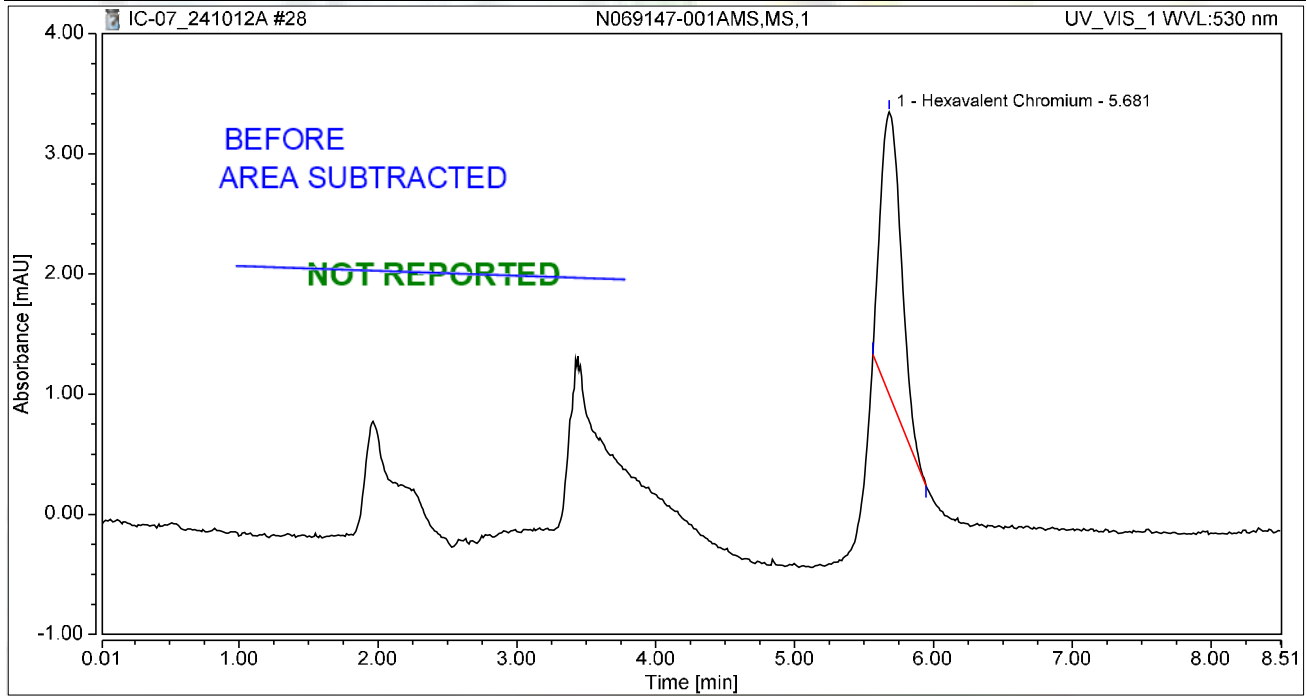
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.980	3.644	100.00	100.00	3.6113
Total:			0.980	3.644	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-001AMS,MS,1	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 11:20	Sample Weight:	1.0000

Chromatogram



Integration Results

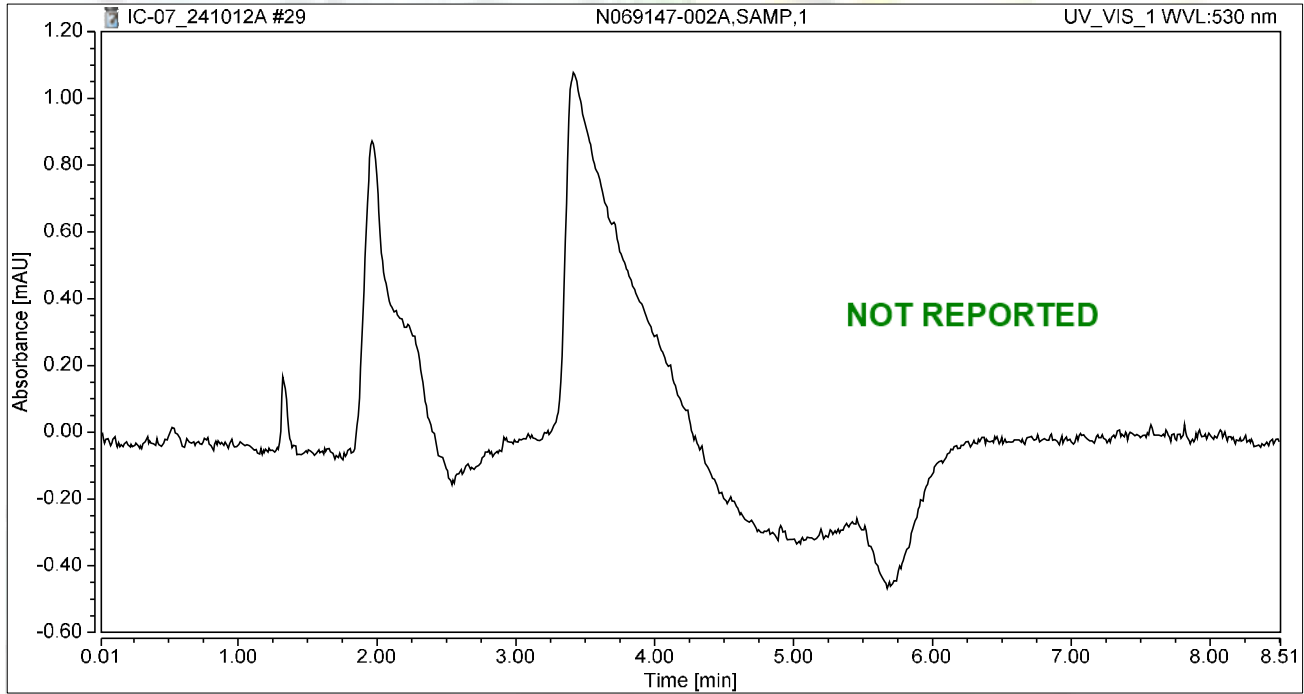
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.409	2.347	100.00	100.00	1.5054
Total:			0.409	2.347	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-002A,SAMP,1	Run Time (min):	8.49
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 11:29	Sample Weight:	1.0000

Chromatogram



Integration Results

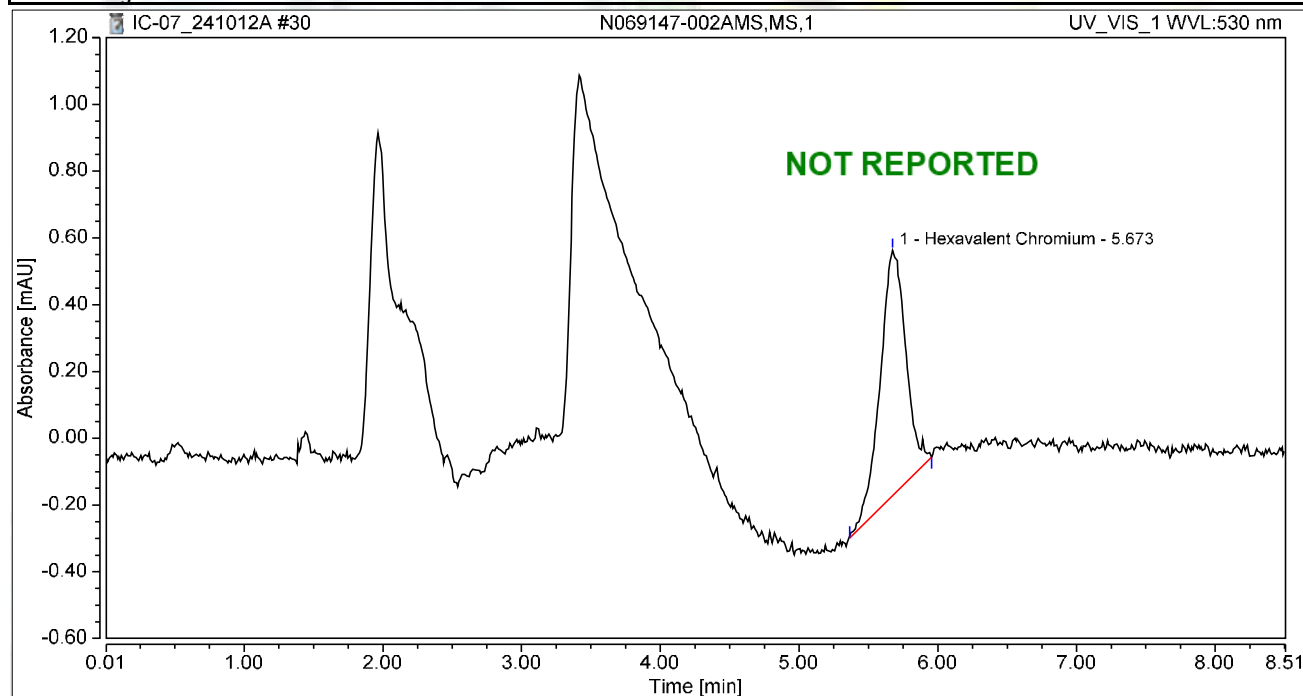
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 11:39	Sample Weight:	1.0000

Chromatogram



Integration Results

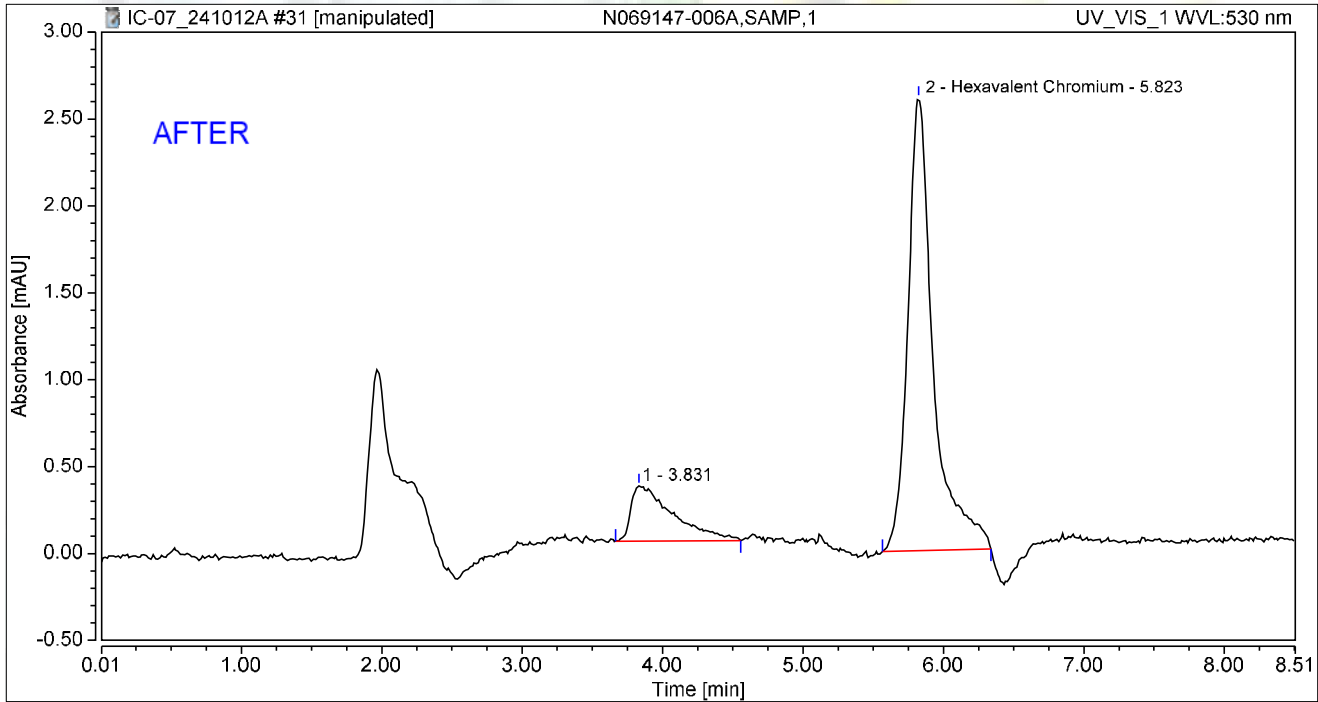
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.157	0.735	100.00	100.00	0.5785
Total:			0.157	0.735	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-006A,SAMP,1	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 11:48	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.831	0.111	0.318	16.92	10.88	n.a.
2	Hexavalent Chromium	5.823	0.546	2.604	83.08	89.12	2.0100
Total:			0.657	2.922	100.00	100.00	

Reviewed by:

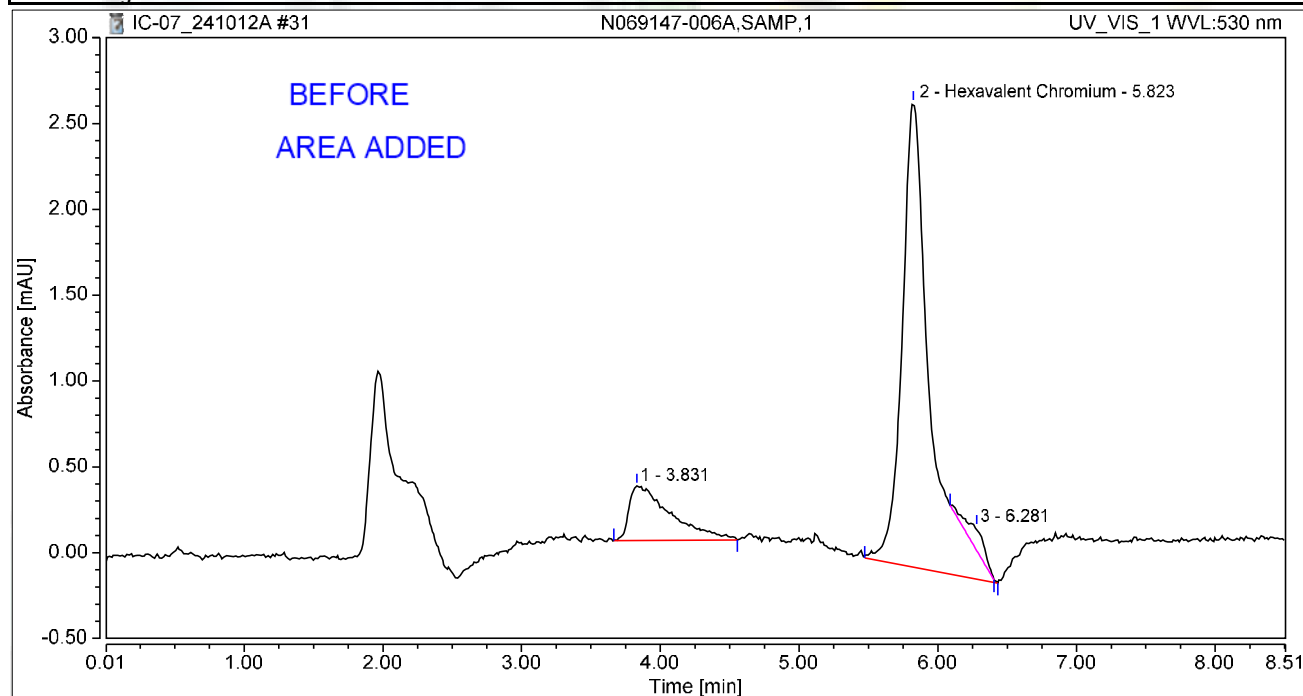
d/Rocha 10/24/2024

Chromatogram and Results

Injection Details

Injection Name:	N069147-006A,SAMP,1	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 11:48	Sample Weight:	1.0000

Chromatogram



Integration Results

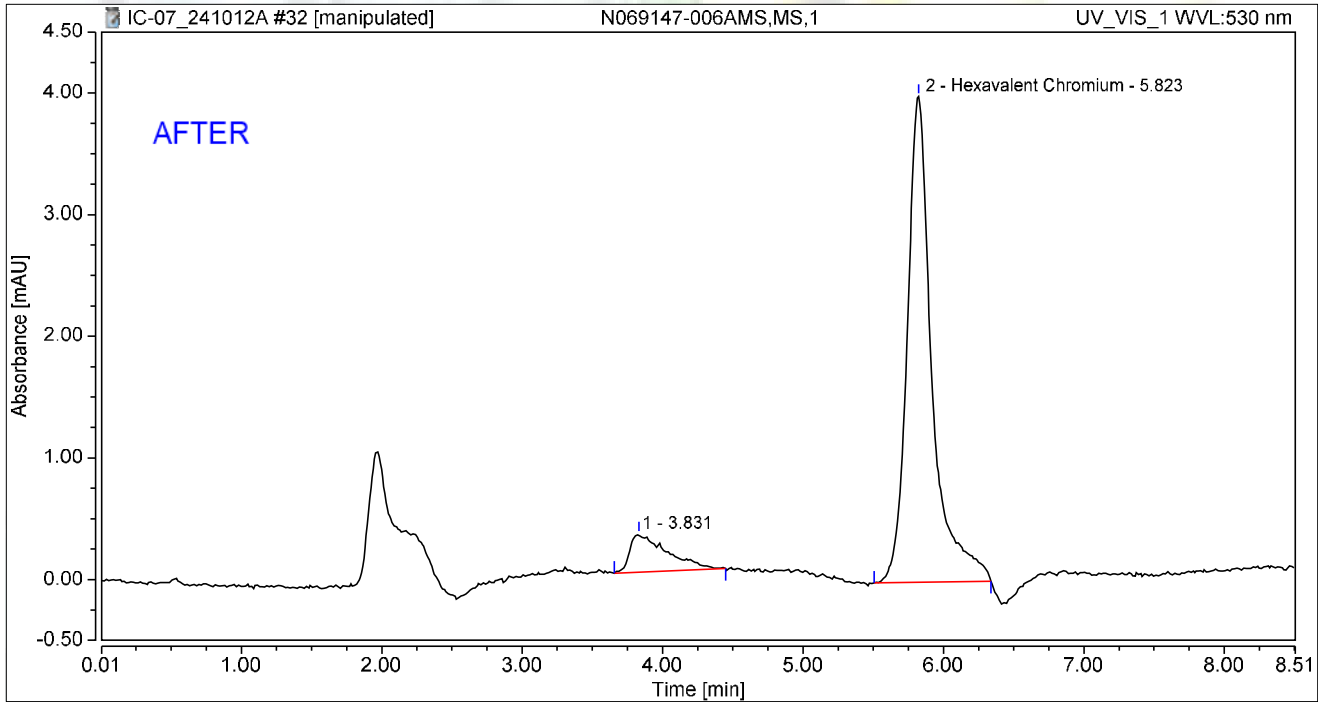
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.831	0.111	0.318	14.58	10.05	n.a.
2	Hexavalent Chromium	5.823	0.629	2.705	82.60	85.60	2.3187
3		6.281	0.021	0.137	2.82	4.34	n.a.
Total:			0.762	3.161	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-006AMS,MS,1	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 11:58	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.831	0.095	0.314	10.49	7.29	n.a.
2	Hexavalent Chromium	5.823	0.814	3.995	89.51	92.71	2.9993
Total:			0.910	4.309	100.00	100.00	

Reviewed by:

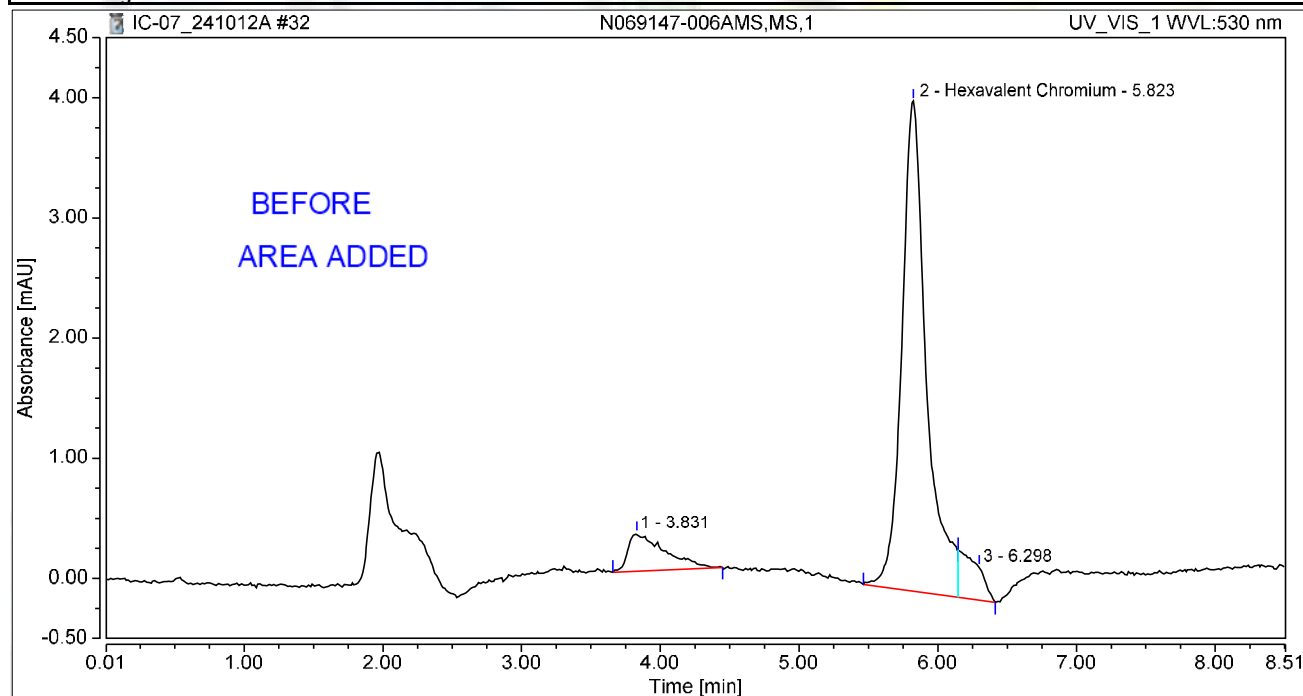
d/Rocha 10/24/2024

Chromatogram and Results

Injection Details

Injection Name:	N069147-006AMS,MS,1	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 11:58	Sample Weight:	1.0000

Chromatogram



Integration Results

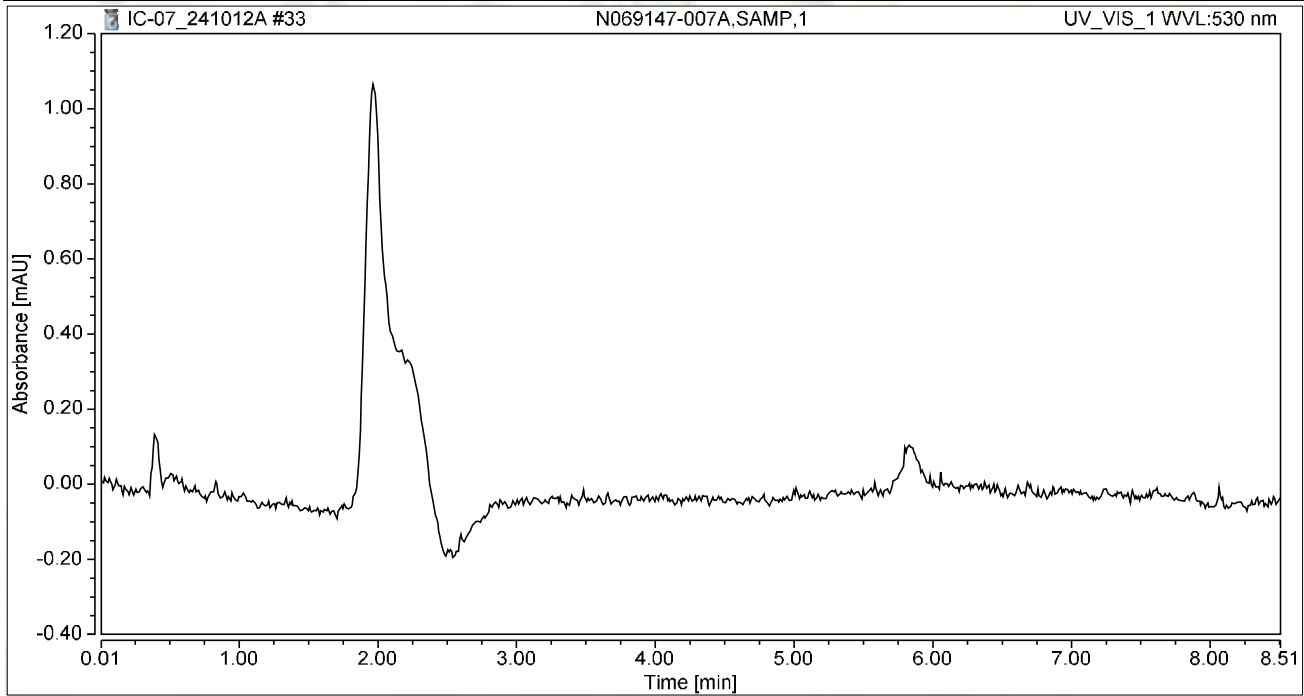
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.831	0.095	0.314	9.55	6.73	n.a.
2	Hexavalent Chromium	5.823	0.838	4.078	83.83	87.35	3.0881
3		6.298	0.066	0.276	6.62	5.92	n.a.
Total:			1.000	4.668	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-007A,SAMP,1	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 12:07	Sample Weight:	1.0000

Chromatogram



Integration Results

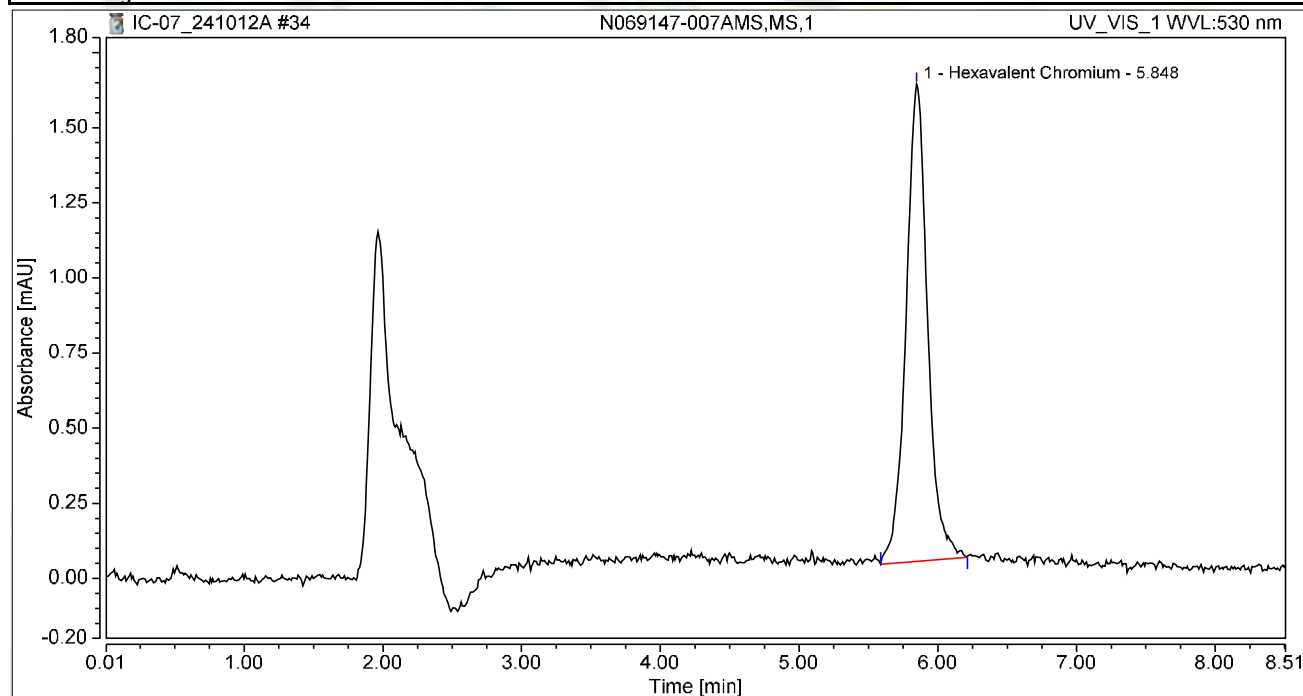
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-007AMS,MS,1	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 12:17	Sample Weight:	1.0000

Chromatogram



Integration Results

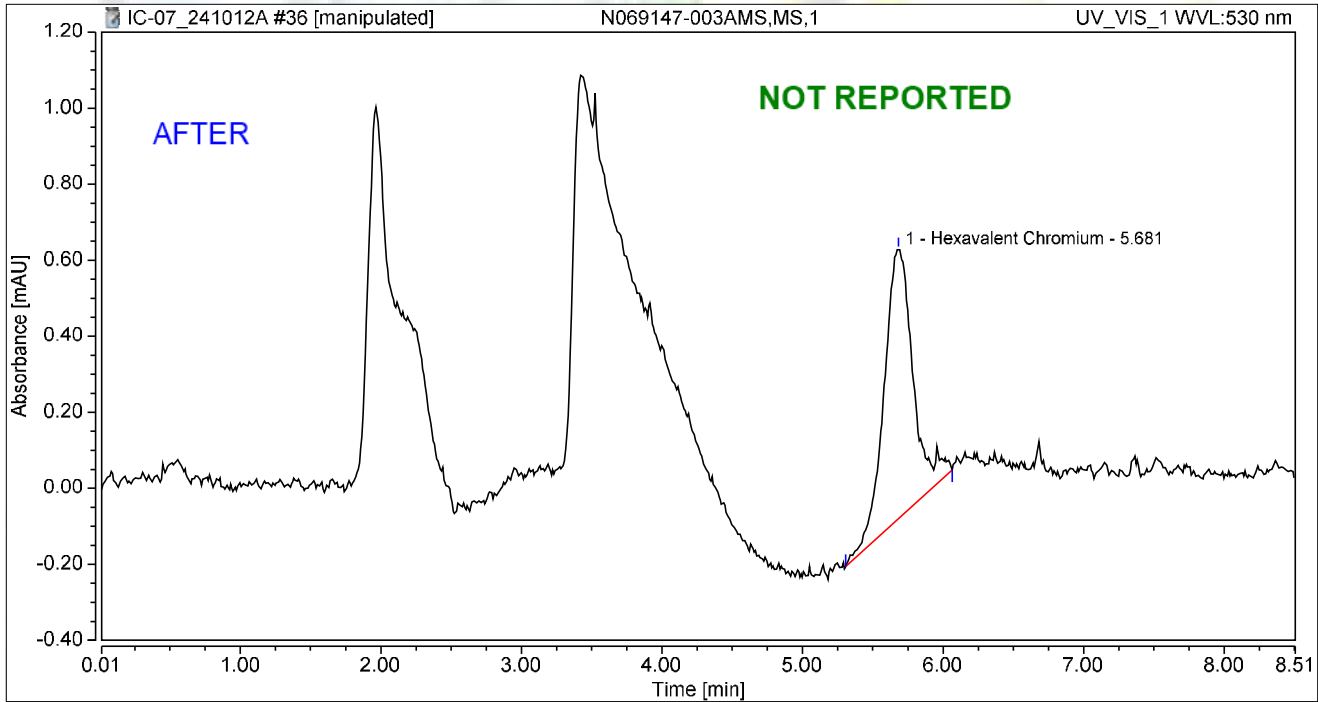
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.848	0.285	1.588	100.00	100.00	1.0508
Total:			0.285	1.588	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-003AMS,MS,1	Run Time (min):	8.49
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 12:36	Sample Weight:	1.0000

Chromatogram



Integration Results

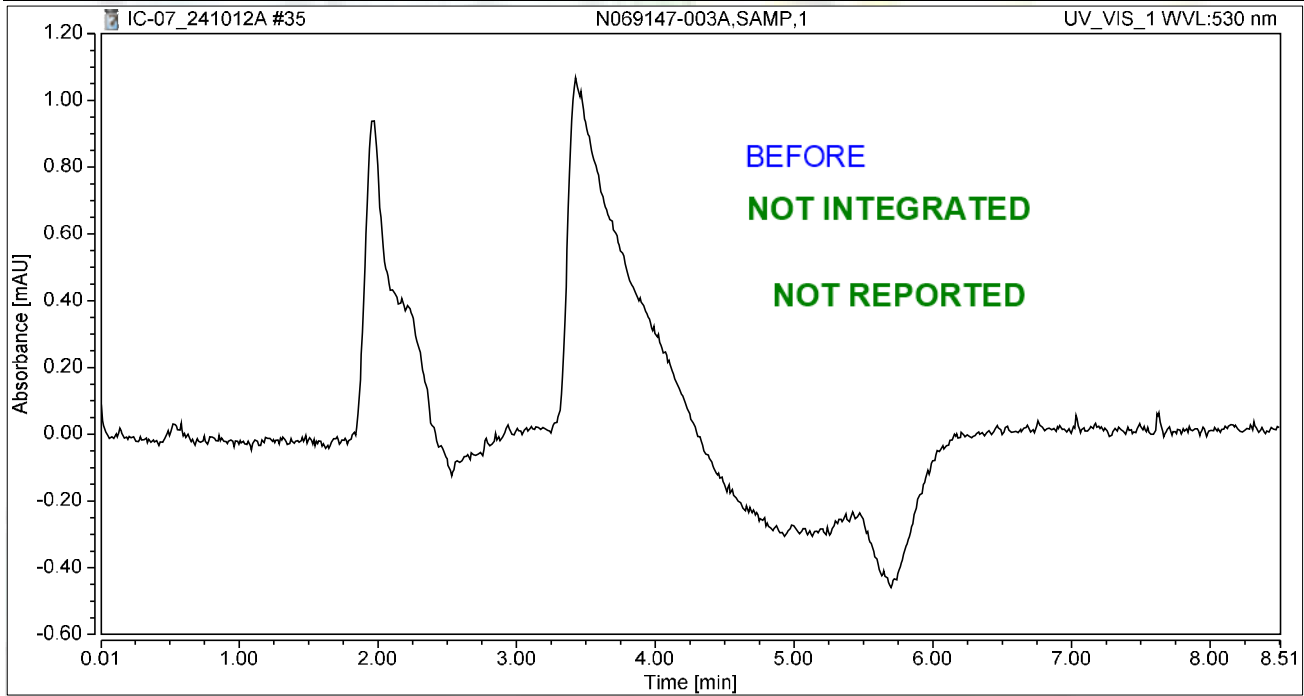
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.170	0.708	100.00	100.00	0.6269
Total:			0.170	0.708	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 12:26	Sample Weight:	1.0000

Chromatogram



Integration Results

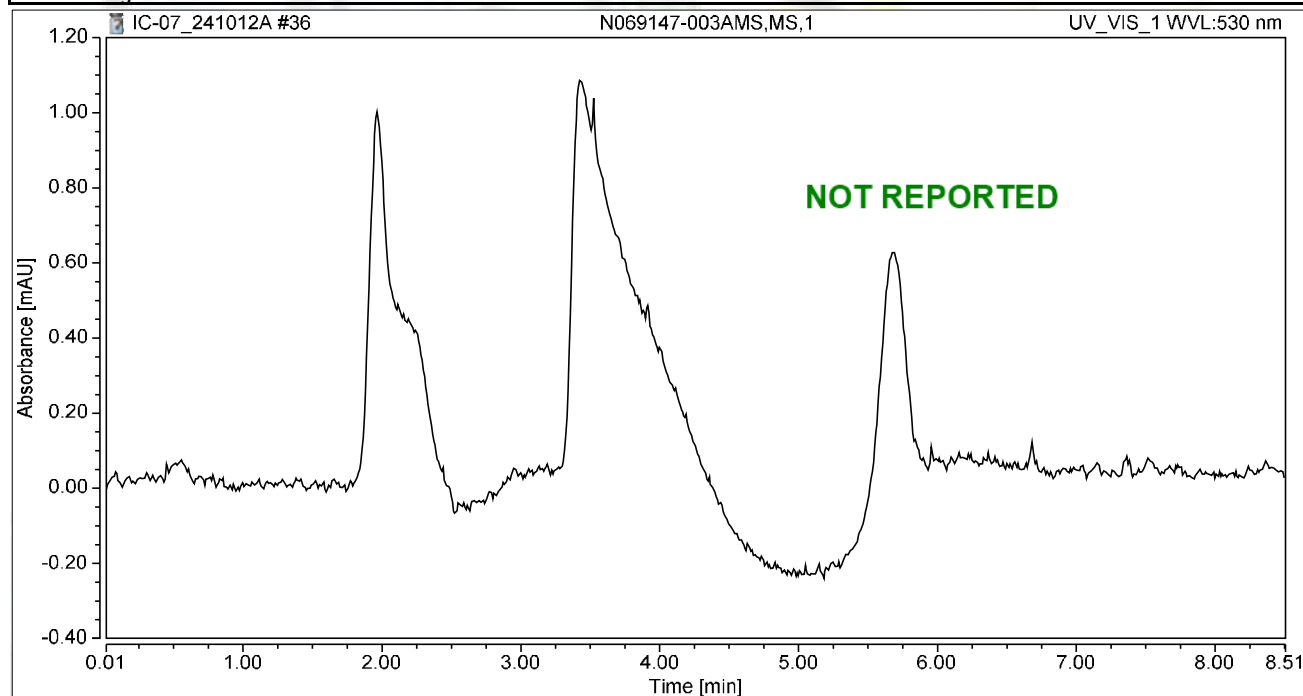
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-003AMS,MS,1	Run Time (min):	8.49
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 12:36	Sample Weight:	1.0000

Chromatogram



Integration Results

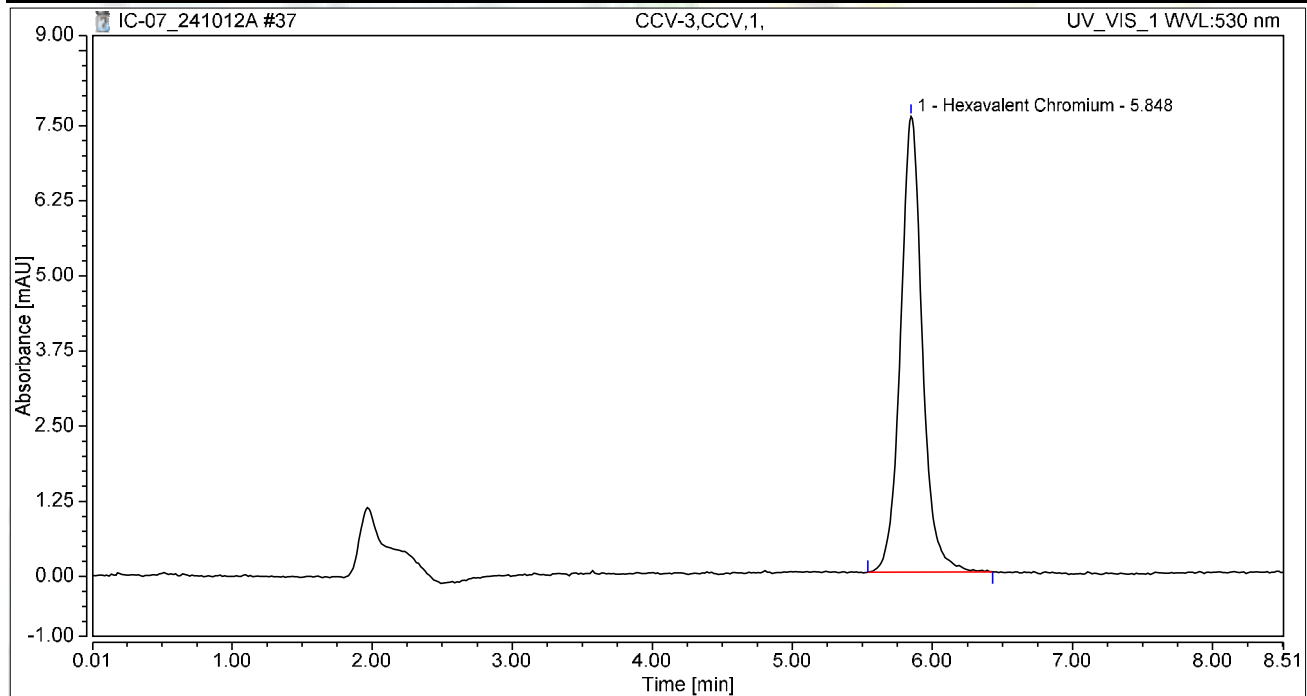
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-3,CCV,1,	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 12:45	Sample Weight:	1.0000

Chromatogram



Integration Results

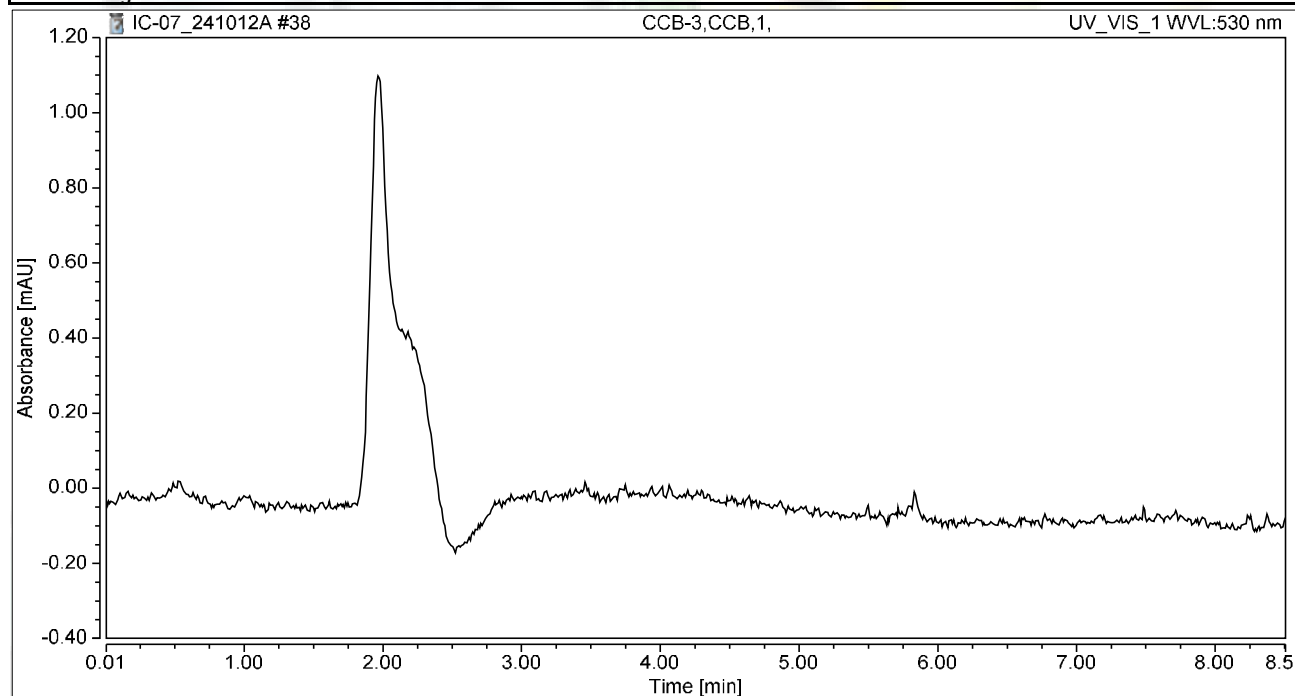
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.848	1.369	7.585	100.00	100.00	5.0444
Total:			1.369	7.585	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-3,CCB,1,	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 12:54	Sample Weight:	1.0000

Chromatogram



Integration Results

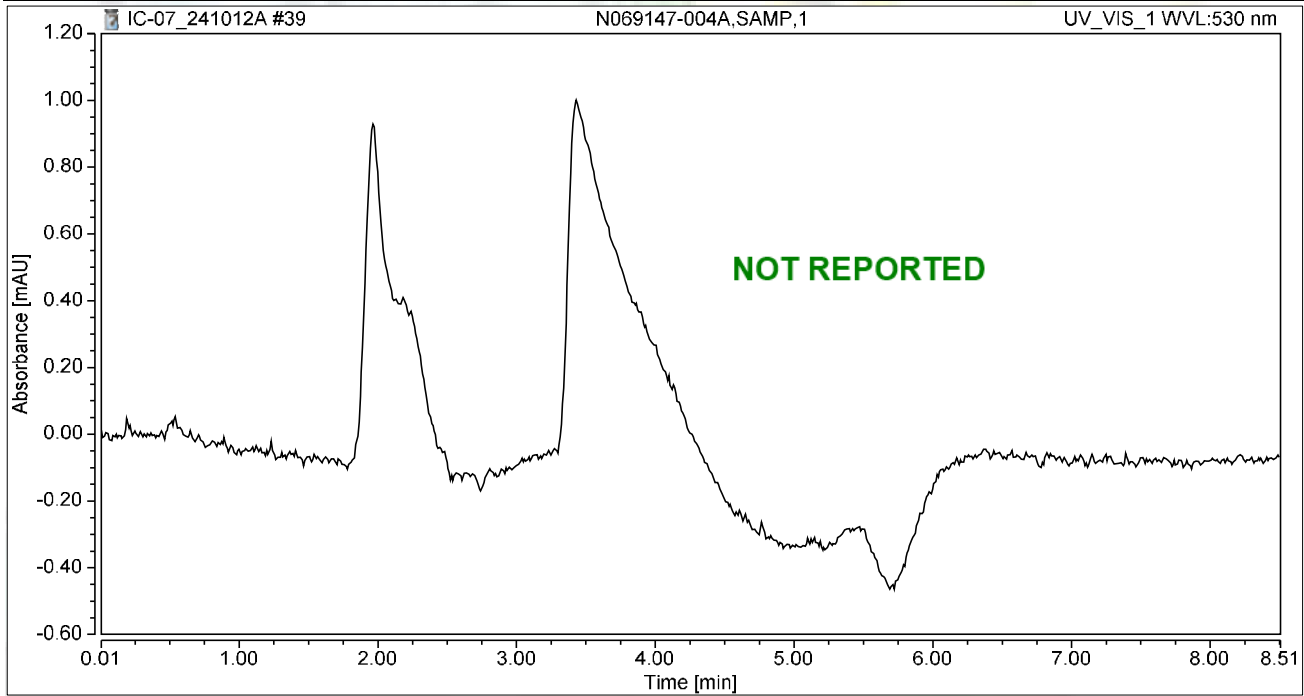
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-004A,SAMP,1	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 13:04	Sample Weight:	1.0000

Chromatogram



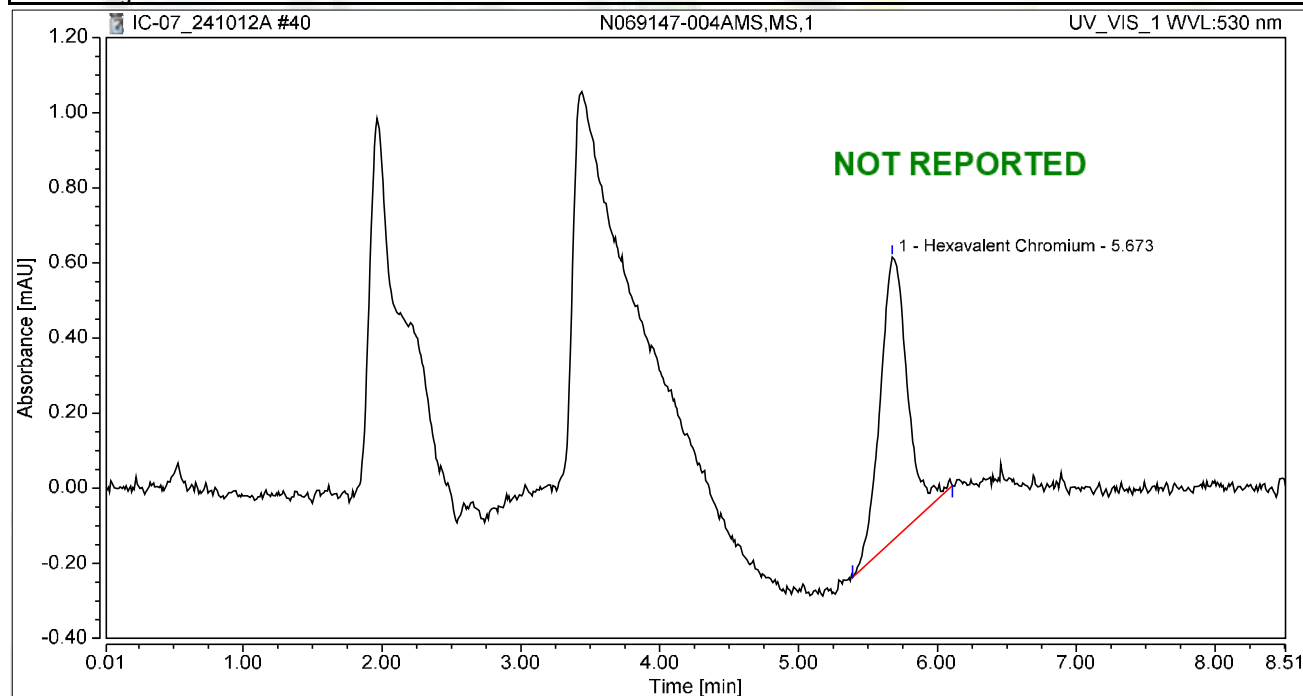
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069147-004AMS,MS,1	Run Time (min): 8.49
Vial Number:	16	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Oct/24 13:13	Sample Weight: 1.0000

Chromatogram



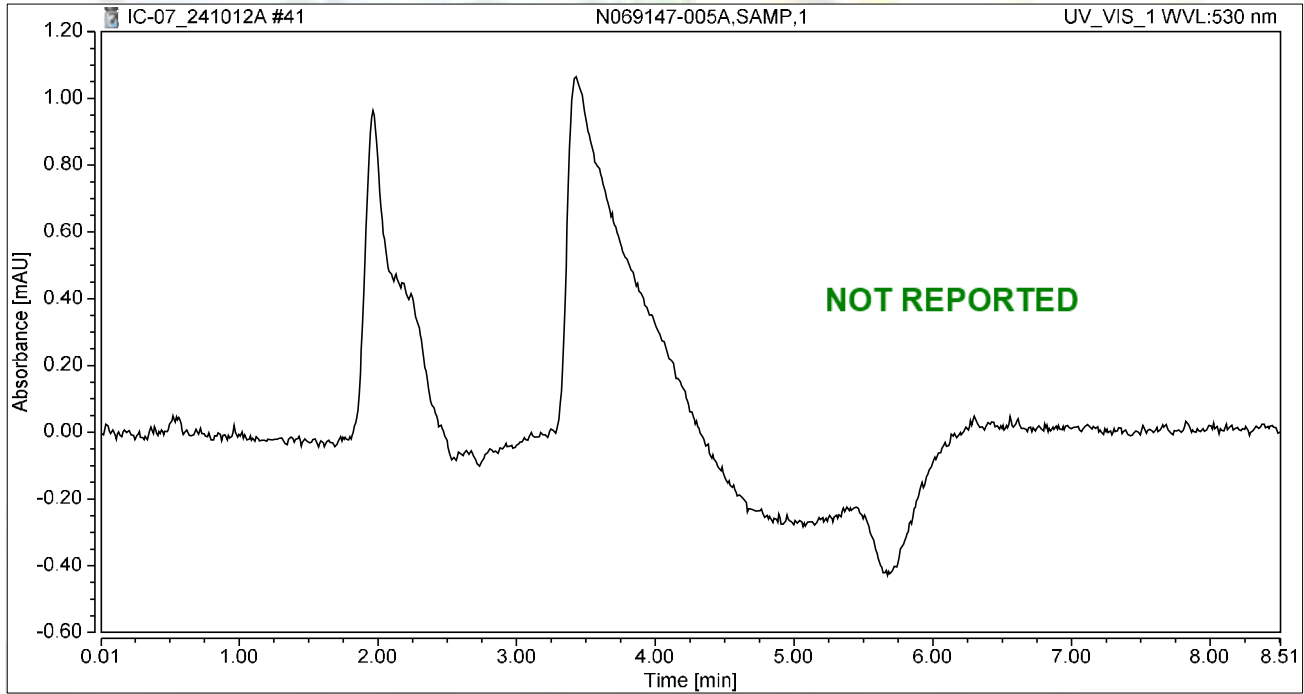
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.171	0.756	100.00	100.00	0.6300
Total:			0.171	0.756	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 13:23	Sample Weight:	1.0000

Chromatogram



Integration Results

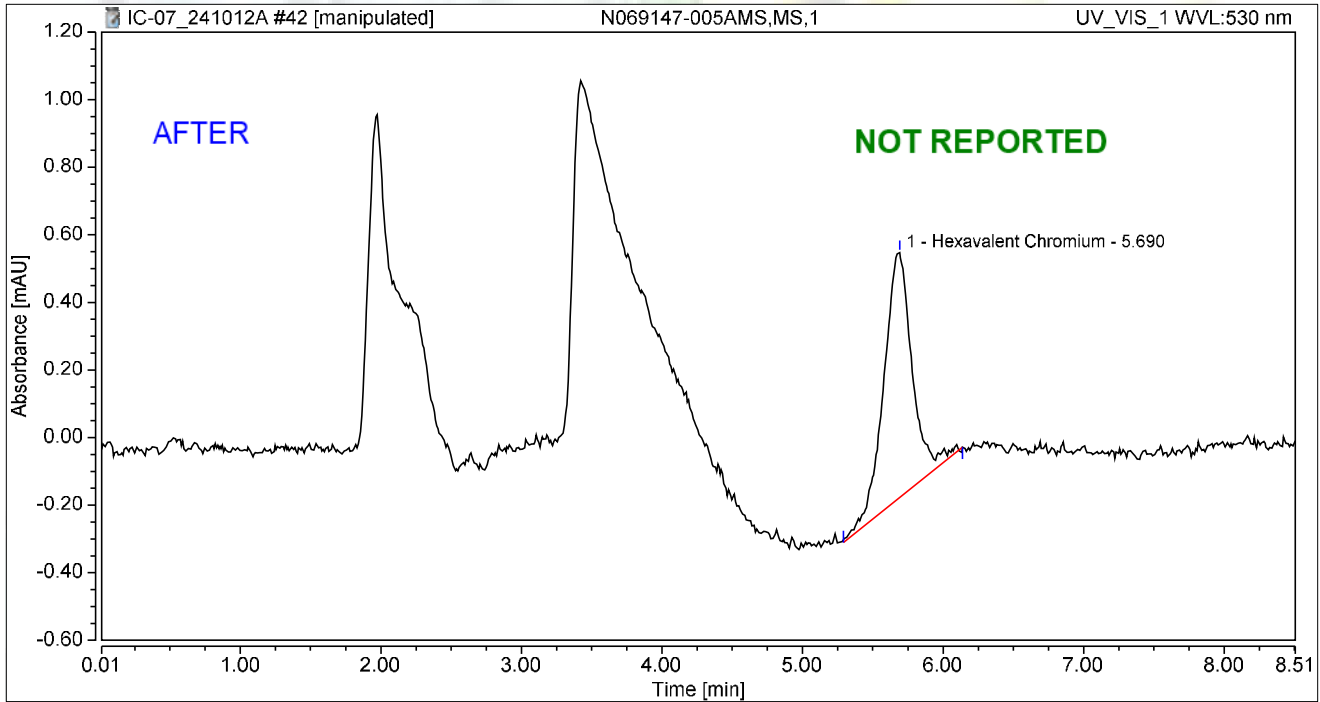
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-005AMS,MS,1	Run Time (min):	8.49
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 13:32	Sample Weight:	1.0000

Chromatogram



Integration Results

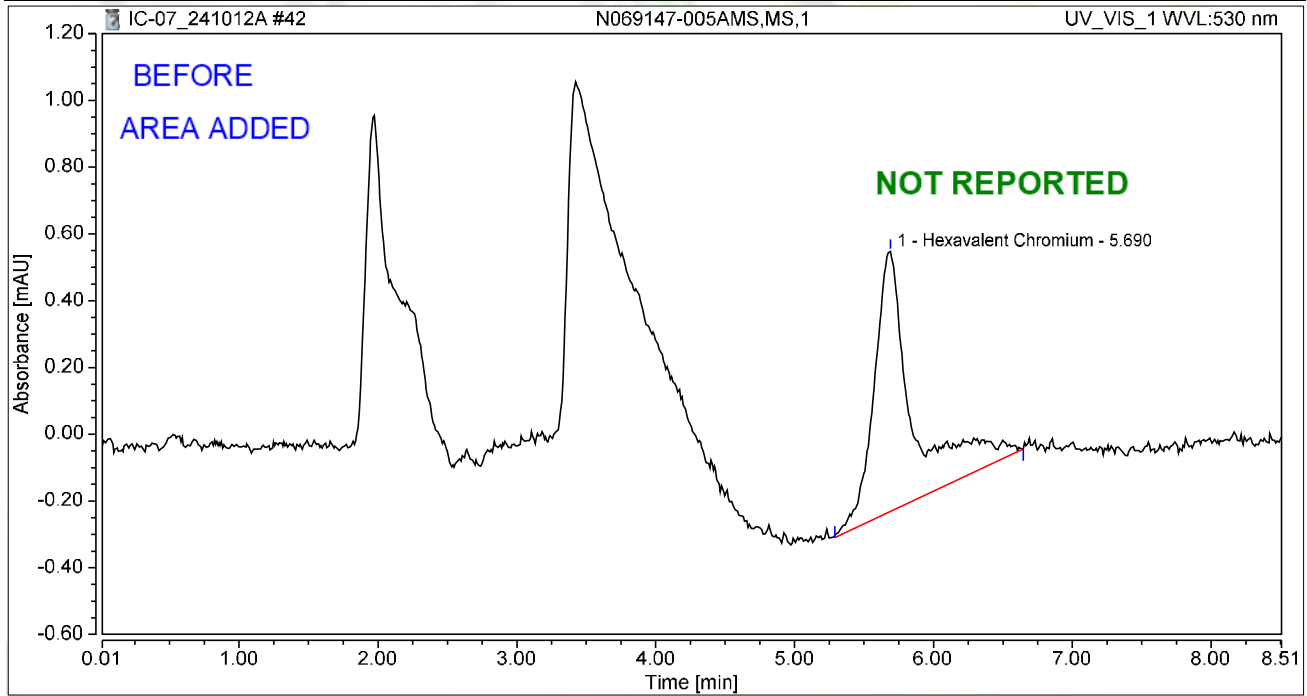
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.170	0.725	100.00	100.00	0.6268
Total:			0.170	0.725	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-005AMS,MS,1	Run Time (min):	8.49
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 13:32	Sample Weight:	1.0000

Chromatogram



Integration Results

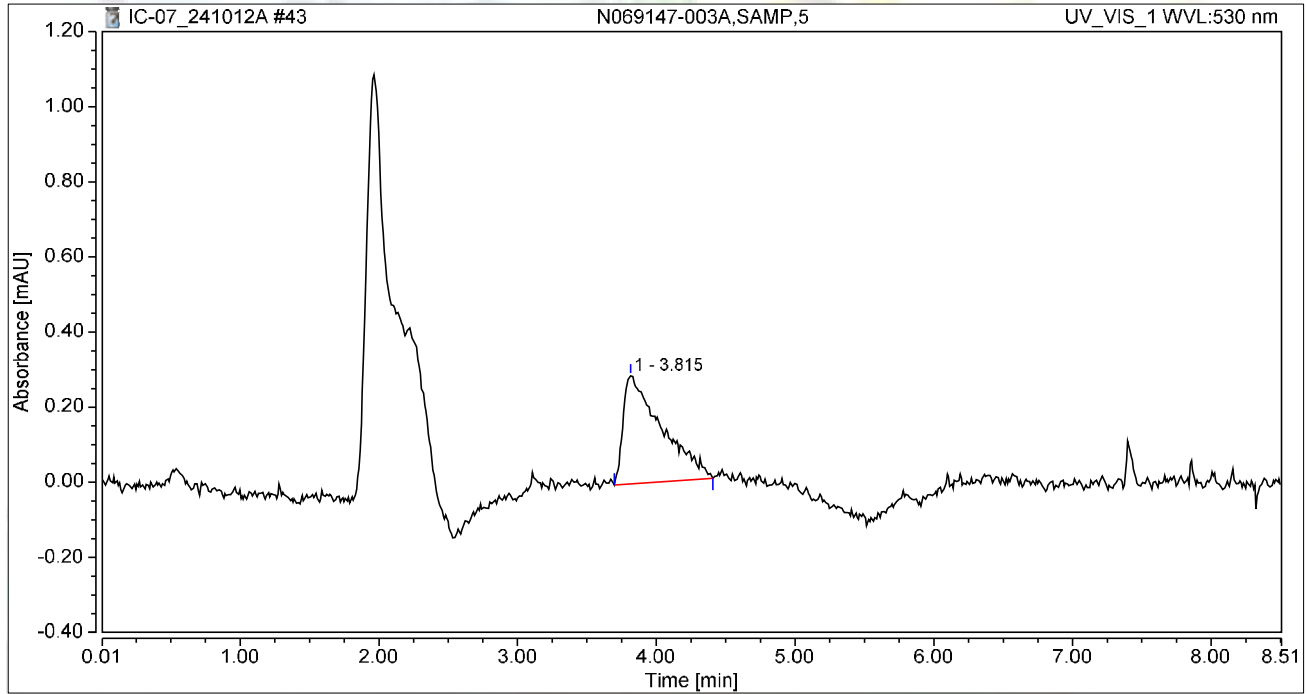
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.252	0.779	100.00	100.00	0.9276
Total:			0.252	0.779	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-003A,SAMP,5	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 13:42	Sample Weight:	1.0000

Chromatogram



Integration Results

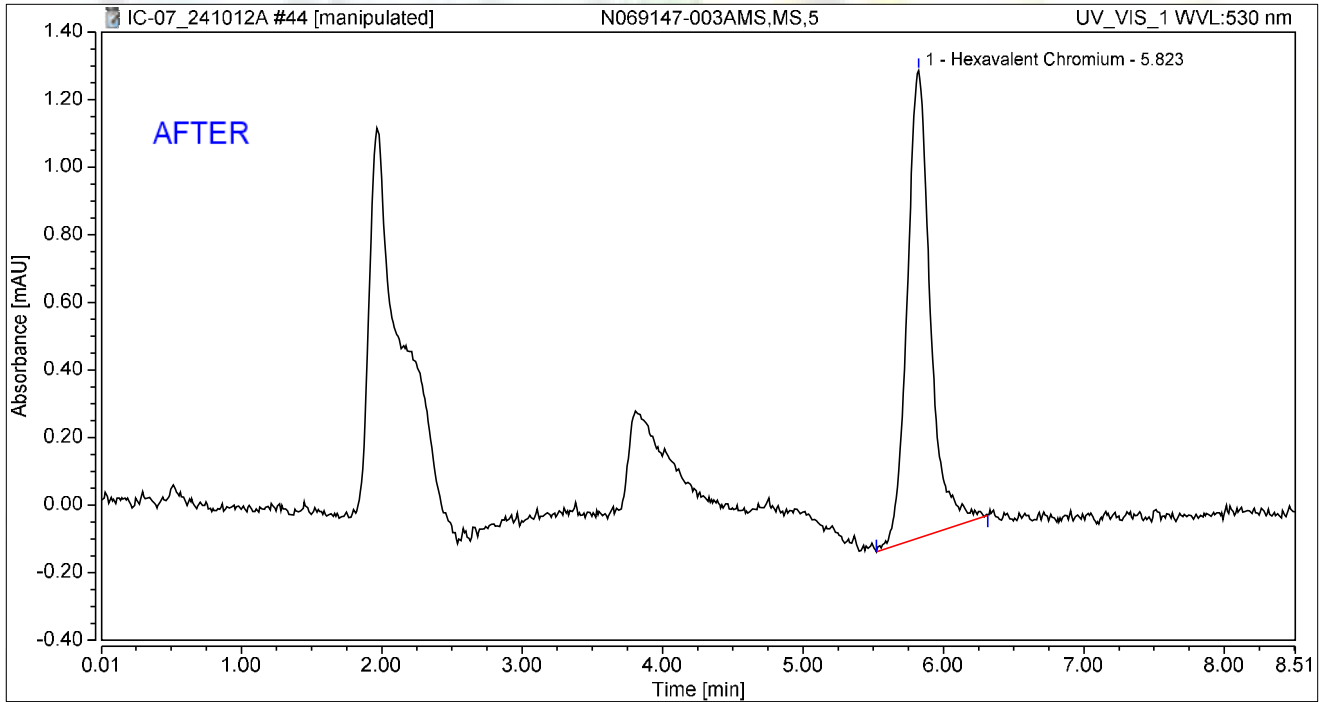
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.815	0.093	0.287	100.00	100.00	n.a.
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.093	0.287	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-003AMS,MS,5	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 13:51	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.823	0.265	1.383	100.00	100.00	0.9771
Total:			0.265	1.383	100.00	100.00	

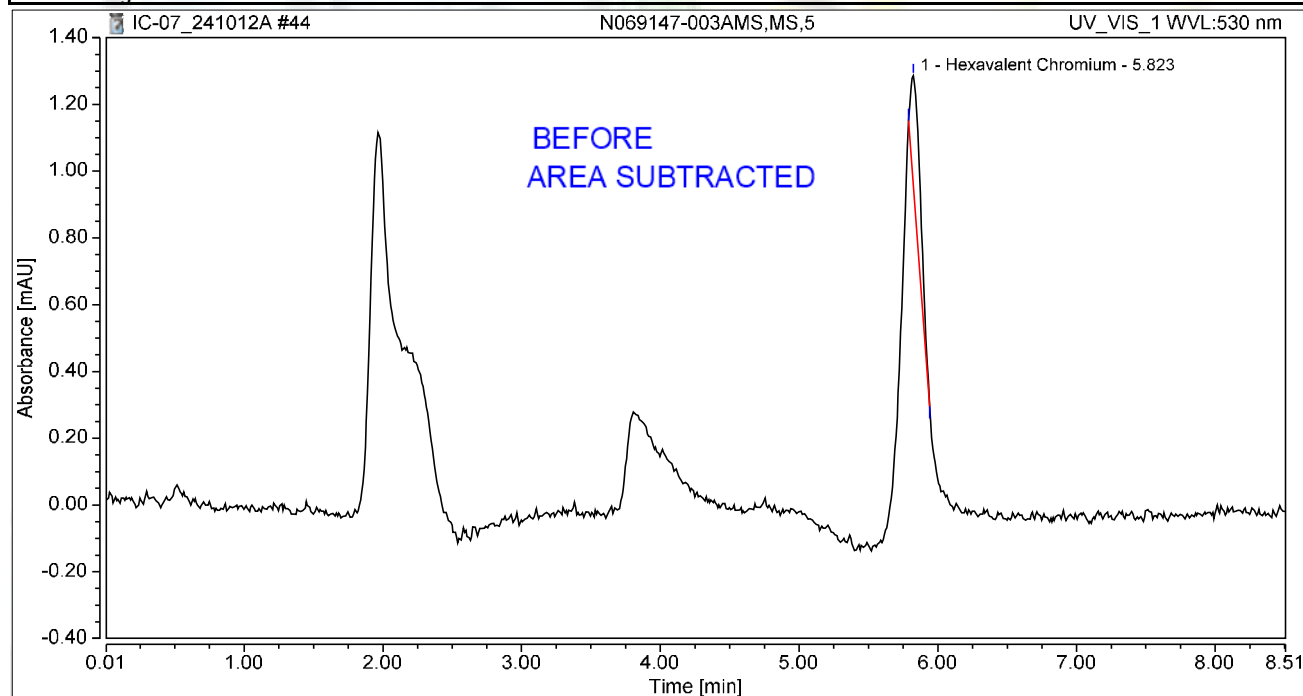
Reviewed by:

M. Rocha 10/24/2024

Chromatogram and Results

Injection Details		
Injection Name:	N069147-003AMS,MS,5	Run Time (min): 8.50
Vial Number:	20	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Oct/24 13:51	Sample Weight: 1.0000

Chromatogram



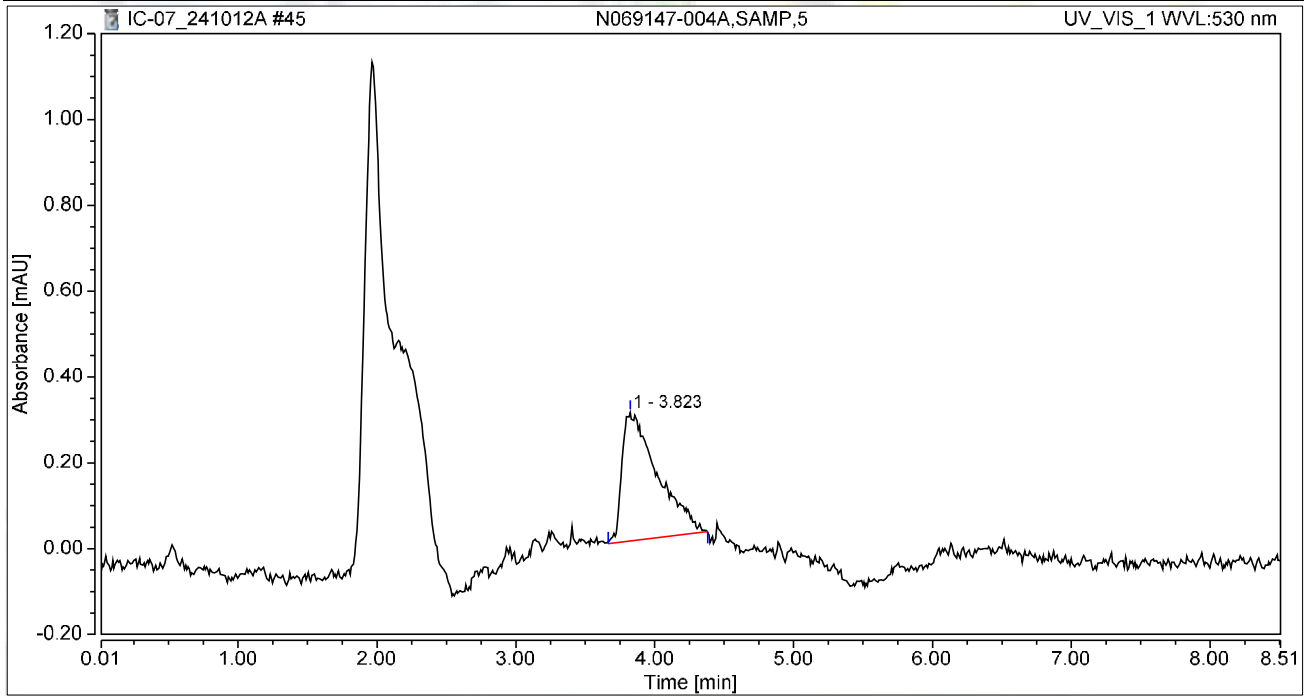
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.823	0.030	0.324	100.00	100.00	0.1106
Total:			0.030	0.324	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-004A,SAMP,5	Run Time (min):	8.49
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 14:01	Sample Weight:	1.0000

Chromatogram



Integration Results

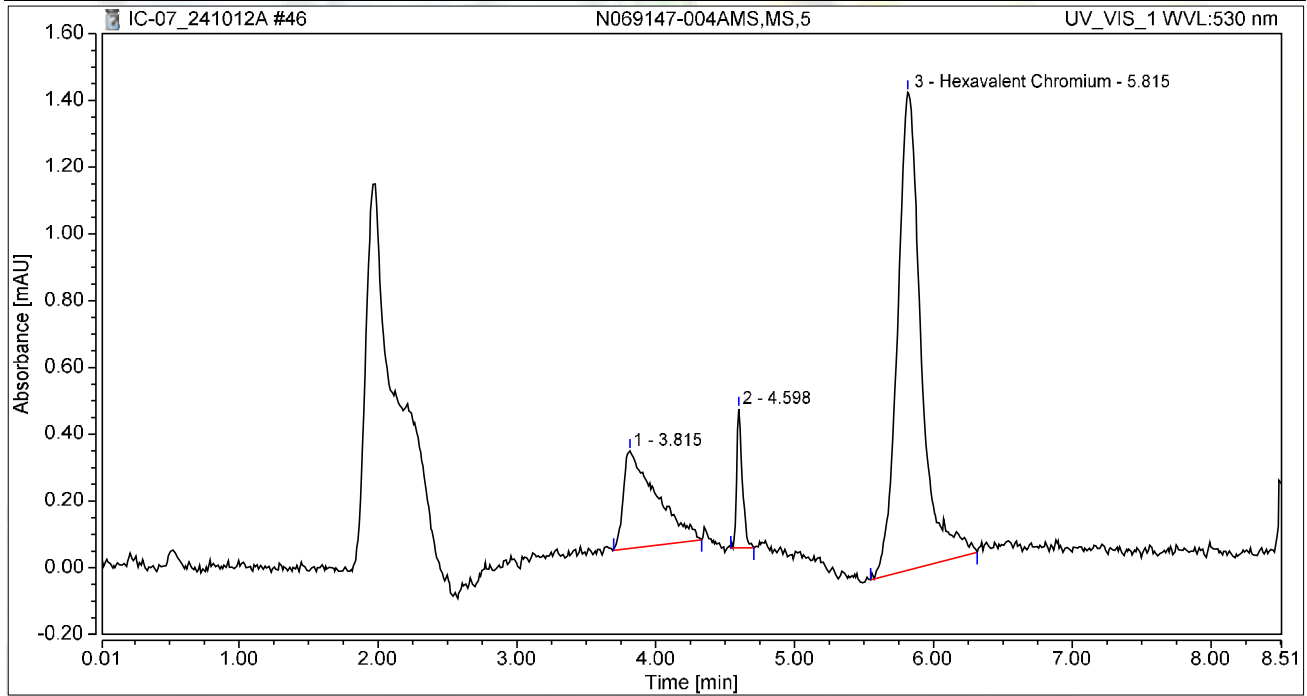
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.823	0.088	0.299	100.00	100.00	n.a.
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.088	0.299	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-004AMS,MS,5	Run Time (min):	8.49
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 14:10	Sample Weight:	1.0000

Chromatogram



Integration Results

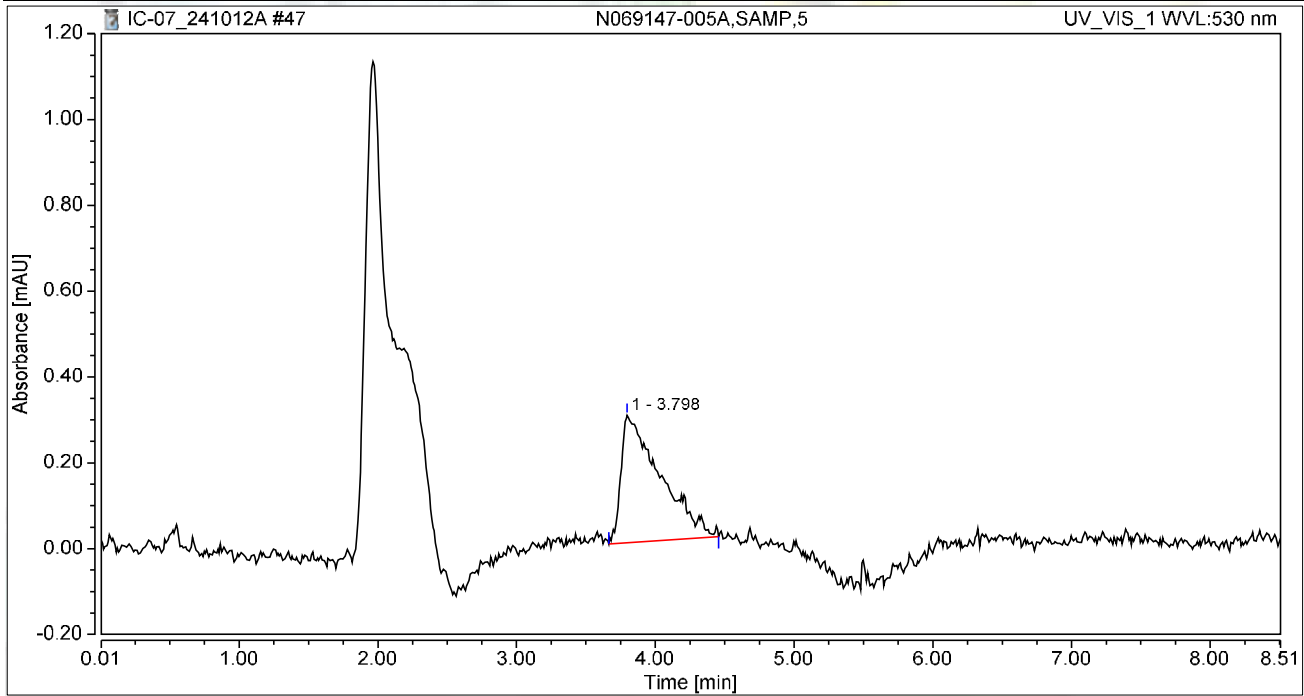
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.815	0.080	0.292	20.92	13.63	n.a.
2		4.598	0.020	0.417	5.14	19.47	n.a.
3	Hexavalent Chromium	5.815	0.283	1.432	73.94	66.90	1.0432
Total:			0.383	2.141	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-005A,SAMP,5	Run Time (min):	8.50
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 14:20	Sample Weight:	1.0000

Chromatogram



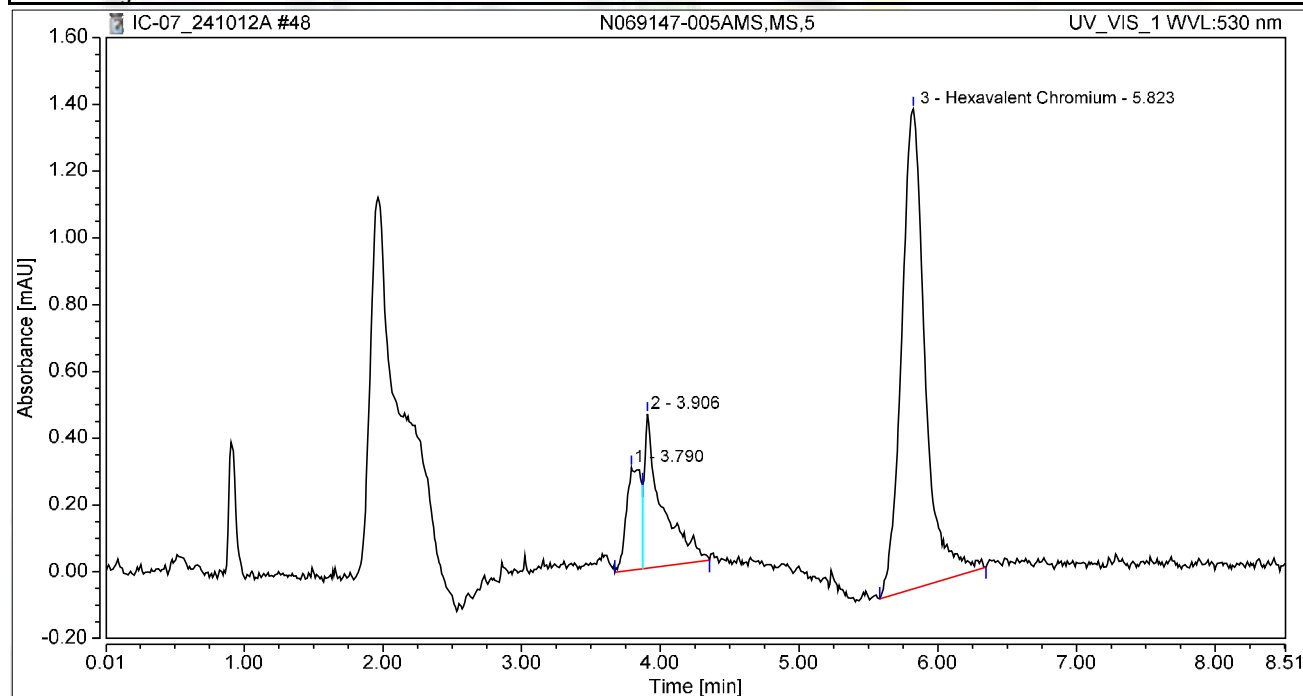
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.798	0.097	0.297	100.00	100.00	n.a.
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.097	0.297	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069147-005AMS,MS,5	Run Time (min): 8.50
Vial Number:	24	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Oct/24 14:29	Sample Weight: 1.0000

Chromatogram



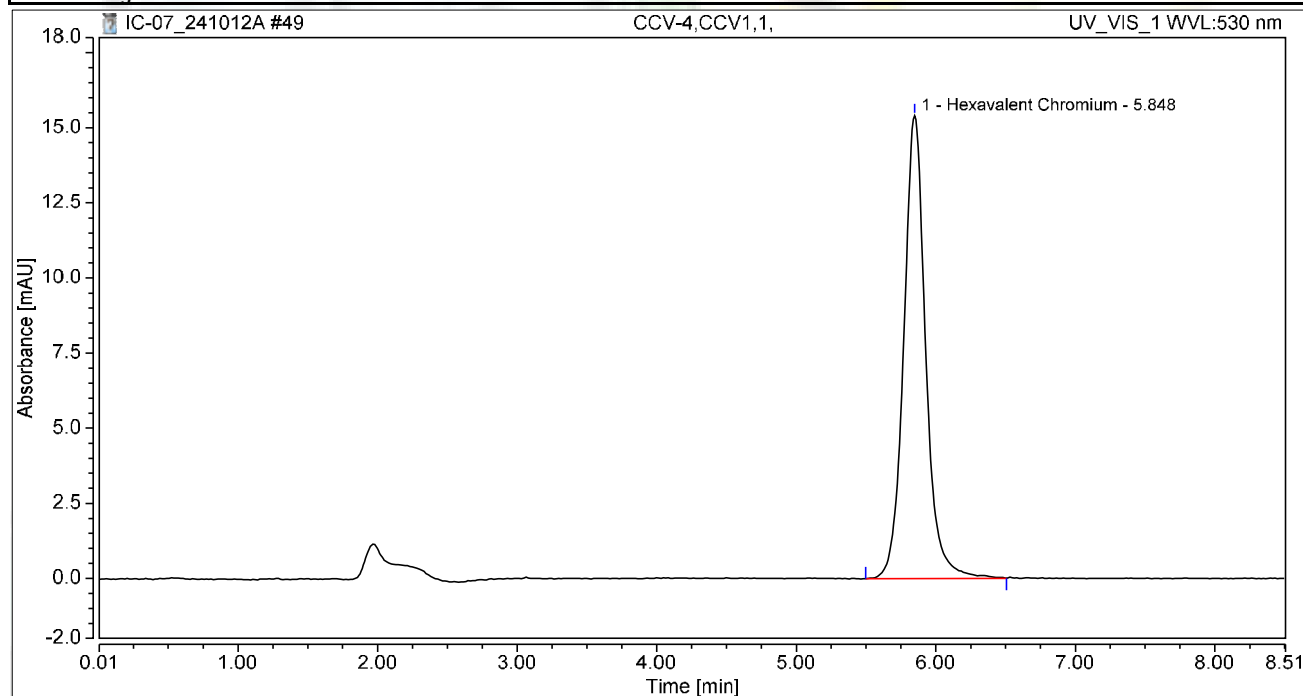
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.790	0.037	0.307	9.62	13.94	n.a.
2		3.906	0.068	0.462	17.65	20.92	n.a.
3	Hexavalent Chromium	5.823	0.282	1.437	72.73	65.15	1.0370
Total:			0.387	2.206	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-4,CCV1,1,	Run Time (min):	8.50
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 14:39	Sample Weight:	1.0000

Chromatogram



Integration Results

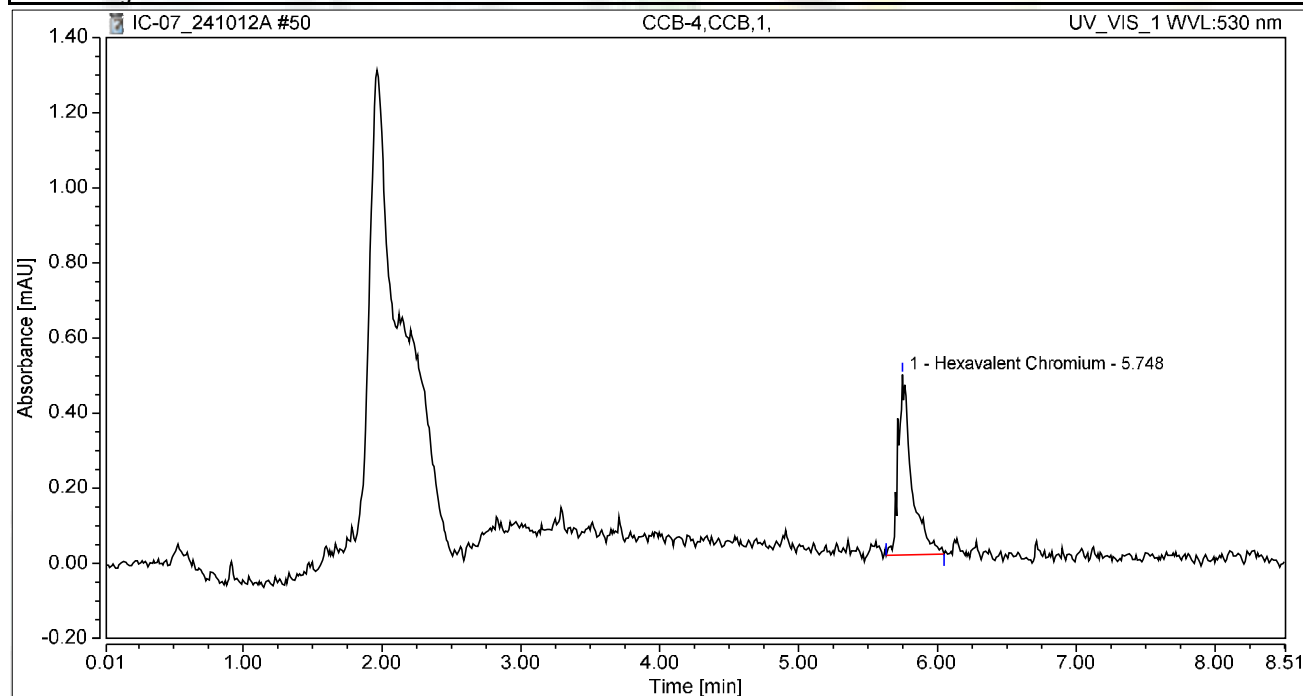
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.848	2.807	15.399	100.00	100.00	10.3383
Total:			2.807	15.399	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-4,CCB,1,	Run Time (min):	8.49
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 14:48	Sample Weight:	1.0000

Chromatogram



Integration Results

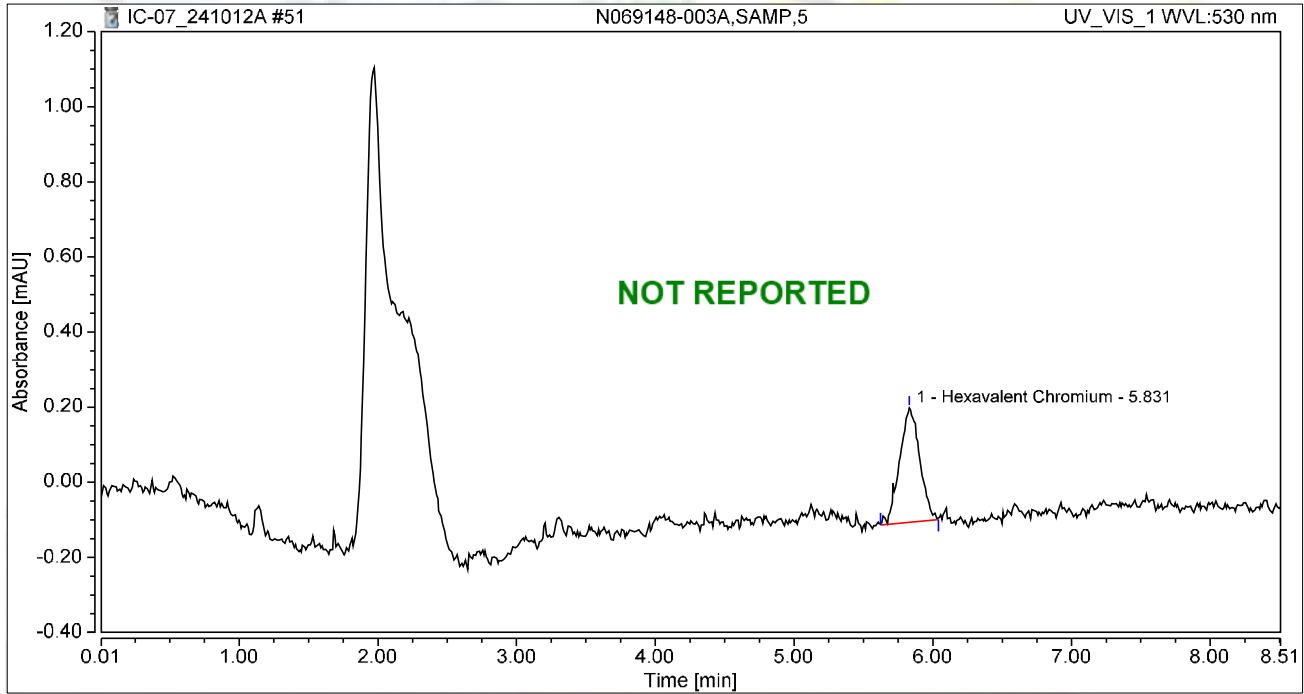
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.748	0.054	0.481	100.00	100.00	0.1996
Total:			0.054	0.481	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069148-003A,SAMP,5	Run Time (min):	8.50
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 14:57	Sample Weight:	1.0000

Chromatogram



Integration Results

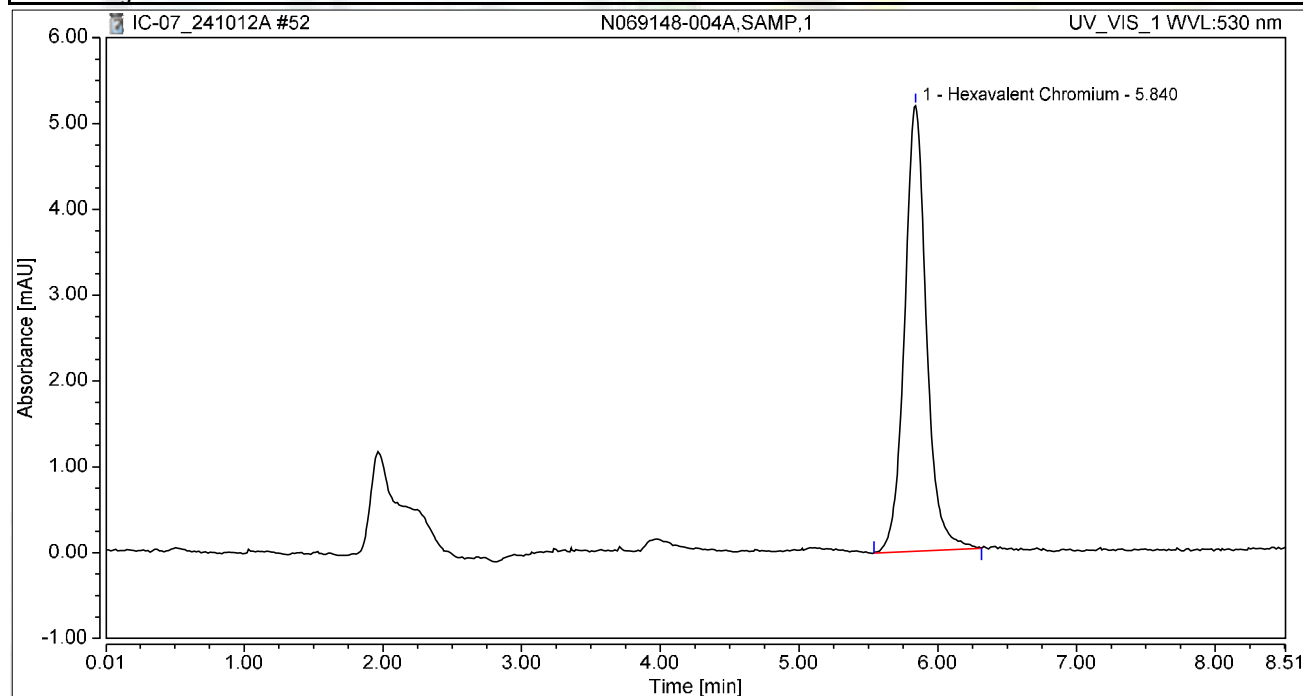
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.831	0.051	0.304	100.00	100.00	0.1886
Total:			0.051	0.304	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069148-004A,SAMP,1	Run Time (min):	8.50
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 15:07	Sample Weight:	1.0000

Chromatogram



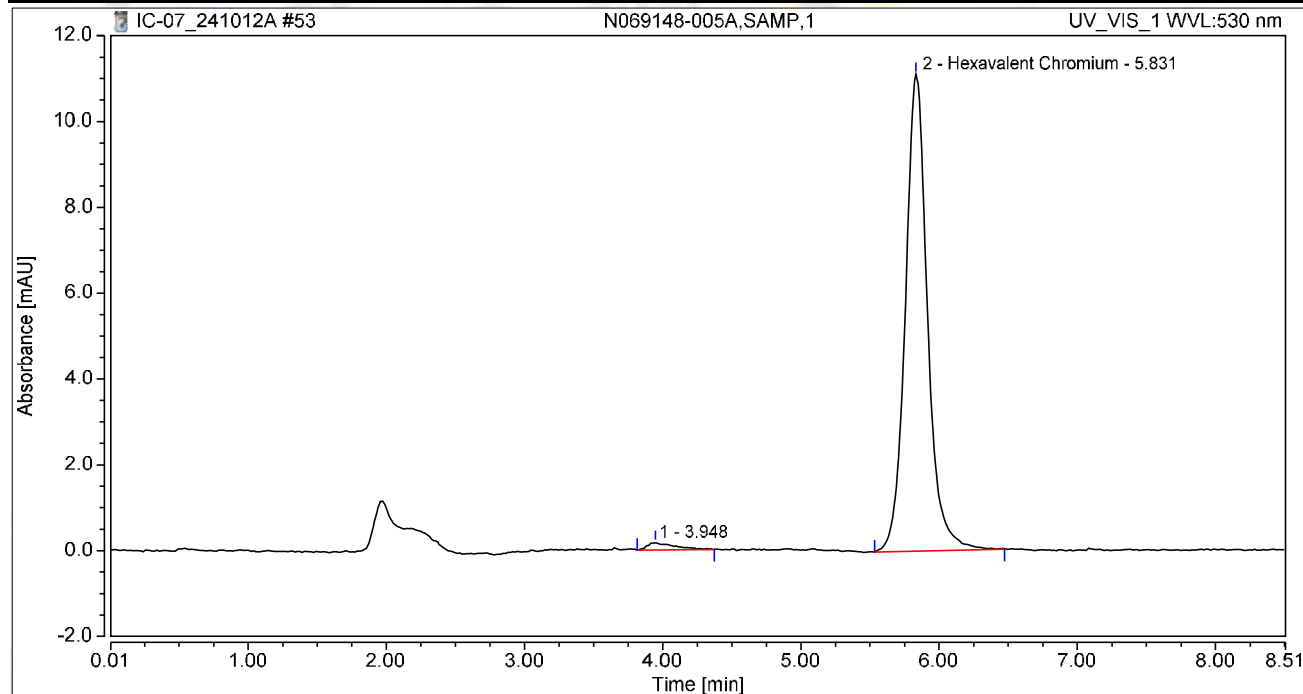
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.840	0.946	5.192	100.00	100.00	3.4848
Total:			0.946	5.192	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069148-005A,SAMP,1	Run Time (min): 8.50
Vial Number:	29	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Oct/24 15:16	Sample Weight: 1.0000

Chromatogram



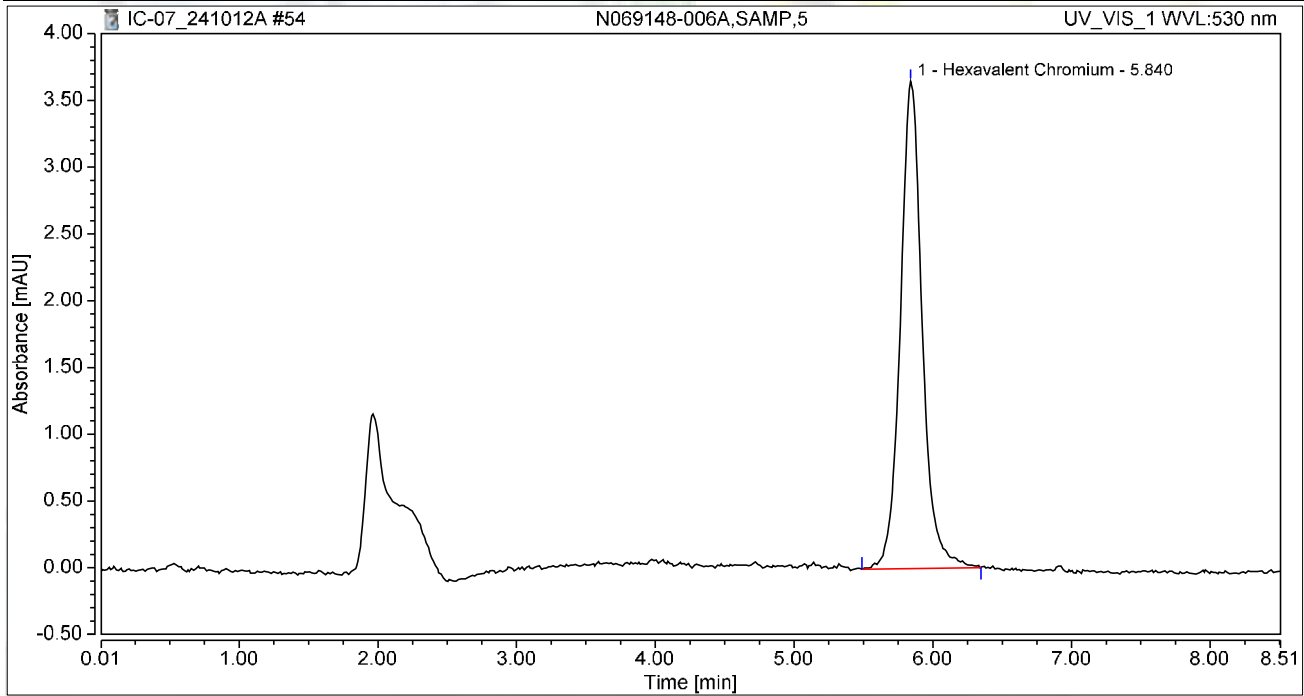
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.948	0.039	0.170	1.86	1.51	n.a.
2	Hexavalent Chromium	5.831	2.063	11.111	98.14	98.49	7.6009
Total:			2.103	11.281	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069148-006A,SAMP,5	Run Time (min):	8.50
Vial Number:	30	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 15:26	Sample Weight:	1.0000

Chromatogram



Integration Results

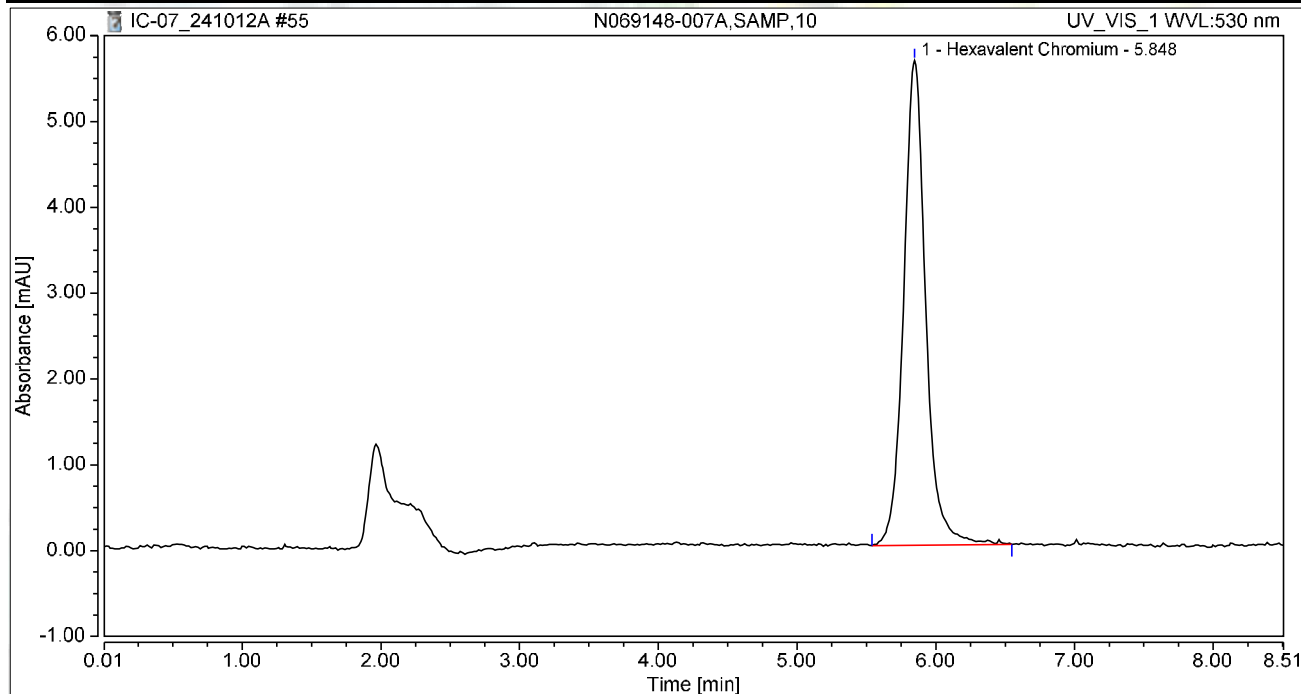
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.840	0.667	3.651	100.00	100.00	2.4587
Total:			0.667	3.651	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069148-007A,SAMP,10	Run Time (min):	8.50
Vial Number:	31	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 15:35	Sample Weight:	1.0000

Chromatogram



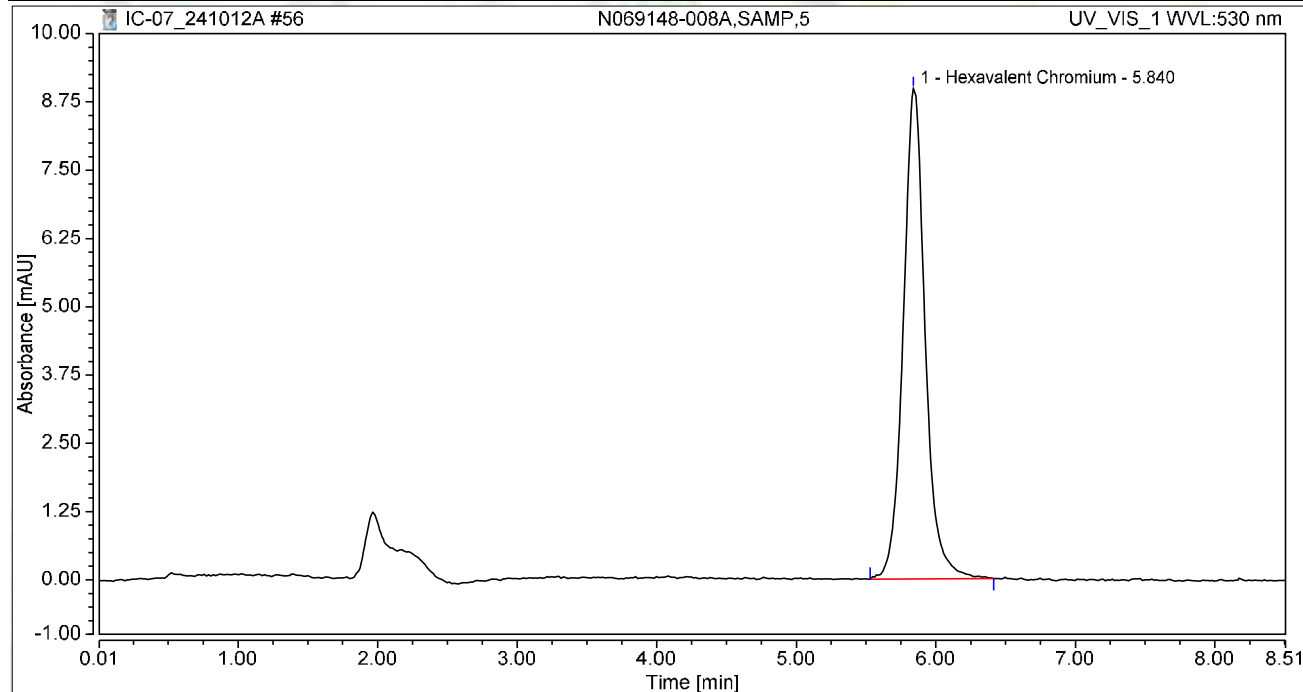
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.848	1.044	5.648	100.00	100.00	3.8458
Total:			1.044	5.648	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069148-008A,SAMP,5	Run Time (min): 8.50
Vial Number:	32	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Oct/24 15:45	Sample Weight: 1.0000

Chromatogram



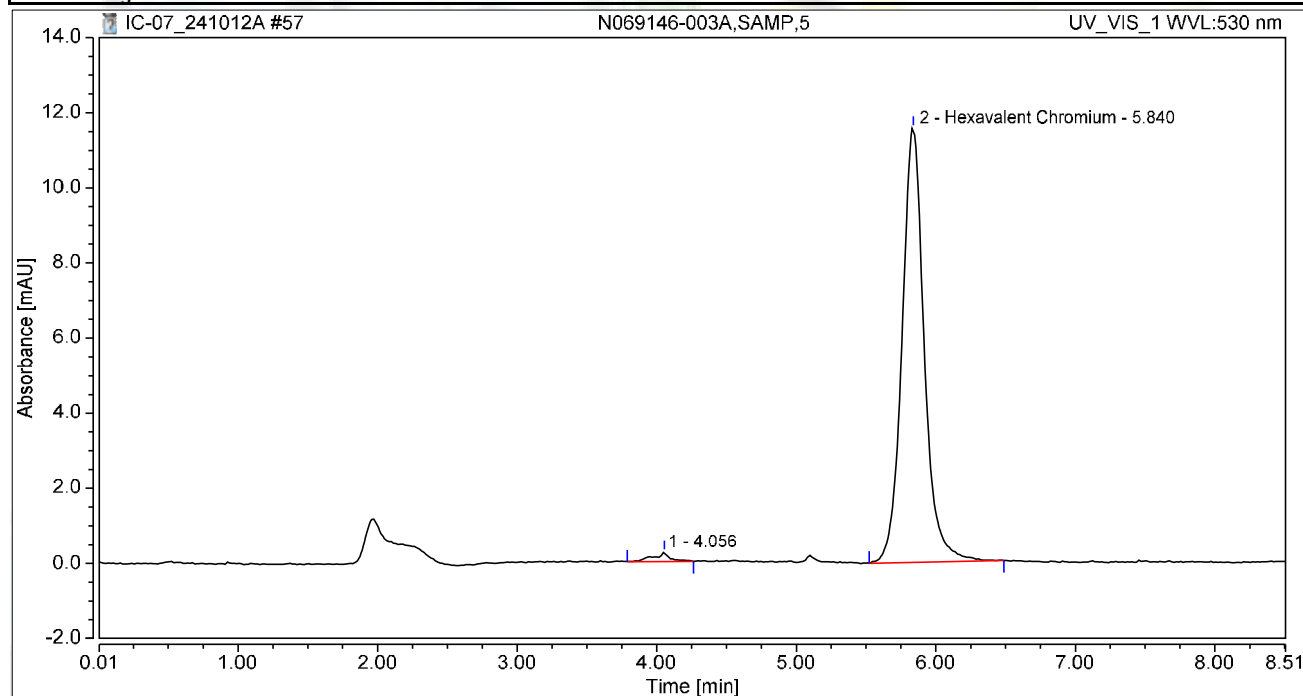
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.840	1.640	8.976	100.00	100.00	6.0393
Total:			1.640	8.976	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-003A,SAMP,5	Run Time (min):	8.50
Vial Number:	33	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 15:54	Sample Weight:	1.0000

Chromatogram



Integration Results

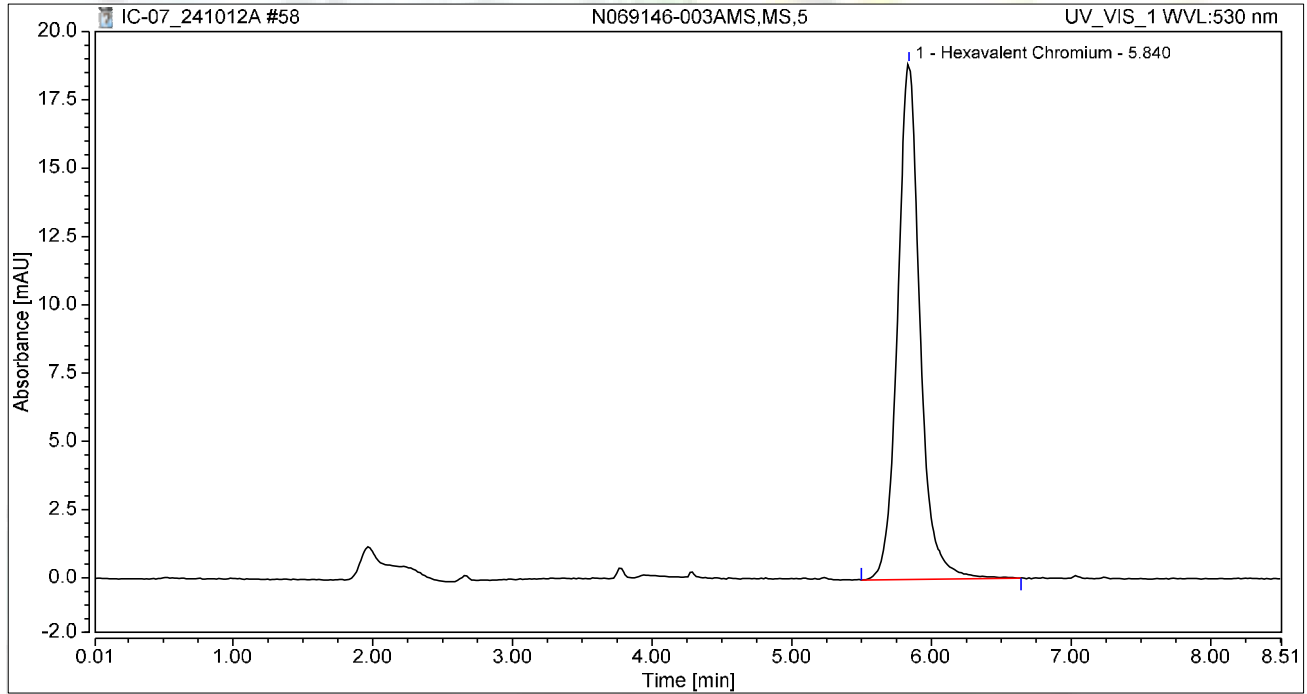
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		4.056	0.035	0.247	1.63	2.09	n.a.
2	Hexavalent Chromium	5.840	2.138	11.562	98.37	97.91	7.8739
Total:			2.173	11.808	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-003AMS,MS,5	Run Time (min):	8.49
Vial Number:	34	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 16:04	Sample Weight:	1.0000

Chromatogram



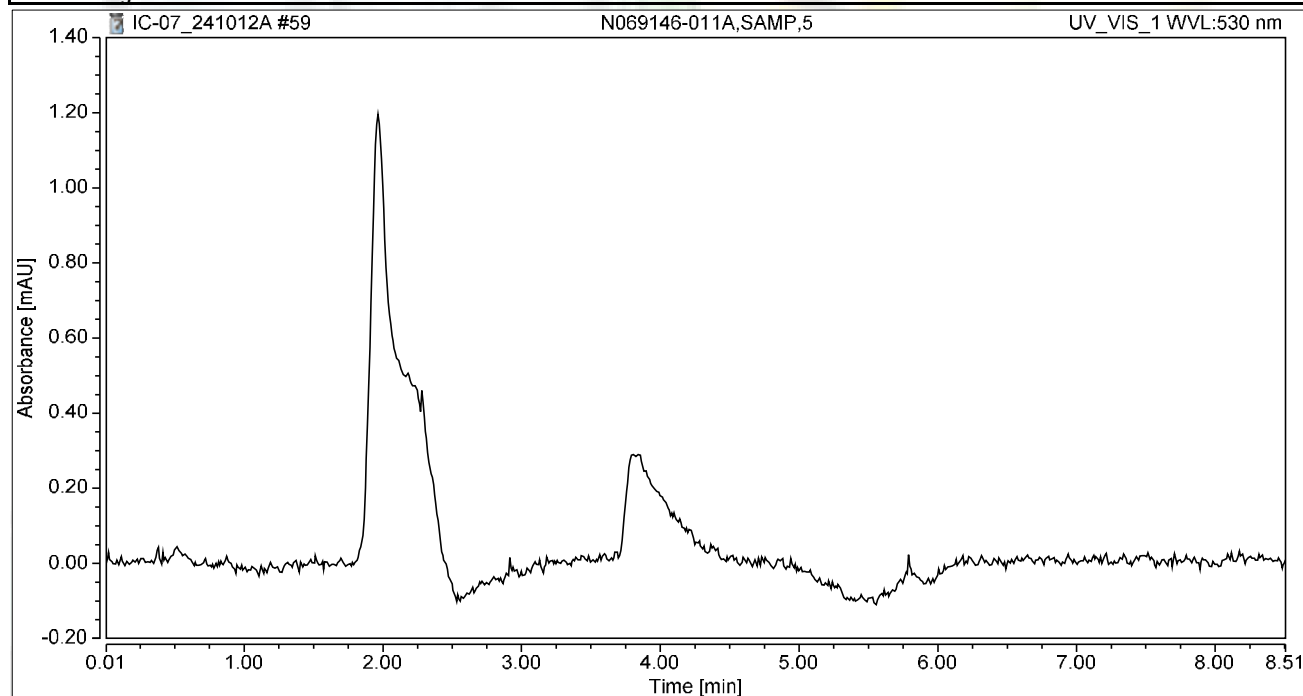
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.840	3.509	18.876	100.00	100.00	12.9262
Total:			3.509	18.876	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069146-011A,SAMP,5	Run Time (min): 8.50
Vial Number:	35	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Oct/24 16:13	Sample Weight: 1.0000

Chromatogram



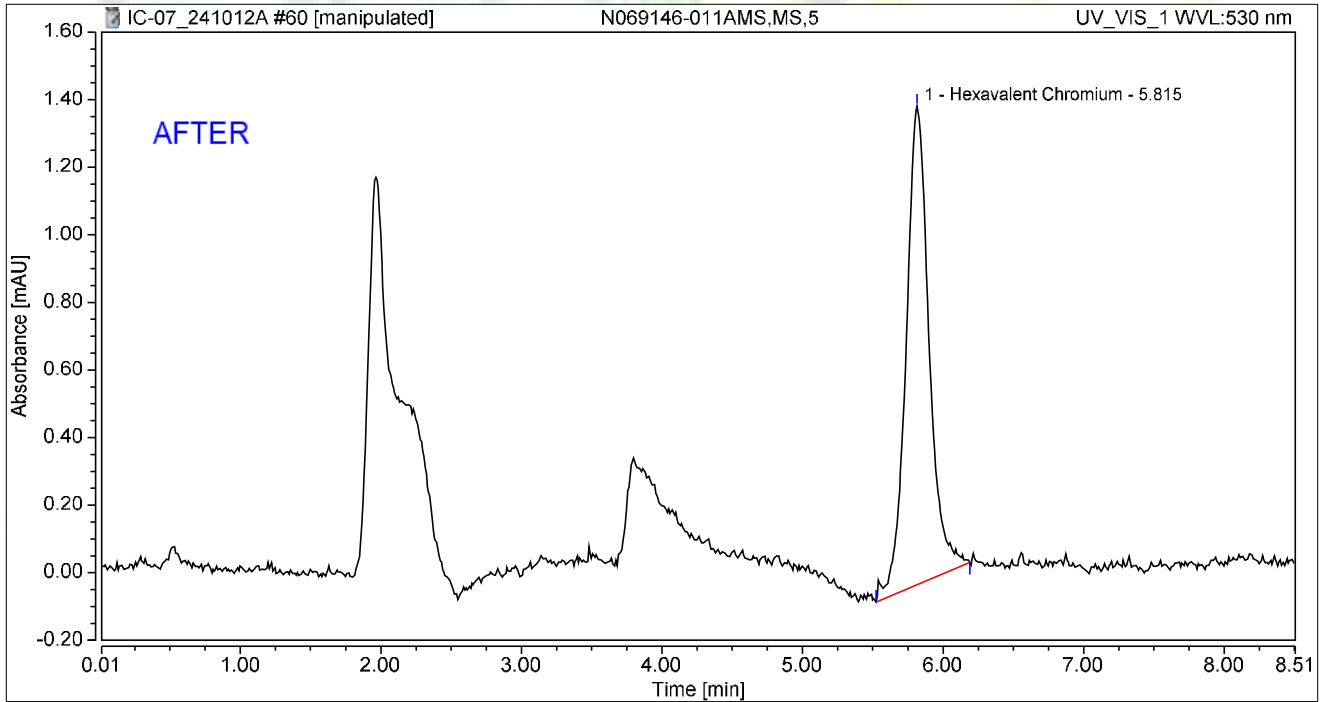
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-011AMS,MS,5	Run Time (min):	8.49
Vial Number:	36	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 16:23	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.815	0.269	1.417	100.00	100.00	0.9905
Total:			0.269	1.417	100.00	100.00	

Reviewed by:

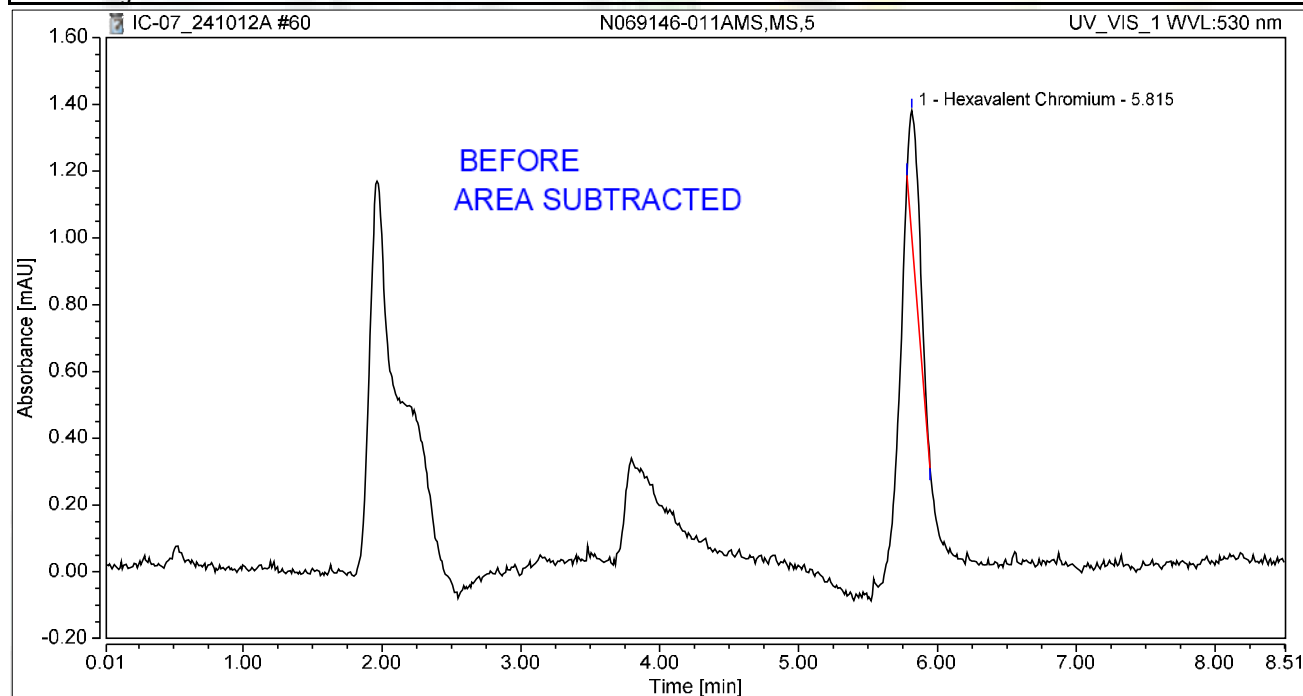
d/Recha 10/24/2024

Chromatogram and Results

Injection Details

Injection Name:	N069146-011AMS,MS,5	Run Time (min):	8.49
Vial Number:	36	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 16:23	Sample Weight:	1.0000

Chromatogram



Integration Results

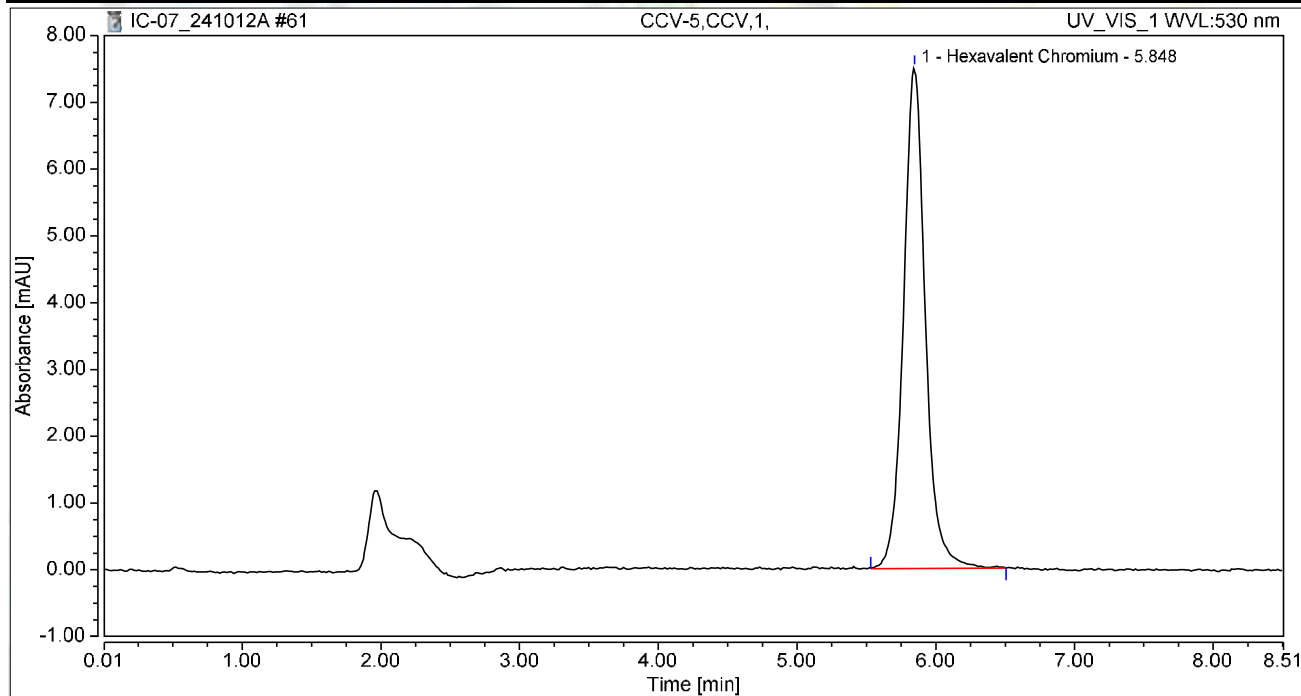
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.815	0.037	0.369	100.00	100.00	0.1354
Total:			0.037	0.369	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.50
Vial Number:	37	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 16:32	Sample Weight:	1.0000

Chromatogram



Integration Results

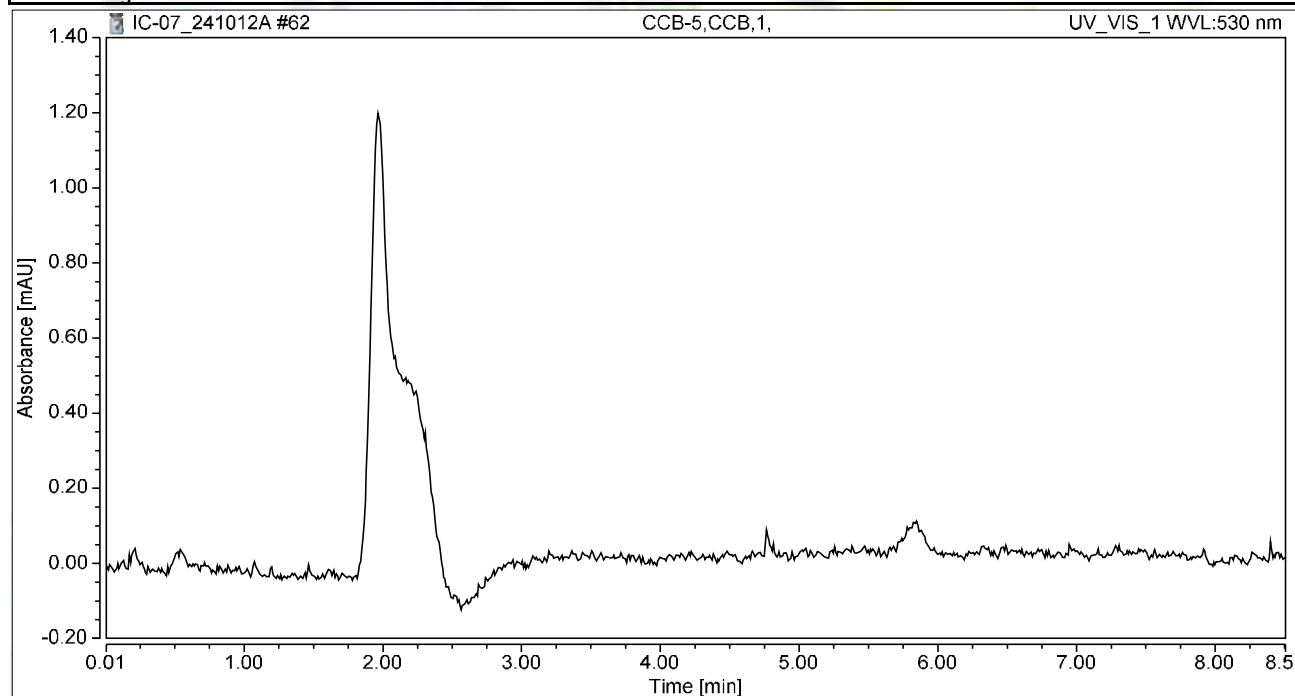
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.848	1.372	7.507	100.00	100.00	5.0523
Total:			1.372	7.507	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.50
Vial Number:	38	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 16:41	Sample Weight:	1.0000

Chromatogram



Integration Results

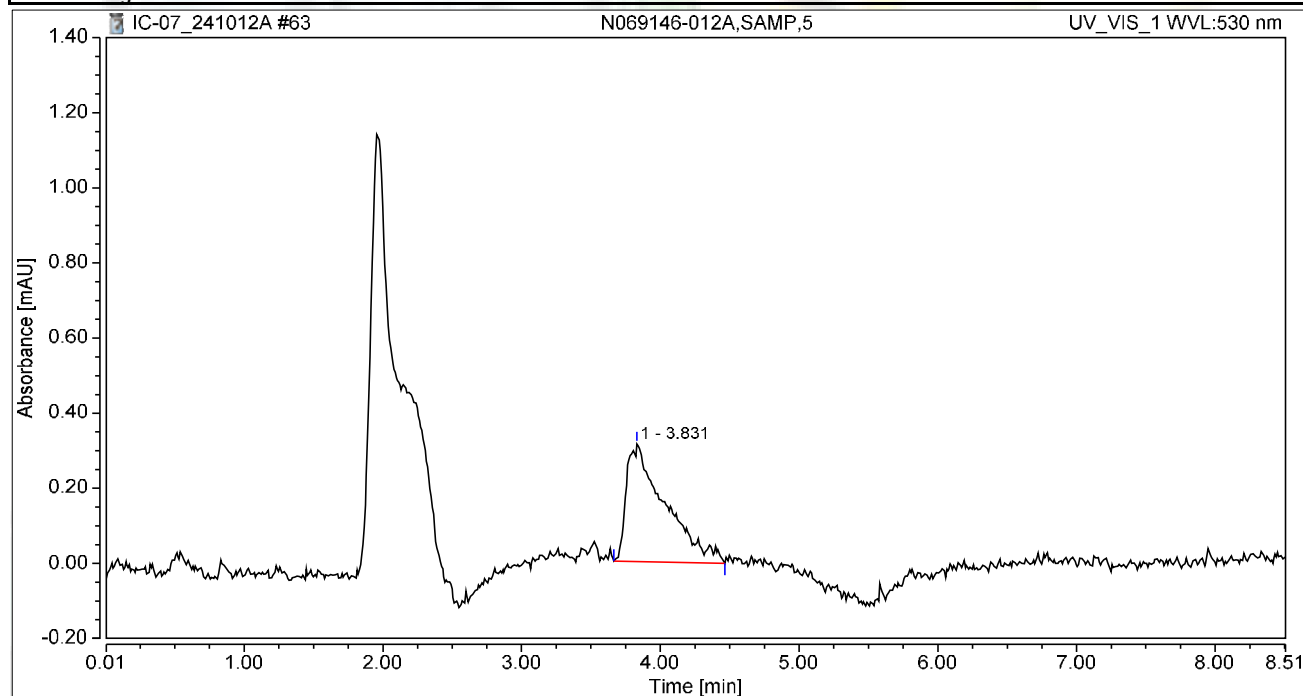
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-012A,SAMP,5	Run Time (min):	8.50
Vial Number:	39	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 16:51	Sample Weight:	1.0000

Chromatogram



Integration Results

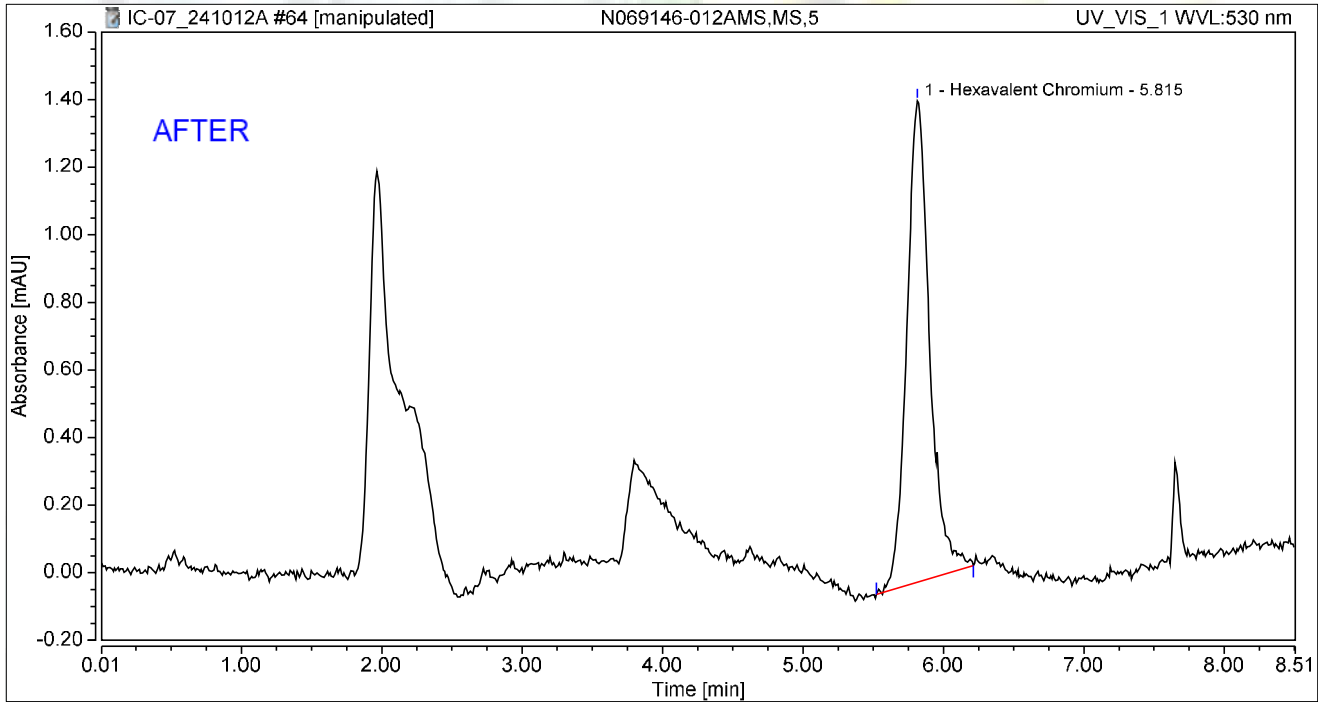
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.831	0.101	0.313	100.00	100.00	n.a.
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.101	0.313	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069146-012AMS,MS,5	Run Time (min):	8.50
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 17:00	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.815	0.269	1.424	100.00	100.00	0.9893
Total:			0.269	1.424	100.00	100.00	

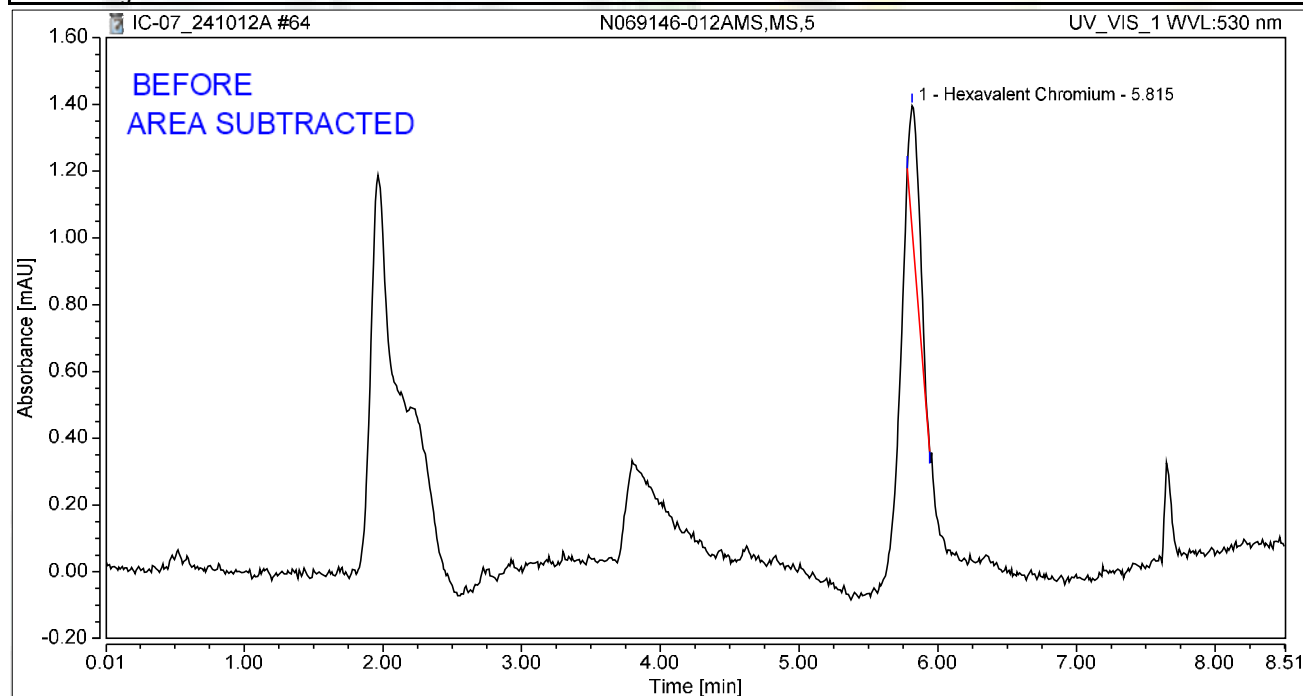
Reviewed by:

dRocha 10/24/2024

Chromatogram and Results

Injection Details		
Injection Name:	N069146-012AMS,MS,5	Run Time (min): 8.50
Vial Number:	40	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Oct/24 17:00	Sample Weight: 1.0000

Chromatogram



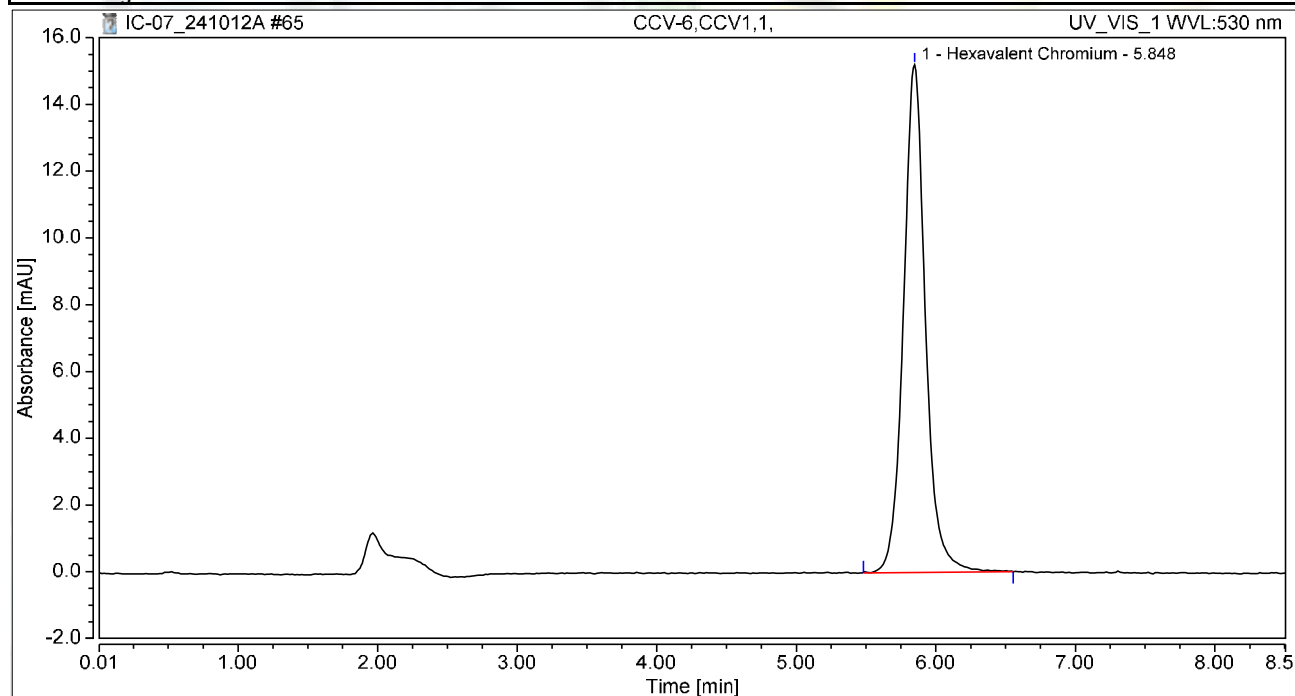
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.815	0.036	0.366	100.00	100.00	0.1321
Total:			0.036	0.366	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-6,CCV1,1,	Run Time (min):	8.50
Vial Number:	41	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 17:10	Sample Weight:	1.0000

Chromatogram



Integration Results

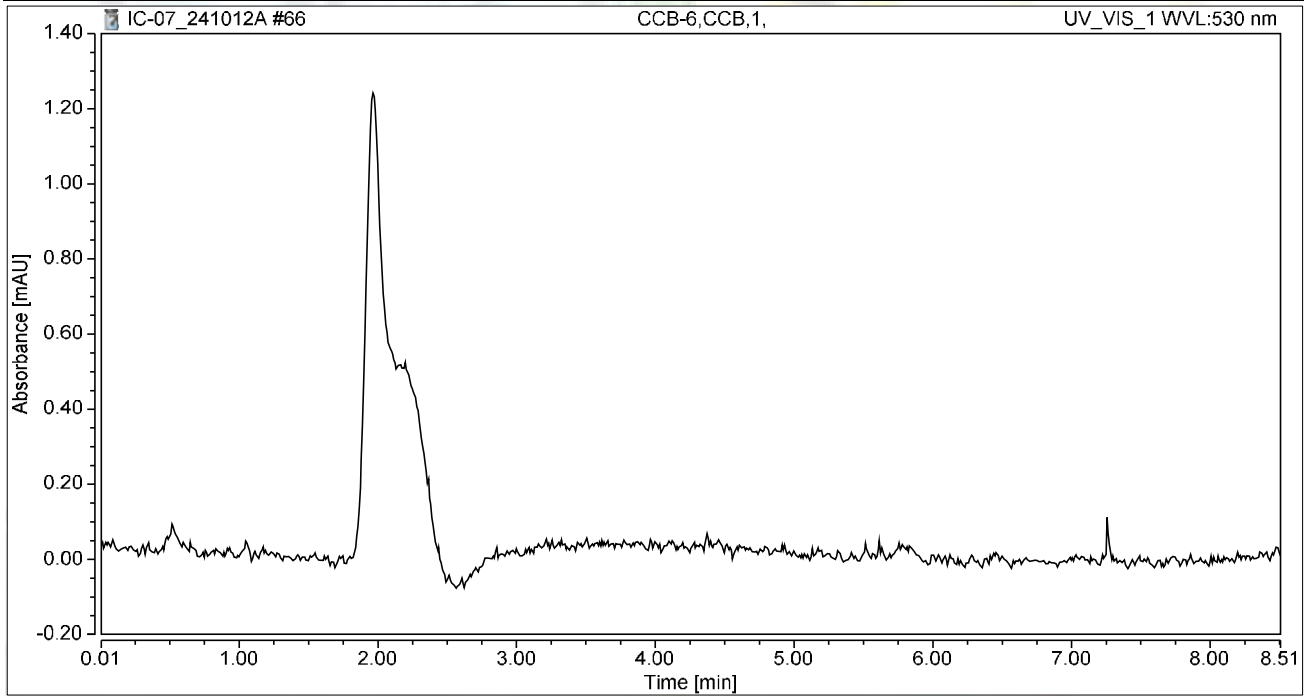
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.848	2.782	15.205	100.00	100.00	10.2480
Total:			2.782	15.205	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-6,CCB,1,	Run Time (min):	8.50
Vial Number:	42	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 17:19	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

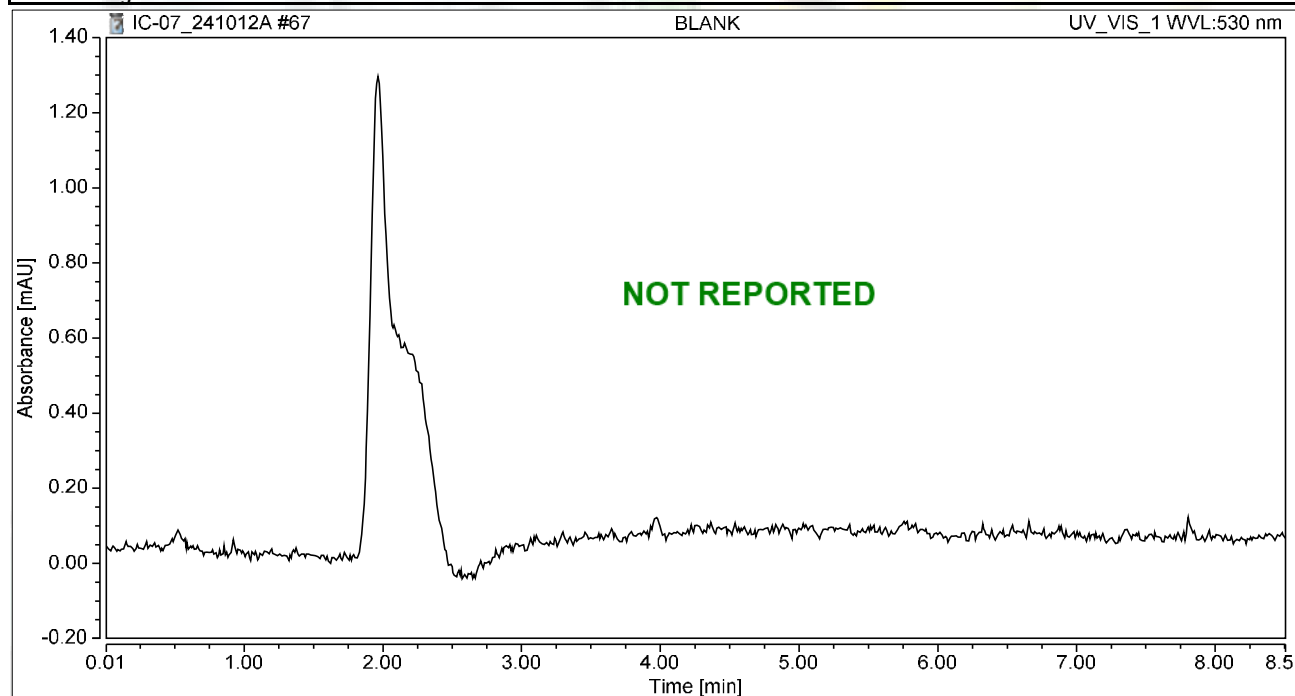


Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	43	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Oct/24 17:29	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

RAW DATA



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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INJECTION LOG: 241013A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/01/24 10:06 AM	Not Reported
2	BLANK	BLANK	1	Hexavalent Chromium	10/01/24 10:20 AM	Not Reported
3	iBLANK	iBLANK	1	Hexavalent Chromium	10/01/24 10:29 AM	Reported
4	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:39 AM	Reported
5	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:48 AM	Reported
6	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 10:58 AM	Reported
7	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:07 AM	Reported
8	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:17 AM	Reported
9	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/01/24 11:26 AM	Reported
10	BLANK	BLANK	1	Hexavalent Chromium	10/13/24 11:43 AM	Not Reported
11	CCV-1	CCV	1	Hexavalent Chromium	10/13/24 11:56 AM	Reported
12	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/13/24 12:05 PM	Reported
13	CCB-1	CCB	1	Hexavalent Chromium	10/13/24 12:15 PM	Reported
14	MB-R194254	MBLK	1	Hexavalent Chromium	10/13/24 12:24 PM	Reported
15	LCS-R194254	LCS	1	Hexavalent Chromium	10/13/24 12:34 PM	Reported
16	N069147-002A	SAMP	5	Hexavalent Chromium	10/13/24 12:48 PM	Reported
17	N069147-002AMS	MS	5	Hexavalent Chromium	10/13/24 1:00 PM	Reported
18	N069147-002AMSD	MSD	5	Hexavalent Chromium	10/13/24 1:09 PM	Reported
19	N069149-001A	SAMP	1	Hexavalent Chromium	10/13/24 1:19 PM	Reported
20	N069149-001ADUP	DUP	1	Hexavalent Chromium	10/13/24 1:28 PM	Reported
21	N069069-008A	SAMP	1	Hexavalent Chromium	10/13/24 1:38 PM	Reported
22	N069105-008A	SAMP	5	Hexavalent Chromium	10/13/24 1:47 PM	Reported
23	N069105-008AMS	MS	5	Hexavalent Chromium	10/13/24 1:57 PM	Reported
24	CCV-2	CCV1	1	Hexavalent Chromium	10/13/24 2:06 PM	Reported
25	CCB-2	CCB	1	Hexavalent Chromium	10/13/24 2:15 PM	Reported
26	N069148-009A	SAMP	5	Hexavalent Chromium	10/13/24 2:25 PM	Reported
27	N069148-010A	SAMP	5	Hexavalent Chromium	10/13/24 2:34 PM	Reported
28	N069148-011A	SAMP	20	Hexavalent Chromium	10/13/24 2:44 PM	Reported
29	N069148-012A	SAMP	20	Hexavalent Chromium	10/13/24 2:53 PM	Reported
30	N069148-013A	SAMP	5	Hexavalent Chromium	10/13/24 3:03 PM	NOT Reported
31	N069148-014A	SAMP	1	Hexavalent Chromium	10/13/24 3:12 PM	Not Reported
32	N069148-015A	SAMP	1	Hexavalent Chromium	10/13/24 3:22 PM	Reported
33	N069148-016A	SAMP	1	Hexavalent Chromium	10/13/24 3:31 PM	Reported
34	N069149-002A	SAMP	1	Hexavalent Chromium	10/13/24 3:41 PM	Reported
35	N069149-003A	SAMP	1	Hexavalent Chromium	10/13/24 3:50 PM	Reported
36	CCV-3	CCV	1	Hexavalent Chromium	10/13/24 3:59 PM	Reported
37	CCB-3	CCB	1	Hexavalent Chromium	10/13/24 4:09 PM	Reported
38	N069149-004A	SAMP	1	Hexavalent Chromium	10/13/24 4:18 PM	Reported
39	N069149-005A	SAMP	1	Hexavalent Chromium	10/13/24 4:28 PM	Reported
40	N069149-006A	SAMP	1	Hexavalent Chromium	10/13/24 4:37 PM	Reported
41	N069149-007A	SAMP	5	Hexavalent Chromium	10/13/24 4:47 PM	Reported
42	N069149-008A	SAMP	5	Hexavalent Chromium	10/13/24 4:56 PM	Reported

INJECTION LOG: 241013A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	MB-2	MBLK	1	Hexavalent Chromium	10/13/24 5:06 PM	Not Reported
44	LCS-2	LCS	1	Hexavalent Chromium	10/13/24 5:15 PM	Not Reported
45	N068851-008A	SAMP	5	Hexavalent Chromium	10/13/24 5:25 PM	Not Reported
46	N068851-008AMS	MS	5	Hexavalent Chromium	10/13/24 5:34 PM	Not Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	10/13/24 5:43 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	10/13/24 5:53 PM	Reported
49	N068851-011A	SAMP	1	Hexavalent Chromium	10/13/24 6:02 PM	Not Reported
50	N068851-011AMS	MS	1	Hexavalent Chromium	10/13/24 6:12 PM	Not Reported
51	N068902-005A	SAMP	1	Hexavalent Chromium	10/13/24 6:21 PM	Not Reported
52	N068902-005AMS	MS	1	Hexavalent Chromium	10/13/24 6:31 PM	Not Reported
53	N068903-002A	SAMP	1	Hexavalent Chromium	10/13/24 6:40 PM	Not Reported
54	N068903-002AMS	MS	1	Hexavalent Chromium	10/13/24 6:50 PM	Not Reported
55	N068903-003A	SAMP	1	Hexavalent Chromium	10/13/24 6:59 PM	Not Reported
56	N068903-003AMS	MS	1	Hexavalent Chromium	10/13/24 7:09 PM	Not Reported
57	N068943-015A	SAMP	1	Hexavalent Chromium	10/13/24 7:18 PM	Not Reported
58	N068943-015AMS	MS	1	Hexavalent Chromium	10/13/24 7:28 PM	Not Reported
59	N068964-003A	SAMP	1	Hexavalent Chromium	10/13/24 7:37 PM	Not Reported
60	N068964-003AMS	MS	1	Hexavalent Chromium	10/13/24 7:46 PM	Not Reported
61	CCV-5	CCV	1	Hexavalent Chromium	10/13/24 7:56 PM	Not Reported
62	CCB-5	CCB	1	Hexavalent Chromium	10/13/24 8:05 PM	Not Reported
63	BLANK	BLANK	1	Hexavalent Chromium	10/13/24 8:15 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241013A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	13/Oct/24 20:45:38
No. of Injections:	66	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/01/2024 10:06	Finished	BLANK
2	BLANK	2	1000	Unknown		10/01/2024 10:20	Finished	BLANK
3	BLANK	3	1000	Unknown		10/01/2024 10:29	Finished	INSTRUMENT BLANK
4	STD1-0.2 ppb	4	1000	Calibration Standard	01	10/01/2024 10:39	Finished	0.2 ppb, IWST-240729A, 2uL>
5	STD2-1.0 ppb	5	1000	Calibration Standard	02	10/01/2024 10:48	Finished	1.0 ppb, IWST-240729A, 10uL>
6	STD3-5.0 ppb	6	1000	Calibration Standard	03	10/01/2024 10:58	Finished	5.0 ppb, IWST-240729A, 50uL>
7	STD4-10.0 ppb	7	1000	Calibration Standard	04	10/01/2024 11:07	Finished	10 ppb, IWST-240729A, 100uL>
8	STD5-15.0 ppb	8	1000	Calibration Standard	05	10/01/2024 11:17	Finished	15 ppb, IWST-240729A, 150uL>
9	STD6-20.0 ppb	9	1000	Calibration Standard	06	10/01/2024 11:26	Finished	20 ppb, IWST-240729A, 200uL>
10	BLANK	1	1000	Unknown		10/13/2024 11:43	Finished	BLANK
11	CCV-1,CCV,1,	2	1000	Unknown		10/13/2024 11:56	Finished	CCV @5ppb, IWST-240729A
12	PQL@0.2ppb,CCV2,	3	1000	Unknown		10/13/2024 12:05	Finished	PQL @ 0.2ppb
13	CCB-1,CCB,1,	4	1000	Unknown		10/13/2024 12:15	Finished	CCB R240923C
14	MB-H2O,MBLK,1,	5	1000	Unknown		10/13/2024 12:24	Finished	MB R240923C
15	LCS-H2O,LCS,1,	6	1000	Unknown		10/13/2024 12:34	Finished	LCS @5ppb, IWST-240729B
16	N069147-002A,SAMP	1	1000	Unknown		10/13/2024 12:48	Finished	SAMP,2>10 mL
17	N069147-002AMS,M	2	1000	Unknown		10/13/2024 13:00	Finished	MS (1ppb), IWST-240729B,2>
18	N069147-002AMSD,M	3	1000	Unknown		10/13/2024 13:09	Finished	MSD (1ppb), IWST-240729B,2>
19	N069149-001A,SAMP	4	1000	Unknown		10/13/2024 13:19	Finished	SAMP,10 mL
20	N069149-001ADUP,D	5	1000	Unknown		10/13/2024 13:28	Finished	DUP,10 mL
21	N069069-008A,SAMP	6	1000	Unknown		10/13/2024 13:38	Finished	SAMP,10 mL
22	N069105-008A,SAMP	7	1000	Unknown		10/13/2024 13:47	Finished	SAMP,2>10 mL
23	N069105-008AMS,M	8	1000	Unknown		10/13/2024 13:57	Finished	MS (1ppb), IWST-240729B,2>
24	CCV-2,CCV1,1,	9	1000	Unknown		10/13/2024 14:06	Finished	CCV @10ppb, IWST-240729A
25	CCB-2,CCB,1,	10	1000	Unknown		10/13/2024 14:15	Finished	CCB R240923C
26	N069148-009A,SAMP	11	1000	Unknown		10/13/2024 14:25	Finished	SAMP,2>10 mL
27	N069148-010A,SAMP	12	1000	Unknown		10/13/2024 14:34	Finished	SAMP,2>10 mL
28	N069148-011A,SAMP	13	1000	Unknown		10/13/2024 14:44	Finished	SAMP,0.5>10 mL
29	N069148-012A,SAMP	14	1000	Unknown		10/13/2024 14:53	Finished	SAMP,0.5>10 mL
30	N069148-013A,SAMP	15	1000	Unknown		10/13/2024 15:03	Finished	SAMP,2>10 mL
31	N069148-014A,SAMP	16	1000	Unknown		10/13/2024 15:12	Finished	SAMP,10 mL
32	N069148-015A,SAMP	17	1000	Unknown		10/13/2024 15:22	Finished	SAMP,10 mL
33	N069148-016A,SAMP	18	1000	Unknown		10/13/2024 15:31	Finished	SAMP,10 mL
34	N069149-002A,SAMP	19	1000	Unknown		10/13/2024 15:41	Finished	SAMP,10 mL
35	N069149-003A,SAMP	20	1000	Unknown		10/13/2024 15:50	Finished	MS (1ppb), IWST-240729B,10r
36	CCV-3,CCV,1,	21	1000	Unknown		10/13/2024 15:59	Finished	CCV @5ppb, IWST-240729A
37	CCB-3,CCB,1,	22	1000	Unknown		10/13/2024 16:09	Finished	CCB R240923C
38	N069149-004A,SAMP	23	1000	Unknown		10/13/2024 16:18	Finished	SAMP,10 mL
39	N069149-005A,SAMP	24	1000	Unknown		10/13/2024 16:28	Finished	SAMP,10 mL
40	N069149-006A,SAMP	25	1000	Unknown		10/13/2024 16:37	Finished	SAMP,10 mL
41	N069149-007A,SAMP	26	1000	Unknown		10/13/2024 16:47	Finished	SAMP,2>10 mL
42	N069149-008A,SAMP	27	1000	Unknown		10/13/2024 16:56	Finished	SAMP,2>10 mL
43	MB-2,MBLK,1,	28	1000	Unknown		10/13/2024 17:06	Finished	MB R240923C
44	LCS-2,LCS,1,	29	1000	Unknown		10/13/2024 17:15	Finished	LCS @5ppb, IWST-240729B
45	N068851-008A,SAMP	30	1000	Unknown		10/13/2024 17:25	Finished	SAMP,2>10 mL
46	N068851-008AMS,M	31	1000	Unknown		10/13/2024 17:34	Finished	MS (1ppb), IWST-240729B,2>
47	CCV-4,CCV1,1,	32	1000	Unknown		10/13/2024 17:43	Finished	CCV @10ppb, IWST-240729A
48	CCB-4,CCB,1,	33	1000	Unknown		10/13/2024 17:53	Finished	CCB R240923C
49	N068851-011A,SAMP	34	1000	Unknown		10/13/2024 18:02	Finished	SAMP,10 mL
50	N068851-011AMS,M	35	1000	Unknown		10/13/2024 18:12	Finished	MS (1ppb), IWST-240729B,10r
51	N068902-005A,SAMP	36	1000	Unknown		10/13/2024 18:21	Finished	SAMP,10 mL
52	N068902-005AMS,M	37	1000	Unknown		10/13/2024 18:31	Finished	MS (1ppb), IWST-240729B,10r
53	N068903-002A,SAMP	38	1000	Unknown		10/13/2024 18:40	Finished	SAMP,10 mL
54	N068903-002AMS,M	39	1000	Unknown		10/13/2024 18:50	Finished	MS (1ppb), IWST-240729B,10r
55	N068903-003A,SAMP	40	1000	Unknown		10/13/2024 18:59	Finished	SAMP,10 mL
56	N068903-003AMS,M	41	1000	Unknown		10/13/2024 19:09	Finished	MS (1ppb), IWST-240729B,10r
57	N068943-015A,SAMP	42	1000	Unknown		10/13/2024 19:18	Finished	SAMP,10 mL
58	N068943-015AMS,M	43	1000	Unknown		10/13/2024 19:28	Finished	MS (1ppb), IWST-240729B,10r
59	N068964-003A,SAMP	44	1000	Unknown		10/13/2024 19:37	Finished	SAMP,10 mL
60	N068964-003AMS,M	45	1000	Unknown		10/13/2024 19:46	Finished	MS (1ppb), IWST-240729B,10r

61	CCV-5,CCV,1,	46	1000	Unknown		10/13/2024 19:56	Finished	CCV @5ppb, IWST-240729A
62	CCB-5,CCB,1,	47	1000	Unknown		10/13/2024 20:05	Finished	CCB R240923C
63	BLANK	48	1000	Unknown		10/13/2024 20:15	Finished	BLANK
64	SHUTDOWN	49	1000	Unknown		10/13/2024 20:24	Finished	
65	Eluent: R241012A	50	1000	Unknown		n.a.	Finished	
66	PCR: R241012B	51	1000	Unknown		n.a.	Finished	

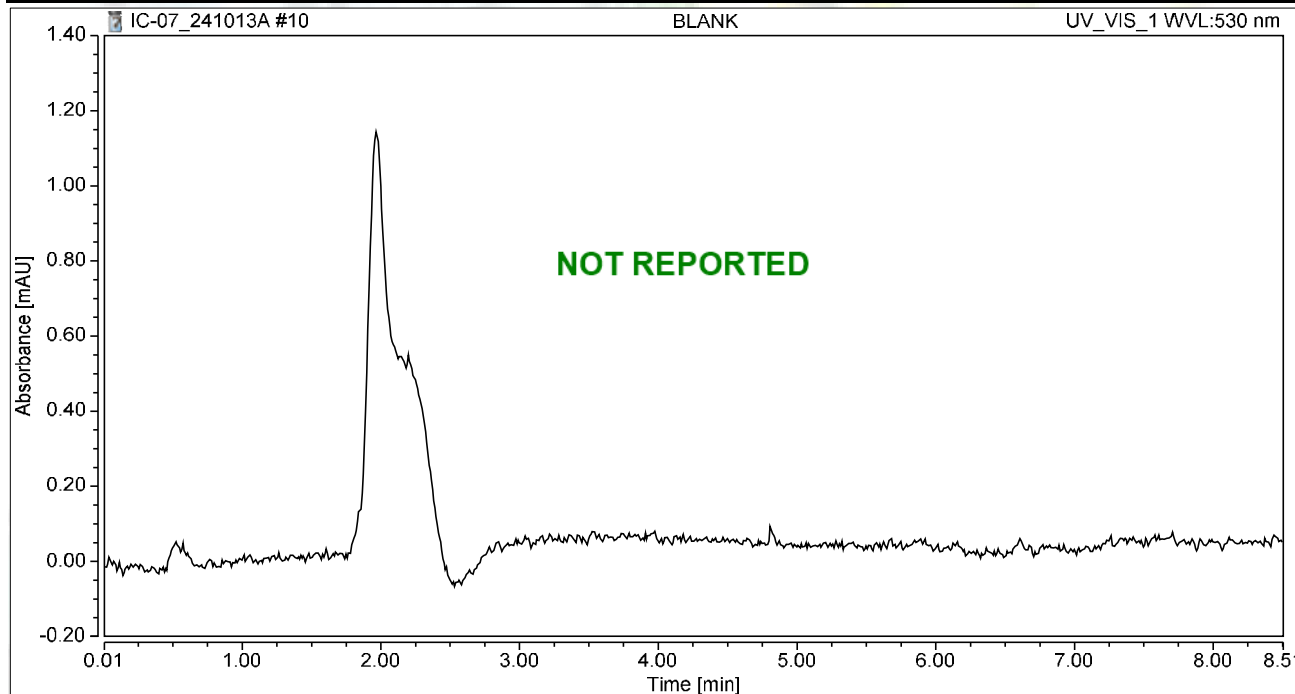


Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 11:43	Sample Weight:	1.0000

Chromatogram



Integration Results

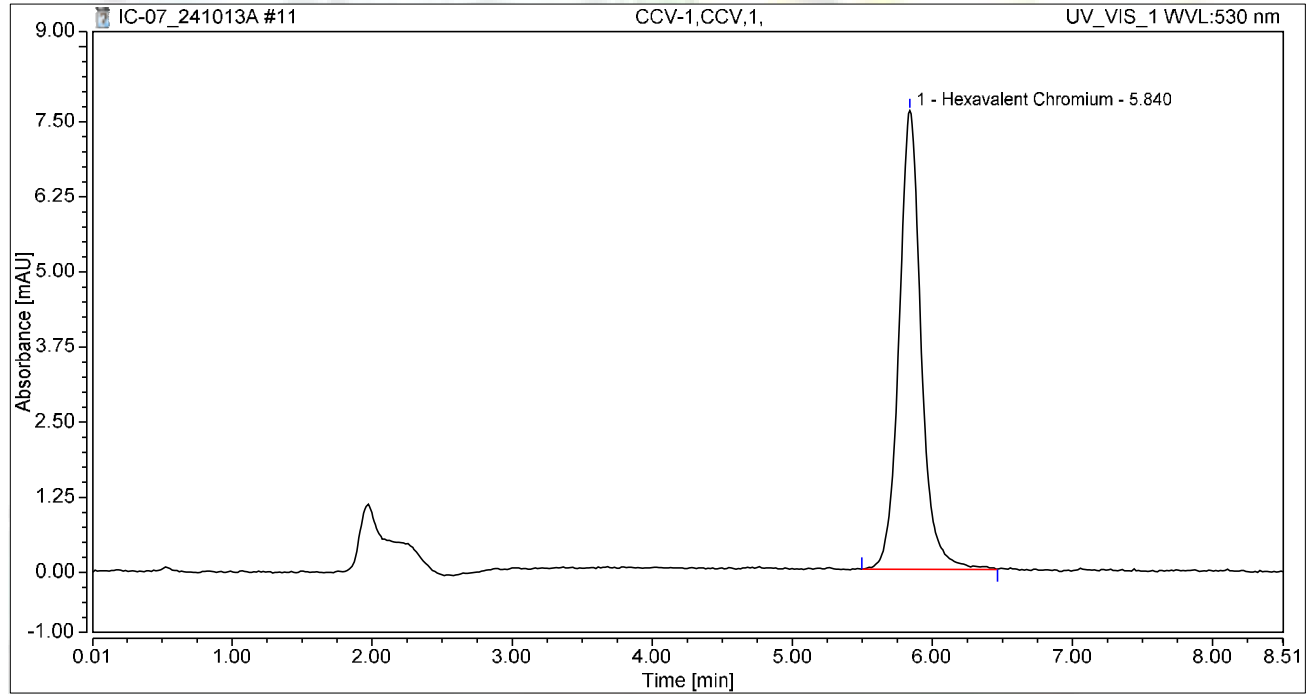
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-1,CCV,1,	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 11:56	Sample Weight:	1.0000

Chromatogram



Integration Results

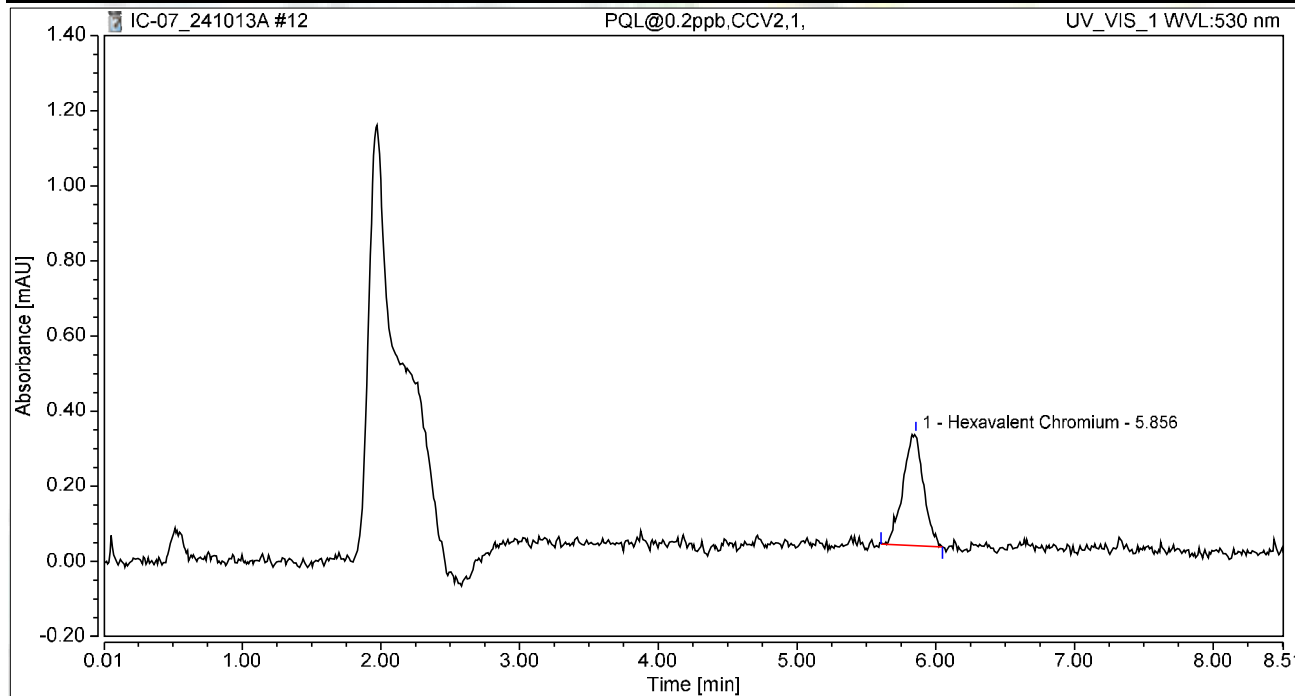
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.840	1.397	7.636	100.00	100.00	5.1464
Total:			1.397	7.636	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 12:05	Sample Weight:	1.0000

Chromatogram



Integration Results

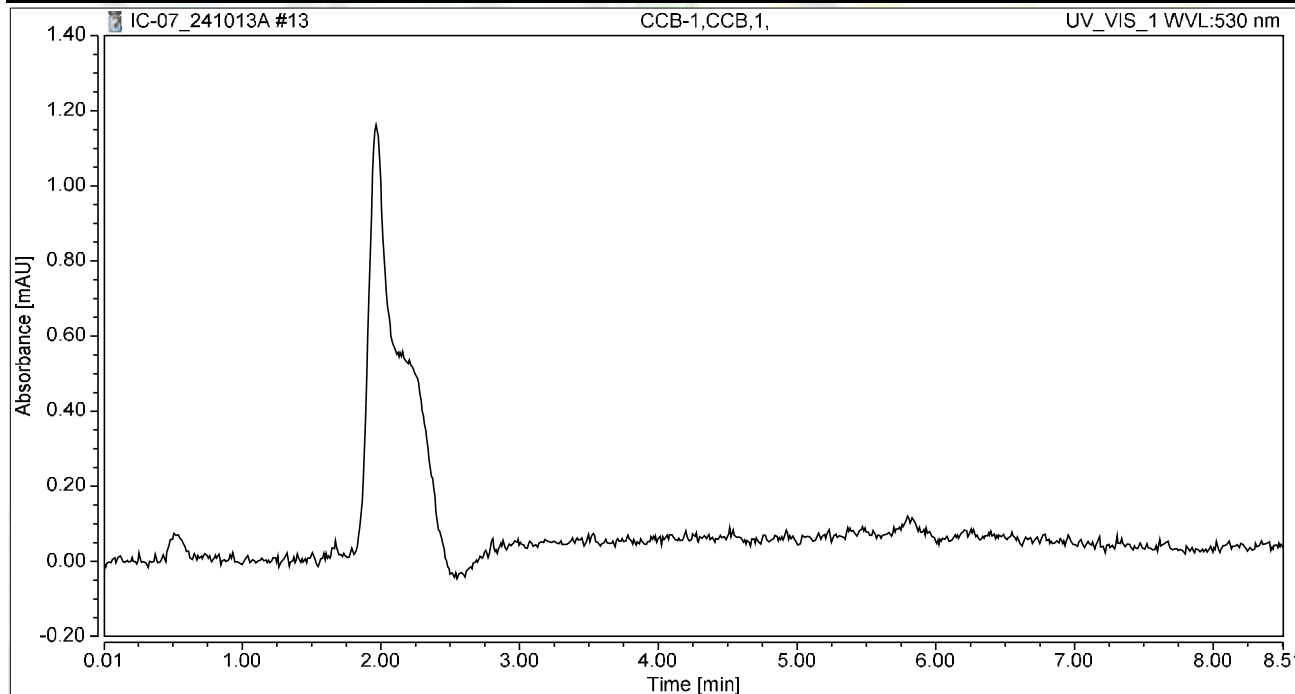
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.856	0.051	0.298	100.00	100.00	0.1875
Total:			0.051	0.298	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-1,CCB,1,	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 12:15	Sample Weight:	1.0000

Chromatogram



Integration Results

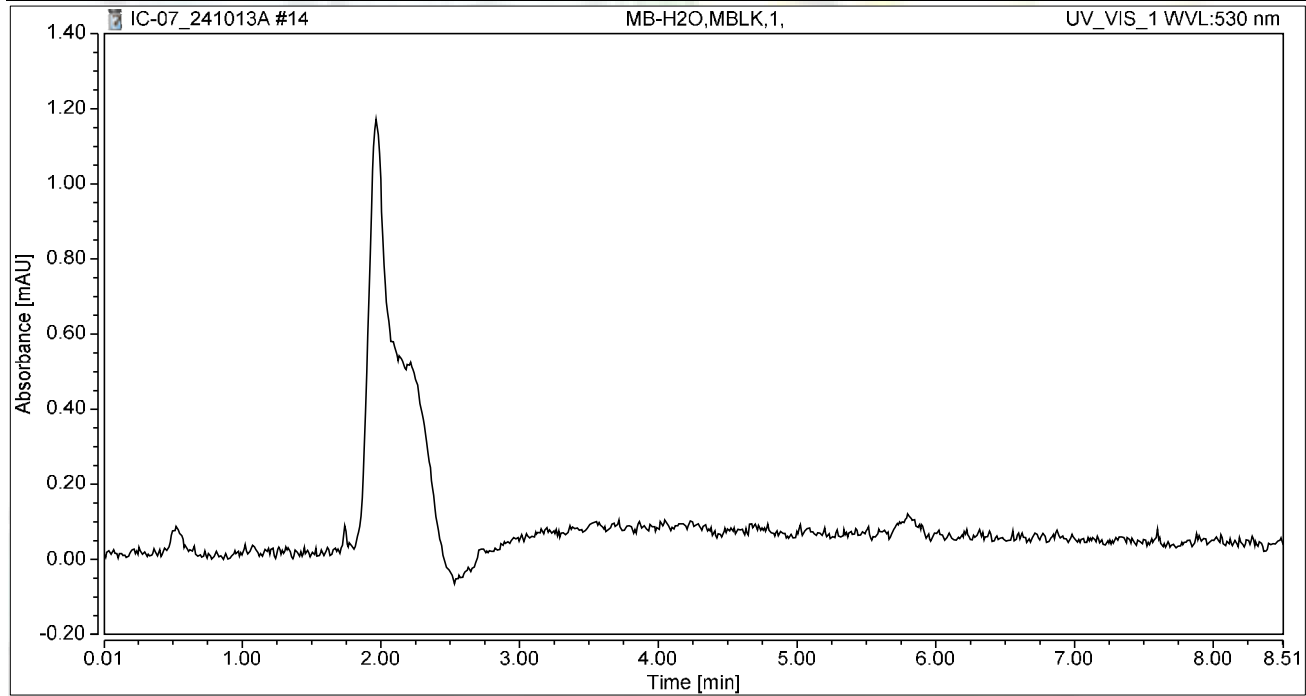
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 12:24	Sample Weight:	1.0000

Chromatogram



Integration Results

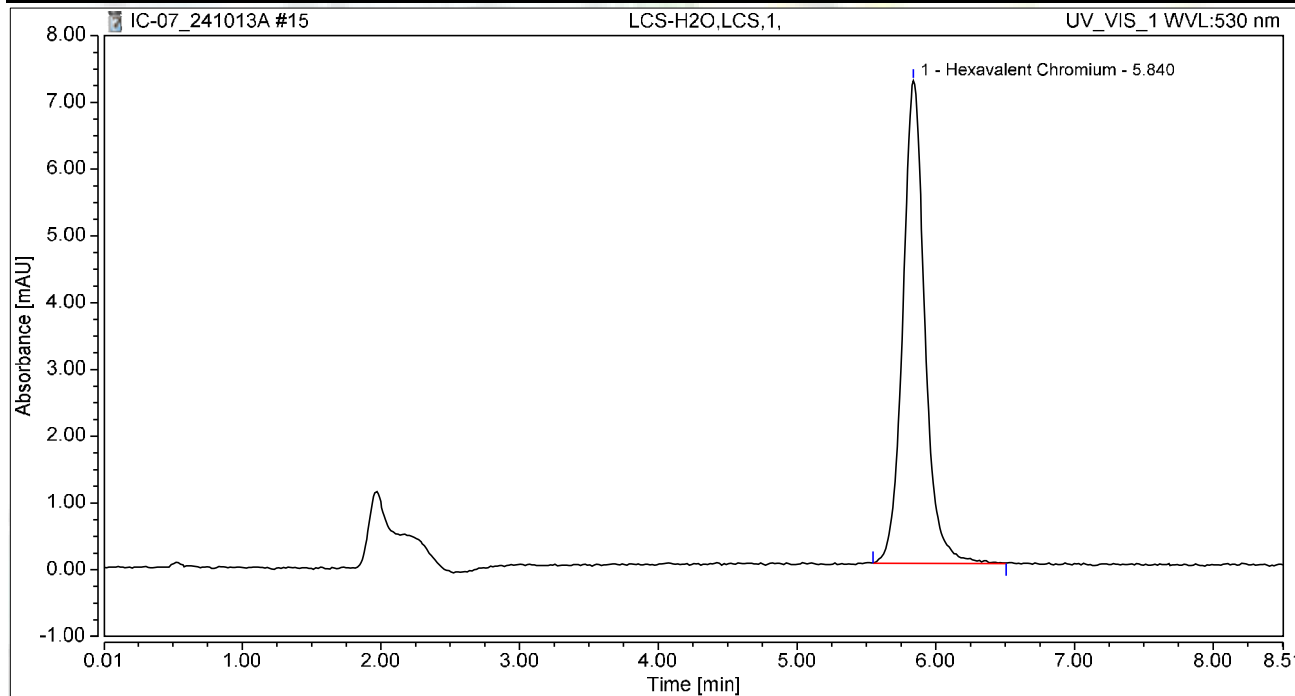
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-H2O,LCS,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 12:34	Sample Weight:	1.0000

Chromatogram



Integration Results

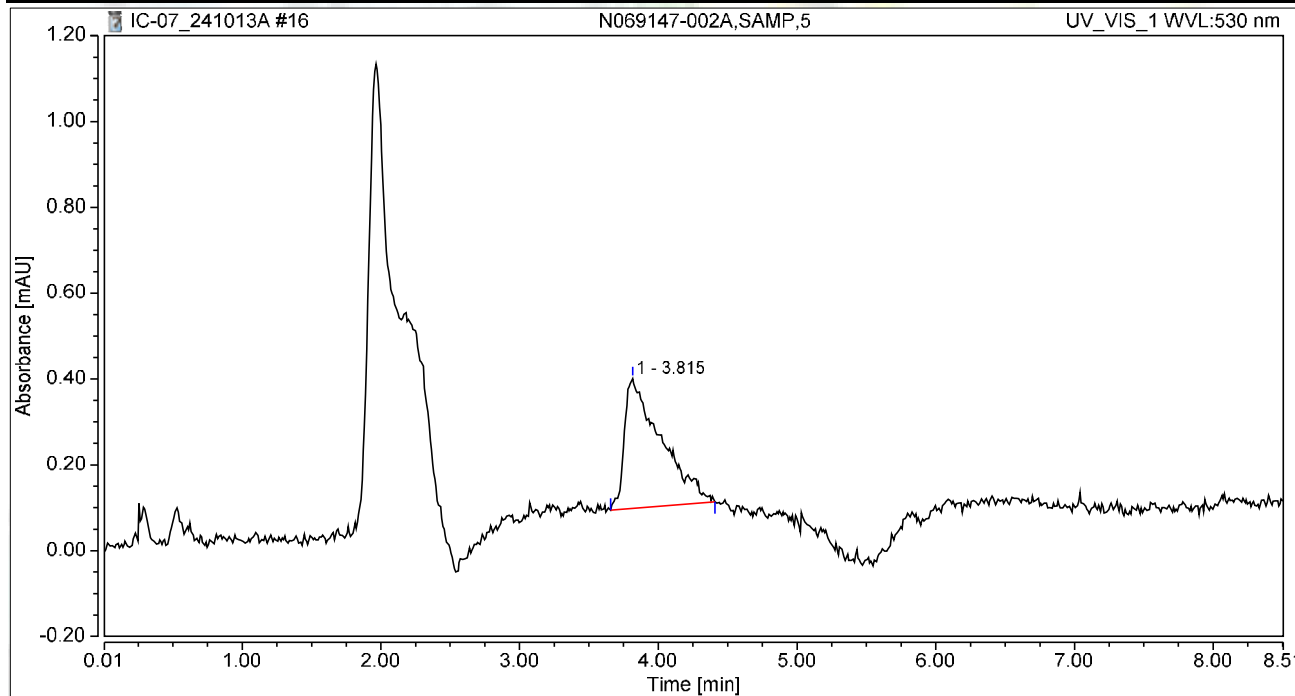
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.840	1.327	7.226	100.00	100.00	4.8890
Total:			1.327	7.226	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-002A,SAMP,5	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 12:48	Sample Weight:	1.0000

Chromatogram



Integration Results

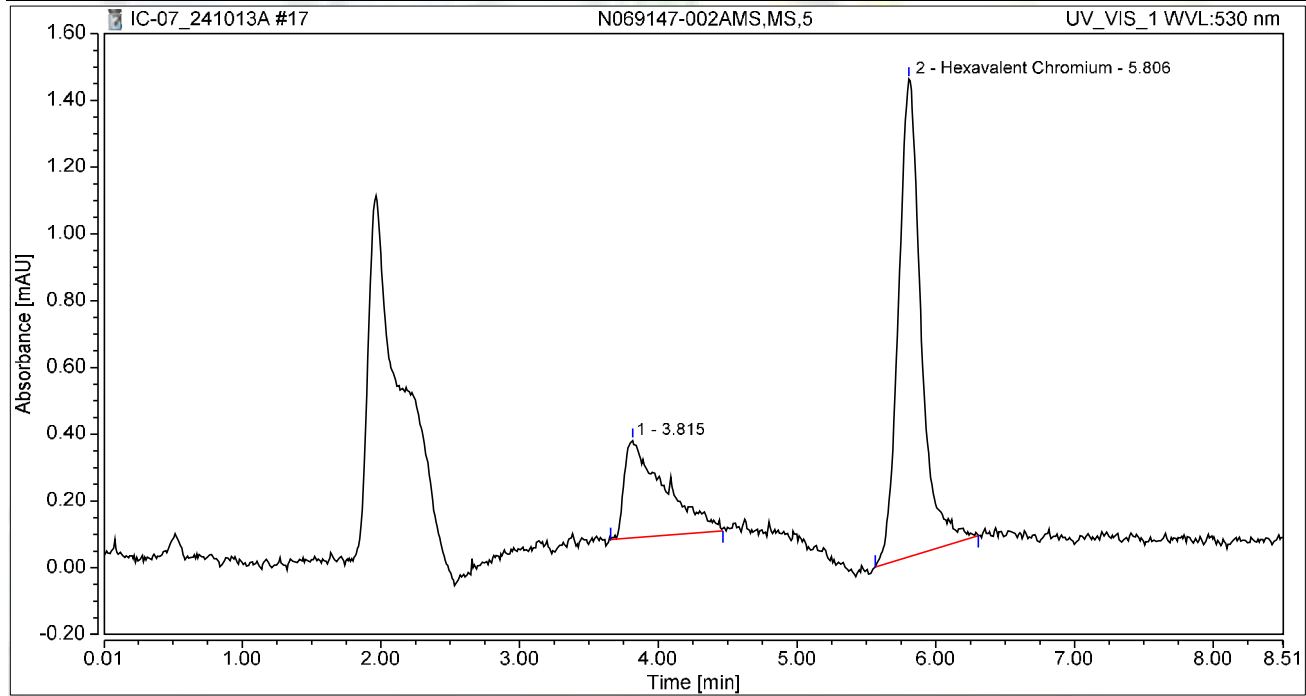
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.815	0.092	0.302	100.00	100.00	n.a.
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.092	0.302	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 13:00	Sample Weight:	1.0000

Chromatogram



Integration Results

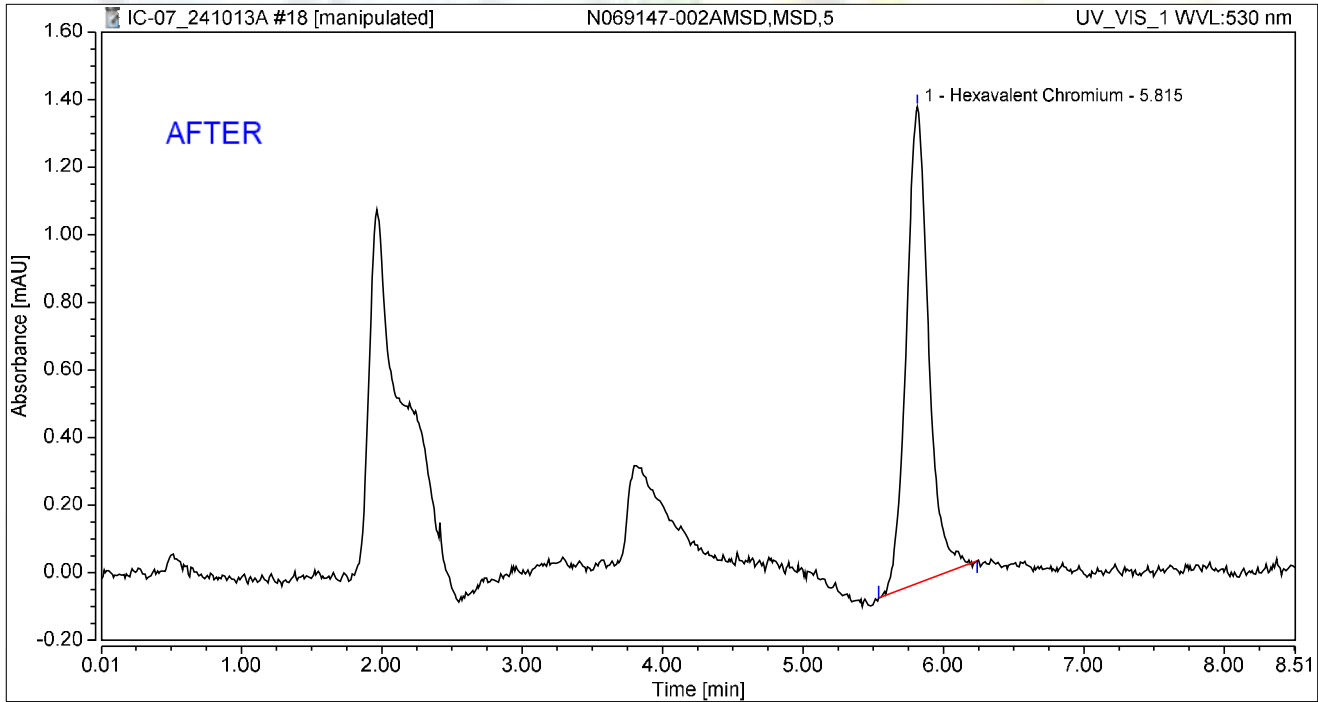
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.815	0.098	0.292	26.59	16.94	n.a.
2	Hexavalent Chromium	5.806	0.271	1.431	73.41	83.06	0.9979
Total:			0.369	1.723	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069147-002AMSD,MSD,5	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 13:09	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.815	0.258	1.411	100.00	100.00	0.9510
Total:			0.258	1.411	100.00	100.00	

Reviewed by:

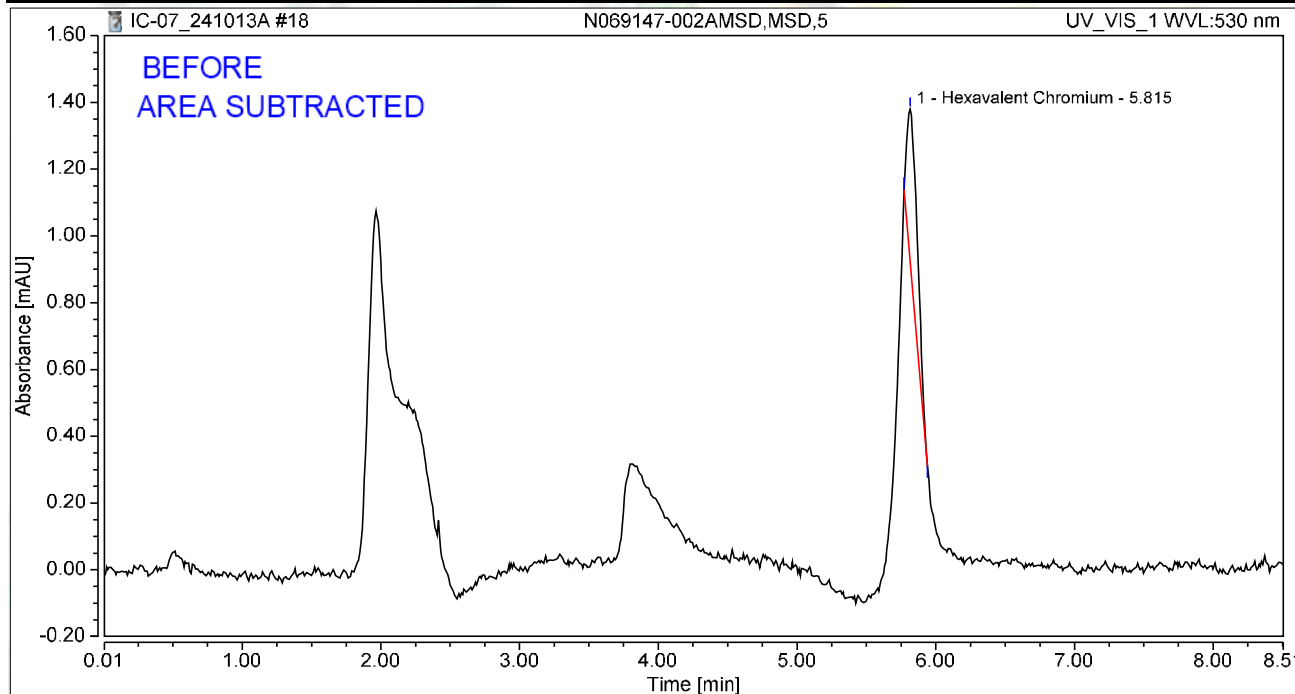
d/Rocha 10/22/2024

Chromatogram and Results

Injection Details

Injection Name:	N069147-002AMSD,MSD,5	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 13:09	Sample Weight:	1.0000

Chromatogram



Integration Results

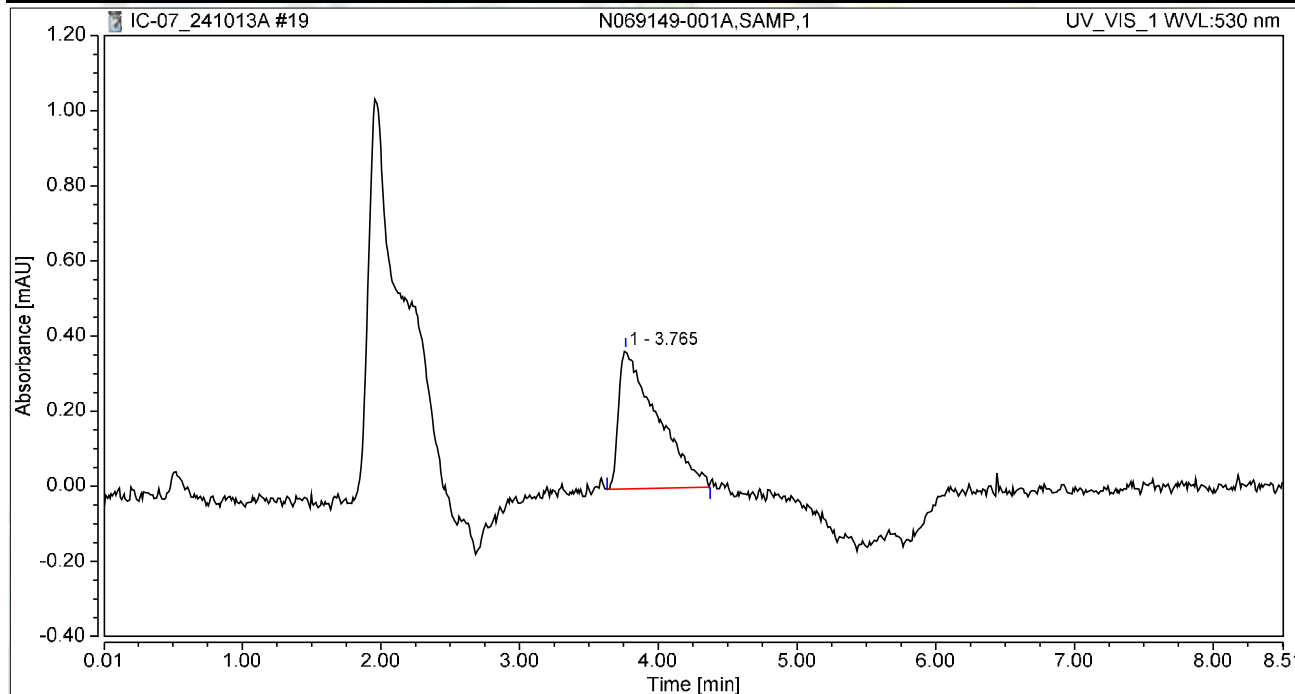
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.815	0.042	0.448	100.00	100.00	0.1531
Total:			0.042	0.448	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069149-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 13:19	Sample Weight:	1.0000

Chromatogram



Integration Results

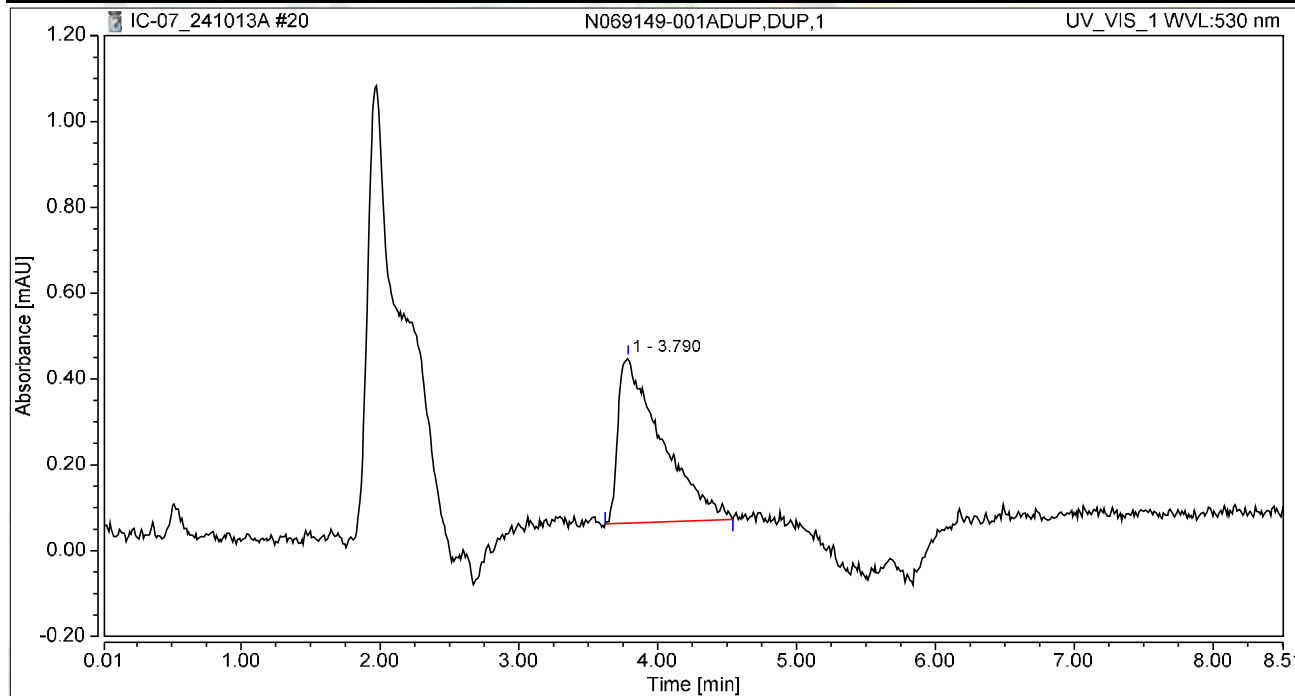
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.765	0.119	0.370	100.00	100.00	n.a.
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.119	0.370	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069149-001ADUP,DUP,1	Run Time (min):	8.49
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 13:28	Sample Weight:	1.0000

Chromatogram



Integration Results

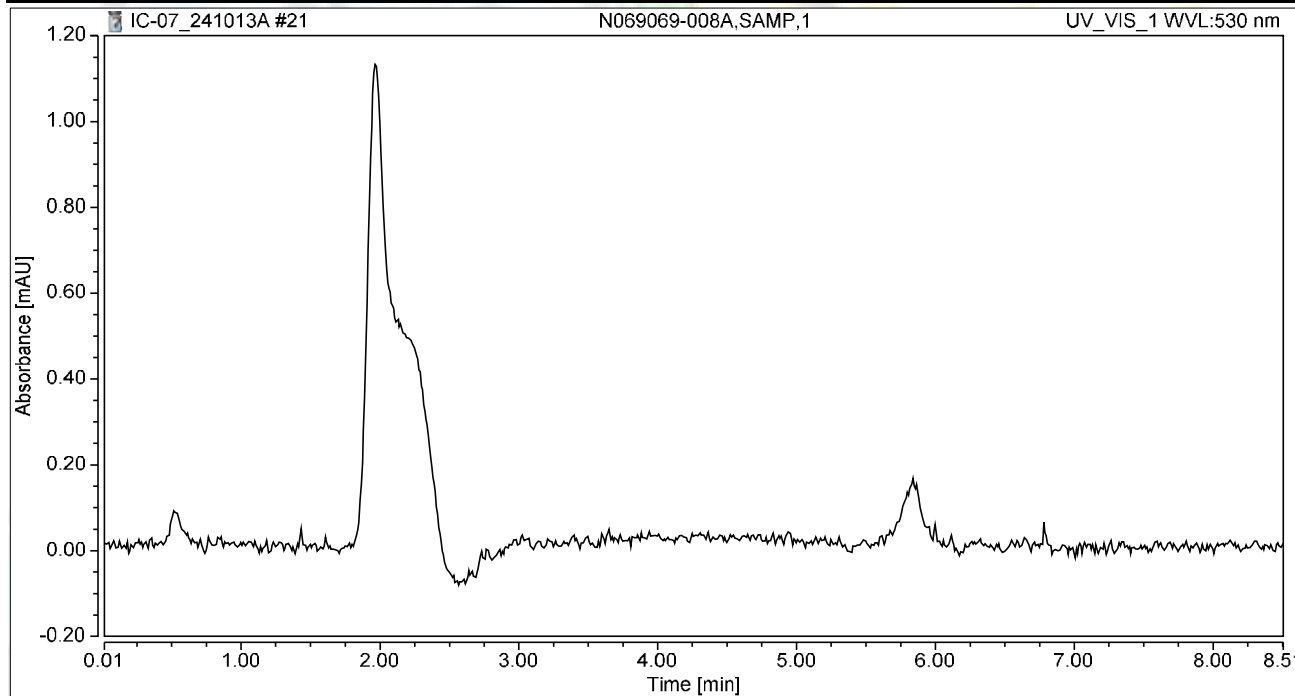
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.790	0.140	0.386	100.00	100.00	n.a.
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.140	0.386	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069069-008A,SAMP,1	Run Time (min):	8.49
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 13:38	Sample Weight:	1.0000

Chromatogram



Integration Results

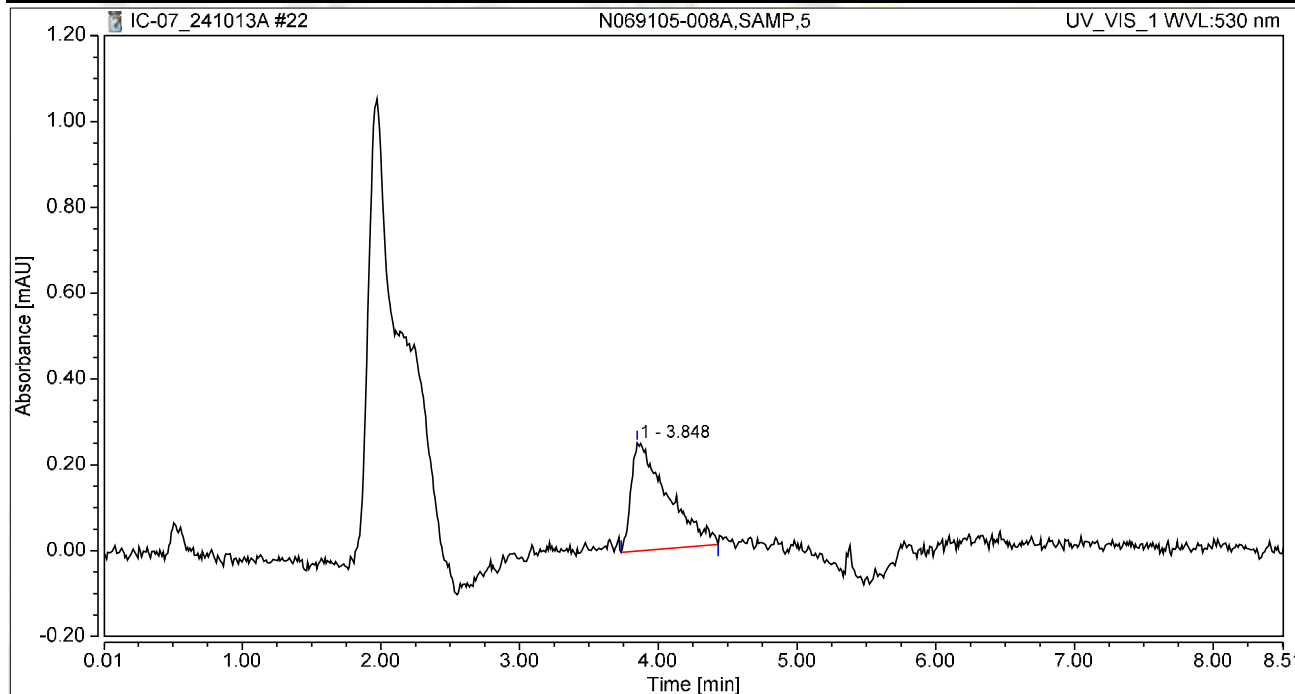
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069105-008A,SAMP,5	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 13:47	Sample Weight:	1.0000

Chromatogram



Integration Results

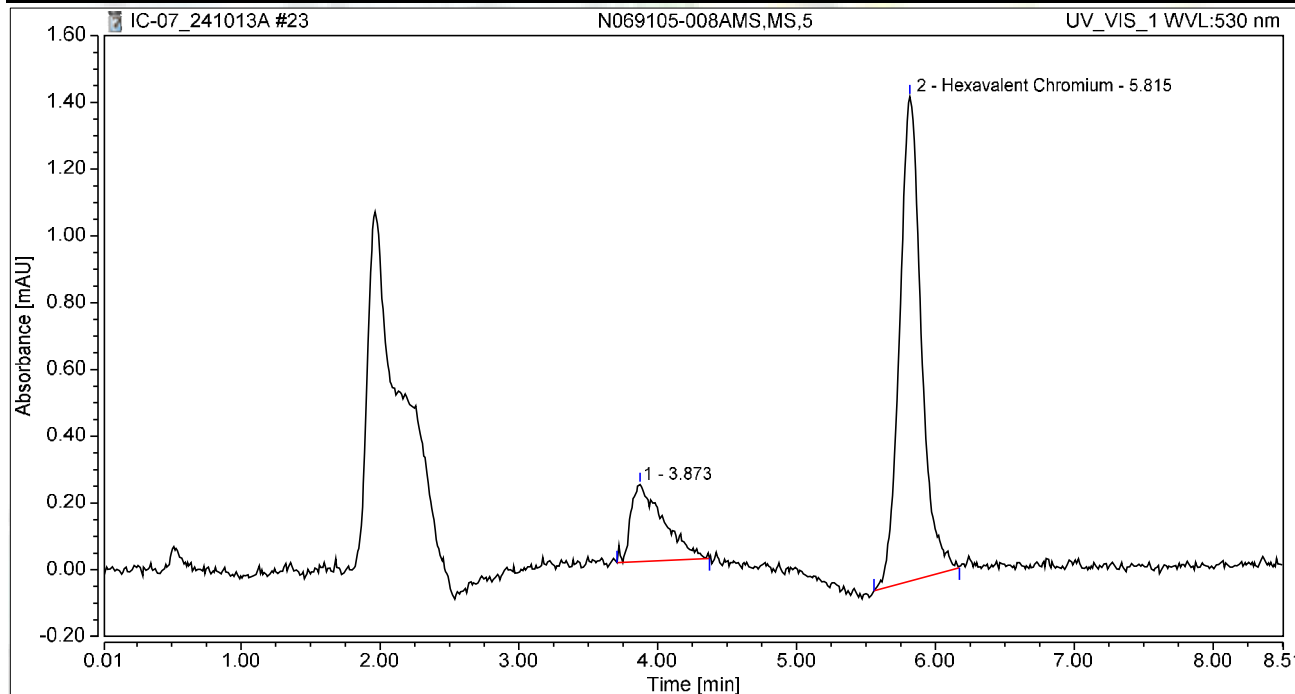
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.848	0.076	0.252	100.00	100.00	n.a.
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.076	0.252	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069105-008AMS,MS,5	Run Time (min):	8.49
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 13:57	Sample Weight:	1.0000

Chromatogram



Integration Results

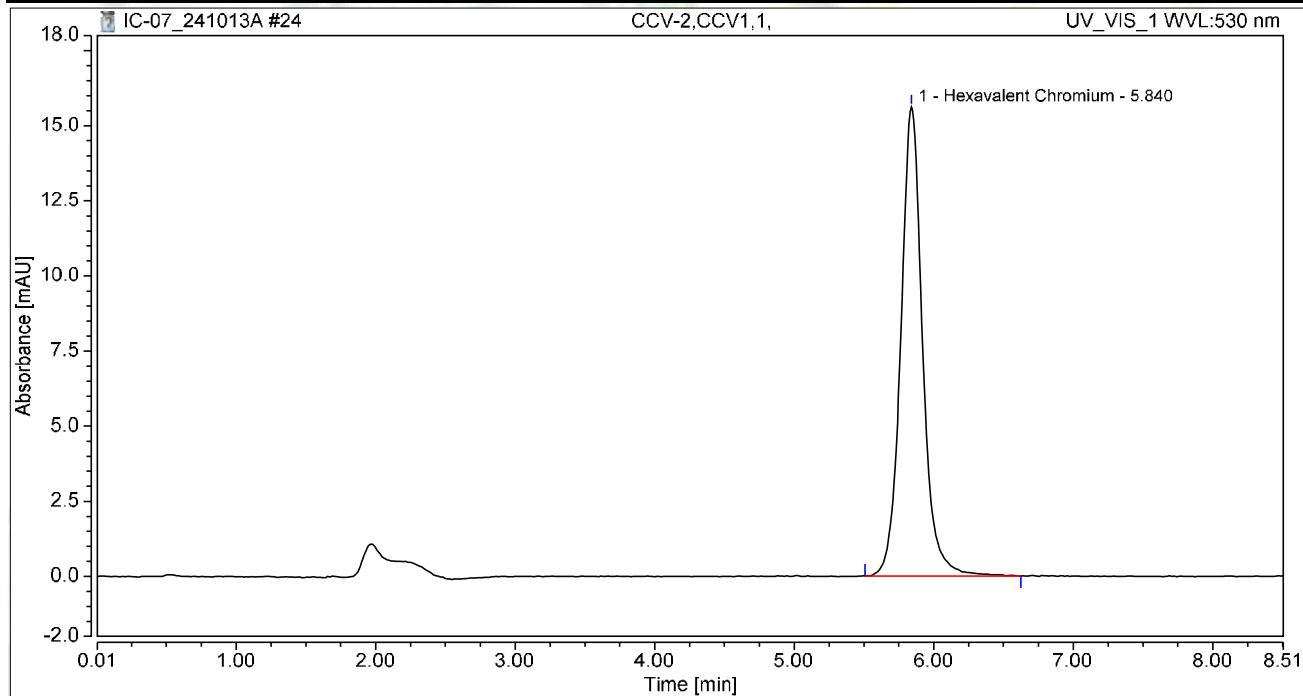
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.873	0.064	0.231	19.40	13.75	n.a.
2	Hexavalent Chromium	5.815	0.264	1.452	80.60	86.25	0.9718
Total:			0.327	1.683	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-2,CCV1,1,	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 14:06	Sample Weight:	1.0000

Chromatogram



Integration Results

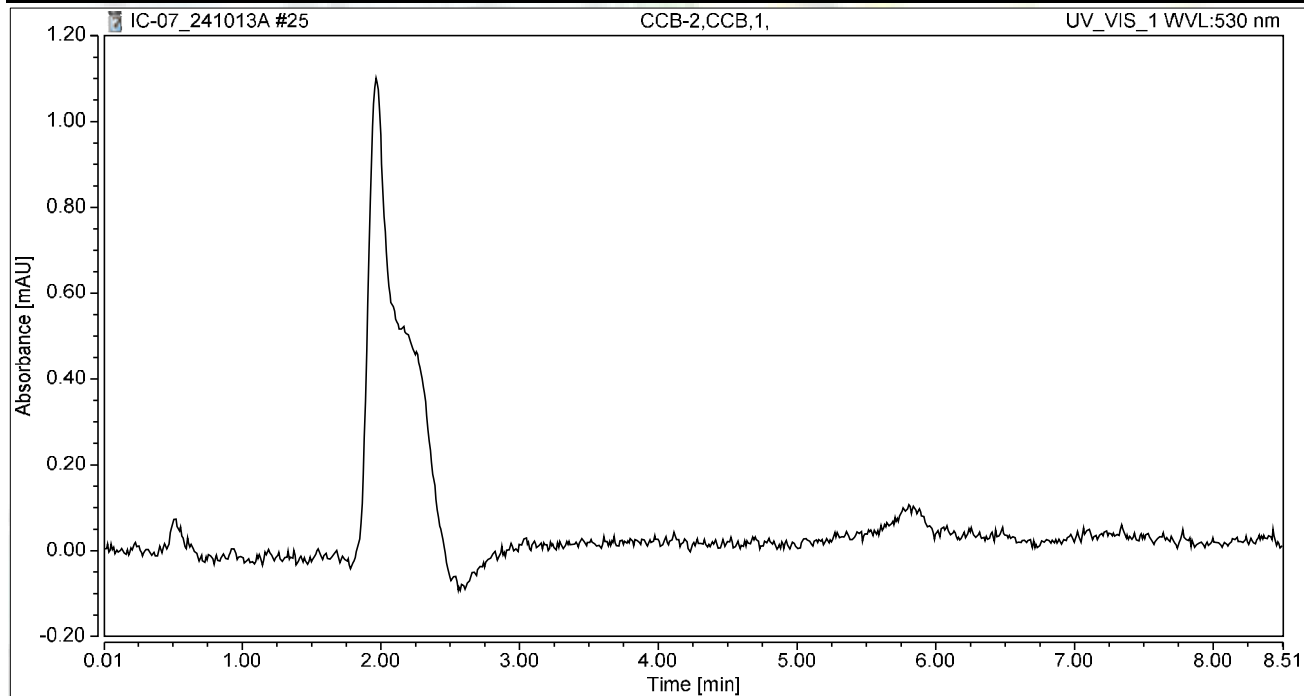
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.840	2.810	15.612	100.00	100.00	10.3495
Total:			2.810	15.612	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-2,CCB,1,	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 14:15	Sample Weight:	1.0000

Chromatogram



Integration Results

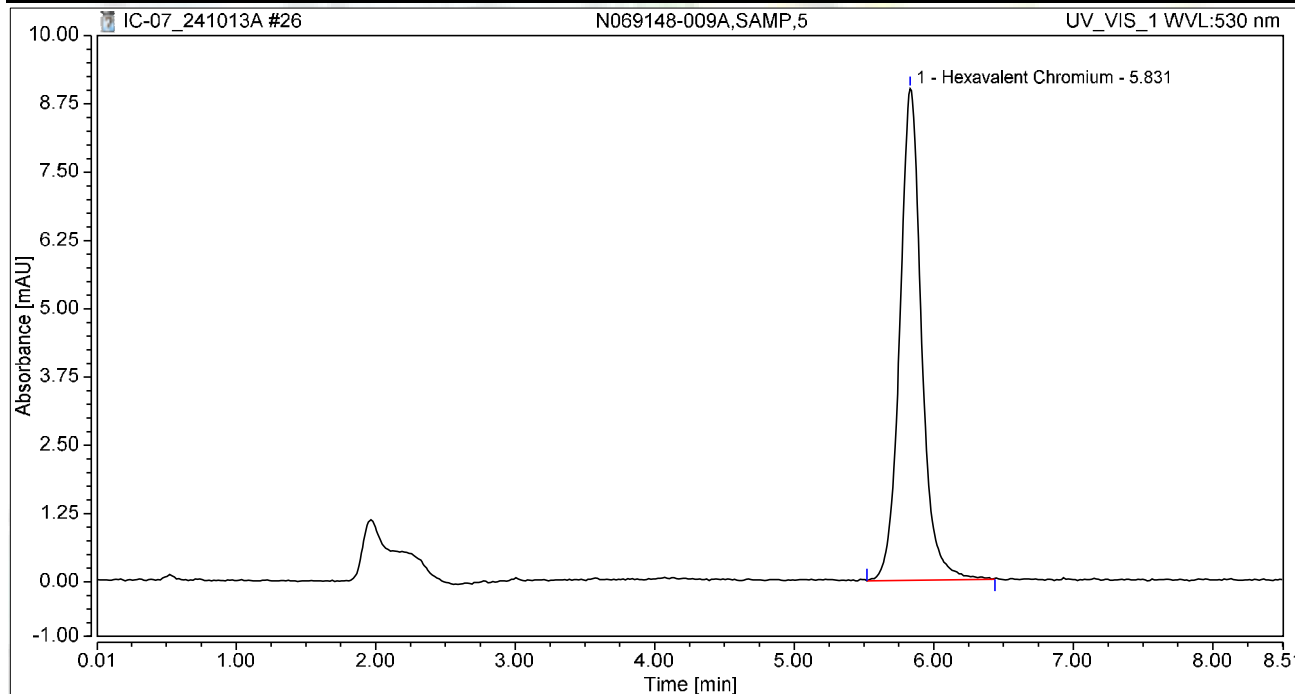
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069148-009A,SAMP,5	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 14:25	Sample Weight:	1.0000

Chromatogram



Integration Results

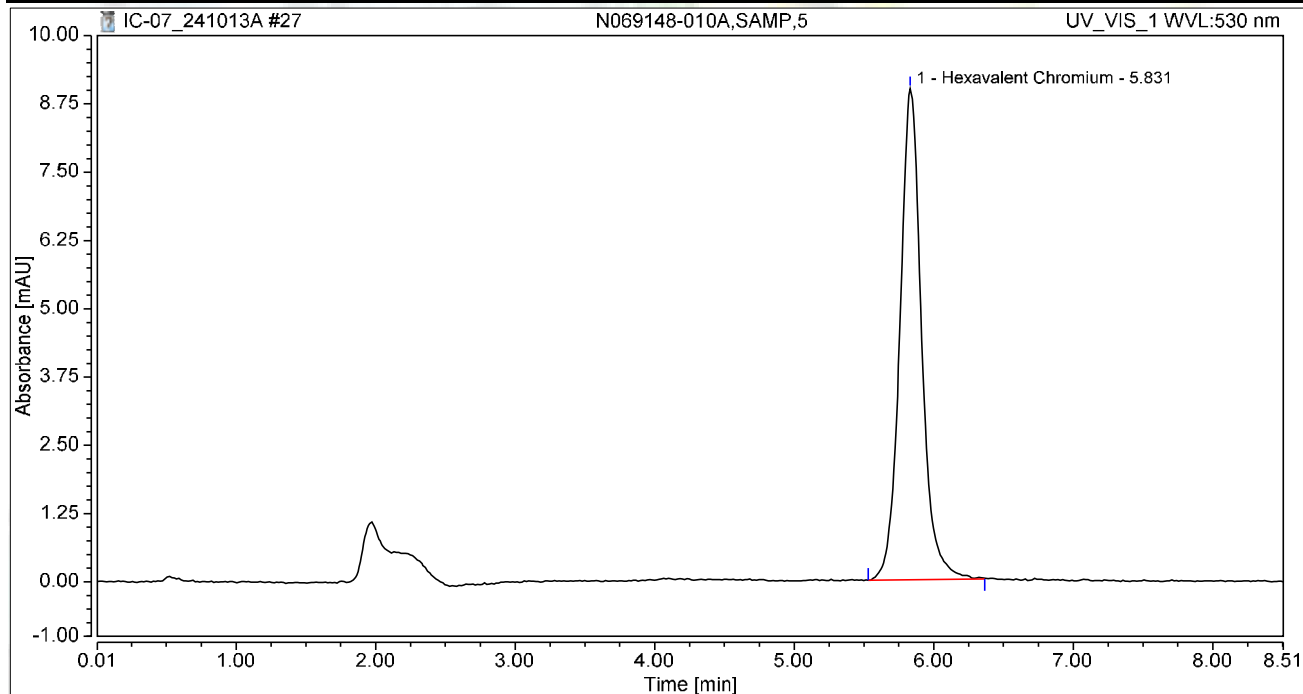
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.831	1.624	9.000	100.00	100.00	5.9834
Total:			1.624	9.000	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069148-010A,SAMP,5	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 14:34	Sample Weight:	1.0000

Chromatogram



Integration Results

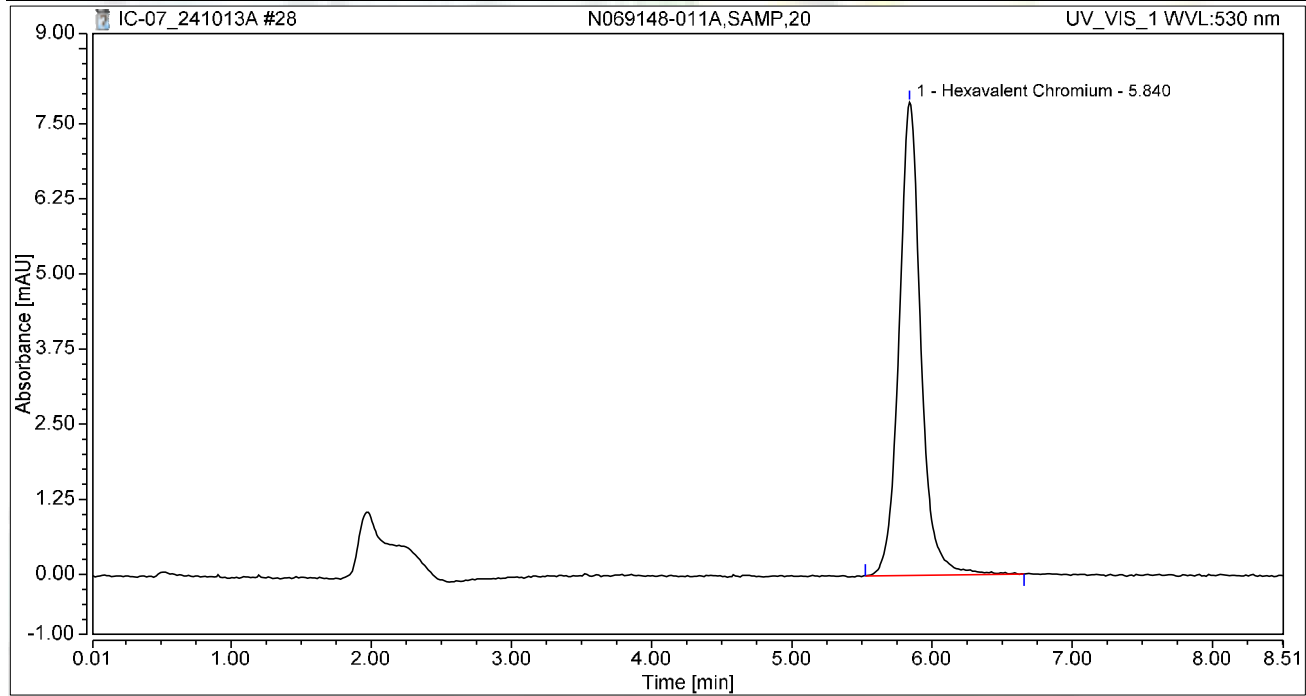
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.831	1.615	8.989	100.00	100.00	5.9506
Total:			1.615	8.989	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069148-011A,SAMP,20	Run Time (min):	8.49
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 14:44	Sample Weight:	1.0000

Chromatogram



Integration Results

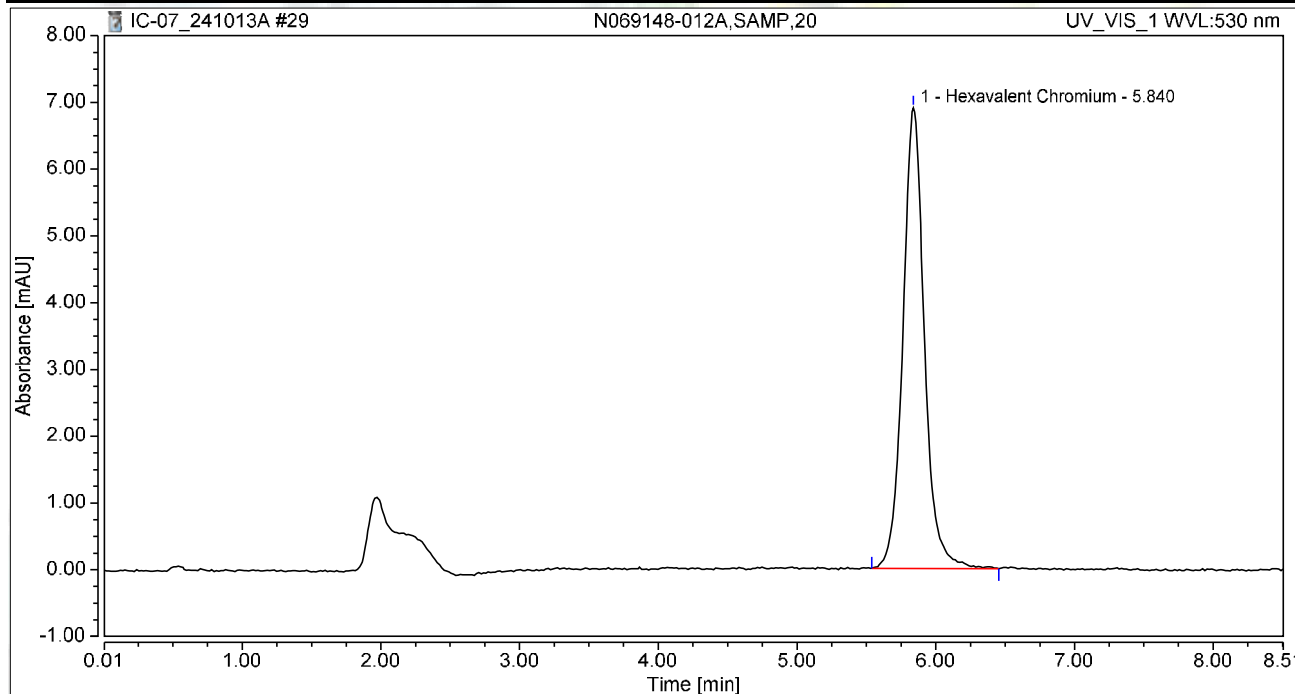
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.840	1.422	7.872	100.00	100.00	5.2378
Total:			1.422	7.872	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069148-012A,SAMP,20	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 14:53	Sample Weight:	1.0000

Chromatogram



Integration Results

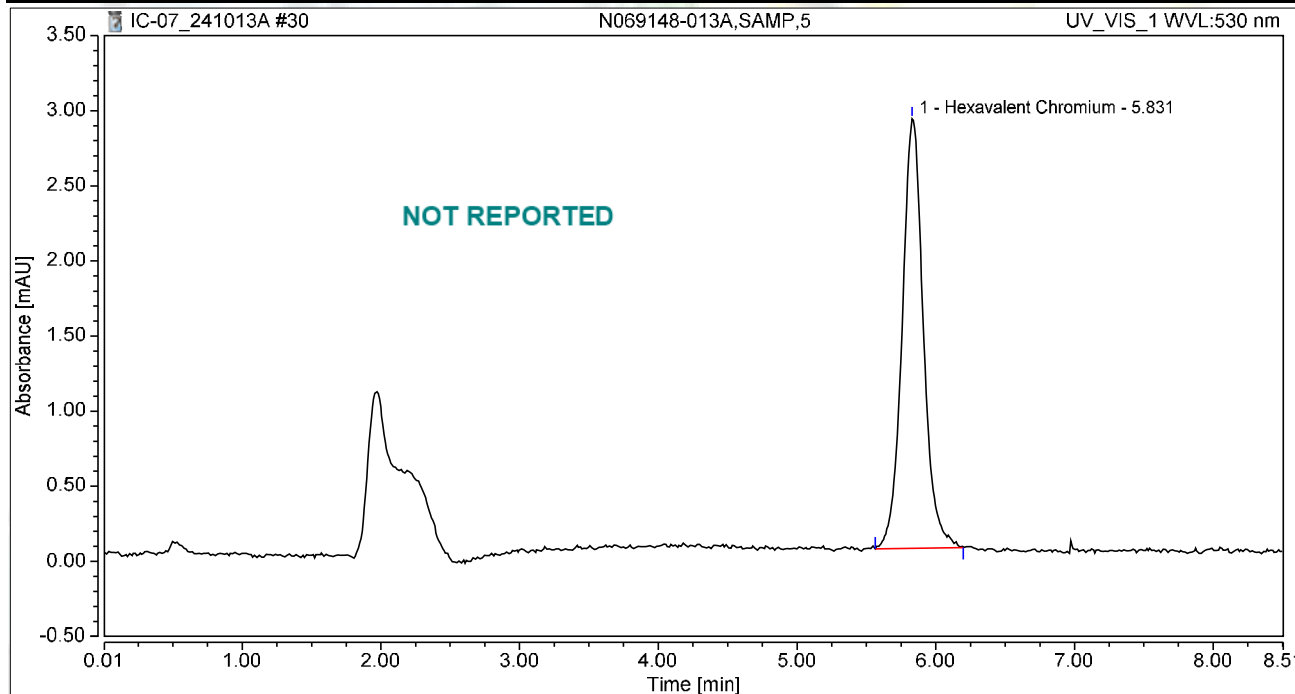
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.840	1.240	6.903	100.00	100.00	4.5677
Total:			1.240	6.903	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069148-013A,SAMP,5	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 15:03	Sample Weight:	1.0000

Chromatogram



Integration Results

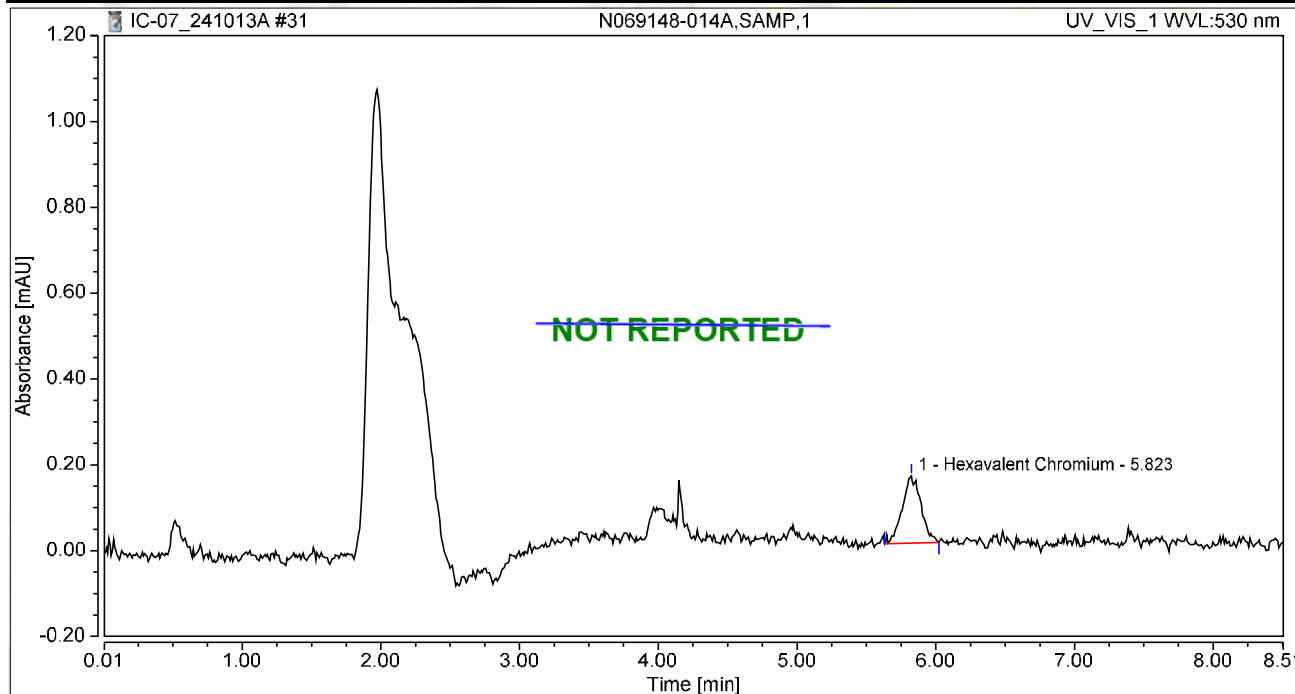
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.831	0.506	2.859	100.00	100.00	1.8647
Total:			0.506	2.859	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069148-014A,SAMP,1	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 15:12	Sample Weight:	1.0000

Chromatogram



Integration Results

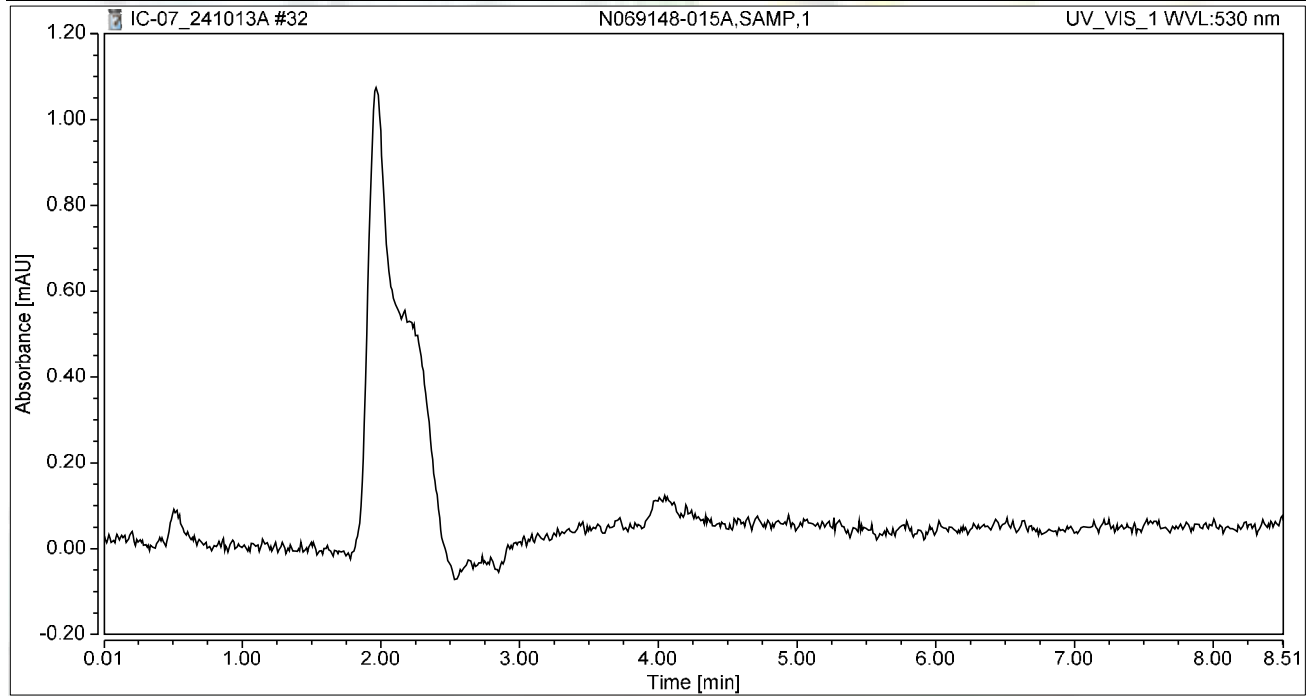
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.823	0.024	0.156	100.00	100.00	0.0896
Total:			0.024	0.156	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069148-015A,SAMP,1	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 15:22	Sample Weight:	1.0000

Chromatogram



Integration Results

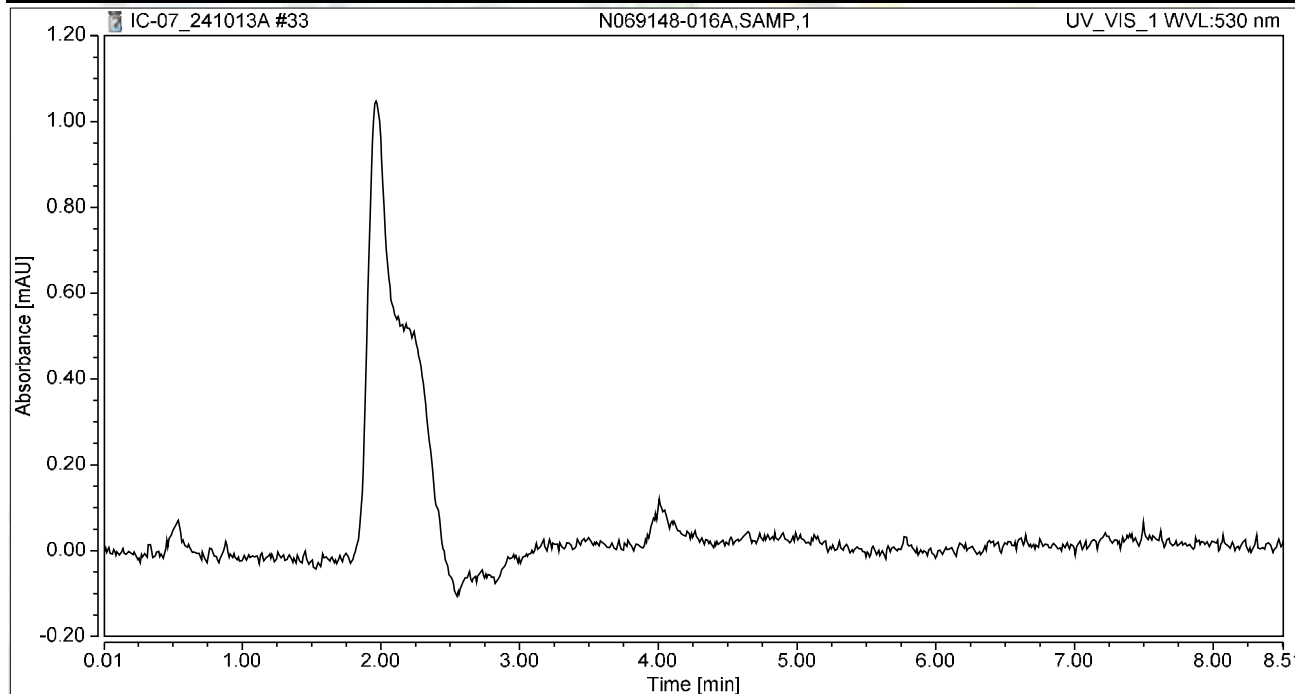
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069148-016A,SAMP,1	Run Time (min):	8.50
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 15:31	Sample Weight:	1.0000

Chromatogram



Integration Results

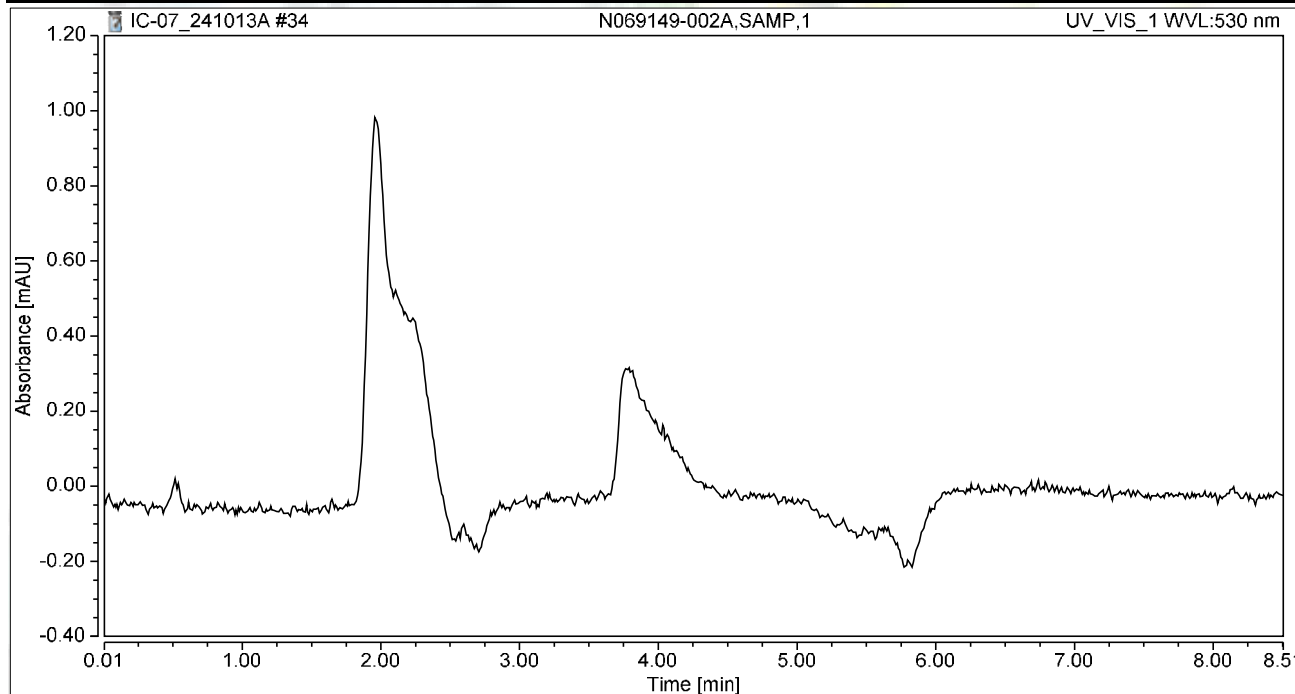
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069149-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 15:41	Sample Weight:	1.0000

Chromatogram



Integration Results

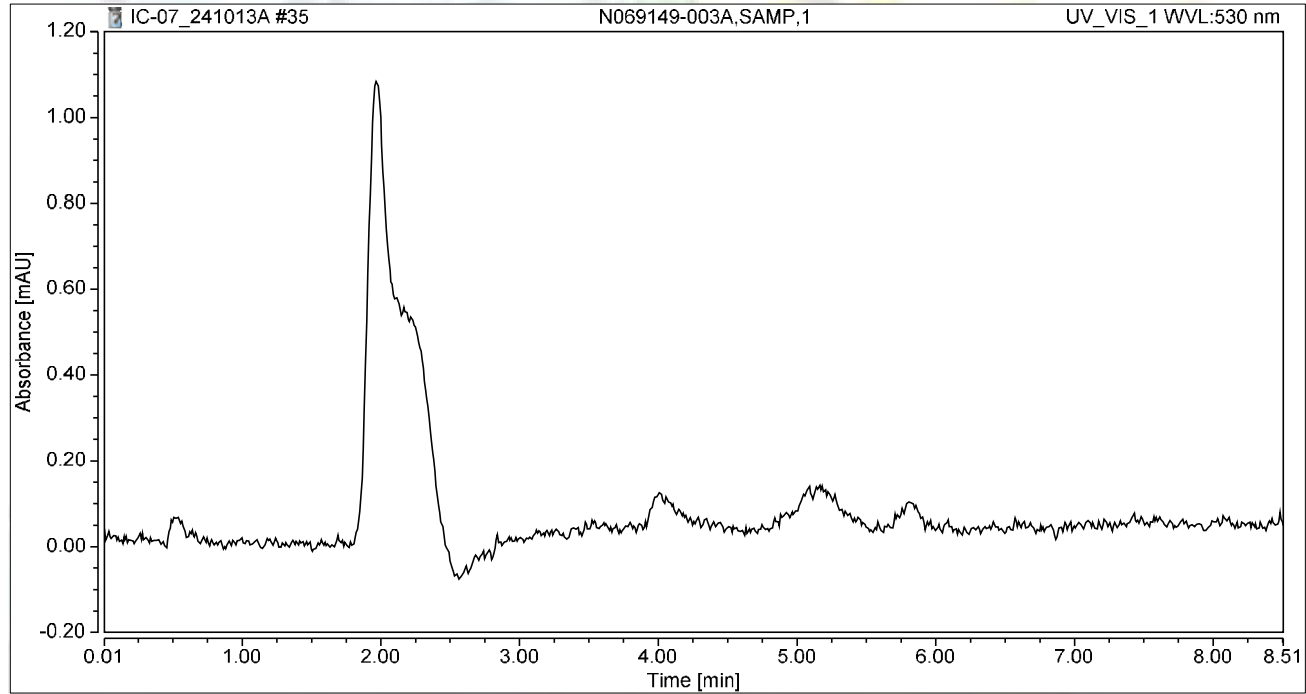
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069149-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 15:50	Sample Weight:	1.0000

Chromatogram



Integration Results

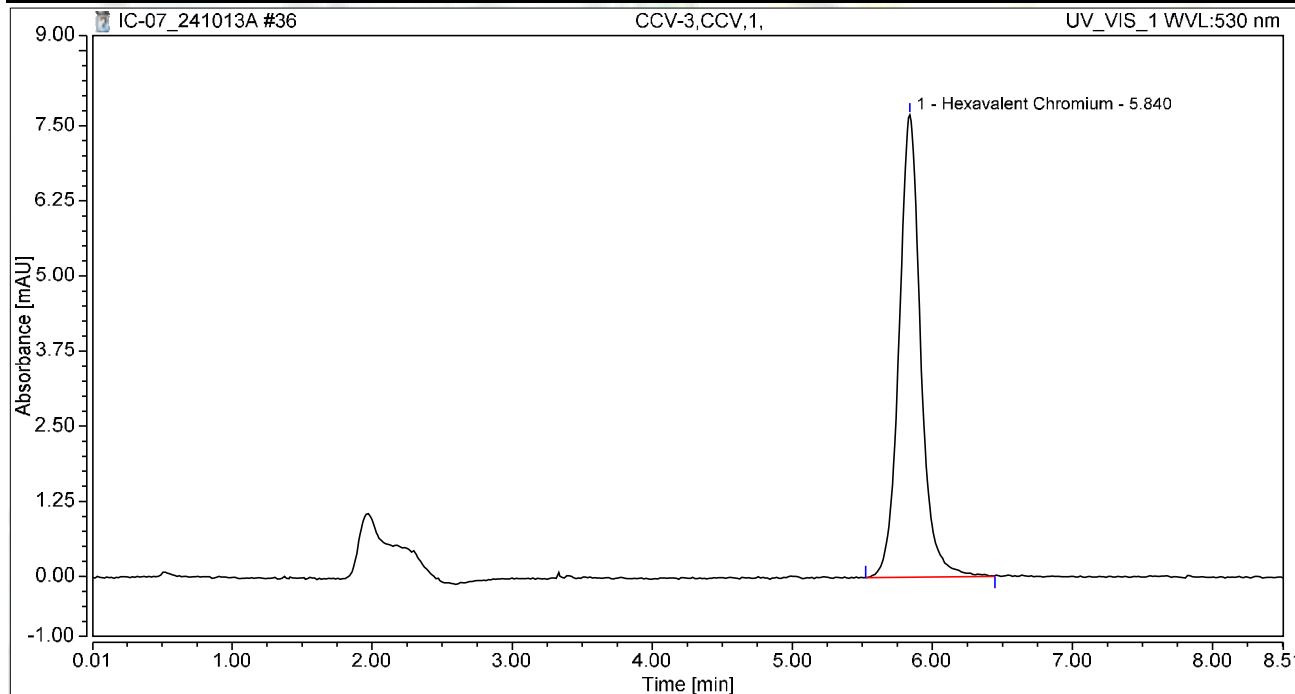
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-3,CCV,1,	Run Time (min):	8.50
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 15:59	Sample Weight:	1.0000

Chromatogram



Integration Results

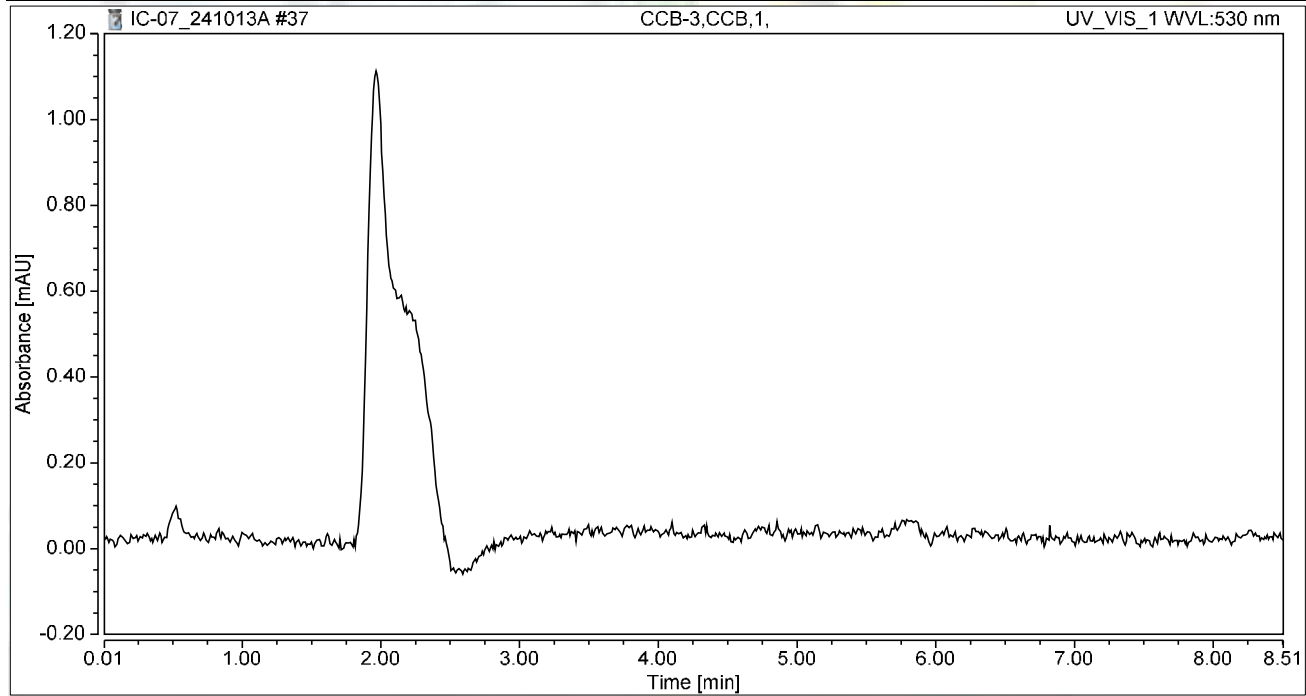
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.840	1.378	7.695	100.00	100.00	5.0757
Total:			1.378	7.695	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-3,CCB,1,	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 16:09	Sample Weight:	1.0000

Chromatogram



Integration Results

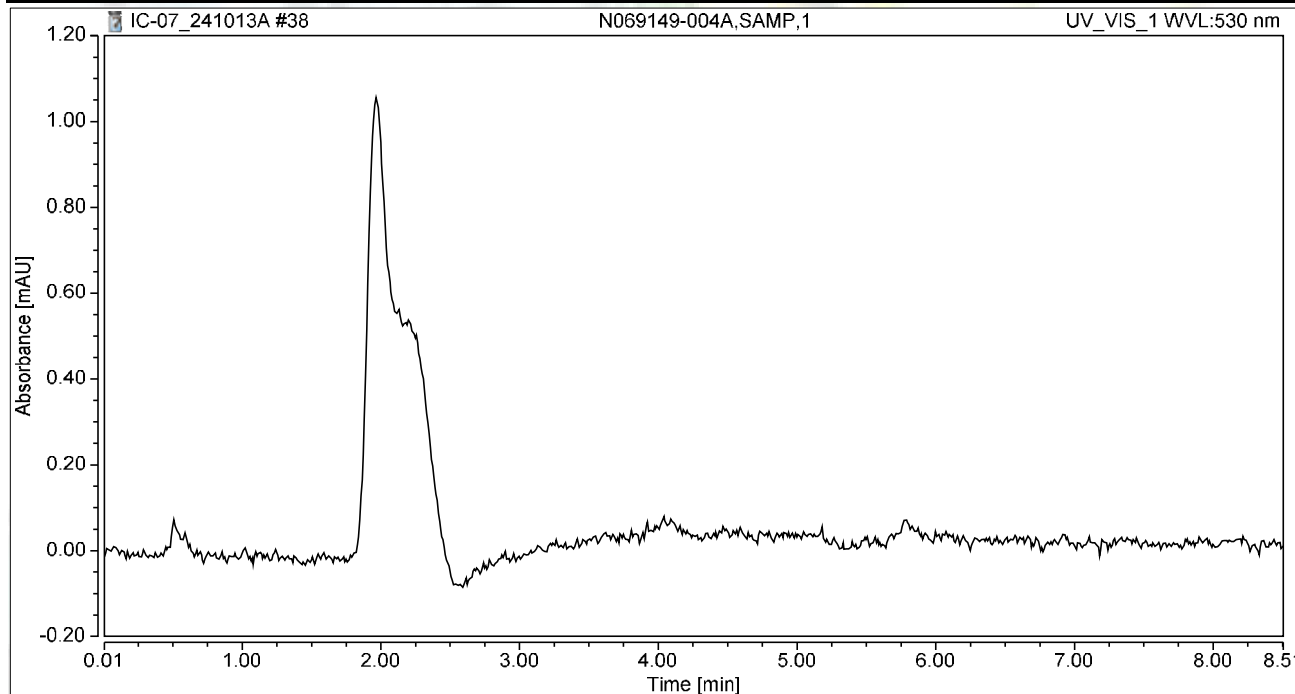
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069149-004A,SAMP,1	Run Time (min):	8.50
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 16:18	Sample Weight:	1.0000

Chromatogram



Integration Results

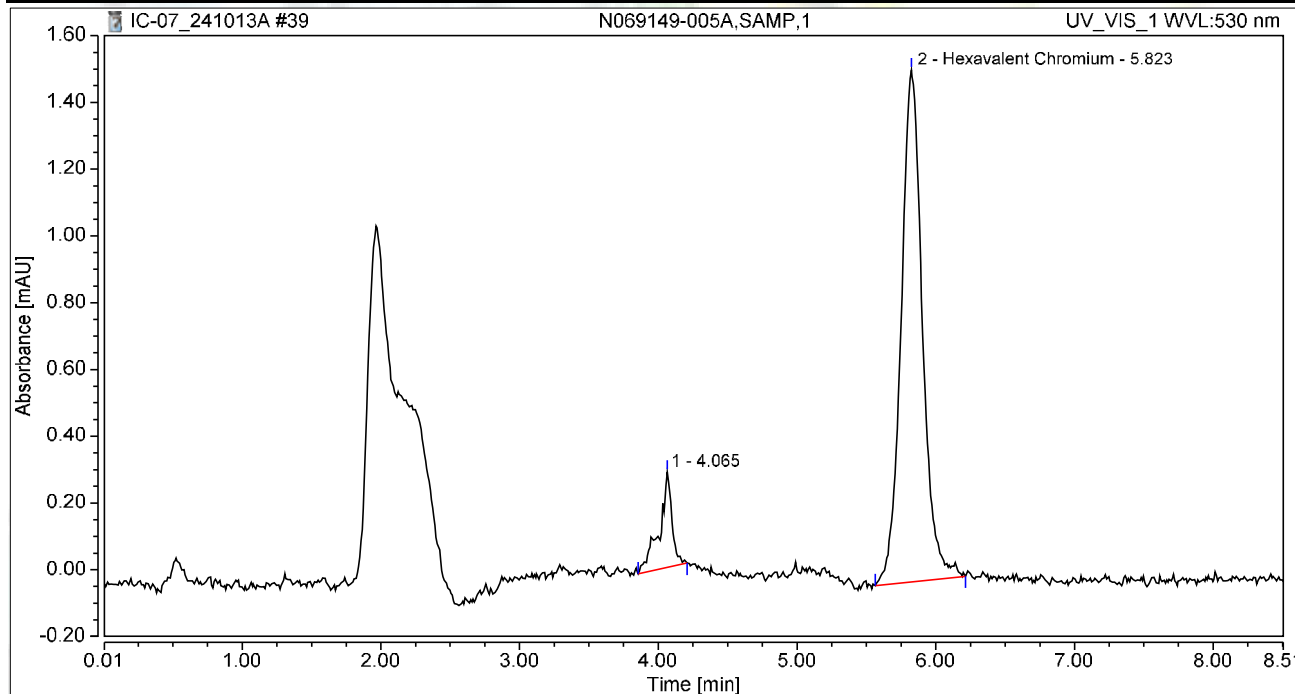
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069149-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 16:28	Sample Weight:	1.0000

Chromatogram



Integration Results

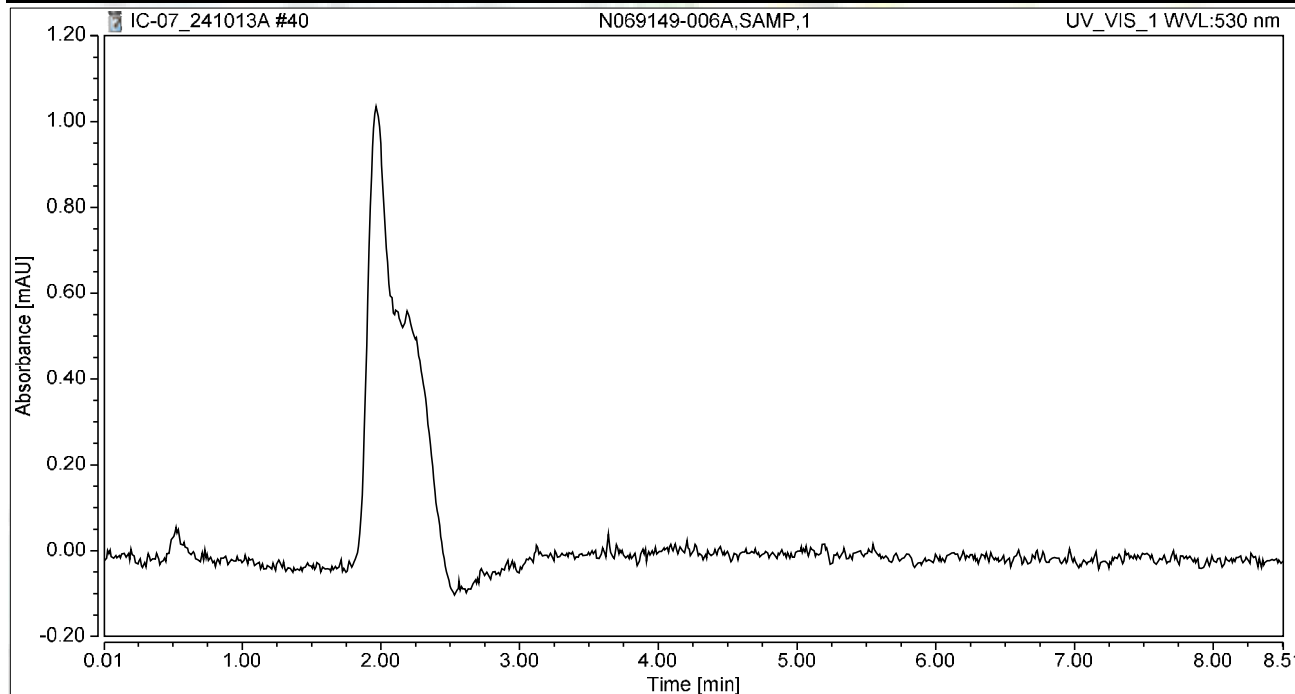
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		4.065	0.030	0.286	9.97	15.71	n.a.
2	Hexavalent Chromium	5.823	0.272	1.534	90.03	84.29	1.0011
Total:			0.302	1.819	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069149-006A,SAMP,1	Run Time (min):	8.50
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 16:37	Sample Weight:	1.0000

Chromatogram



Integration Results

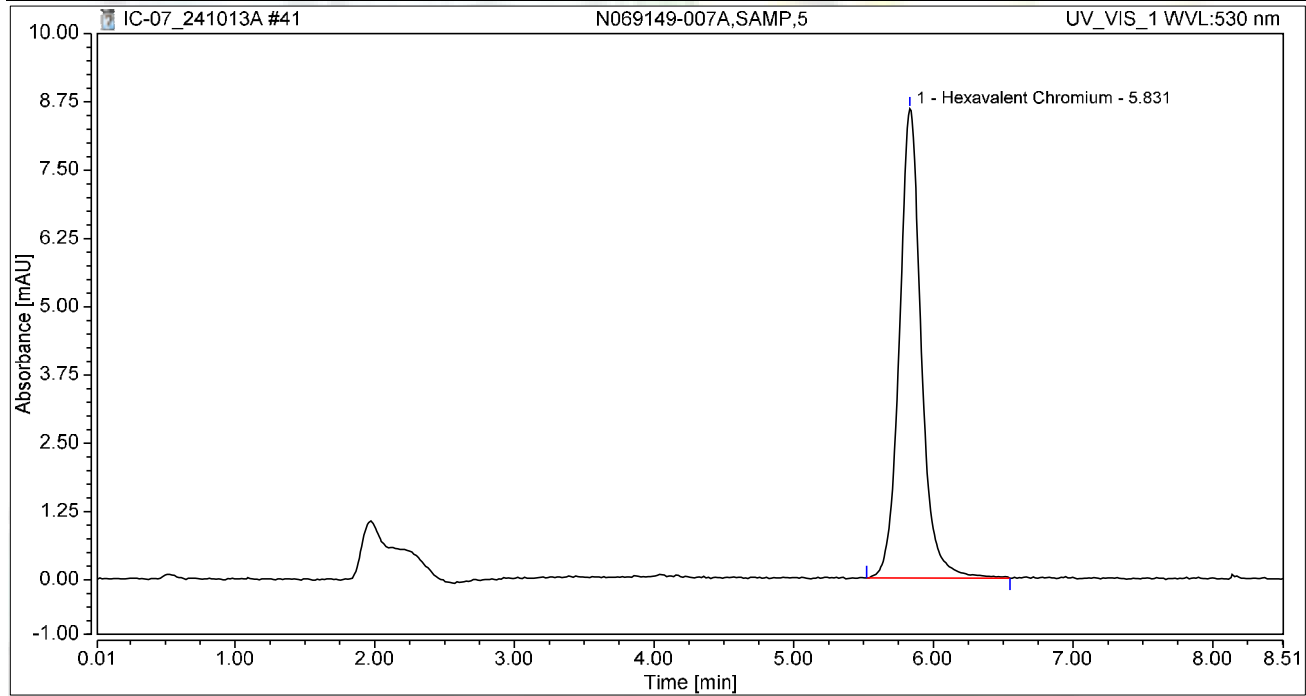
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069149-007A,SAMP,5	Run Time (min):	8.49
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 16:47	Sample Weight:	1.0000

Chromatogram



Integration Results

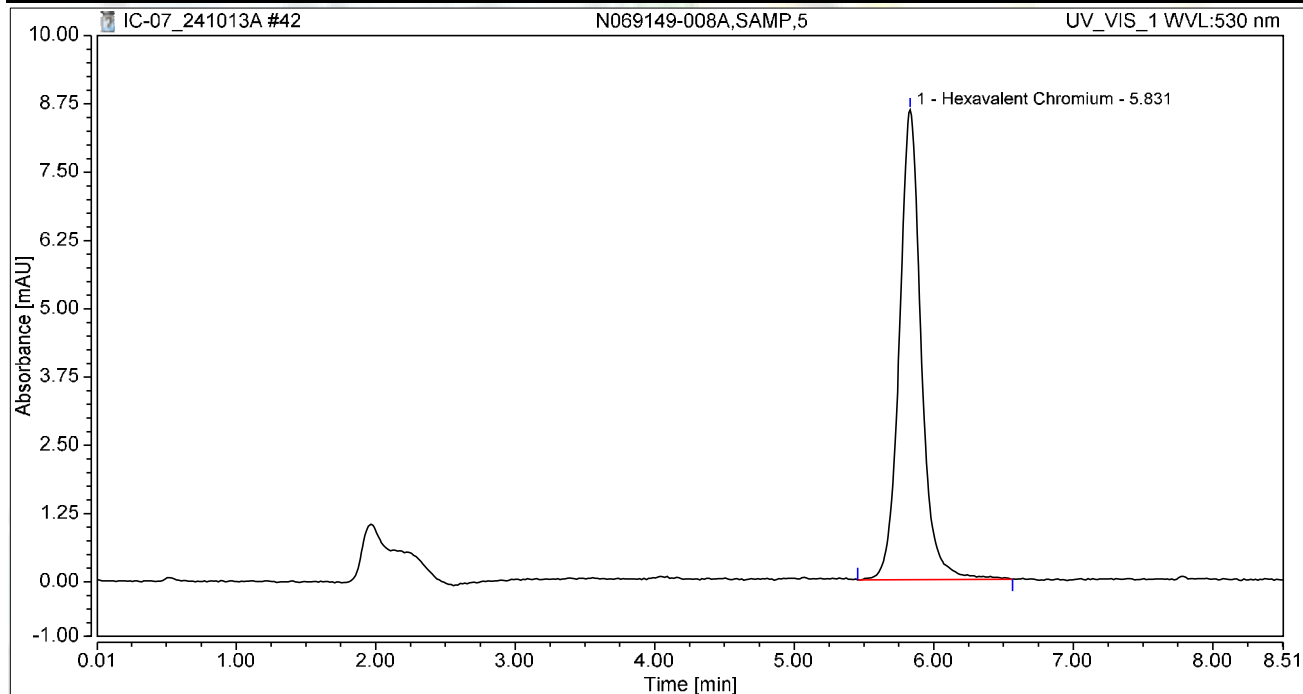
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.831	1.552	8.586	100.00	100.00	5.7179
Total:			1.552	8.586	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069149-008A,SAMP,5	Run Time (min):	8.50
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 16:56	Sample Weight:	1.0000

Chromatogram



Integration Results

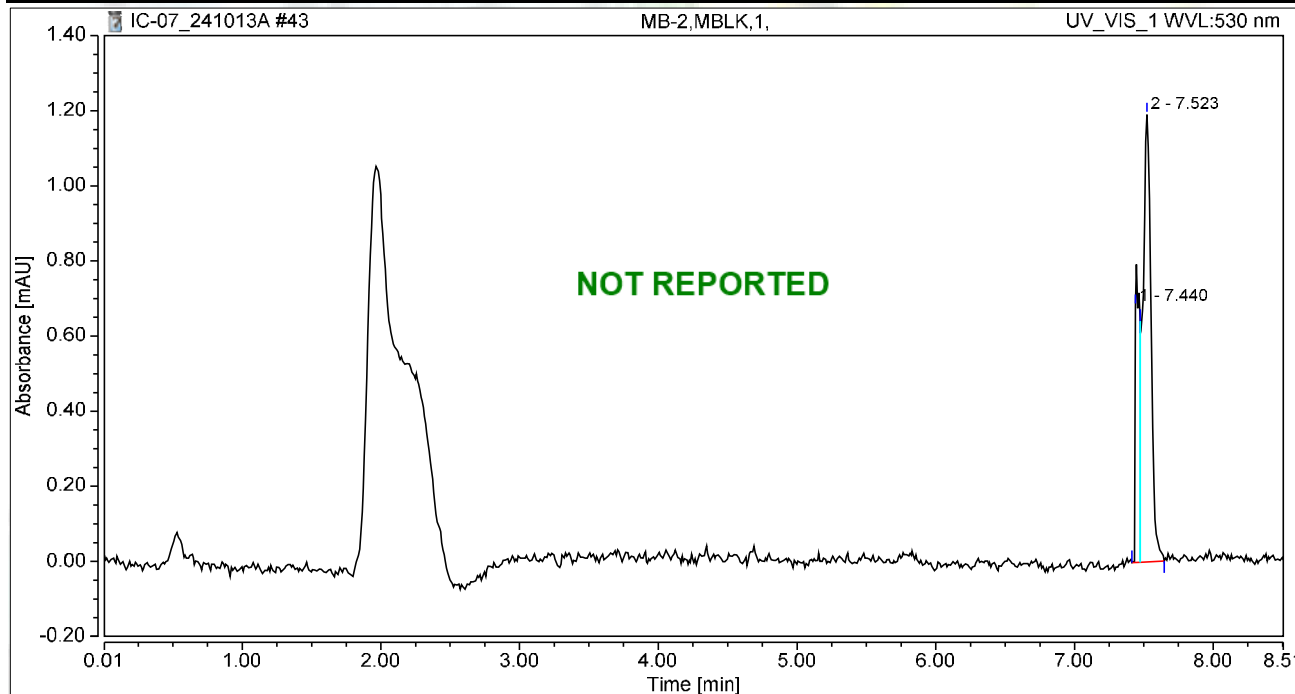
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.831	1.561	8.600	100.00	100.00	5.7496
Total:			1.561	8.600	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-2,MBLK,1,	Run Time (min):	8.50
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 17:06	Sample Weight:	1.0000

Chromatogram



Integration Results

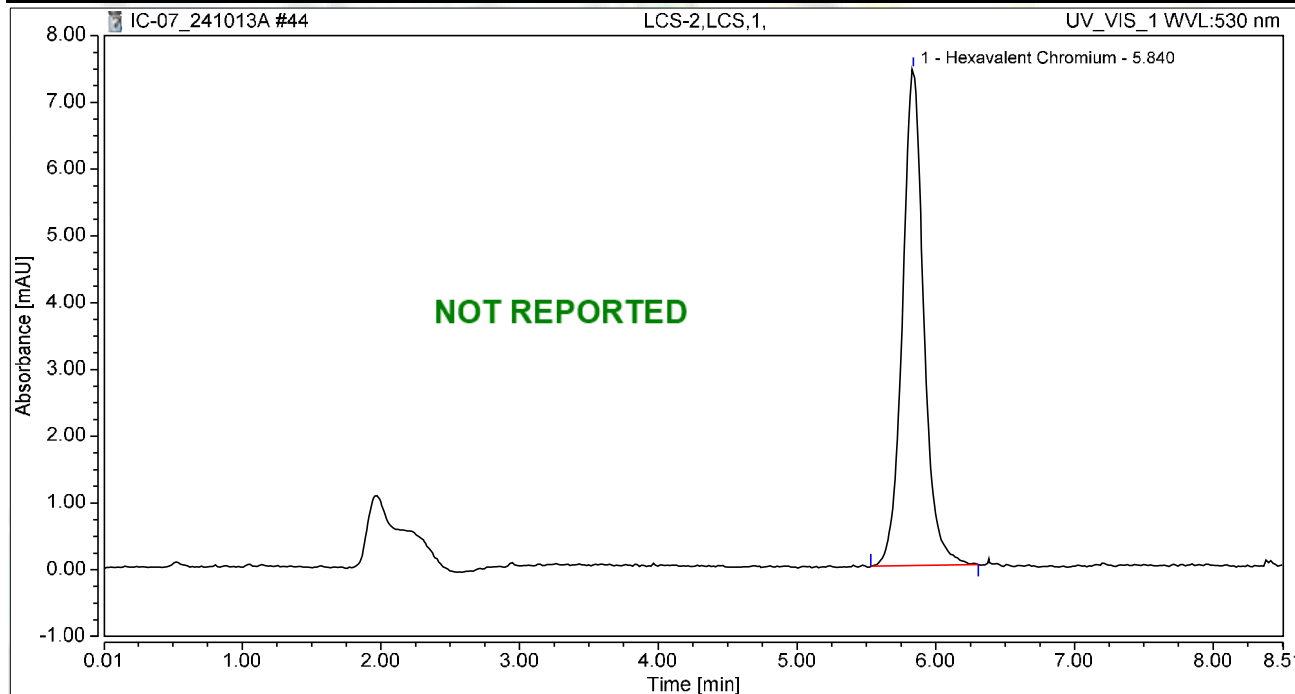
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		7.440	0.027	0.681	24.43	36.38	n.a.
2		7.523	0.082	1.191	75.57	63.62	n.a.
Total:			0.109	1.872	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-2,LCS,1,	Run Time (min):	8.50
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 17:15	Sample Weight:	1.0000

Chromatogram



Integration Results

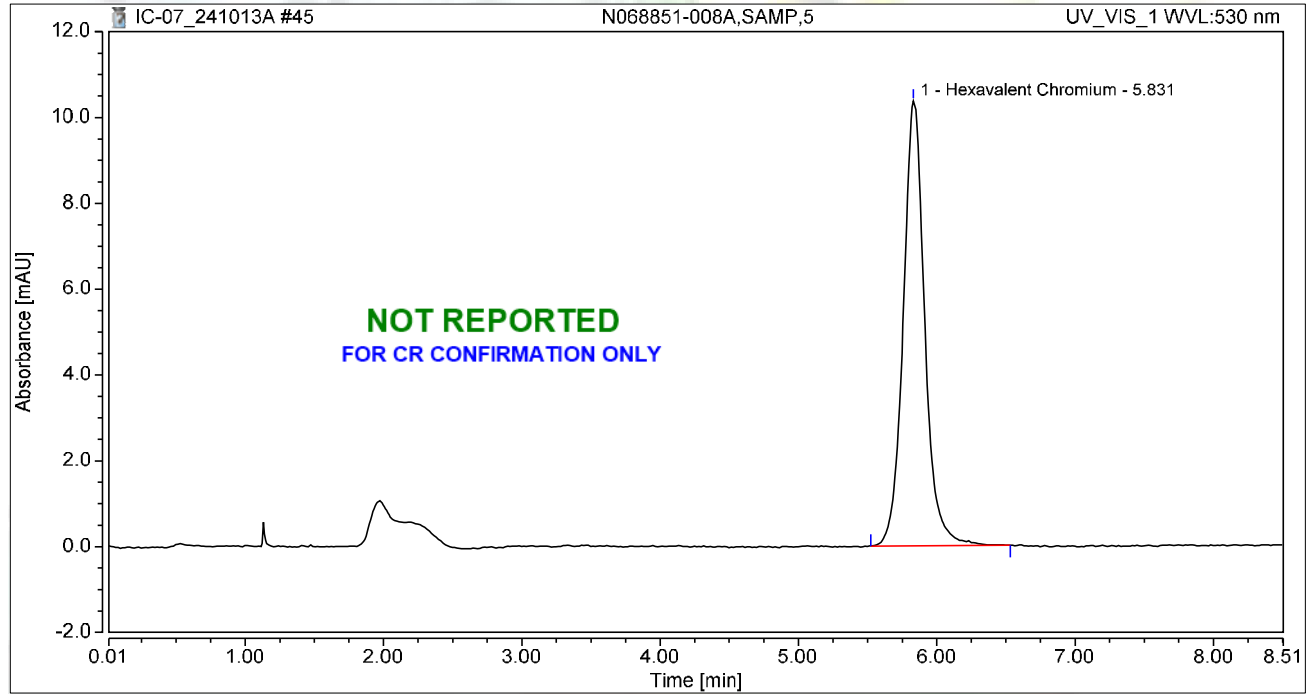
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.840	1.319	7.436	100.00	100.00	4.8595
Total:			1.319	7.436	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N068851-008A,SAMP,5	Run Time (min):	8.49
Vial Number:	30	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 17:25	Sample Weight:	1.0000

Chromatogram



Integration Results

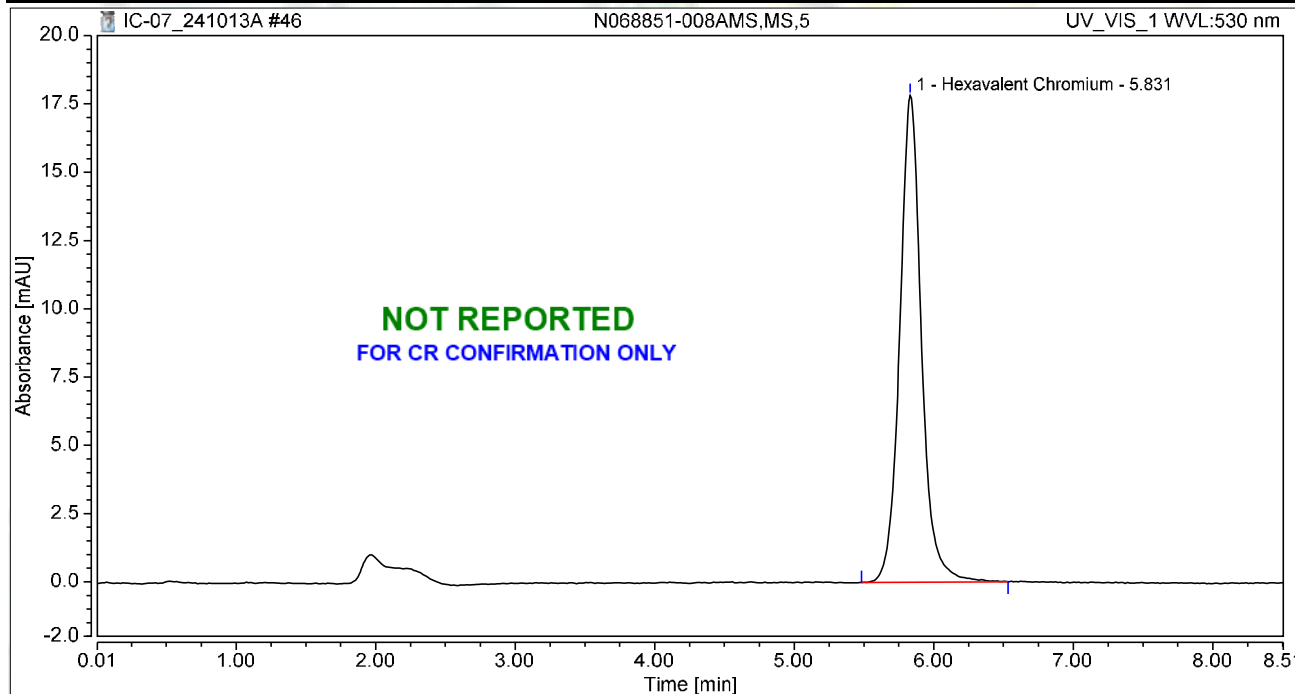
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.831	1.866	10.366	100.00	100.00	6.8731
Total:			1.866	10.366	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N068851-008AMS,MS,5	Run Time (min):	8.50
Vial Number:	31	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 17:34	Sample Weight:	1.0000

Chromatogram



Integration Results

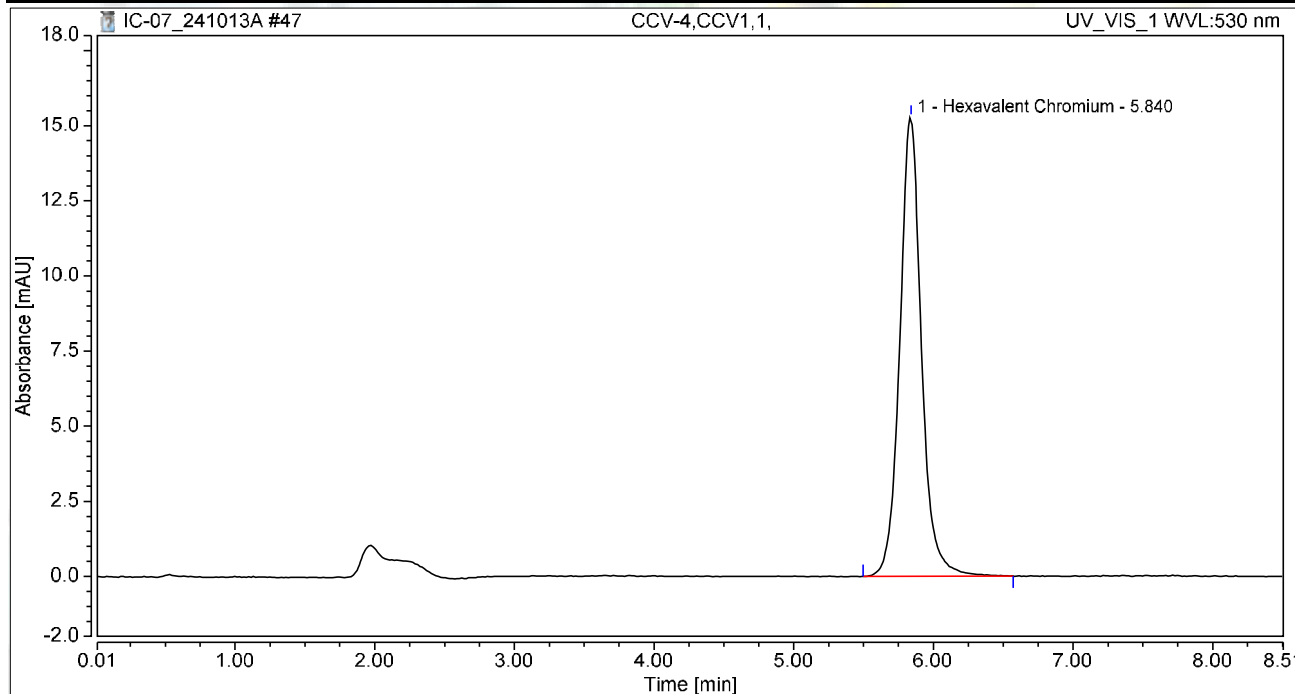
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.831	3.214	17.825	100.00	100.00	11.8375
Total:			3.214	17.825	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-4,CCV1,1,	Run Time (min):	8.49
Vial Number:	32	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 17:43	Sample Weight:	1.0000

Chromatogram



Integration Results

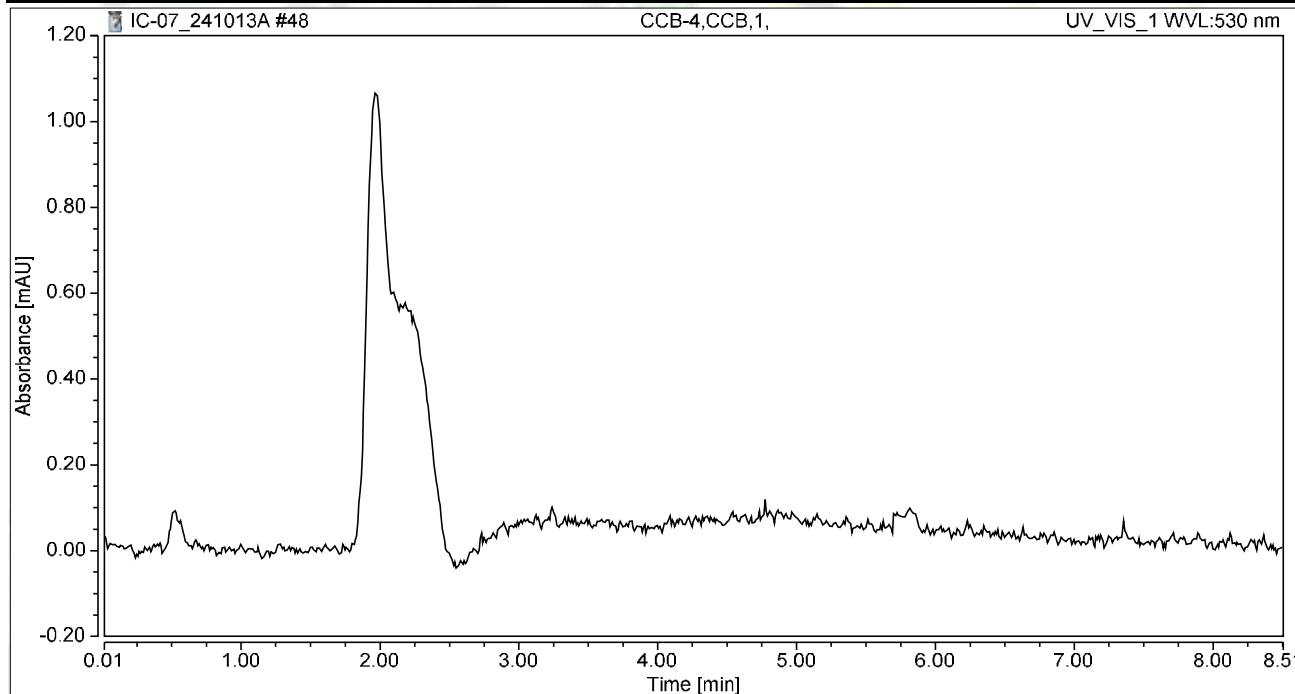
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.840	2.739	15.279	100.00	100.00	10.0881
Total:			2.739	15.279	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-4,CCB,1,	Run Time (min):	8.49
Vial Number:	33	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 17:53	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

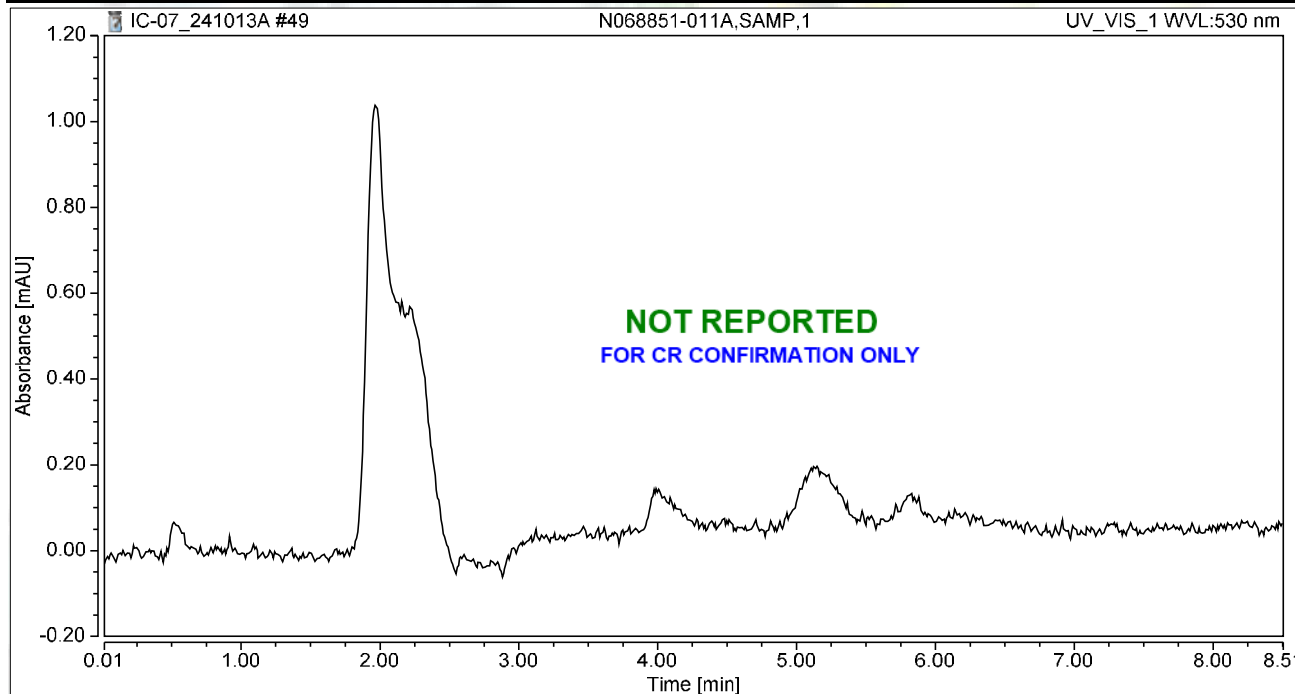


Chromatogram and Results

Injection Details

Injection Name:	N068851-011A,SAMP,1	Run Time (min):	8.49
Vial Number:	34	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 18:02	Sample Weight:	1.0000

Chromatogram



Integration Results

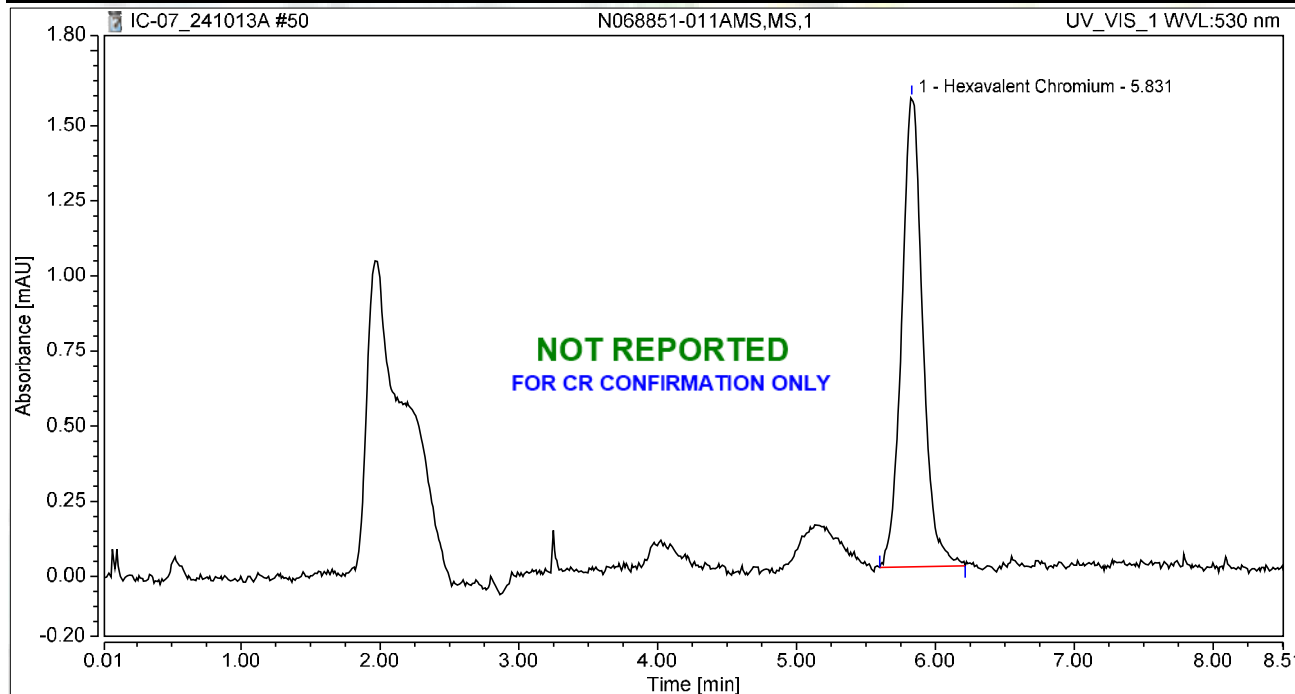
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N068851-011AMS,MS,1	Run Time (min):	8.49
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 18:12	Sample Weight:	1.0000

Chromatogram



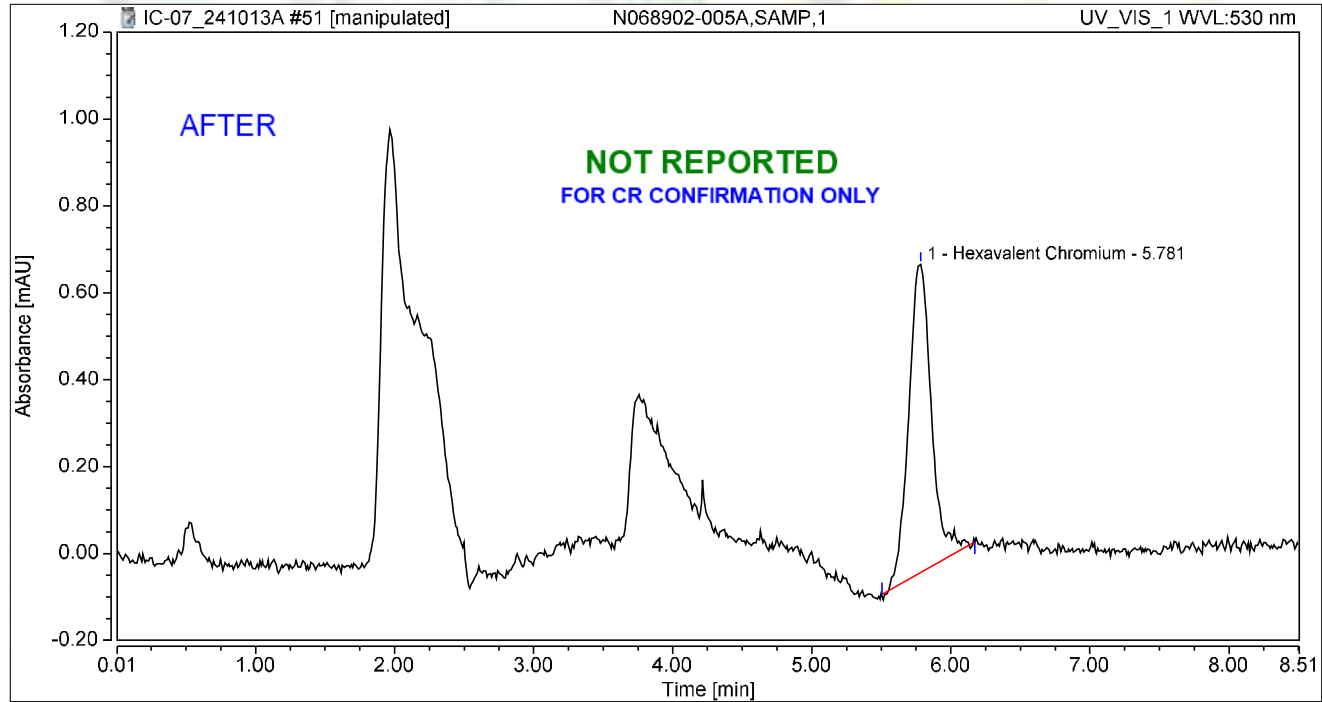
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.831	0.275	1.562	100.00	100.00	1.0147
Total:			0.275	1.562	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N068902-005A,SAMP,1	Run Time (min): 8.50
Vial Number:	36	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	13/Oct/24 18:21	Sample Weight: 1.0000

Chromatogram



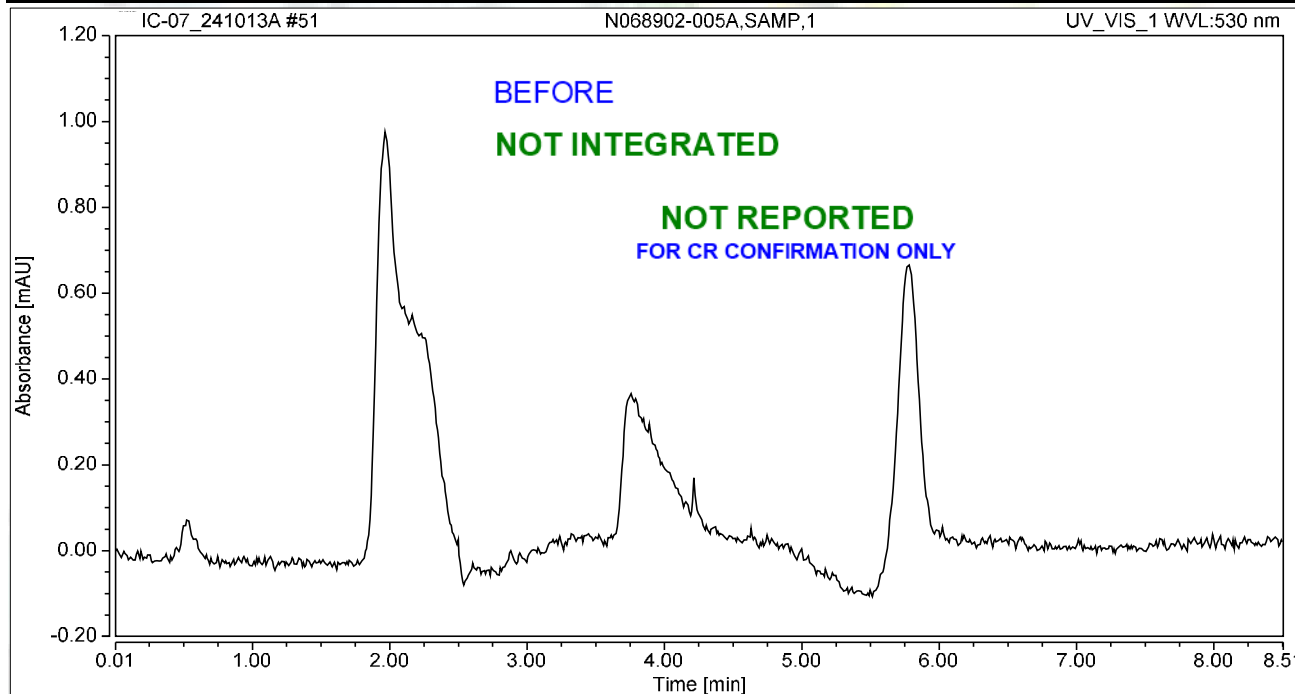
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.781	0.134	0.710	100.00	100.00	0.4940
Total:			0.134	0.710	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N068902-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	36	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 18:21	Sample Weight:	1.0000

Chromatogram



Integration Results

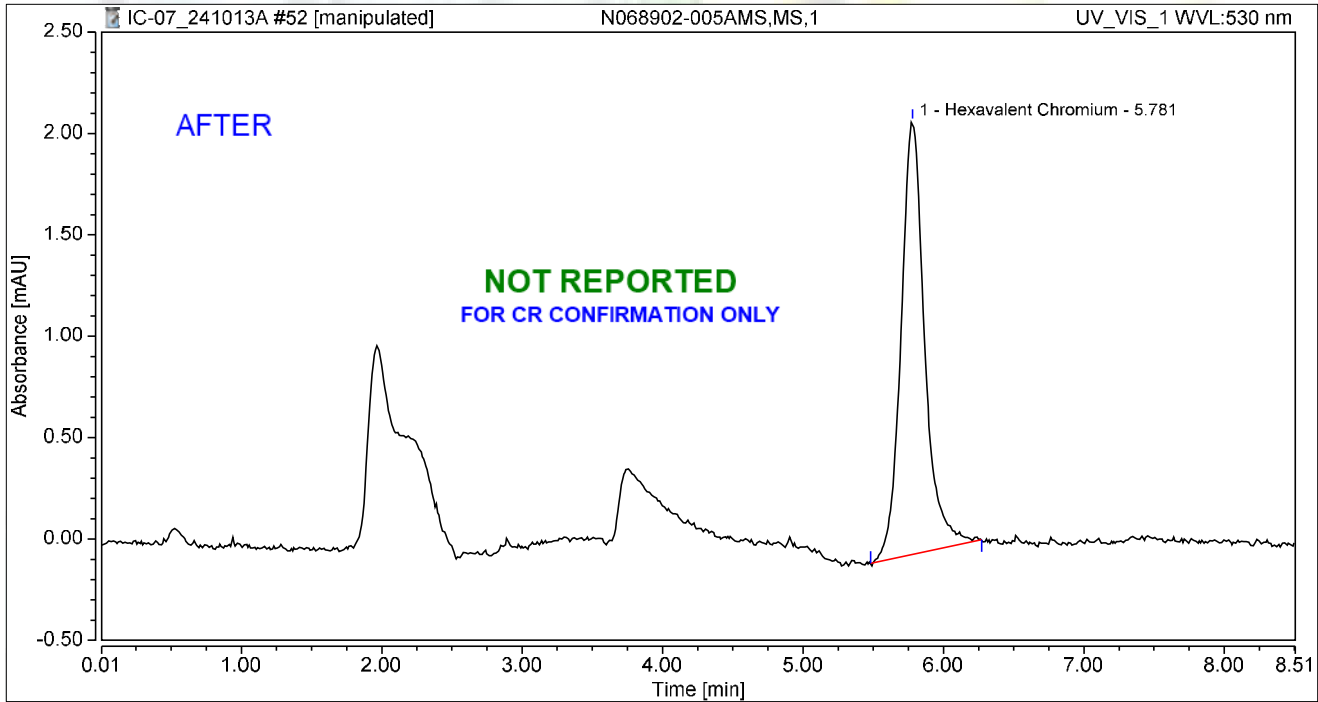
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N068902-005AMS,MS,1	Run Time (min):	8.50
Vial Number:	37	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 18:31	Sample Weight:	1.0000

Chromatogram



Integration Results

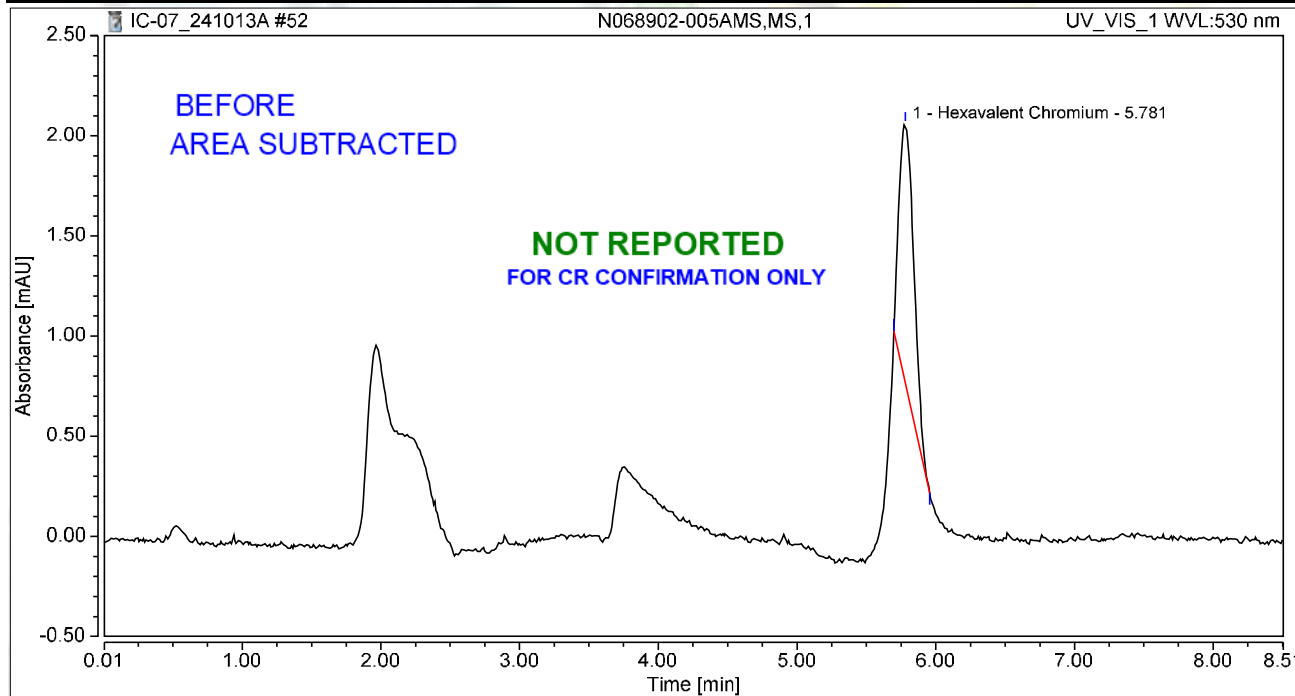
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.781	0.417	2.136	100.00	100.00	1.5357
Total:			0.417	2.136	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N068902-005AMS,MS,1	Run Time (min):	8.50
Vial Number:	37	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 18:31	Sample Weight:	1.0000

Chromatogram



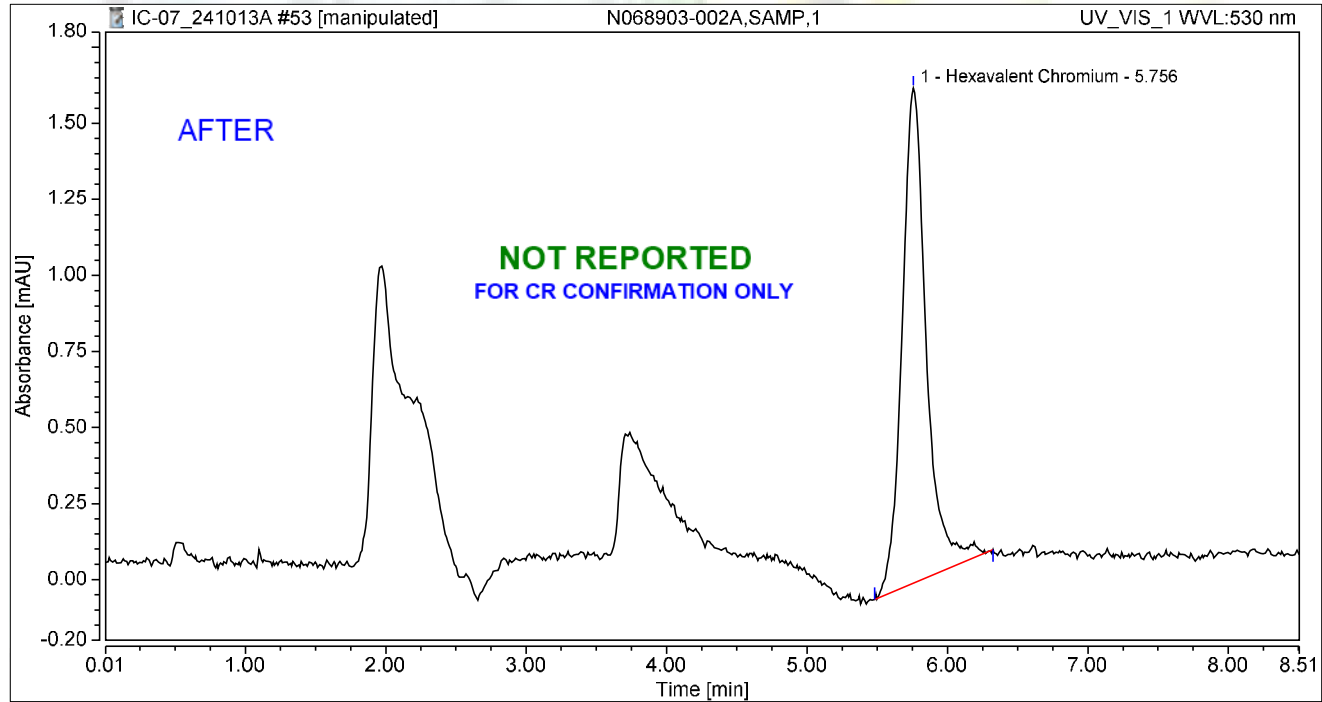
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.781	0.161	1.294	100.00	100.00	0.5914
Total:			0.161	1.294	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N068903-002A,SAMP,1	Run Time (min): 8.50
Vial Number:	38	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	13/Oct/24 18:40	Sample Weight: 1.0000

Chromatogram



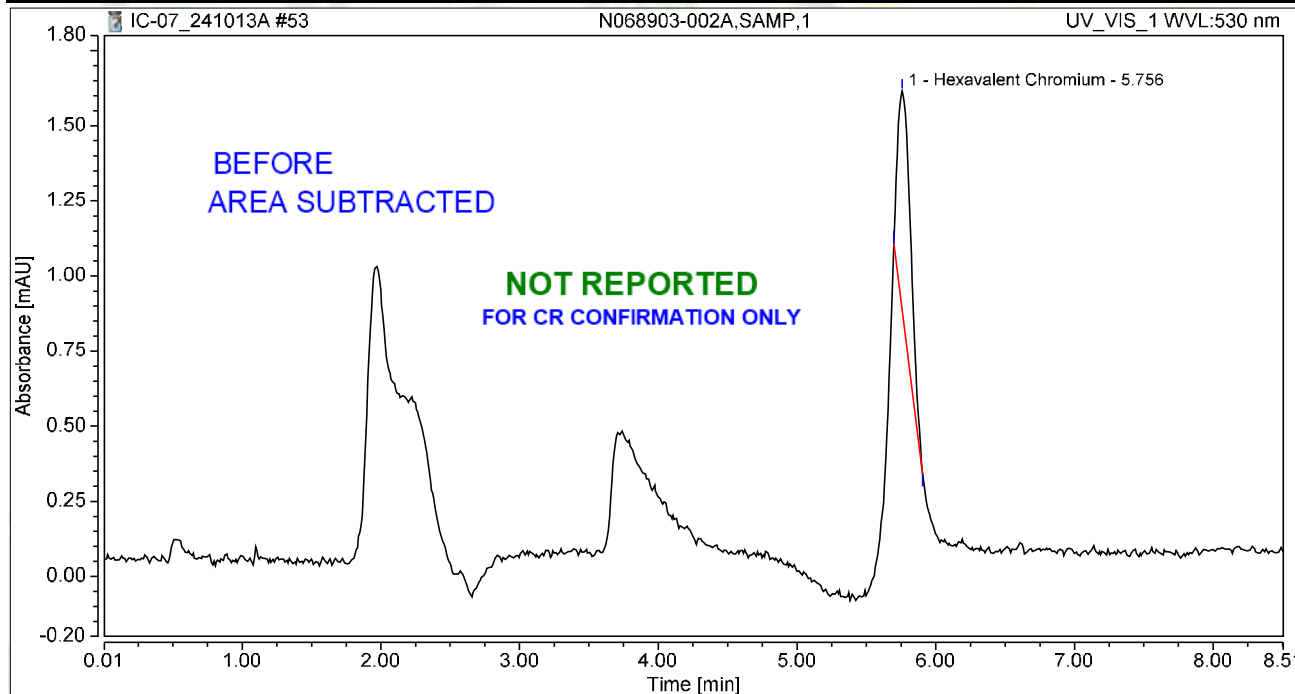
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.756	0.326	1.628	100.00	100.00	1.1996
Total:			0.326	1.628	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N068903-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	38	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 18:40	Sample Weight:	1.0000

Chromatogram



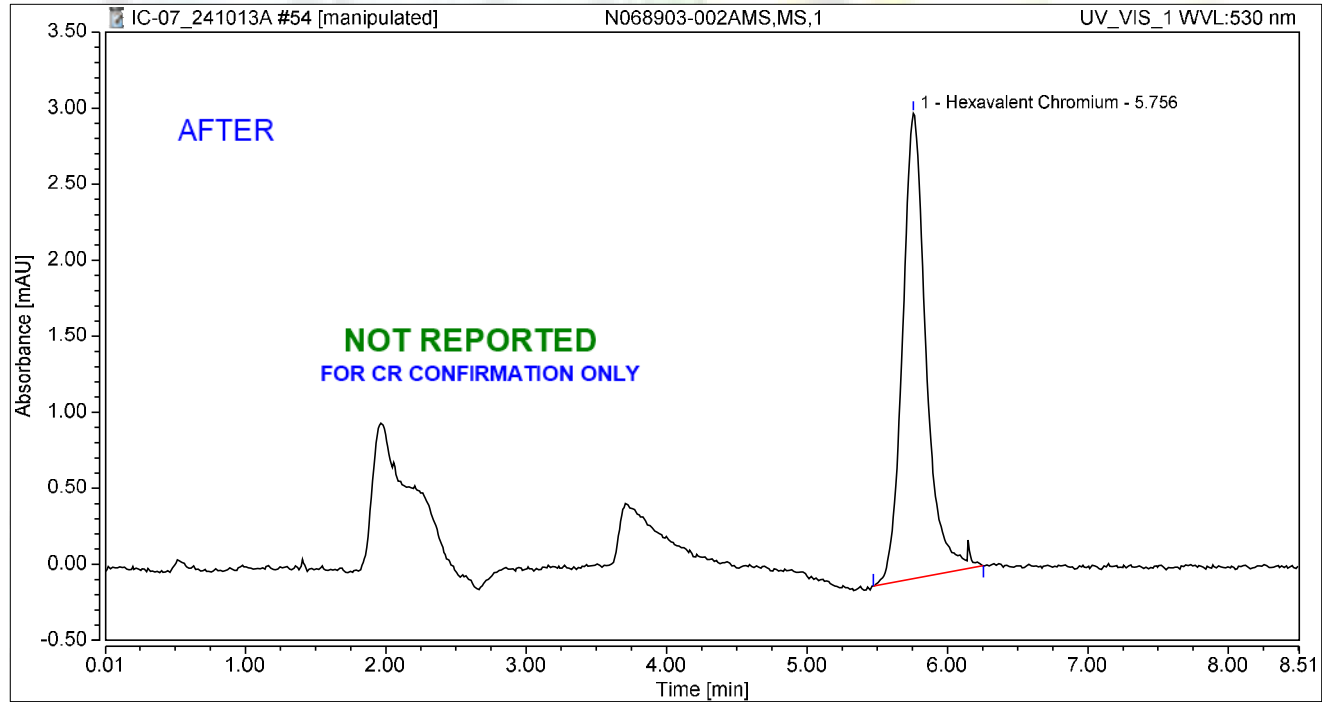
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.756	0.081	0.722	100.00	100.00	0.2990
Total:			0.081	0.722	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N068903-002AMS,MS,1	Run Time (min): 8.50
Vial Number:	39	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	13/Oct/24 18:50	Sample Weight: 1.0000

Chromatogram



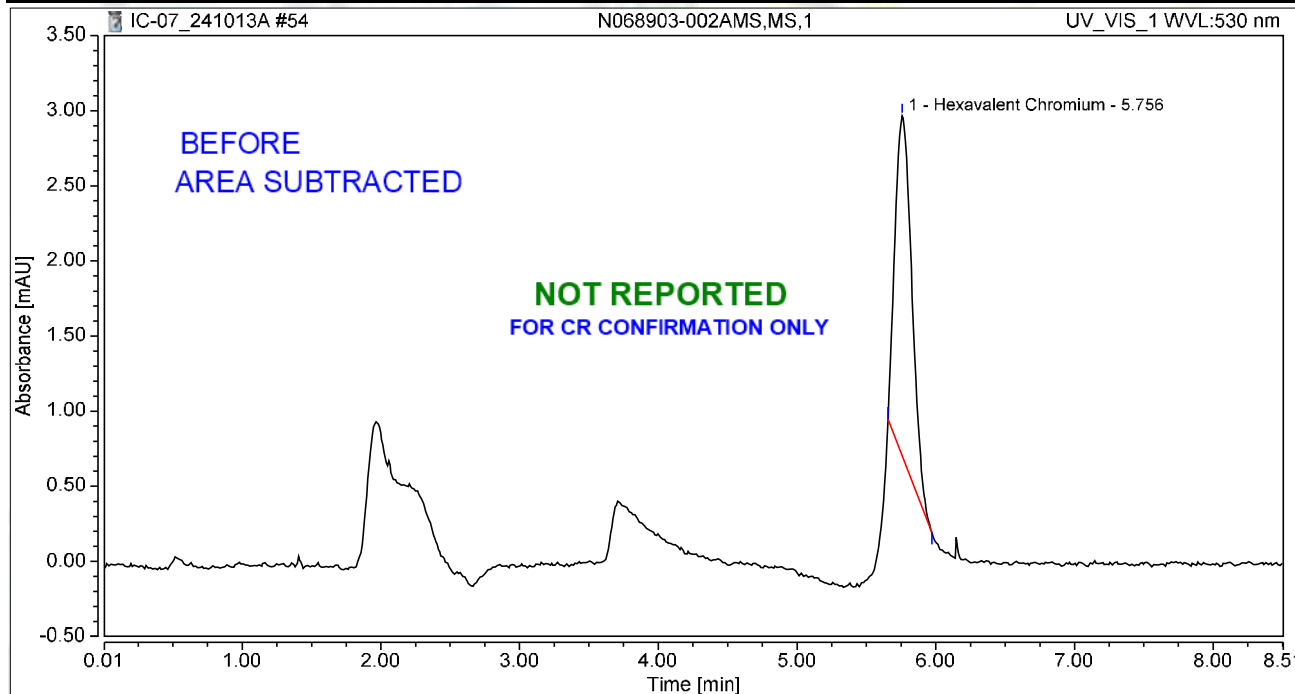
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.756	0.594	3.059	100.00	100.00	2.1895
Total:			0.594	3.059	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N068903-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	39	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 18:50	Sample Weight:	1.0000

Chromatogram

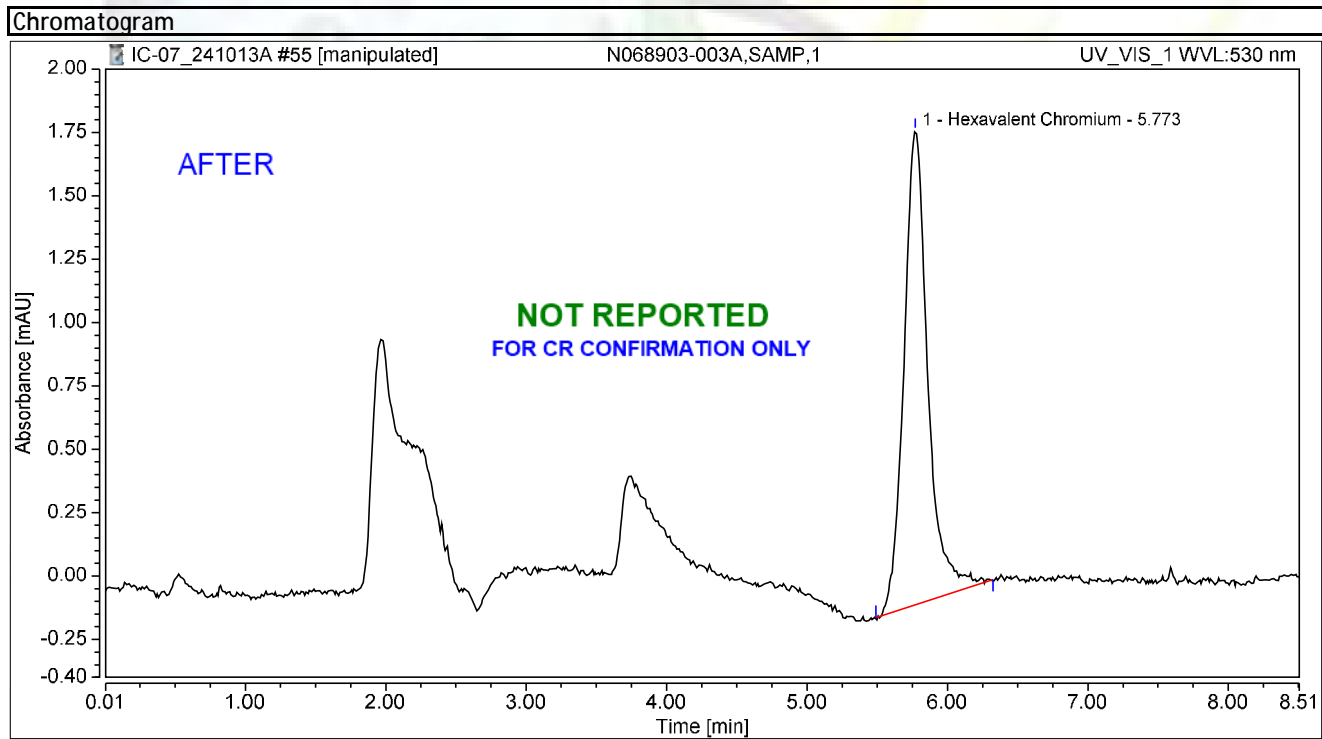


Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.756	0.318	2.257	100.00	100.00	1.1718
Total:			0.318	2.257	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N068903-003A,SAMP,1	Run Time (min): 8.50
Vial Number:	40	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	13/Oct/24 18:59	Sample Weight: 1.0000



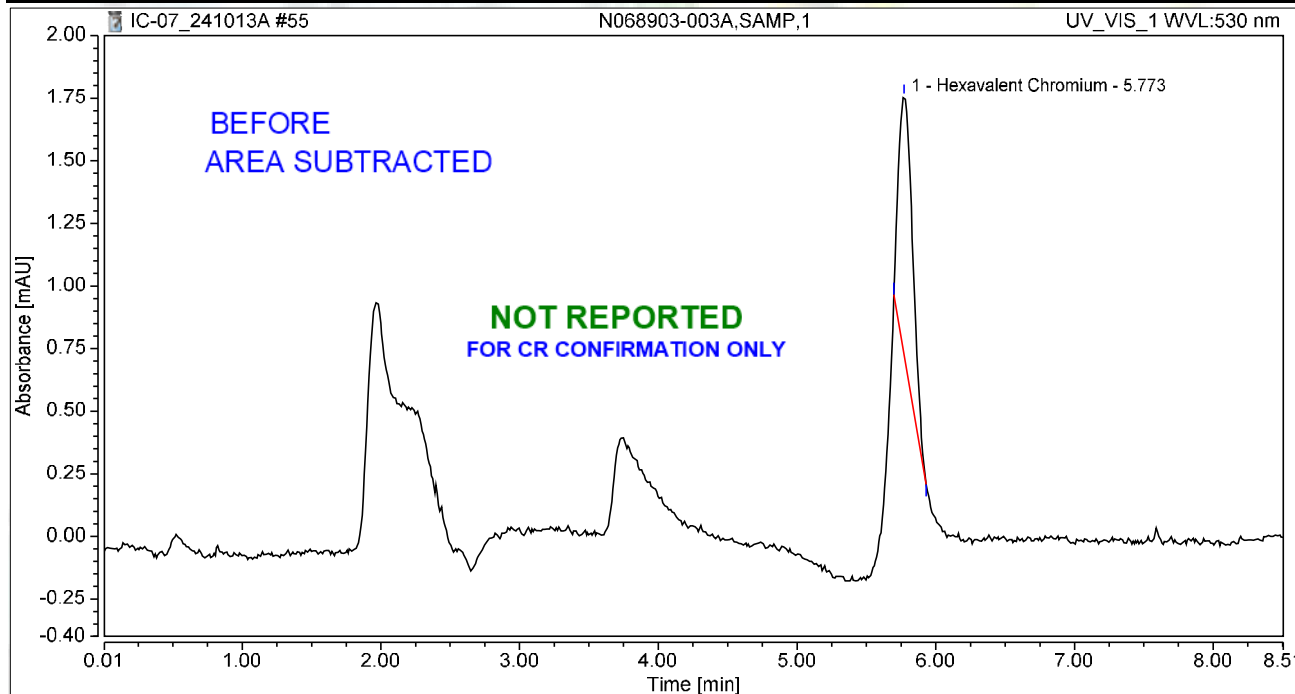
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.773	0.368	1.870	100.00	100.00	1.3550
Total:			0.368	1.870	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N068903-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 18:59	Sample Weight:	1.0000

Chromatogram



Integration Results

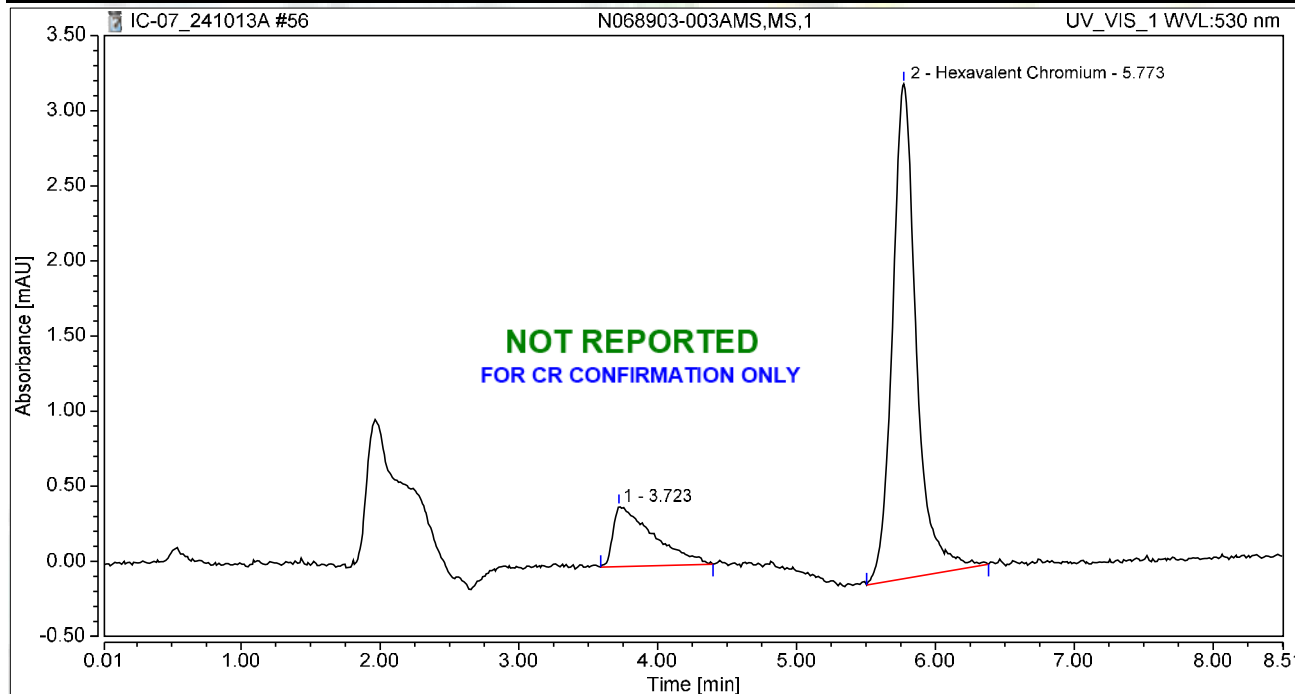
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.773	0.123	1.035	100.00	100.00	0.4544
Total:			0.123	1.035	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N068903-003AMS,MS,1	Run Time (min):	8.49
Vial Number:	41	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 19:09	Sample Weight:	1.0000

Chromatogram



Integration Results

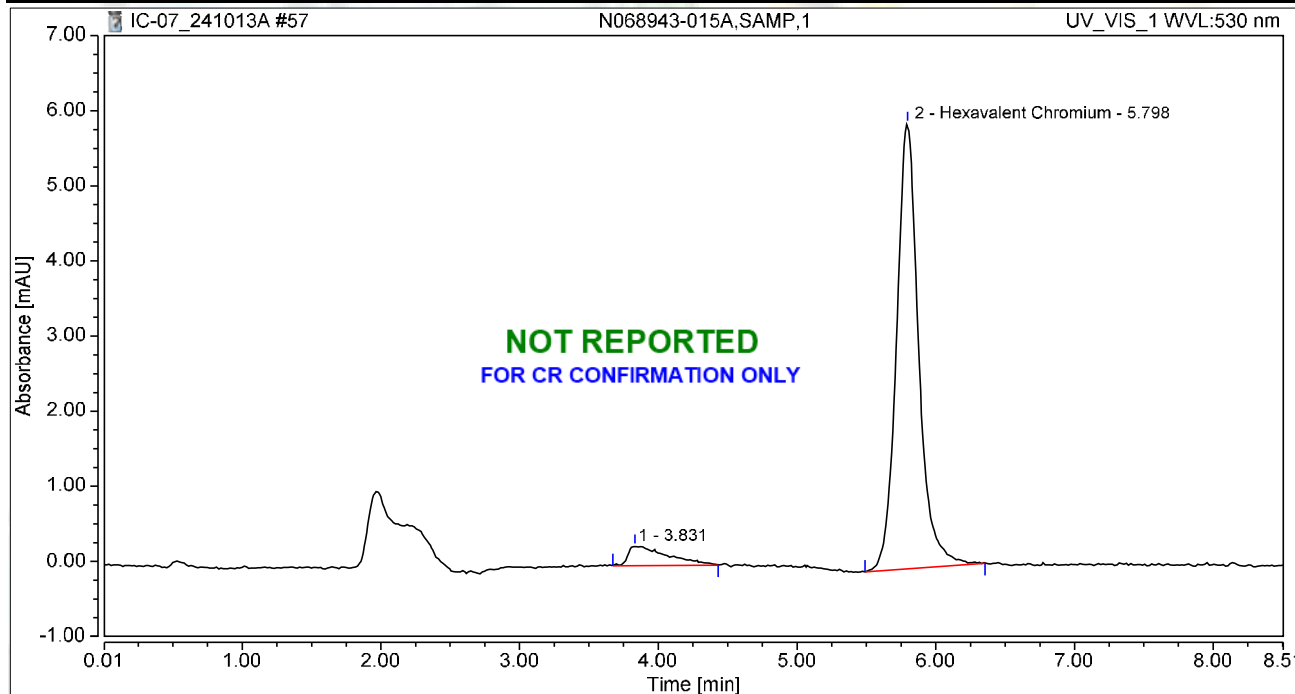
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.723	0.135	0.400	17.07	10.83	n.a.
2	Hexavalent Chromium	5.773	0.655	3.294	82.93	89.17	2.4125
Total:			0.790	3.695	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N068943-015A,SAMP,1	Run Time (min):	8.50
Vial Number:	42	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 19:18	Sample Weight:	1.0000

Chromatogram



Integration Results

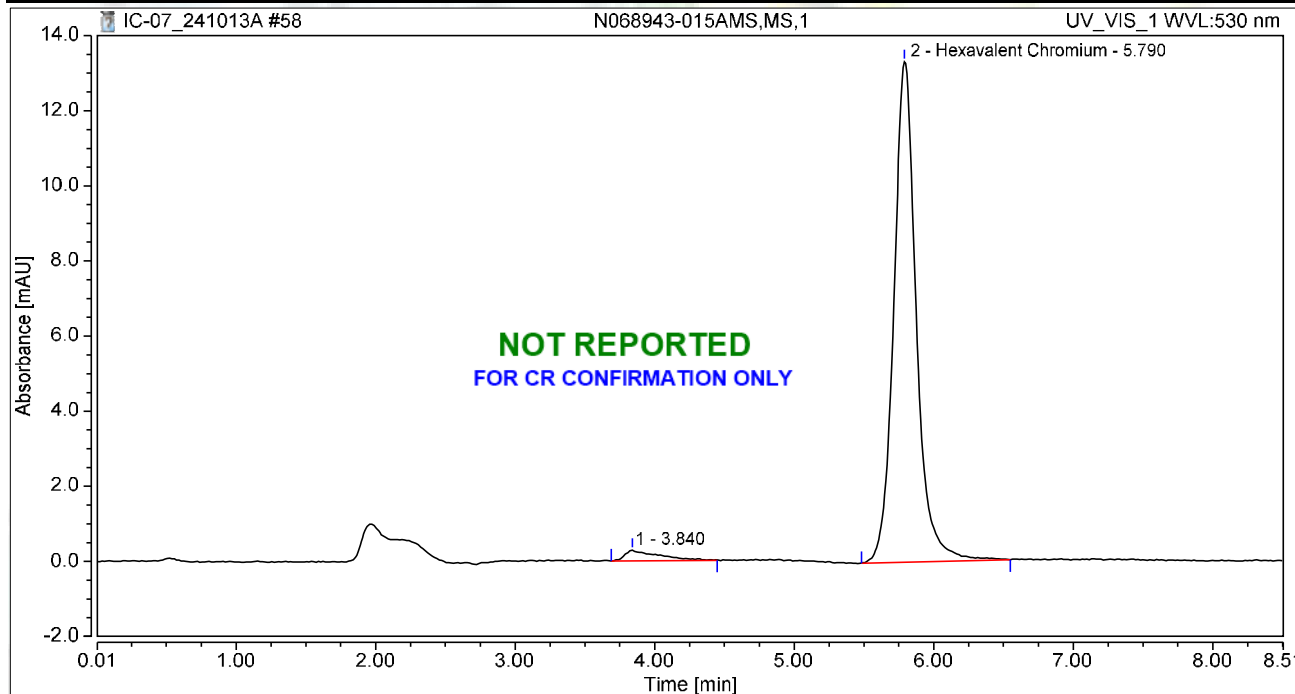
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.831	0.086	0.259	7.26	4.19	n.a.
2	Hexavalent Chromium	5.798	1.096	5.929	92.74	95.81	4.0364
Total:			1.182	6.188	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N068943-015AMS,MS,1	Run Time (min):	8.50
Vial Number:	43	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 19:28	Sample Weight:	1.0000

Chromatogram



Integration Results

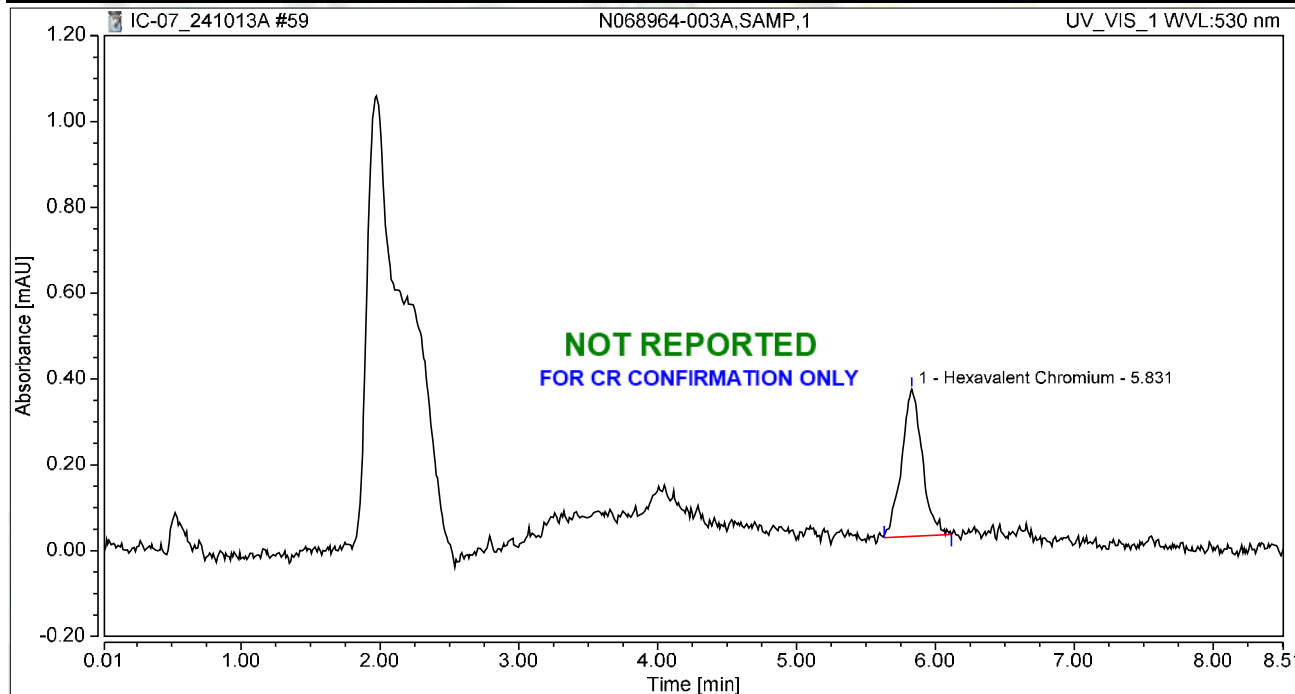
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.840	0.078	0.281	3.04	2.06	n.a.
2	Hexavalent Chromium	5.790	2.488	13.335	96.96	97.94	9.1659
Total:			2.566	13.615	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N068964-003A,SAMP,1	Run Time (min):	8.49
Vial Number:	44	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 19:37	Sample Weight:	1.0000

Chromatogram



Integration Results

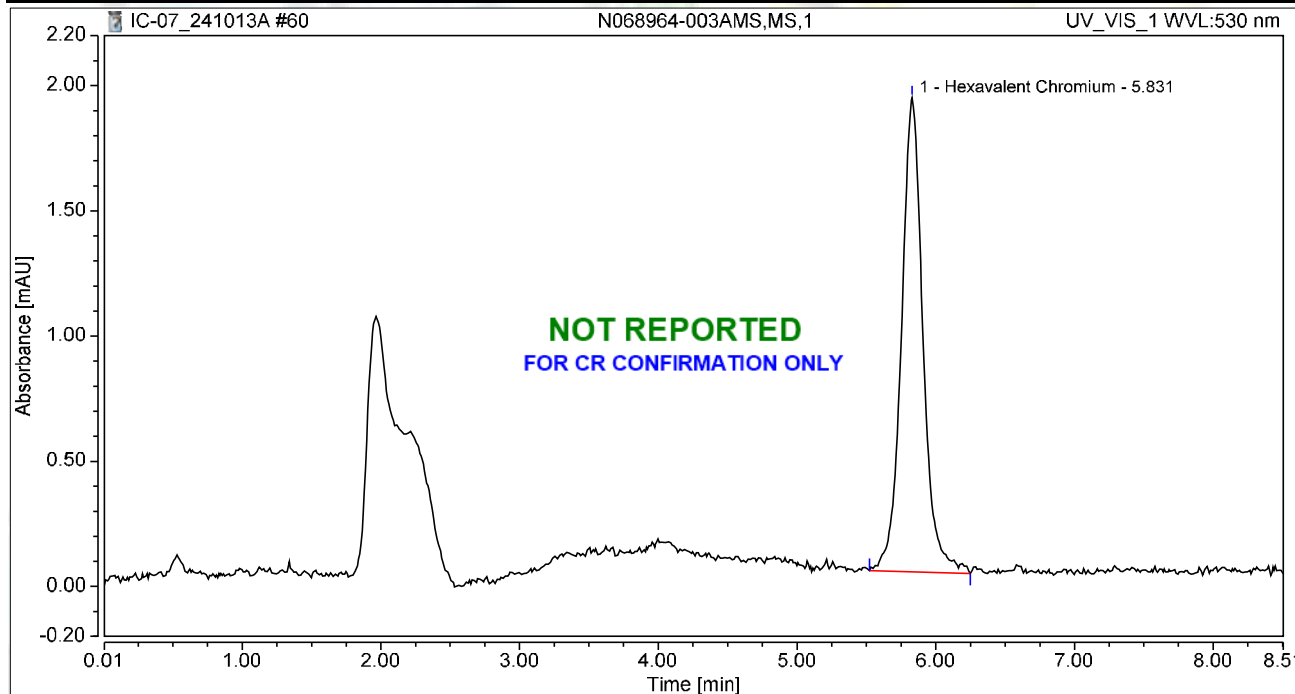
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.831	0.059	0.343	100.00	100.00	0.2189
Total:			0.059	0.343	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N068964-003AMS,MS,1	Run Time (min):	8.50
Vial Number:	45	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 19:46	Sample Weight:	1.0000

Chromatogram



Integration Results

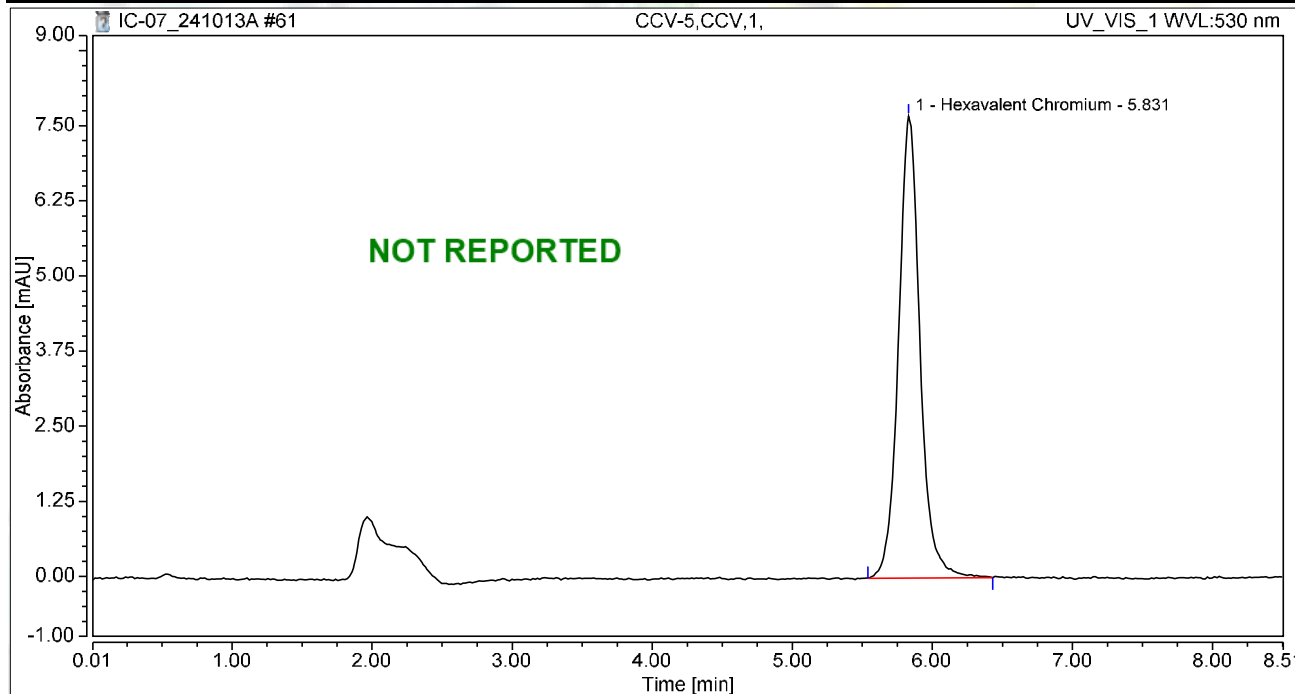
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.831	0.340	1.894	100.00	100.00	1.2515
Total:			0.340	1.894	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.50
Vial Number:	46	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 19:56	Sample Weight:	1.0000

Chromatogram



Integration Results

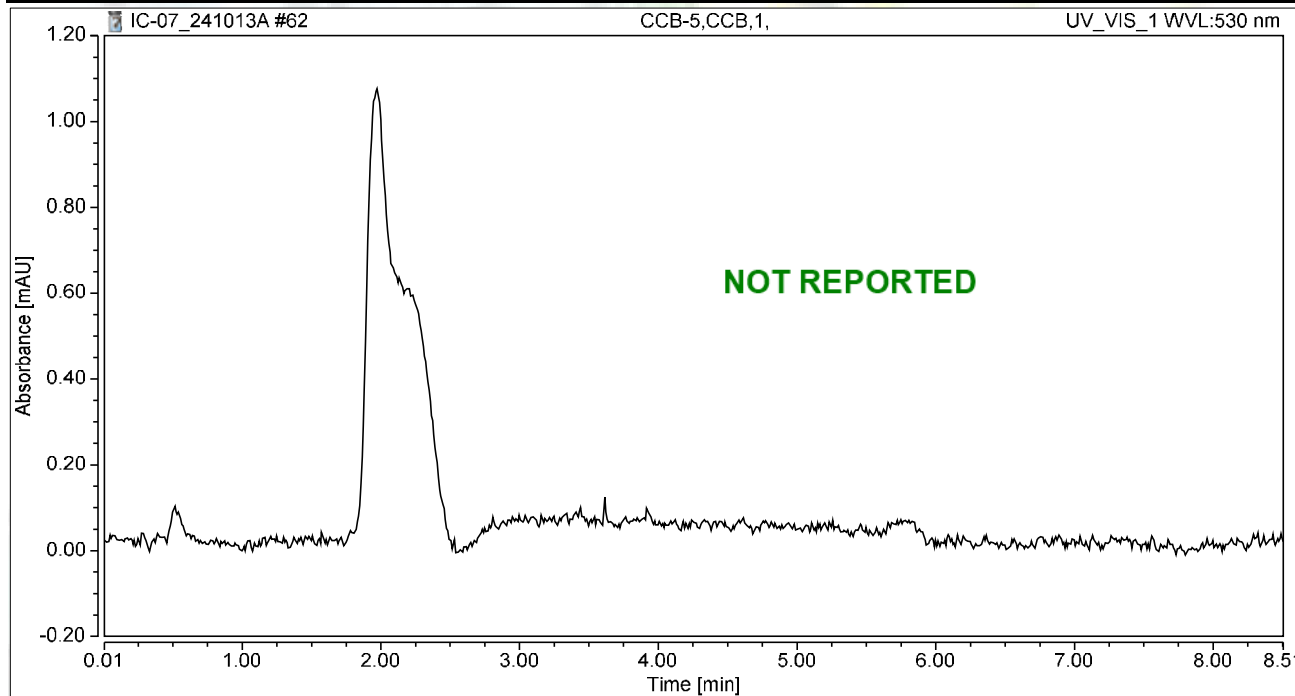
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.831	1.368	7.690	100.00	100.00	5.0403
Total:			1.368	7.690	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.50
Vial Number:	47	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 20:05	Sample Weight:	1.0000

Chromatogram



Integration Results

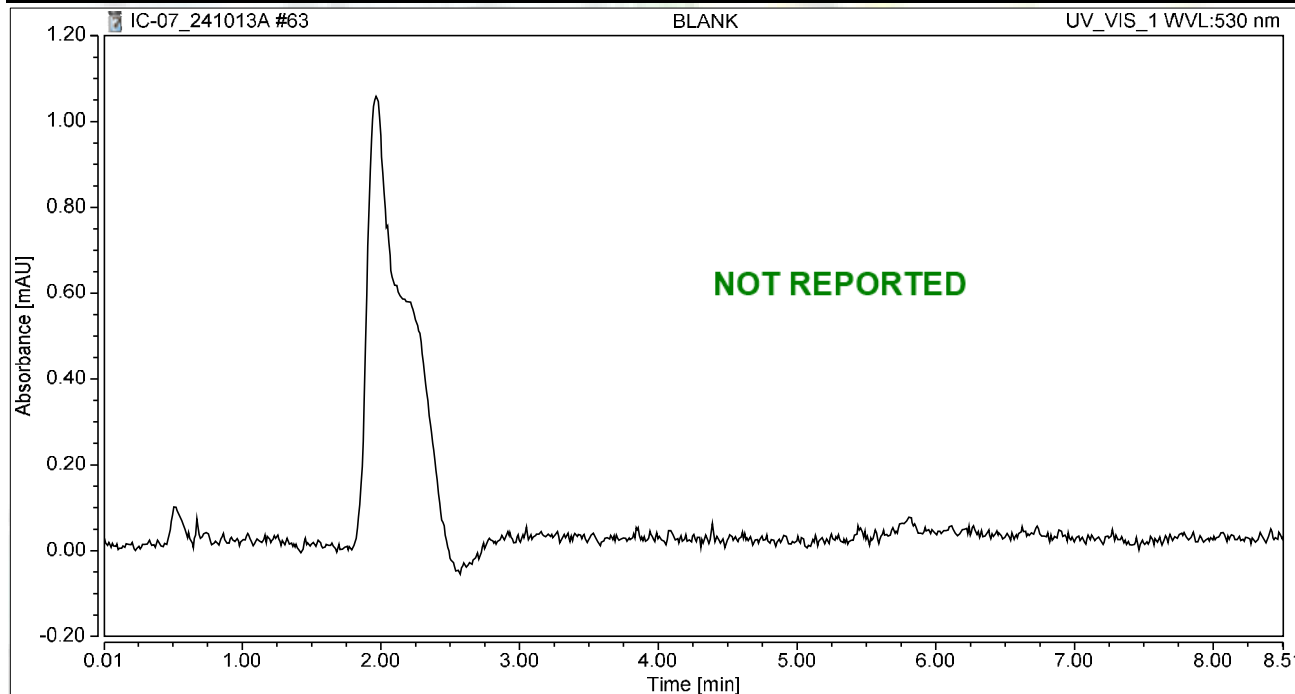
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	48	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241001A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Oct/24 20:15	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

EPA 300.0



ASSET LABORATORIES
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"



IC Technical Batch Review Checklist (ARCUS02)

IC ARCUS
REV 2.0
011416

ASSET LABORATORIES - LAS VEGAS

QC Batch Number: R194191
ASSET # N069146 / N069147 / N069150

Instrument ID: NV00922-IC8
Analyst: RBA
Date Analyzed: 10/11/2024

Method:

- EPA 300.0
- EPA 7199

- EPA 218.6/EPA 218.7
- EPA 218.6/EPA 218.7 LL
- Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria ?(r = 0.995, r =0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)			X			X
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?			X			X
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?			X			X
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
14. For Hinkley DOM samples, matrix spike protocol performed on all samples ? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed ?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)			X			X
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA

Date: _____

2nd Level Reviewer JRB 10/24/2024

Date: _____



IC Technical Batch Review Checklist (ARCUS02)

ASSET LABORATORIES - LAS VEGAS

IC ARCUS
REV 2.0
011416

QC Batch Number: R194197
ASSET #: N069146 / N069147 / ~~N069109~~

Instrument ID: NV00922-IC9
Analyst: RBA
Date Analyzed: 10/11/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria ?(r = 0.995, r =0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)			X			X
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?			X			X
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?			X			X
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
14. For Hinkley DOM samples, matrix spike protocol performed on all samples ? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed ?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)			X			X
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA

Date: _____

2nd Level Reviewer JRB 10/24/2024

Date: _____

SAMPLE CALCULATION



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

Sample Calculation

METHOD: EPA 300
TEST NAME: INORGANIC ANIONS BY IC
MATRIX: GROUNDWATER

FORMULA:

Calculate the Sulfate concentration, in mg/L, in the original sample as follows:

$$\text{Sulfate, mg/L} = A * DF$$

where:

A = mg/L, IC calculated concentration
DF = dilution factor

For **N069147-001B** concentration in mg/L is calculated as follows:

$$\begin{aligned}\text{Sulfate, mg/L} &= 6.3745 * 50 \\ &= 318.725\end{aligned}$$

Reporting result in two significant figures,

$$\text{Sulfate, mg/L} = \mathbf{320}$$

Reviewed by:

d/Rocha 11/6/2024

ANALYSIS RUN LOG



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

Sequence: IC-08_240923A
Operator: IC-05

Page 1 of 2
Printed: 9/23/2024 11:34:57 PM

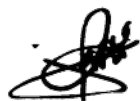
Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 9

Created: 9/23/2024 11:30:52 AM by IC-05
Last Update: 9/23/2024 3:11:33 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions Default	EPA 300_0_240923	Finished
2	Std - 0	Standard	2	1000.0	Anions Default	EPA 300_0_240923	Finished
3	Std - 1	Standard	3	1000.0	Anions Default	EPA 300_0_240923	Finished
4	Std - 2	Standard	4	1000.0	Anions Default	EPA 300_0_240923	Finished
5	Std - 3	Standard	5	1000.0	Anions Default	EPA 300_0_240923	Finished
6	Std - 4	Standard	6	1000.0	Anions Default	EPA 300_0_240923	Finished
7	Std - 5	Standard	7	1000.0	Anions Default	EPA 300_0_240923	Finished
8	ICV,ICV,1	Unknown	9	1000.0	Anions Default	EPA 300_0_240923	Finished
9	ICB,ICB,1	Unknown	10	1000.0	Anions Default	EPA 300_0_240923	Finished

Processed by:

Chromeleon © Dionex Corporation, Version 6.80 SR10 Build 2818 (166959)



9/24/2024

NV00922-IC8 RBA 9/23/2024 11:35:26 PM

255

Sequence: IC-08_240923A
Operator: IC-05

Page 2 of 2
Printed: 9/23/2024 11:34:57 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 9

Created: 9/23/2024 11:30:52 AM by IC-05
Last Update: 9/23/2024 3:11:33 PM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	9/23/2024 12:01:34 PM	BLANK
2	Std - 0	9/23/2024 12:48:09 PM	IBLANK
3	Std - 1	9/23/2024 1:04:27 PM	STD-LOW
4	Std - 2	9/23/2024 1:20:45 PM	STD
5	Std - 3	9/23/2024 1:37:03 PM	STD
6	Std - 4	9/23/2024 1:53:21 PM	STD
7	Std - 5	9/23/2024 2:09:40 PM	STD-HIGH
8	ICV,ICV,1	9/23/2024 2:48:04 PM	ICV, IWST-240920B
9	ICB,ICB,1	9/23/2024 3:04:21 PM	CCB

Sequence: IC-08_241011A
Operator: IC-05

Page 1 of 2
Printed: 10/11/2024 7:34:15 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 34

Created: 10/10/2024 11:30:39 AM by IC-05
Last Update: 10/11/2024 12:18:45 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions Default	EPA 300_0_240923	Finished
2	Std - 0	Standard	2	1000.0	Anions Default	EPA 300_0_240923	Finished
3	Std - 1	Standard	3	1000.0	Anions Default	EPA 300_0_240923	Finished
4	Std - 2	Standard	4	1000.0	Anions Default	EPA 300_0_240923	Finished
5	Std - 3	Standard	5	1000.0	Anions Default	EPA 300_0_240923	Finished
6	Std - 4	Standard	6	1000.0	Anions Default	EPA 300_0_240923	Finished
7	Std - 5	Standard	7	1000.0	Anions Default	EPA 300_0_240923	Finished
8	BLANK	Unknown	1	1000.0	Anions Default	EPA 300_0_240923	Finished
9	CCV-1,CCV,1	Unknown	2	1000.0	Anions Default	EPA 300_0_240923	Finished
10	CCB-1,CCB,1	Unknown	3	1000.0	Anions Default	EPA 300_0_240923	Finished
11	MB-H2O,MBLK,1	Unknown	4	1000.0	Anions Default	EPA 300_0_240923	Finished
12	LCS-H2O,LCS,1	Unknown	5	1000.0	Anions Default	EPA 300_0_240923	Finished
13	N069146-013B,SAMP,50	Unknown	6	1000.0	Anions Default	EPA 300_0_240923	Finished
14	N069146-013BMS,MS,50	Unknown	7	1000.0	Anions Default	EPA 300_0_240923	Finished
15	N069146-013BMSD,MSD,50	Unknown	8	1000.0	Anions Default	EPA 300_0_240923	Finished
16	N069146-001B,SAMP,50	Unknown	9	1000.0	Anions Default	EPA 300_0_240923	Finished
17	N069146-002B,SAMP,100	Unknown	10	1000.0	Anions Default	EPA 300_0_240923	Finished
18	N069146-007B,SAMP,100	Unknown	11	1000.0	Anions Default	EPA 300_0_240923	Finished
19	N069146-009B,SAMP,100	Unknown	12	1000.0	Anions Default	EPA 300_0_240923	Finished
20	N069146-011B,SAMP,50	Unknown	13	1000.0	Anions Default	EPA 300_0_240923	Finished
21	CCV-2,CCV,1	Unknown	14	1000.0	Anions Default	EPA 300_0_240923	Finished
22	CCB-2,CCB,1	Unknown	15	1000.0	Anions Default	EPA 300_0_240923	Finished
23	N069146-012B,SAMP,50	Unknown	16	1000.0	Anions Default	EPA 300_0_240923	Finished
24	N069147-001B,SAMP,50	Unknown	17	1000.0	Anions Default	EPA 300_0_240923	Finished
25	N069147-002B,SAMP,50	Unknown	18	1000.0	Anions Default	EPA 300_0_240923	Finished
26	N069147-003B,SAMP,50	Unknown	19	1000.0	Anions Default	EPA 300_0_240923	Finished
27	N069147-004B,SAMP,50	Unknown	20	1000.0	Anions Default	EPA 300_0_240923	Finished
28	N069147-005B,SAMP,50	Unknown	21	1000.0	Anions Default	EPA 300_0_240923	Finished
29	N069147-006B,SAMP,5	Unknown	22	1000.0	Anions Default	EPA 300_0_240923	Finished
30	N069147-001BDUP,DUP,50	Unknown	23	1000.0	Anions Default	EPA 300_0_240923	Finished
31	N069147-001BMS,MS,50	Unknown	24	1000.0	Anions Default	EPA 300_0_240923	Finished
32	N069150-008B,SAMP,10	Unknown	25	1000.0	Anions Default	EPA 300_0_240923	Finished
33	CCV-3,CCV,1	Unknown	26	1000.0	Anions Default	EPA 300_0_240923	Finished
34	CCB-3,CCB,1	Unknown	27	1000.0	Anions Default	EPA 300_0_240923	Finished

Processed by:



10/11/2024

NV00922-IC8 RBA 10/11/2024 7:35:15 PM

257

Sequence: IC-08_241011A
Operator: IC-05

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Printed: 10/11/2024 7:34:15 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 34

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Last Update: 10/11/2024 12:18:45 PM by IC-05

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2	Std - 0	9/23/2024 12:48:09 PM	IBLANK
3	Std - 1	9/23/2024 1:04:27 PM	STD-LOW
4	Std - 2	9/23/2024 1:20:45 PM	STD
5	Std - 3	9/23/2024 1:37:03 PM	STD
6	Std - 4	9/23/2024 1:53:21 PM	STD
7	Std - 5	9/23/2024 2:09:40 PM	STD-HIGH
8	BLANK	10/11/2024 8:23:05 AM	BLANK
9	CCV-1,CCV,1	10/11/2024 8:39:23 AM	CCV, IWST-241007A
10	CCB-1,CCB,1	10/11/2024 8:55:42 AM	CCB
11	MB-H2O,MBLK,1	10/11/2024 9:12:00 AM	MB
12	LCS-H2O,LCS,1	10/11/2024 9:28:19 AM	LCS, IWST-241007B
13	N069146-013B,SAMP,50	10/11/2024 10:19:54 AM	SAMP,0.2>10mL,
14	N069146-013BMS,MS,50	10/11/2024 10:36:12 AM	MS,0.2>10mL,
15	N069146-013BMSD,MSD,50	10/11/2024 10:52:31 AM	MSD,0.2>10mL,
16	N069146-001B,SAMP,50	10/11/2024 11:08:49 AM	SAMP,0.2>10mL,
17	N069146-002B,SAMP,100	10/11/2024 11:25:07 AM	SAMP,0.1>10mL,
18	N069146-007B,SAMP,100	10/11/2024 11:41:26 AM	SAMP,0.1>10mL,
19	N069146-009B,SAMP,100	10/11/2024 11:57:44 AM	SAMP,0.1>10mL,
20	N069146-011B,SAMP,50	10/11/2024 12:14:03 PM	SAMP,0.2>10mL,
21	CCV-2,CCV,1	10/11/2024 12:30:21 PM	CCV, IWST-241007A
22	CCB-2,CCB,1	10/11/2024 12:46:39 PM	CCB
23	N069146-012B,SAMP,50	10/11/2024 1:02:57 PM	SAMP,0.2>10mL,
24	N069147-001B,SAMP,50	10/11/2024 1:19:16 PM	SAMP,0.2>10mL,
25	N069147-002B,SAMP,50	10/11/2024 1:35:34 PM	SAMP,0.2>10mL,
26	N069147-003B,SAMP,50	10/11/2024 1:51:53 PM	SAMP,0.2>10mL,
27	N069147-004B,SAMP,50	10/11/2024 2:08:11 PM	SAMP,0.2>10mL,
28	N069147-005B,SAMP,50	10/11/2024 2:24:28 PM	SAMP,0.2>10mL,
29	N069147-006B,SAMP,5	10/11/2024 2:40:47 PM	SAMP,2>10mL,
30	N069147-001BDUP,DUP,50	10/11/2024 2:57:05 PM	DUP,0.2>10mL,
31	N069147-001BMS,MS,50	10/11/2024 3:13:23 PM	MS,0.2>10mL,
32	N069150-008B,SAMP,10	10/11/2024 3:29:41 PM	SAMP,1>10mL,
33	CCV-3,CCV,1	10/11/2024 3:45:59 PM	CCV, IWST-241007A
34	CCB-3,CCB,1	10/11/2024 4:02:18 PM	CCB

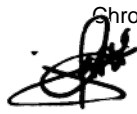


Sequence: IC-09_240923A
Operator: IC-05

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 20
Created: 9/23/2024 11:28:52 AM by IC-05
Last Update: 9/23/2024 4:12:34 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions_Default	EPA 300_0_240923A	Finished
2	BLANK	Unknown	2	1000.0	Anions_Default	EPA 300_0_240923A	Finished
3	BLANK	Unknown	4	1000.0	Anions_Default	EPA 300_0_240923A	Finished
4	Std - 0	Standard	6	1000.0	Anions_Default	EPA 300_0_240923A	Finished
5	Std - 1	Standard	7	1000.0	Anions_Default	EPA 300_0_240923A	Finished
6	Std - 2	Standard	8	1000.0	Anions_Default	EPA 300_0_240923A	Finished
7	Std - 3	Standard	9	1000.0	Anions_Default	EPA 300_0_240923A	Finished
8	Std - 4	Standard	10	1000.0	Anions_Default	EPA 300_0_240923A	Finished
9	Std - 5	Standard	11	1000.0	Anions_Default	EPA 300_0_240923A	Finished
10	ICV,ICV,1	Unknown	13	1000.0	Anions_Default	EPA 300_0_240923A	Finished
11	ICB,ICB,1	Unknown	14	1000.0	Anions_Default	EPA 300_0_240923A	Finished
12	MB-SOIL,MBLK,1	Unknown	15	1000.0	Anions_Default	EPA 300_0_240923A	Finished
13	LCS-SOIL,LCS,1	Unknown	16	1000.0	Anions_Default	EPA 300_0_240923A	Finished
14	N068585-001A,SAMP,20	Unknown	18	1000.0	Anions_Default	EPA 300_0_240923A	Finished
15	N068585-001ADUP,DUP,20	Unknown	20	1000.0	Anions_Default	EPA 300_0_240923A	Finished
16	N068585-001AMS,MS,20	Unknown	21	1000.0	Anions_Default	EPA 300_0_240923A	Finished
17	N068585-001AMSD,MSD,20	Unknown	22	1000.0	Anions_Default	EPA 300_0_240923A	Finished
18	N068585-001APS,MS,20	Unknown	23	1000.0	Anions_Default	EPA 300_0_240923A	Finished
19	CCV-1,CCV,1	Unknown	24	1000.0	Anions_Default	EPA 300_0_240923A	Finished
20	CCB-1,CCB,1	Unknown	25	1000.0	Anions_Default	EPA 300_0_240923A	Finished

Processed by:

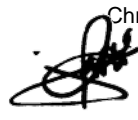


Sequence: IC-09_240923A
Operator: IC-05

Page 2 of 2
Printed: 9/23/2024 9:59:20 PM

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 20
Created: 9/23/2024 11:28:52 AM by IC-05
Last Update: 9/23/2024 4:12:34 PM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	9/23/2024 12:02:01 PM	BLANK
2	BLANK	9/23/2024 12:17:20 PM	BLANK
3	BLANK	9/23/2024 12:33:16 PM	BLANK
4	Std - 0	9/23/2024 12:59:38 PM	IBLANK
5	Std - 1	9/23/2024 1:15:34 PM	STD-LOW
6	Std - 2	9/23/2024 1:31:30 PM	STD
7	Std - 3	9/23/2024 1:47:25 PM	STD
8	Std - 4	9/23/2024 2:03:20 PM	STD
9	Std - 5	9/23/2024 2:19:16 PM	STD-HIGH
10	ICV,ICV,1	9/23/2024 2:35:11 PM	ICV, IWST-240920B
11	ICB,ICB,1	9/23/2024 2:51:07 PM	CCB
12	MB-SOIL,MBLK,1	9/23/2024 3:07:03 PM	MB
13	LCS-SOIL,LCS,1	9/23/2024 3:22:58 PM	LCS, IWST-240920B
14	N068585-001A,SAMP,20	9/23/2024 3:48:29 PM	SAMP,0.5>10mL,
15	N068585-001ADUP,DUP,20	9/23/2024 4:13:18 PM	DUP,0.5>10mL,
16	N068585-001AMS,MS,20	9/23/2024 4:29:14 PM	MS,0.5>10mL,
17	N068585-001AMSD,MSD,20	9/23/2024 4:45:09 PM	MSD,0.5>10mL,
18	N068585-001APS,MS,20	9/23/2024 5:01:05 PM	PS,0.5>10mL,
19	CCV-1,CCV,1	9/23/2024 5:17:00 PM	CCV, IWST-240920A
20	CCB-1,CCB,1	9/23/2024 5:32:55 PM	CCB



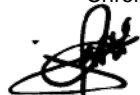
Sequence: IC-09_241011A
Operator: IC-05

Title:
Datatype: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 72
Created: 10/10/2024 11:31:09 AM by IC-05
Last Update: 10/12/2024 6:18:11 AM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
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2	BLANK	Unknown	2	1000.0	Anions_Default	EPA 300_0_240923A	Finished
3	BLANK	Unknown	4	1000.0	Anions_Default	EPA 300_0_240923A	Finished
4	Std - 0	Standard	6	1000.0	Anions_Default	EPA 300_0_240923A	Finished
5	Std - 1	Standard	7	1000.0	Anions_Default	EPA 300_0_240923A	Finished
6	Std - 2	Standard	8	1000.0	Anions_Default	EPA 300_0_240923A	Finished
7	Std - 3	Standard	9	1000.0	Anions_Default	EPA 300_0_240923A	Finished
8	Std - 4	Standard	10	1000.0	Anions_Default	EPA 300_0_240923A	Finished
9	Std - 5	Standard	11	1000.0	Anions_Default	EPA 300_0_240923A	Finished
10	BLANK	Unknown	1	1000.0	Anions_Default	EPA 300_0_240923A	Finished
11	CCV-1,CCV,1	Unknown	2	1000.0	Anions_Default	EPA 300_0_240923A	Finished
12	CCB-1,CCB,1	Unknown	3	1000.0	Anions_Default	EPA 300_0_240923A	Finished
13	MB-H2O,MBLK,1	Unknown	4	1000.0	Anions_Default	EPA 300_0_240923A	Finished
14	LCS-H2O,LCS,1	Unknown	5	1000.0	Anions_Default	EPA 300_0_240923A	Finished
15	N069146-013B,SAMP,10	Unknown	6	1000.0	Anions_Default	EPA 300_0_240923A	Finished
16	N069146-013BMS,MS,10	Unknown	7	1000.0	Anions_Default	EPA 300_0_240923A	Finished
17	N069146-013BMSD,MSD,10	Unknown	8	1000.0	Anions_Default	EPA 300_0_240923A	Finished
18	N069147-002B,SAMP,10	Unknown	9	1000.0	Anions_Default	EPA 300_0_240923A	Finished
19	N069147-006B,SAMP,10	Unknown	10	1000.0	Anions_Default	EPA 300_0_240923A	Finished
20	N069146-003B,SAMP,10	Unknown	11	1000.0	Anions_Default	EPA 300_0_240923A	Finished
21	N069146-005B,SAMP,10	Unknown	12	1000.0	Anions_Default	EPA 300_0_240923A	Finished
22	N069146-006B,SAMP,10	Unknown	13	1000.0	Anions_Default	EPA 300_0_240923A	Finished
23	CCV-2,CCV,1	Unknown	14	1000.0	Anions_Default	EPA 300_0_240923A	Finished
24	CCB-2,CCB,1	Unknown	15	1000.0	Anions_Default	EPA 300_0_240923A	Finished
25	N069146-007B,SAMP,10	Unknown	16	1000.0	Anions_Default	EPA 300_0_240923A	Finished
26	N069146-009B,SAMP,10	Unknown	17	1000.0	Anions_Default	EPA 300_0_240923A	Finished
27	N069146-011B,SAMP,10	Unknown	18	1000.0	Anions_Default	EPA 300_0_240923A	Finished
28	N069146-012B,SAMP,10	Unknown	1	1000.0	Anions_Default	EPA 300_0_240923A	Finished
29	N069146-001B,SAMP,10	Unknown	2	1000.0	Anions_Default	EPA 300_0_240923A	Finished
30	N069146-002B,SAMP,10	Unknown	3	1000.0	Anions_Default	EPA 300_0_240923A	Finished
31	N069147-001B,SAMP,10	Unknown	4	1000.0	Anions_Default	EPA 300_0_240923A	Finished
32	N069147-003B,SAMP,10	Unknown	5	1000.0	Anions_Default	EPA 300_0_240923A	Finished
33	N069147-004B,SAMP,10	Unknown	6	1000.0	Anions_Default	EPA 300_0_240923A	Finished
34	N069147-005B,SAMP,10	Unknown	7	1000.0	Anions_Default	EPA 300_0_240923A	Finished
35	CCV-3,CCV,1	Unknown	8	1000.0	Anions_Default	EPA 300_0_240923A	Finished
36	CCB-3,CCB,1	Unknown	9	1000.0	Anions_Default	EPA 300_0_240923A	Finished
37	N069147-001BDUP,DUP,10	Unknown	10	1000.0	Anions_Default	EPA 300_0_240923A	Finished
38	N069147-001BMS,MS,10	Unknown	11	1000.0	Anions_Default	EPA 300_0_240923A	Finished
39	N069147-006B,SAMP,5	Unknown	12	1000.0	Anions_Default	EPA 300_0_240923A	Finished
40	MB-2,MBLK,1	Unknown	13	1000.0	Anions_Default	EPA 300_0_240923A	Finished
41	LCS-2,LCS,1	Unknown	14	1000.0	Anions_Default	EPA 300_0_240923A	Finished

Processed by:

Chromleon © Dionex Corporation, Version 6.80 SR10 Build 2818 (166959)



10/13/2024

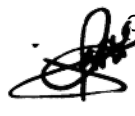
NV00922-IC9 RBA 10/13/2024 10:27:20 PM

Sequence: IC-09_241011A
Operator: IC-05

Page 2 of 4
Printed: 10/13/2024 10:22:40 PM

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 72
Created: 10/10/2024 11:31:09 AM by IC-05
Last Update: 10/12/2024 6:18:11 AM by IC-05

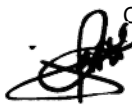
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1	BLANK	9/23/2024 12:02:01 PM	BLANK
2	BLANK	9/23/2024 12:17:20 PM	BLANK
3	BLANK	9/23/2024 12:33:16 PM	BLANK
4	Std - 0	9/23/2024 12:59:38 PM	IBLANK
5	Std - 1	9/23/2024 1:15:34 PM	STD-LOW
6	Std - 2	9/23/2024 1:31:30 PM	STD
7	Std - 3	9/23/2024 1:47:25 PM	STD
8	Std - 4	9/23/2024 2:03:20 PM	STD
9	Std - 5	9/23/2024 2:19:16 PM	STD-HIGH
10	BLANK	10/11/2024 9:14:49 AM	BLANK
11	CCV-1,CCV,1	10/11/2024 9:30:07 AM	CCV, IWST-241007A
12	CCB-1,CCB,1	10/11/2024 9:46:03 AM	CCB
13	MB-H2O,MBLK,1	10/11/2024 10:02:00 AM	MB
14	LCS-H2O,LCS,1	10/11/2024 10:17:56 AM	LCS, IWST-241007B
15	N069146-013B,SAMP,10	10/11/2024 10:33:53 AM	SAMP,1>10mL,
16	N069146-013BMS,MS,10	10/11/2024 10:49:49 AM	MS,1>10mL,
17	N069146-013BMSD,MSD,10	10/11/2024 11:05:45 AM	MSD,1>10mL,
18	N069147-002B,SAMP,10	10/11/2024 11:21:40 AM	SAMP,1>10mL,
19	N069147-006B,SAMP,10	10/11/2024 11:37:37 AM	SAMP,1>10mL,
20	N069146-003B,SAMP,10	10/11/2024 11:53:32 AM	SAMP,1>10mL,
21	N069146-005B,SAMP,10	10/11/2024 12:09:28 PM	SAMP,1>10mL,
22	N069146-006B,SAMP,10	10/11/2024 12:25:24 PM	SAMP,1>10mL,
23	CCV-2,CCV,1	10/11/2024 12:41:20 PM	CCV, IWST-241007A
24	CCB-2,CCB,1	10/11/2024 12:57:16 PM	CCB
25	N069146-007B,SAMP,10	10/11/2024 1:13:11 PM	SAMP,1>10mL,
26	N069146-009B,SAMP,10	10/11/2024 1:29:07 PM	SAMP,1>10mL,
27	N069146-011B,SAMP,10	10/11/2024 1:45:03 PM	SAMP,1>10mL,
28	N069146-012B,SAMP,10	10/11/2024 2:09:07 PM	SAMP,1>10mL,
29	N069146-001B,SAMP,10	10/11/2024 2:24:26 PM	SAMP,1>10mL,
30	N069146-002B,SAMP,10	10/11/2024 2:40:21 PM	SAMP,1>10mL,
31	N069147-001B,SAMP,10	10/11/2024 2:56:17 PM	SAMP,1>10mL,
32	N069147-003B,SAMP,10	10/11/2024 3:12:13 PM	SAMP,1>10mL,
33	N069147-004B,SAMP,10	10/11/2024 3:28:09 PM	SAMP,1>10mL,
34	N069147-005B,SAMP,10	10/11/2024 3:44:05 PM	SAMP,1>10mL,
35	CCV-3,CCV,1	10/11/2024 4:00:01 PM	CCV, IWST-241007A
36	CCB-3,CCB,1	10/11/2024 4:15:58 PM	CCB
37	N069147-001BDUP,DUP,10	10/11/2024 4:31:54 PM	DUP,1>10mL,
38	N069147-001BMS,MS,10	10/11/2024 4:47:50 PM	MS,1>10mL,
39	N069147-006B,SAMP,5	10/11/2024 5:03:46 PM	SAMP,2>10mL,
40	MB-2,MBLK,1	10/11/2024 5:19:42 PM	MB
41	LCS-2,LCS,1	10/11/2024 5:35:38 PM	LCS, IWST-241007B



Sequence: IC-09_241011A
Operator: IC-05

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 72
Created: 10/10/2024 11:31:09 AM by IC-05
Last Update: 10/12/2024 6:18:11 AM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
42	N069148-002B,SAMP,2	Unknown	15	1000.0	Anions_Default	EPA 300_0_240923A	Finished
43	N069148-011B,SAMP,5	Unknown	16	1000.0	Anions_Default	EPA 300_0_240923A	Finished
44	N069148-003B,SAMP,2	Unknown	17	1000.0	Anions_Default	EPA 300_0_240923A	Finished
45	N069148-004B,SAMP,5	Unknown	18	1000.0	Anions_Default	EPA 300_0_240923A	Finished
46	N069148-007B,SAMP,5	Unknown	19	1000.0	Anions_Default	EPA 300_0_240923A	Finished
47	CCV-4,CCV,1	Unknown	20	1000.0	Anions_Default	EPA 300_0_240923A	Finished
48	CCB-4,CCB,1	Unknown	21	1000.0	Anions_Default	EPA 300_0_240923A	Finished
49	N069148-008B,SAMP,5	Unknown	22	1000.0	Anions_Default	EPA 300_0_240923A	Finished
50	N069148-009B,SAMP,10	Unknown	23	1000.0	Anions_Default	EPA 300_0_240923A	Finished
51	N069148-010B,SAMP,10	Unknown	24	1000.0	Anions_Default	EPA 300_0_240923A	Finished
52	N069148-012B,SAMP,5	Unknown	25	1000.0	Anions_Default	EPA 300_0_240923A	Finished
53	N069148-013B,SAMP,5	Unknown	26	1000.0	Anions_Default	EPA 300_0_240923A	Finished
54	N069150-001B,SAMP,20	Unknown	27	1000.0	Anions_Default	EPA 300_0_240923A	Finished
55	N069150-006B,SAMP,2	Unknown	28	1000.0	Anions_Default	EPA 300_0_240923A	Finished
56	N069150-007B,SAMP,2	Unknown	29	1000.0	Anions_Default	EPA 300_0_240923A	Finished
57	N069150-008B,SAMP,2	Unknown	30	1000.0	Anions_Default	EPA 300_0_240923A	Finished
58	N069149-007B,SAMP,10	Unknown	31	1000.0	Anions_Default	EPA 300_0_240923A	Finished
59	CCV-5,CCV,1	Unknown	32	1000.0	Anions_Default	EPA 300_0_240923A	Finished
60	CCB-5,CCB,1	Unknown	33	1000.0	Anions_Default	EPA 300_0_240923A	Finished
61	N069149-008B,SAMP,10	Unknown	34	1000.0	Anions_Default	EPA 300_0_240923A	Finished
62	N069148-002BMS,MS,2	Unknown	35	1000.0	Anions_Default	EPA 300_0_240923A	Finished
63	N069148-002BMSD,MSD,2	Unknown	36	1000.0	Anions_Default	EPA 300_0_240923A	Finished
64	N069148-011BDUP,DUP,5	Unknown	37	1000.0	Anions_Default	EPA 300_0_240923A	Finished
65	N069148-011BMS,MS,5	Unknown	38	1000.0	Anions_Default	EPA 300_0_240923A	Finished
66	CCV-6,CCV,1	Unknown	39	1000.0	Anions_Default	EPA 300_0_240923A	Finished
67	CCB-6,CCB,1	Unknown	40	1000.0	Anions_Default	EPA 300_0_240923A	Finished
68	MB-2,MBLK,1	Unknown	1	1000.0	Anions_Default	EPA 300_0_240923A	Finished
69	N069150-001BMS,MS,20	Unknown	3	1000.0	Anions_Default	EPA 300_0_240923A	Finished
70	N069150-001BMSD,MSD,20	Unknown	4	1000.0	Anions_Default	EPA 300_0_240923A	Finished
71	CCV-7,CCV,1	Unknown	5	1000.0	Anions_Default	EPA 300_0_240923A	Finished
72	CCB-7,CCB,1	Unknown	6	1000.0	Anions_Default	EPA 300_0_240923A	Finished

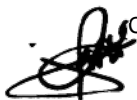


Sequence: IC-09_241011A
Operator: IC-05

Page 4 of 4
Printed: 10/13/2024 10:22:40 PM

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 72
Created: 10/10/2024 11:31:09 AM by IC-05
Last Update: 10/12/2024 6:18:11 AM by IC-05

No.	Name	Inj. Date/Time	Comment
42	N069148-002B,SAMP,2	10/11/2024 5:51:34 PM	SAMP,5>10mL,
43	N069148-011B,SAMP,5	10/11/2024 6:07:31 PM	SAMP,2>10mL,
44	N069148-003B,SAMP,2	10/11/2024 6:23:27 PM	SAMP,0.5>10mL,
45	N069148-004B,SAMP,5	10/11/2024 6:39:23 PM	SAMP,0.02>10mL,
46	N069148-007B,SAMP,5	10/11/2024 6:55:19 PM	SAMP,2>10mL,
47	CCV-4,CCV,1	10/11/2024 7:11:16 PM	CCV, IWST-241007A
48	CCB-4,CCB,1	10/11/2024 7:27:11 PM	CCB
49	N069148-008B,SAMP,5	10/11/2024 7:43:07 PM	SAMP,2>10mL,
50	N069148-009B,SAMP,10	10/11/2024 7:59:03 PM	SAMP,1>10mL,
51	N069148-010B,SAMP,10	10/11/2024 8:14:58 PM	SAMP,1>10mL,
52	N069148-012B,SAMP,5	10/11/2024 8:30:54 PM	SAMP,2>10mL,
53	N069148-013B,SAMP,5	10/11/2024 8:46:50 PM	SAMP,2>10mL,
54	N069150-001B,SAMP,20	10/11/2024 9:02:46 PM	SAMP,0.5>10mL,
55	N069150-006B,SAMP,2	10/11/2024 9:18:42 PM	SAMP,5>10mL,
56	N069150-007B,SAMP,2	10/11/2024 9:34:38 PM	SAMP,5>10mL,
57	N069150-008B,SAMP,2	10/11/2024 9:50:34 PM	SAMP,5>10mL,
58	N069149-007B,SAMP,10	10/11/2024 10:06:31 PM	SAMP,1>10mL,
59	CCV-5,CCV,1	10/11/2024 10:22:27 PM	CCV, IWST-241007A
60	CCB-5,CCB,1	10/11/2024 10:38:23 PM	CCB
61	N069149-008B,SAMP,10	10/11/2024 10:54:19 PM	SAMP,1>10mL,
62	N069148-002BMS,MS,2	10/11/2024 11:10:15 PM	MS,5>10mL,
63	N069148-002BMSD,MSD,2	10/11/2024 11:26:11 PM	MSD,5>10mL,
64	N069148-011BDUP,DUP,5	10/11/2024 11:42:07 PM	DUP,2>10mL,
65	N069148-011BMS,MS,5	10/11/2024 11:58:03 PM	MS,2>10mL,
66	CCV-6,CCV,1	10/12/2024 12:14:00 AM	CCV, IWST-241007A
67	CCB-6,CCB,1	10/12/2024 12:29:56 AM	CCB
68	MB-2,MBLK,1	10/12/2024 5:51:54 AM	MB
69	N069150-001BMS,MS,20	10/12/2024 6:18:14 AM	MS,0.5>10mL,
70	N069150-001BMSD,MSD,20	10/12/2024 6:34:10 AM	MSD,0.5>10mL,
71	CCV-7,CCV,1	10/12/2024 6:50:06 AM	CCV, IWST-241007A
72	CCB-7,CCB,1	10/12/2024 7:06:02 AM	CCB



INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
INTEGRATION OF SURVEILLANCE, ANALYTICAL, & TESTING SERVICES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

(EPA 300) - INITIAL CALIBRATION

Instrument ID: NV00922-IC9

Date Calibrated: 9/23/2024

Initial Calibration:

Nitrate	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in mg/L	0	0.05	0.25	0.5	1.25	2.5	R ²
Area,mAU*min	0.0000	0.0194	0.0962	0.1883	0.4778	0.9820	1.000
Measured, in mg/L	0.000000	0.061700	0.257000	0.491400	1.228300	2.511600	
Relative Error (%RE)		23.4%		-1.7%			

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST-240705D

Calibration Acceptance Criteria: > 0.995 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

(EPA 300) - INITIAL CALIBRATION

Instrument ID: NV00922-IC8
Date Calibrated: 9/23/2024

Initial Calibration:

Sulfate	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in mg/L	0	0.5	2	4	10	20	R ²
Area,mAU*min	0.0000	0.0533	0.2096	0.4173	1.0805	2.2596	0.999
Measured, in mg/L	0.000000	0.675700	2.054500	3.887600	9.739100	20.143100	
Relative Error (%RE)		35.1%		-2.8%			

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST-240705F

Calibration Acceptance Criteria: > 0.995 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places.
The exact values are represented in the ICAL summary for calculation purposes.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
INTEGRATION • INNOVATION • IMPROVEMENT

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID ICV	SampType: ICV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 194191						
Client ID: ICV	Batch ID: R194191	TestNo: EPA 300.0	Analysis Date: 9/23/2024	SeqNo: 6226999							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.989	0.50	4.000	0	99.7	90	110				

Sample ID CCV-1	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 194191						
Client ID: CCV	Batch ID: R194191	TestNo: EPA 300.0	Analysis Date: 10/11/2024	SeqNo: 6227001							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.946	0.50	4.000	0	98.6	90	110				

Sample ID CCV-2	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 194191						
Client ID: CCV	Batch ID: R194191	TestNo: EPA 300.0	Analysis Date: 10/11/2024	SeqNo: 6227013							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.906	0.50	4.000	0	97.6	90	110				

Sample ID CCV-3	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 194191						
Client ID: CCV	Batch ID: R194191	TestNo: EPA 300.0	Analysis Date: 10/11/2024	SeqNo: 6227025							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.885	0.50	4.000	0	97.1	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID ICV	SampType: ICV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194197						
Client ID: ICV	Batch ID: R194197	TestNo: EPA 300.0		Analysis Date: 9/23/2024	SeqNo: 6227119						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.229	0.050	1.250	0	98.3	90	110				

Sample ID CCV-1	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194197						
Client ID: CCV	Batch ID: R194197	TestNo: EPA 300.0		Analysis Date: 10/11/2024	SeqNo: 6227121						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.241	0.050	1.250	0	99.3	90	110				

Sample ID CCV-2	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194197						
Client ID: CCV	Batch ID: R194197	TestNo: EPA 300.0		Analysis Date: 10/11/2024	SeqNo: 6227133						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.236	0.050	1.250	0	98.9	90	110				

Sample ID CCV-3	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194197						
Client ID: CCV	Batch ID: R194197	TestNo: EPA 300.0		Analysis Date: 10/11/2024	SeqNo: 6227145						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.277	0.050	1.250	0	102	90	110				

Sample ID CCV-4	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194197						
Client ID: CCV	Batch ID: R194197	TestNo: EPA 300.0		Analysis Date: 10/11/2024	SeqNo: 6227150						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.246	0.050	1.250	0	99.6	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL INSTRUMENTATION

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID ICB	SampType: ICB	TestCode: 300_W_SO4P Units: mg/L	Prep Date:	RunNo: 194191							
Client ID: ICB	Batch ID: R194191	TestNo: EPA 300.0	Analysis Date: 9/23/2024	SeqNo: 6227000							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	0.50									

Sample ID CCB-1	SampType: CCB	TestCode: 300_W_SO4P Units: mg/L	Prep Date:	RunNo: 194191							
Client ID: CCB	Batch ID: R194191	TestNo: EPA 300.0	Analysis Date: 10/11/2024	SeqNo: 6227002							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	0.50									

Sample ID CCB-2	SampType: CCB	TestCode: 300_W_SO4P Units: mg/L	Prep Date:	RunNo: 194191							
Client ID: CCB	Batch ID: R194191	TestNo: EPA 300.0	Analysis Date: 10/11/2024	SeqNo: 6227014							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	0.50									

Sample ID CCB-3	SampType: CCB	TestCode: 300_W_SO4P Units: mg/L	Prep Date:	RunNo: 194191							
Client ID: CCB	Batch ID: R194191	TestNo: EPA 300.0	Analysis Date: 10/11/2024	SeqNo: 6227026							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	0.50									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID ICB	SampType: ICB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194197						
Client ID: ICB	Batch ID: R194197	TestNo: EPA 300.0		Analysis Date: 9/23/2024	SeqNo: 6227120						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID CCB-1	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194197						
Client ID: CCB	Batch ID: R194197	TestNo: EPA 300.0		Analysis Date: 10/11/2024	SeqNo: 6227122						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID CCB-2	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194197						
Client ID: CCB	Batch ID: R194197	TestNo: EPA 300.0		Analysis Date: 10/11/2024	SeqNo: 6227134						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID CCB-3	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194197						
Client ID: CCB	Batch ID: R194197	TestNo: EPA 300.0		Analysis Date: 10/11/2024	SeqNo: 6227146						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID CCB-4	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194197						
Client ID: CCB	Batch ID: R194197	TestNo: EPA 300.0		Analysis Date: 10/11/2024	SeqNo: 6227151						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- Calculations are based on raw values
- (M) Test is modified

RETENTION TIME SUMMARY



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RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC9

Analytical Sequence

Date Analyzed: 10/11/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Nitrate 6.881	
CCV-1	Nitrate 6.804	
CCV-2	Nitrate 6.784	
CCV-3	Nitrate 6.801	
CCV-4	Nitrate 6.821	

Average 6.803
Applied RT Window 6.603 - 7.003

MB-R194197_NO3	Nitrate	N.A.	N.A.
LCS-R194197_NO3	Nitrate	6.817	PASS
N069146-013BMS	Nitrate	6.797	PASS
N069146-013BMSD	Nitrate	6.797	PASS
N069147-002B	Nitrate	N.A.	N.A.
N069147-001B	Nitrate	N.A.	N.A.
N069147-003B	Nitrate	N.A.	N.A.
N069147-004B	Nitrate	N.A.	N.A.
N069147-005B	Nitrate	N.A.	N.A.
N069147-001BDUP	Nitrate	N.A.	N.A.
N069147-001BMS	Nitrate	6.801	PASS
N069147-006B	Nitrate	6.781	PASS

Reviewed by:

d/Rocha 11/6/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC8

Analytical Sequence

Date Analyzed: 10/11/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Sulfate 10.864	
CCV-1	Sulfate 10.474	
CCV-2	Sulfate 10.467	
CCV-3	Sulfate 10.510	

Average 10.484
Applied RT Window 10.284 - 10.684

MB-R194191_SO4	Sulfate	10.547	PASS
LCS-R194191_SO4	Sulfate	10.477	PASS
N069146-013BMS	Sulfate	10.467	PASS
N069146-013BMSD	Sulfate	10.467	PASS
N069147-001B	Sulfate	10.464	PASS
N069147-002B	Sulfate	10.463	PASS
N069147-003B	Sulfate	10.460	PASS
N069147-004B	Sulfate	10.467	PASS
N069147-005B	Sulfate	10.467	PASS
N069147-006B	Sulfate	10.470	PASS
N069147-001BDUP	Sulfate	10.467	PASS
N069147-001BMS	Sulfate	10.517	PASS

Reviewed by:

d/Rocha 11/6/2024

MDL STUDY



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METHOD DETECTION LIMIT (Spiked)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): 10/5/2022, 12/14/2022, 3/22/2023, 7/10/2023; 10/3/2023 & 11/14/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: mg/L

Instrument Name: **IC-08 & IC-09**

Datafile IC-08 221005A #24 IC-08 221214A #30 IC-08 230322A #35 IC-08 230710A #13 IC-09 231003A #14 IC-08 231114A #24 IC-09 231114A #19

Analyte	#1	#2	#3	#4	#5	#6	#7	Spike Conc., mg/L	SD	t _(n-1) value	MDLs	MDL	PQL
Fluoride	0.100	0.103	0.108	0.118	0.110	0.098	0.126	0.10	0.0101	3.143	0.0318	0.0318	0.10
Chloride	0.480	0.418	0.472	0.653	0.624	0.587	0.622	0.50	0.0922	3.143	0.2898	0.2898	0.50
Nitrite	0.068	0.061	0.060	0.071	0.063	0.061	0.070	0.05	0.0047	3.143	0.0149	0.0149	0.05
Bromide	0.526	0.502	0.509	0.522	0.536	0.527	0.520	0.50	0.0116	3.143	0.0364	0.0364	0.50
Nitrate	0.073	0.058	0.059	0.073	0.074	0.068	0.073	0.05	0.0068	3.143	0.0215	0.0240	0.05
Phosphate	0.112	0.096	0.114	0.120	0.130	0.093	0.124	0.10	0.0138	3.143	0.0433	0.0433	0.10
Sulfate	0.501	0.609	0.638	0.401	0.704	0.620	0.697	0.50	0.1092	3.143	0.3432	0.3432	0.50

METHOD DETECTION LIMIT (Blanks)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Analyte	MDLb	# of Records
Fluoride	0	63
Chloride	0.1456	80
Nitrite	0.0147	64
Bromide	0	18
Nitrate	0.0240	132
Phosphate	0.0237	34
Sulfate	0.2579	107

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

EPA 6010B Dissolved



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 113120
ASSET #: N069147

Instrument ID: NV00922-ICP4
Analyst: DBJ

Method:

EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 10/11/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)			X			X
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ

2nd Level Reviewer _____

Date: _____

Date: 10/27/2024

SAMPLE CALCULATION



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SAMPLE CALCULATION

METHOD: EPA 6010B
TEST NAME: Heavy Metals by ICP
MATRIX: Groundwater

FORMULA:

Calculate the Iron concentration, in ug/L, in the original sample as follows:

$$\text{Iron, ug/L} = A * DF * PF * CF$$

where:

A = mg/L, calculated concentration

DF = Dilution Factor

PF = Final Volume of Digestate, mL / Amount of Sample, mL

CF= Conversion Factor from mg/L to ug/L, 1000

For Sample **N069147-002C**, the concentration in ug/L is calculated as follows:

$$\text{Iron, ug/L} = 0.43499 * 1 * (25/25) * 1000$$

$$\text{Iron, ug/L} = 434.99$$

Reporting results in two significant figures,

$$\text{Iron, ug/L} = \mathbf{430}$$

Reviewed by:

d/Rocha 11/6/2024

% RSD SUMMARY



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RSD SUMMARY: 241011A

Instrument ID: NV00922-ICP4

PQL: 0.02 mg/L

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
Blank	BLK	1	Fe	0	-	15	PASS
Standard 1	ICAL	1	Fe	0.02	-	15	PASS
Standard 2	ICAL	1	Fe	0.05	-	15	PASS
Standard 3	ICAL	1	Fe	2	-	15	PASS
Standard 4	ICAL	1	Fe	5	-	15	PASS
Standard 5	ICAL	1	Fe	7.5	-	15	PASS
Standard 6	ICAL	1	Fe	10	-	15	PASS
Standard 7	ICAL	1	Fe	0	-	15	PASS
ICV	ICV	1	Fe	10.13955	0.20	15	PASS
ICB	ICB	1	Fe	-0.00235	6.13	15	PASS
LLCCV1	CCV1	1	Fe	0.01634	0.03	20	PASS
LLCCV2	CCV1	1	Fe	0.40049	0.15	20	PASS
ICSA1	ICSA	1	Fe	10.26486	0.25	15	PASS
ICSAB1	ICSAB	1	Fe	10.01126	0.11	15	PASS
LLCCV1	CCV1	1	Fe	0.01643	0.76	20	PASS
CCV1	CCV	1	Fe	10.08869	0.05	15	PASS
CCB1	CCB	1	Fe	-0.0006	9.38	15	PASS
CCV2	CCV	1	Fe	10.08763	0.13	15	PASS
CCB2	CCB	1	Fe	0.00066	80.57	15	< PQL
CCV3	CCV	1	Fe	10.08103	0.09	15	PASS
CCB3	CCB	1	Fe	0.00086	56.79	15	< PQL
ICSA2	ICSA	1	Fe	10.19222	1.22	15	PASS
ICSAB2	ICSAB	1	Fe	9.94509	0.04	15	PASS
CCV4	CCV	1	Fe	10.00516	0.07	15	PASS
CCB4	CCB	1	Fe	-0.00098	5.96	15	PASS
CCV5	CCV	1	Fe	10.04066	0.19	15	PASS
CCB5	CCB	1	Fe	-0.00006	241.04	15	< PQL
CCV6	CCV	1	Fe	10.03592	0.05	15	PASS
CCB6	CCB	1	Fe	0.00001	2131.90	15	< PQL
CCV7	CCV	1	Fe	10.03322	0.05	15	PASS
CCB7	CCB	1	Fe	0.00012	368.79	15	< PQL
ICSA3	ICSA	1	Fe	10.16017	0.14	15	PASS
ICSAB3	ICSAB	1	Fe	9.90847	0.09	15	PASS
CCV8	CCV	1	Fe	9.98405	0.06	15	PASS
CCB8	CCB	1	Fe	-0.0019	1.92	15	PASS
CCV9	CCV	1	Fe	9.97508	0.01	15	PASS
CCB9	CCB	1	Fe	-0.00197	6.33	15	PASS
MB-113210	MBLK	1	Fe	0.0059	1.54	15	PASS
LCS-113210	LCS	1	Fe	0.10984	0.24	15	PASS
N069146-001C	SAMP	1	Fe	0.17982	0.07	15	PASS
N069146-002C	SAMP	1	Fe	0.08735	0.01	15	PASS

RSD SUMMARY: 241011A

Instrument ID: NV00922-ICP4

PQL: 0.02 mg/L

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
N069146-005B	SAMP	1	Fe	6.78591	0.08	15	PASS
N069146-006B	SAMP	1	Fe	6.76812	0.19	15	PASS
N069146-007C	SAMP	1	Fe	2.49079	0.11	15	PASS
N069146-009C	SAMP	1	Fe	0.00198	8.02	15	PASS
N069146-011C	SAMP	1	Fe	0.0192	0.96	15	PASS
N069146-012C	SAMP	1	Fe	0.01562	0.86	15	PASS
CCV10	CCV	1	Fe	9.96752	0.10	15	PASS
CCB10	CCB	1	Fe	-0.00196	8.02	15	PASS
N069146-013C	SAMP	1	Fe	0.01321	1.35	15	PASS
N069146-013C	SAMP	5	Fe	-0.00101	2.53	15	PASS
N069146-013C-PS	PS	1	Fe	0.12023	0.28	15	PASS
N069146-013CMS	MS	1	Fe	0.11597	0.25	15	PASS
N069146-013CMSD	MSD	1	Fe	0.1216	0.23	15	PASS
N069147-001C	SAMP	1	Fe	0.0152	0.87	15	PASS
N069147-002C	SAMP	1	Fe	0.43499	0.05	15	PASS
N069147-003C	SAMP	1	Fe	0.10781	0.51	15	PASS
N069147-004C	SAMP	1	Fe	0.24186	0.09	15	PASS
N069147-005C	SAMP	1	Fe	0.32958	0.11	15	PASS
CCV11	CCV	1	Fe	9.94668	0.11	15	PASS
CCB11	CCB	1	Fe	-0.00175	2.37	15	PASS
N069147-006C	SAMP	1	Fe	0.0297	0.94	15	PASS
N069148-001B	SAMP	1	Fe	0.004	3.08	15	PASS
N069148-002C	SAMP	1	Fe	10.57732	0.19	15	PASS
N069148-003E	SAMP	1	Fe	0.34543	0.22	15	PASS
N069148-004C	SAMP	1	Fe	0.97425	0.22	15	PASS
N069148-005B	SAMP	1	Fe	0.01706	0.83	15	PASS
CCV12	CCV	1	Fe	9.94979	0.09	15	PASS
CCB12	CCB	1	Fe	-0.00215	4.86	15	PASS
CCV13	CCV	1	Fe	9.95847	0.07	15	PASS
CCB13	CCB	1	Fe	-0.00214	7.09	15	PASS
CCV14	CCV	1	Fe	9.95093	0.04	15	PASS
CCB14	CCB	1	Fe	-0.00206	7.44	15	PASS
ICSA4	ICSA	1	Fe	10.10283	0.41	15	PASS
ICSA B4	ICSAB	1	Fe	9.84208	0.05	15	PASS

ANALYSIS RUN LOG



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INJECTION LOG: 241011A

Instrument ID: NV00922-ICP4

STANDARD CODE	
Standard1	MWST-240820N, 0.5<50mL
Standard2	MWST-240820O
Standard3	MWST-240820P, 5<50mL
Standard4	MWST-240820P,12.5<50mL
Standard5	MWST-240820P, 15<40mL
Standard6	MWST-240820P, 25<50mL
Standard7	MWST-240820P
ICV	MWST-240820AG
CCV	MWST-240820P, 25<50mL
ICSA/ICSAB	MWST-240820Q / MWST-240820R
Int. Std	MSST-240801A/240801B
PS Spike	MWST-240820Y/Z/AA

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
1	Blank	BLK	1	10/11/2024	8:47:25 PM
2	Standard 1	ICAL	1	10/11/2024	8:49:42 PM
3	Standard 2	ICAL	1	10/11/2024	8:51:59 PM
4	Standard 3	ICAL	1	10/11/2024	8:54:16 PM
5	Standard 4	ICAL	1	10/11/2024	8:56:33 PM
6	Standard 5	ICAL	1	10/11/2024	8:58:51 PM
7	Standard 6	ICAL	1	10/11/2024	9:01:07 PM
8	Standard 7	ICAL	1	10/11/2024	9:03:24 PM
9	ICV	ICV	1	10/11/2024	9:13:10 PM
10	ICB	ICB	1	10/11/2024	9:15:27 PM
11	LLCCV1	CCV1	1	10/11/2024	9:17:44 PM
12	LLCCV2	CCV1	1	10/11/2024	9:20:02 PM
13	ICSA1	ICSA	1	10/11/2024	9:22:19 PM
14	ICSAB1	ICSAB	1	10/11/2024	9:24:36 PM
15	LLCCV1	CCV1	1	10/11/2024	9:26:35 PM
16	MB-113207	MBLK	1	10/11/2024	9:34:28 PM
17	LCS-113207	LCS	1	10/11/2024	9:36:45 PM
18	N069135-001A	SAMP	1	10/11/2024	9:39:02 PM
19	N069135-002A	SAMP	1	10/11/2024	9:41:19 PM
20	N069135-003A	SAMP	1	10/11/2024	9:43:36 PM
21	N069136-001A	SAMP	1	10/11/2024	9:45:53 PM
22	N069136-001A	SAMP	5	10/11/2024	9:48:11 PM
23	N069136-001A-PS	PS	1	10/11/2024	9:50:29 PM
24	N069136-001A-MS	MS	1	10/11/2024	9:52:46 PM
25	N069136-001A-MSD	MSD	1	10/11/2024	9:55:03 PM
26	CCV1	CCV	1	10/11/2024	9:57:20 PM
27	CCB1	CCB	1	10/11/2024	9:59:36 PM
28	N069136-002A	SAMP	1	10/11/2024	10:01:53 PM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
29	N069140-001A	SAMP	1	10/11/2024	10:04:11 PM
30	N069141-001A	SAMP	1	10/11/2024	10:06:28 PM
31	N069141-002A	SAMP	1	10/11/2024	10:08:45 PM
32	N069142-001A	SAMP	1	10/11/2024	10:11:02 PM
33	N069143-001A	SAMP	1	10/11/2024	10:13:19 PM
34	N069143-002A	SAMP	1	10/11/2024	10:15:37 PM
35	N069143-003A	SAMP	1	10/11/2024	10:17:54 PM
36	N069143-004A	SAMP	1	10/11/2024	10:20:11 PM
37	N069143-005A	SAMP	1	10/11/2024	10:22:28 PM
38	CCV2	CCV	1	10/11/2024	10:24:45 PM
39	CCB2	CCB	1	10/11/2024	10:27:02 PM
40	N069143-006A	SAMP	1	10/11/2024	10:29:19 PM
41	N069143-007A	SAMP	1	10/11/2024	10:31:37 PM
42	N069143-008A	SAMP	1	10/11/2024	10:33:54 PM
43	N069143-009A	SAMP	1	10/11/2024	10:36:11 PM
44	N069143-010A	SAMP	1	10/11/2024	10:38:29 PM
45	CCV3	CCV	1	10/11/2024	10:40:45 PM
46	CCB3	CCB	1	10/11/2024	10:43:02 PM
47	ICSA2	ICSA	1	10/11/2024	10:45:19 PM
48	ICSAB2	ICSAB	1	10/11/2024	10:47:36 PM
49	MB-113181	MBLK	1	10/11/2024	10:49:54 PM
50	LCS-113181	LCS	1	10/11/2024	10:52:12 PM
51	N069046-001A	SAMP	5	10/11/2024	10:54:30 PM
52	N069046-002A	SAMP	5	10/11/2024	10:56:47 PM
53	N069055-005A	SAMP	1	10/11/2024	10:59:05 PM
54	N069055-005A	SAMP	5	10/11/2024	11:01:23 PM
55	N069055-005A-PS	PS	1	10/11/2024	11:03:40 PM
56	N069055-005A-MS	MS	1	10/11/2024	11:05:58 PM
57	N069055-005A-MSD	MSD	1	10/11/2024	11:08:16 PM
58	CCV4	CCV	1	10/11/2024	11:10:33 PM
59	CCB4	CCB	1	10/11/2024	11:12:50 PM
60	MB1-113175	MBLK	1	10/11/2024	11:15:07 PM
61	MB2-113175	MBLK	1	10/11/2024	11:17:24 PM
62	LCS-113175	LCS	1	10/11/2024	11:19:41 PM
63	N069113-001A	SAMP	1	10/11/2024	11:21:59 PM
64	N069113-001A	SAMP	5	10/11/2024	11:24:16 PM
65	N069113-001A-DUP	DUP	1	10/11/2024	11:26:33 PM
66	N069113-001A-PS	PS	1	10/11/2024	11:28:51 PM
67	N069113-001A-MS	MS	1	10/11/2024	11:31:08 PM
68	N069113-001A-MSD	MSD	1	10/11/2024	11:33:25 PM
69	N069113-002A	SAMP	1	10/11/2024	11:35:43 PM
70	CCV5	CCV	1	10/11/2024	11:37:59 PM
71	CCB5	CCB	1	10/11/2024	11:40:17 PM
72	N069113-003A	SAMP	1	10/11/2024	11:42:34 PM
73	N069113-004A	SAMP	1	10/11/2024	11:44:51 PM
74	N069113-005A	SAMP	1	10/11/2024	11:47:08 PM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
75	N069113-006A	SAMP	1	10/11/2024	11:49:25 PM
76	N069113-007A	SAMP	1	10/11/2024	11:51:42 PM
77	N069113-008A	SAMP	1	10/11/2024	11:53:59 PM
78	N069113-009A	SAMP	1	10/11/2024	11:56:17 PM
79	N069113-010A	SAMP	1	10/11/2024	11:58:34 PM
80	N069113-011A	SAMP	1	10/12/2024	12:00:51 AM
81	N069113-011A-DUP	DUP	1	10/12/2024	12:03:08 AM
82	CCV6	CCV	1	10/12/2024	12:05:25 AM
83	CCB6	CCB	1	10/12/2024	12:07:42 AM
84	N069113-011A-MS	MS	1	10/12/2024	12:09:59 AM
85	N069113-012A	SAMP	1	10/12/2024	12:12:17 AM
86	N069113-013A	SAMP	1	10/12/2024	12:14:34 AM
87	N069113-014A	SAMP	1	10/12/2024	12:16:52 AM
88	N069113-015A	SAMP	1	10/12/2024	12:19:08 AM
89	N069113-016A	SAMP	1	10/12/2024	12:21:25 AM
90	N069113-017A	SAMP	1	10/12/2024	12:23:42 AM
91	N069113-018A	SAMP	1	10/12/2024	12:25:59 AM
92	N069113-001A-DUP	DUP	1	10/12/2024	12:28:16 AM
93	CCV7	CCV	1	10/12/2024	12:30:32 AM
94	CCB7	CCB	1	10/12/2024	12:32:49 AM
95	ICSA3	ICSA	1	10/12/2024	12:35:06 AM
96	ICSAB3	ICSAB	1	10/12/2024	12:37:23 AM
97	MB-113209	MBLK	1	10/12/2024	12:41:37 AM
98	MB-113184 TCLP	MBLK	1	10/12/2024	12:43:55 AM
99	LCS-113209	LCS	1	10/12/2024	12:46:13 AM
100	N069020-001A	SAMP	1	10/12/2024	12:48:31 AM
101	N069020-001A	SAMP	5	10/12/2024	12:50:49 AM
102	N069020-001A-PS	PS	1	10/12/2024	12:53:06 AM
103	N069020-001A-MS	MS	1	10/12/2024	12:55:24 AM
104	N069020-001A-MSD	MSD	1	10/12/2024	12:57:42 AM
105	N069119-001A	SAMP	1	10/12/2024	1:00:00 AM
106	N069100-001A	SAMP	1	10/12/2024	1:02:17 AM
107	CCV8	CCV	1	10/12/2024	1:04:34 AM
108	CCB8	CCB	1	10/12/2024	1:06:51 AM
109	N069100-002A	SAMP	1	10/12/2024	1:09:09 AM
110	N069100-003A	SAMP	1	10/12/2024	1:11:26 AM
111	N069100-004A	SAMP	1	10/12/2024	1:13:45 AM
112	N069100-005A	SAMP	1	10/12/2024	1:16:03 AM
113	N069100-006A	SAMP	1	10/12/2024	1:18:20 AM
114	CCV9	CCV	1	10/12/2024	1:20:37 AM
115	CCB9	CCB	1	10/12/2024	1:22:55 AM
116	MB-113210	MBLK	1	10/12/2024	1:25:12 AM
117	LCS-113210	LCS	1	10/12/2024	1:27:29 AM
118	N069146-001C	SAMP	1	10/12/2024	1:29:46 AM
119	N069146-002C	SAMP	1	10/12/2024	1:32:03 AM
120	N069146-005B	SAMP	1	10/12/2024	1:34:20 AM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
121	N069146-006B	SAMP	1	10/12/2024	1:36:37 AM
122	N069146-007C	SAMP	1	10/12/2024	1:38:54 AM
123	N069146-009C	SAMP	1	10/12/2024	1:41:11 AM
124	N069146-011C	SAMP	1	10/12/2024	1:43:28 AM
125	N069146-012C	SAMP	1	10/12/2024	1:45:45 AM
126	CCV10	CCV	1	10/12/2024	1:48:02 AM
127	CCB10	CCB	1	10/12/2024	1:50:19 AM
128	N069146-013C	SAMP	1	10/12/2024	1:52:36 AM
129	N069146-013C	SAMP	5	10/12/2024	1:54:53 AM
130	N069146-013C-PS	PS	1	10/12/2024	1:57:10 AM
131	N069146-013CMS	MS	1	10/12/2024	1:59:27 AM
132	N069146-013CMSD	MSD	1	10/12/2024	2:01:44 AM
133	N069147-001C	SAMP	1	10/12/2024	2:04:01 AM
134	N069147-002C	SAMP	1	10/12/2024	2:06:18 AM
135	N069147-003C	SAMP	1	10/12/2024	2:08:35 AM
136	N069147-004C	SAMP	1	10/12/2024	2:10:52 AM
137	N069147-005C	SAMP	1	10/12/2024	2:13:10 AM
138	CCV11	CCV	1	10/12/2024	2:15:27 AM
139	CCB11	CCB	1	10/12/2024	2:17:44 AM
140	N069147-006C	SAMP	1	10/12/2024	2:20:01 AM
141	N069148-001B	SAMP	1	10/12/2024	2:22:18 AM
142	N069148-002C	SAMP	1	10/12/2024	2:24:36 AM
143	N069148-003E	SAMP	1	10/12/2024	2:26:53 AM
144	N069148-004C	SAMP	1	10/12/2024	2:29:10 AM
145	N069148-005B	SAMP	1	10/12/2024	2:31:27 AM
146	MB-113211	MBLK	1	10/12/2024	2:33:44 AM
147	LCS-113211	LCS	1	10/12/2024	2:37:31 AM
148	N069148-006B	SAMP	1	10/12/2024	2:39:48 AM
149	N069148-007D	SAMP	1	10/12/2024	2:42:05 AM
150	CCV12	CCV	1	10/12/2024	2:44:22 AM
151	CCB12	CCB	1	10/12/2024	2:46:39 AM
152	N069148-007D	SAMP	5	10/12/2024	2:48:56 AM
153	N069148-007D-PS	PS	1	10/12/2024	2:51:13 AM
154	N069148-007D-MS	MS	1	10/12/2024	2:53:30 AM
155	N069148-007D-MSD	MSD	1	10/12/2024	2:55:47 AM
156	N069148-008D	SAMP	1	10/12/2024	2:58:05 AM
157	N069148-009D	SAMP	1	10/12/2024	3:00:22 AM
158	N069148-010D	SAMP	1	10/12/2024	3:02:38 AM
159	N069148-011D	SAMP	1	10/12/2024	3:04:55 AM
160	N069148-012D	SAMP	1	10/12/2024	3:07:12 AM
161	N069148-013D	SAMP	1	10/12/2024	3:09:29 AM
162	CCV13	CCV	1	10/12/2024	3:11:46 AM
163	CCB13	CCB	1	10/12/2024	3:14:03 AM
164	N069149-007D	SAMP	1	10/12/2024	3:16:19 AM
165	N069149-008D	SAMP	1	10/12/2024	3:18:36 AM
166	N069150-001D	SAMP	1	10/12/2024	3:20:53 AM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
167	N069150-002B	SAMP	1	10/12/2024	3:23:10 AM
168	N069150-003B	SAMP	1	10/12/2024	3:25:27 AM
169	N069150-004B	SAMP	1	10/12/2024	3:27:45 AM
170	N069150-005B	SAMP	1	10/12/2024	3:30:02 AM
171	N069150-006D	SAMP	1	10/12/2024	3:32:19 AM
172	N069150-007D	SAMP	1	10/12/2024	3:34:36 AM
173	N069150-008D	SAMP	1	10/12/2024	3:36:53 AM
174	CCV14	CCV	1	10/12/2024	3:39:09 AM
175	CCB14	CCB	1	10/12/2024	3:41:26 AM
176	ICSA4	ICSA	1	10/12/2024	3:43:43 AM
177	ICSAB4	ICSAB	1	10/12/2024	3:46:00 AM

SAMPLE PREPARATION LOG



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

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ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 10/11/2024 1:12:00 PM

Reviewed/ Date: MRecha 11/6/2024

Page: 1 of 2

Prep End Date: 10/11/2024 5:15:00 PM

Initials/ Date: _____

Prep Factor Units Temp. (°C): Location:

Prep Batch 113210 Prep Code:3010_W_DISS

Technician: Jocelyn Rivera

mL / mL

95.2 DB-4-21

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-113210	Aqueous		25	<input type="checkbox"/>	25	1.000		
50ML LOT # MP3971								
MB-113210	Aqueous		25	<input type="checkbox"/>	25	1.000		
THERMOMETER ID: DIGESTION 7								
N069146-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-002C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-005B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-006B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-007C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-009C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-011C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-012C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-013C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-013CMS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-013CMSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17137	NITRIC ACID
17144	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
MWST-240820AA	ICP Solution C	LCS,MS,MSD	0.5
MWST-240820Y	ICP Solution A	LCS,MS,MSD	0.5
MWST-240820Z	ICP Solution B	LCS,MS,MSD	0.5

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 10/11/2024 1:12:00 PM

Reviewed/ Date: d/Recha 11/6/2024

Prep End Date: 10/11/2024 5:15:00 PM

Initials/ Date: _____

Prep Factor Units Temp. (°C): Location:

Prep Batch 113210 Prep Code:3010_W_DISS

Technician: Jocelyn Rivera

mL / mL 95.2 DB-4-21

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N069147-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069147-002C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069147-003C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069147-004C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069147-005C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069147-006C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069148-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069148-002C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069148-003E	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069148-004C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069148-005B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17137	NITRIC ACID
17144	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
MWST-240820AA	ICP Solution C	LCS,MS,MSD	0.5
MWST-240820Y	ICP Solution A	LCS,MS,MSD	0.5
MWST-240820Z	ICP Solution B	LCS,MS,MSD	0.5

INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

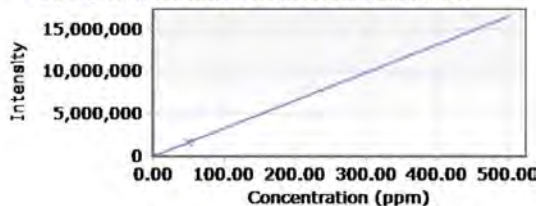
CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
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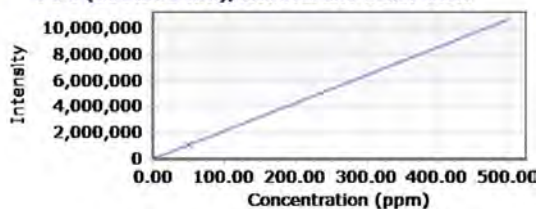
Cu I (324.754 nm), Interferent Calibration



Intensity = 33075.18415666 * Concentration + 684.20878678
 Correlation coefficient: 1.00000
 %RSE:N/A

Standards	Intensity	Method Conc	Calculated Conc	% Error
IEC Blank	684.20879	0.00000	0.00000	N/A
Interferent 09 (Cu)	1654443.4 1662	50.00000	50.00000	0.00000

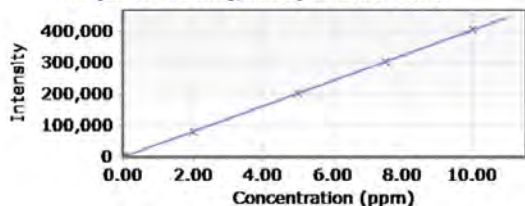
Fe I (239.563 nm), Interferent Calibration



Intensity = 21415.27545672 * Concentration + 29.10415739
 Correlation coefficient: 1.00000
 %RSE:N/A

Standards	Intensity	Method Conc	Calculated Conc	% Error
IEC Blank	29.10416	0.00000	0.00000	N/A
Interferent 10 (Fe)	1070792.8 7699	50.00000	50.00000	0.00000

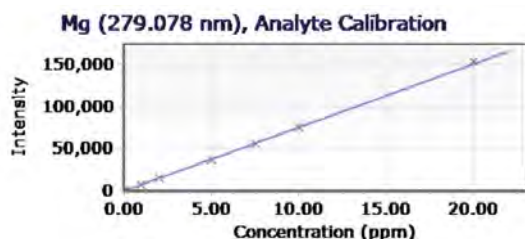
Fe (259.940 nm), Analyte Calibration



Intensity = 40400.58090932 * Concentration + 191.47883831
 Correlation coefficient: 1.00000
 %RSE:15.41363974

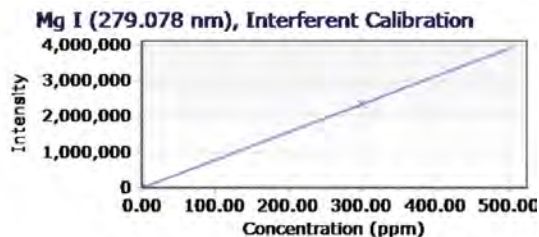
Standards	Intensity	Method Conc	Calculated Conc	% Error
Blank	64.38038	0.00000	-0.00315	N/A

Standards	Intensity	Method Conc	Calculated Conc	% Error
Standard 1	836.41908	0.02000	0.01596	20.18181
Standard 2	2682.02469	0.05000	0.06165	23.29258
Standard 3	80856.83169	2.00000	1.99664	0.16808
Standard 4	202241.60523	5.00000	5.00117	0.02338
Standard 5	304153.89541	7.50000	7.52371	0.31619
Standard 6	406562.70176	10.00000	10.05855	0.58549



Intensity = 7516.91474181 * Concentration + 46.77141577
 Correlation coefficient: 0.99994
 %RSE:1.43376477

Standards	Intensity	Method Conc	Calculated Conc	% Error
Blank	38.51695	0.00000	-0.00110	N/A
Standard 1	794.56546	0.10000	0.09948	0.51849
Standard 2	7755.00635	1.00000	1.02545	2.54520
Standard 3	15010.73575	2.00000	1.99071	0.46472
Standard 4	37410.68585	5.00000	4.97064	0.58710
Standard 5	56298.02980	7.50000	7.48329	0.22279
Standard 6	75160.58747	10.00000	9.99264	0.07361
Standard 7	152952.22240	20.00000	20.34152	1.70759



Intensity = 7818.83260428 * Concentration + 25.13274543
 Correlation coefficient: 1.00000
 %RSE:N/A

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
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P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICV	SampType: ICV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: ICV	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/11/2024	SeqNo: 6229299						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10139.550	20	10000	0	101	90	110				

Sample ID: LLCCV1	SampType: CCV1	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: ZZZZZZ	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/11/2024	SeqNo: 6229301						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	16.340	20	20.00	0	81.7	80	120				

Sample ID: CCV1	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCV	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/11/2024	SeqNo: 6229316						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10088.690	20	10000	0	101	90	110				

Sample ID: CCV2	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCV	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/11/2024	SeqNo: 6229328						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10087.630	20	10000	0	101	90	110				

Sample ID: CCV3	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCV	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/11/2024	SeqNo: 6229335						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10081.030	20	10000	0	101	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPB

Sample ID: CCV4	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCV	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/11/2024	SeqNo: 6229348						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 10005.160 20 10000 0 100 90 110

Sample ID: CCV5	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCV	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/11/2024	SeqNo: 6229360						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 10040.660 20 10000 0 100 90 110

Sample ID: CCV6	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCV	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229372						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 10035.920 20 10000 0 100 90 110

Sample ID: CCV7	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCV	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229383						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 10033.220 20 10000 0 100 90 110

Sample ID: CCV8	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCV	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229397						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 9984.050 20 10000 0 99.8 90 110

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: CCV9	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCV	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229404						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 9975.080 20 10000 0 99.8 90 110

Sample ID: CCV10	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCV	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229416						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 9967.520 20 10000 0 99.7 90 110

Sample ID: CCV11	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCV	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229428						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 9946.680 20 10000 0 99.5 90 110

Sample ID: CCV12	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCV	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229440						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 9949.790 20 10000 0 99.5 90 110

Sample ID: CCV13	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCV	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229452						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 9958.470 20 10000 0 99.6 90 110

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID: CCV14	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCV	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229464						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	9950.930	20	10000	0	99.5	90	110				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out

E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values

H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
(M) Test is modified

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
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P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICB	SampType: ICB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: ICB	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/11/2024	SeqNo: 6229300						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -2.35 20

Sample ID: CCB1	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCB	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/11/2024	SeqNo: 6229317						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -0.6 20

Sample ID: CCB2	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCB	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/11/2024	SeqNo: 6229329						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 0.660 20

Sample ID: CCB3	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCB	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/11/2024	SeqNo: 6229336						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 0.860 20

Sample ID: CCB4	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCB	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/11/2024	SeqNo: 6229349						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -0.98 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPB

Sample ID: CCB5	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCB	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/11/2024	SeqNo: 6229361						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	-0.06	20
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Sample ID: CCB6	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCB	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229373						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	0.010	20
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Sample ID: CCB7	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCB	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229384						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	0.120	20
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Sample ID: CCB8	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCB	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229398						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	-1.9	20
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Sample ID: CCB9	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCB	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/12/2024	SeqNo: 6229405						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	-1.97	20
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: CCB10	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCB	Batch ID: R194223	TestNo: EPA 6010B	Analysis Date: 10/12/2024	SeqNo: 6229417							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -1.96 20

Sample ID: CCB11	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCB	Batch ID: R194223	TestNo: EPA 6010B	Analysis Date: 10/12/2024	SeqNo: 6229429							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -1.75 20

Sample ID: CCB12	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCB	Batch ID: R194223	TestNo: EPA 6010B	Analysis Date: 10/12/2024	SeqNo: 6229441							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -2.15 20

Sample ID: CCB13	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCB	Batch ID: R194223	TestNo: EPA 6010B	Analysis Date: 10/12/2024	SeqNo: 6229453							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -2.14 20

Sample ID: CCB14	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: CCB	Batch ID: R194223	TestNo: EPA 6010B	Analysis Date: 10/12/2024	SeqNo: 6229465							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -2.06 20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPB

Sample ID: ICSA1	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: ICSA	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/11/2024	SeqNo: 6229303						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10294.110	50	10000	0	103	80	120				
Calcium	9927.410	500	10000	0	99.3	80	120				
Iron	10264.860	20	10000	0	103	80	120				
Magnesium	9987.640	100	10000	0	99.9	80	120				

Sample ID: ICSA1	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: ICSA	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/11/2024	SeqNo: 6229304						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10279.910	50	10000	0	103	80	120				
Calcium	9713.800	500	10000	0	97.1	80	120				
Iron	10011.260	20	10000	0	100	80	120				
Magnesium	9836.960	100	10000	0	98.4	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: ICSA	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/11/2024	SeqNo: 6229337						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10272.350	50	10000	0	103	80	120				
Calcium	9781.950	500	10000	0	97.8	80	120				
Iron	10192.220	20	10000	0	102	80	120				
Magnesium	9833.450	100	10000	0	98.3	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: ICSA	Batch ID: R194223	TestNo: EPA 6010B		Analysis Date: 10/11/2024	SeqNo: 6229338						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10269.290	50	10000	0	103	80	120				
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPB

Sample ID: ICSAB2		SampType: ICSAB		TestCode: 6010_WDPG		Units: µg/L		Prep Date:		RunNo: 194223	
Client ID: ICSAB		Batch ID: R194223		TestNo: EPA 6010B		Analysis Date: 10/11/2024				SeqNo: 6229338	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	9648.190	500	10000	0	96.5	80	120				
Iron	9945.090	20	10000	0	99.5	80	120				
Magnesium	9731.920	100	10000	0	97.3	80	120				

Sample ID: ICSA3		SampType: ICSA		TestCode: 6010_WDPG		Units: µg/L		Prep Date:		RunNo: 194223	
Client ID: ICSA		Batch ID: R194223		TestNo: EPA 6010B		Analysis Date: 10/12/2024				SeqNo: 6229385	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	10264.660	50	10000	0	103	80	120				
Calcium	9784.550	500	10000	0	97.8	80	120				
Iron	10160.170	20	10000	0	102	80	120				
Magnesium	9842.800	100	10000	0	98.4	80	120				

Sample ID: ICSAB3		SampType: ICSAB		TestCode: 6010_WDPG		Units: µg/L		Prep Date:		RunNo: 194223	
Client ID: ICSAB		Batch ID: R194223		TestNo: EPA 6010B		Analysis Date: 10/12/2024				SeqNo: 6229386	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	10244.740	50	10000	0	102	80	120				
Calcium	9625.030	500	10000	0	96.3	80	120				
Iron	9908.470	20	10000	0	99.1	80	120				
Magnesium	9729.700	100	10000	0	97.3	80	120				

Sample ID: ICSA4		SampType: ICSA		TestCode: 6010_WDPG		Units: µg/L		Prep Date:		RunNo: 194223	
Client ID: ICSA		Batch ID: R194223		TestNo: EPA 6010B		Analysis Date: 10/12/2024				SeqNo: 6229466	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	10263.330	50	10000	0	103	80	120				
Calcium	9768.430	500	10000	0	97.7	80	120				
Iron	10102.830	20	10000	0	101	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID: ICSA4	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: ICSA	Batch ID: R194223	TestNo: EPA 6010B	Analysis Date: 10/12/2024	SeqNo: 6229466							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Magnesium	9827.850	100	10000	0	98.3	80	120				

Sample ID: ICSAB4	SampType: ICSAB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: ICSAB	Batch ID: R194223	TestNo: EPA 6010B	Analysis Date: 10/12/2024	SeqNo: 6229467							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	10244.250	50	10000	0	102	80	120				
Calcium	9589.410	500	10000	0	95.9	80	120				
Iron	9842.080	20	10000	0	98.4	80	120				
Magnesium	9656.760	100	10000	0	96.6	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

INTERNAL STANDARD SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

INTERNAL STANDARD: 241011A

Instrument ID: NV00922-ICP4

Sample Name	Type	DF	Yttrium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
Blank	BLK	1	1	100	65-125	PASS
Standard 1	ICAL	1	1.02	102	65-125	PASS
Standard 2	ICAL	1	1.03	103	65-125	PASS
Standard 3	ICAL	1	1.03	103	65-125	PASS
Standard 4	ICAL	1	1.03	103	65-125	PASS
Standard 5	ICAL	1	1.03	103	65-125	PASS
Standard 6	ICAL	1	1.02	102	65-125	PASS
Standard 7	ICAL	1	1.01	101	65-125	PASS
ICV	ICV	1	1.02	102	65-125	PASS
ICB	ICB	1	1.04	104	65-125	PASS
LLCCV1	CCV1	1	1.04	104	65-125	PASS
LLCCV2	CCV1	1	1.06	106	65-125	PASS
ICSA1	ICSA	1	1.08	108	65-125	PASS
ICSAB1	ICSAB	1	1.08	108	65-125	PASS
LLCCV1	CCV1	1	1.06	106	65-125	PASS
CCV1	CCV	1	1.06	106	65-125	PASS
CCB1	CCB	1	1.07	107	65-125	PASS
CCV2	CCV	1	1.07	107	65-125	PASS
CCB2	CCB	1	1.08	108	65-125	PASS
CCV3	CCV	1	1.07	107	65-125	PASS
CCB3	CCB	1	1.08	108	65-125	PASS
ICSA2	ICSA	1	1.11	111	65-125	PASS
ICSAB2	ICSAB	1	1.1	110	65-125	PASS
CCV4	CCV	1	1.08	108	65-125	PASS
CCB4	CCB	1	1.08	108	65-125	PASS
CCV5	CCV	1	1.08	108	65-125	PASS
CCB5	CCB	1	1.08	108	65-125	PASS
CCV6	CCV	1	1.08	108	65-125	PASS
CCB6	CCB	1	1.09	109	65-125	PASS
CCV7	CCV	1	1.08	108	65-125	PASS
CCB7	CCB	1	1.09	109	65-125	PASS
ICSA3	ICSA	1	1.11	111	65-125	PASS
ICSAB3	ICSAB	1	1.11	111	65-125	PASS
CCV8	CCV	1	1.07	107	65-125	PASS
CCB8	CCB	1	1.07	107	65-125	PASS
CCV9	CCV	1	1.07	107	65-125	PASS
CCB9	CCB	1	1.07	107	65-125	PASS
MB-113210	MBLK	1	1.05	105	65-125	PASS
LCS-113210	LCS	1	1.05	105	65-125	PASS
N069146-001C	SAMP	1	0.99	99	65-125	PASS
N069146-002C	SAMP	1	0.99	99	65-125	PASS

INTERNAL STANDARD: 241011A

Instrument ID: NV00922-ICP4

			Yttrium, 1.0 mg/L			
Sample Name	Type	DF	Reported Conc	%REC	Criteria	Comment
N069146-005B	SAMP	1	1.03	103	65-125	PASS
N069146-006B	SAMP	1	1.02	102	65-125	PASS
N069146-007C	SAMP	1	0.99	99	65-125	PASS
N069146-009C	SAMP	1	1.01	101	65-125	PASS
N069146-011C	SAMP	1	1	100	65-125	PASS
N069146-012C	SAMP	1	1.02	102	65-125	PASS
CCV10	CCV	1	1.07	107	65-125	PASS
CCB10	CCB	1	1.07	107	65-125	PASS
N069146-013C	SAMP	1	0.99	99	65-125	PASS
N069146-013C	SAMP	5	1.04	104	65-125	PASS
N069146-013C-PS	PS	1	0.95	95	65-125	PASS
N069146-013CMS	MS	1	0.98	98	65-125	PASS
N069146-013CMSD	MSD	1	0.99	99	65-125	PASS
N069147-001C	SAMP	1	1	100	65-125	PASS
N069147-002C	SAMP	1	1	100	65-125	PASS
N069147-003C	SAMP	1	1	100	65-125	PASS
N069147-004C	SAMP	1	1	100	65-125	PASS
N069147-005C	SAMP	1	1	100	65-125	PASS
CCV11	CCV	1	1.06	106	65-125	PASS
CCB11	CCB	1	1.07	107	65-125	PASS
N069147-006C	SAMP	1	1.04	104	65-125	PASS
N069148-001B	SAMP	1	1.04	104	65-125	PASS
N069148-002C	SAMP	1	1.04	104	65-125	PASS
N069148-003E	SAMP	1	1.05	105	65-125	PASS
N069148-004C	SAMP	1	1.03	103	65-125	PASS
N069148-005B	SAMP	1	1.02	102	65-125	PASS
CCV12	CCV	1	1.07	107	65-125	PASS
CCB12	CCB	1	1.07	107	65-125	PASS
CCV13	CCV	1	1.07	107	65-125	PASS
CCB13	CCB	1	1.07	107	65-125	PASS
CCV14	CCV	1	1.07	107	65-125	PASS
CCB14	CCB	1	1.07	107	65-125	PASS
ICSA4	ICSA	1	1.08	108	65-125	PASS
ICSAB4	ICSAB	1	1.08	108	65-125	PASS

SERIAL DILUTION/ POST DIGESTION SPIKE



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

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ASSET Laboratories

ICP-Metals in Water

Work Order No.: N069147
Test Method: EPA 6010B
Analysis Date: 10/12/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 113210

Instrument ID: NV00922-ICP4
Instrument Description: Agilent 5800VDV

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Fe. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069146-013C DT 5x	Iron	Fe	µg/L	0	NA	13.21	100.00%	10

REVIEWED BY:



10/28/2024

Note: NA - Not Applicable

10/28/24 20:00

N069147_6010B_113210_DT

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID: N069146-013C-PS	SampType: PS	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 194223						
Client ID: ZZZZZZ	Batch ID: 113210	TestNo: EPA 6010B EPA 3010A	Analysis Date: 10/12/2024	SeqNo: 6229420							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	120.230	20	100.0	13.21	107	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

MDL STUDY



ASSET LABORATORIES
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NEVADA
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P: 702.307.2659 F: 702.307.2691

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Method Detection Limits

Analytical Method: EPA 6010B
Digestion Method: 3010_W
Digestion Date: 1/31/2024-2/16/24
Instrument Name: ICP2/ ICP3
Analyst/Technician: DJ

Matrix: WATER
Unit: mg/L

Analyte	1	2	3	4	5	6	7	SD	AMT SPIKED (ppm)	MDLs	PQL	MDL
Beryllium	0.0010	0.0010	0.0010	0.0012	0.0012	0.0009	0.0009	0.00013	0.0010	0.00042	0.0010	0.0004
Boron	0.1015	0.0996	0.0981	0.0955	0.0962	0.0921	0.0811	0.00679	0.1000	0.02134	0.1000	0.0519
Magnesium	0.1018	0.1005	0.1004	0.1023	0.1006	0.0924	0.0926	0.00426	0.1000	0.01340	0.1000	0.0134
Silicon	0.0175	0.0205	0.0214	0.0114	0.0100	0.0210	0.0211	0.00489	0.0200	0.01537	0.0200	0.0154
Chromium	0.0009	0.0009	0.0009	0.0011	0.0009	0.0009	0.0010	0.00007	0.0010	0.00023	0.0010	0.0002
Manganese	0.0096	0.0095	0.0093	0.0101	0.0102	0.0102	0.0104	0.00042	0.0100	0.00133	0.0100	0.0013
Iron	0.0219	0.0207	0.0210	0.0226	0.0224	0.0193	0.0175	0.00184	0.0200	0.00577	0.0200	0.0058
Cobalt	0.0020	0.0018	0.0019	0.0019	0.0018	0.0021	0.0020	0.00013	0.0025	0.00039	0.0025	0.0004
Nickel	0.0055	0.0055	0.0052	0.0028	0.0033	0.0048	0.0047	0.00109	0.0050	0.00342	0.0050	0.0034
Copper	0.0056	0.0058	0.0054	0.0063	0.0058	0.0050	0.0053	0.00041	0.0050	0.00128	0.0050	0.0014
Zinc	0.0110	0.0103	0.0100	0.0106	0.0108	0.0092	0.0088	0.00086	0.0100	0.00269	0.0100	0.0027
Arsenic	0.0100	0.0080	0.0060	0.0084	0.0112	0.0132	0.0065	0.00256	0.0100	0.00805	0.0100	0.0081
Selenium	0.0110	0.0126	0.0120	0.0079	0.0137	0.0079	0.0072	0.00264	0.0100	0.00829	0.0100	0.0083
Molybdenum	0.0056	0.0053	0.0057	0.0044	0.0045	0.0051	0.0044	0.00056	0.0050	0.00177	0.0050	0.0018
Silver	0.0025	0.0025	0.0024	0.0019	0.0018	0.0033	0.0031	0.00056	0.0025	0.00175	0.0025	0.0018
Cadmium	0.0027	0.0026	0.0026	0.0016	0.0018	0.0023	0.0025	0.00043	0.0025	0.00136	0.0025	0.0014
Tin	0.0104	0.0095	0.0097	0.0114	0.0111	0.0087	0.0089	0.00104	0.0100	0.00328	0.0100	0.0033
Antimony	0.0090	0.0093	0.0110	0.0136	0.0122	0.0112	0.0087	0.00180	0.0100	0.00565	0.0100	0.0056
Barium	0.0026	0.0026	0.0026	0.0028	0.0028	0.0024	0.0024	0.00016	0.0025	0.00051	0.0025	0.0005
Thallium	0.0172	0.0169	0.0170	0.0165	0.0144	0.0131	0.0130	0.00188	0.0150	0.00592	0.0150	0.0059
Lead	0.0058	0.0060	0.0061	0.0046	0.0083	0.0049	0.0048	0.00125	0.0050	0.00393	0.0050	0.0039
Calcium	0.2188	0.2125	0.2073	0.2186	0.2230	0.1767	0.1699	0.02155	0.2000	0.06772	0.2000	0.0677
Vanadium	0.0026	0.0025	0.0027	0.0030	0.0029	0.0024	0.0023	0.00026	0.0025	0.00081	0.0025	0.0008
Aluminum	0.0523	0.0513	0.0508	0.0490	0.0501	0.0509	0.0482	0.00140	0.0500	0.00439	0.0500	0.0044
Titanium	0.0119	0.0116	0.0108	0.0100	0.0103	0.0105	0.0107	0.00069	0.0100	0.00216	0.0100	0.0022

Method Detection Limits (Blanks)

Analyte	1	2	3	4	5	6	7	SD	Average	MDLb
Beryllium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00006	0.0000	0.00019
Boron	0.000	0.000	-0.001	-0.005	-0.006	-0.045	-0.047	0.02126	-0.0149	0.05194
Magnesium	-0.001	-0.001	-0.001	0.000	0.001	0.000	-0.001	0.00074	-0.0004	0.00192
Silicon	-0.001	-0.004	-0.004	-0.002	-0.001	-0.012	-0.011	0.00477	-0.0049	0.01013
Chromium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00004	-0.0001	0.00008
Manganese	-0.001	-0.001	-0.001	0.000	0.000	0.000	0.000	0.00044	-0.0005	0.00090
Iron	0.000	0.000	0.000	-0.001	-0.001	-0.003	-0.003	0.00140	-0.0010	0.00337
Cobalt	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00012	-0.0001	0.00029
Nickel	0.000	0.000	0.000	-0.002	-0.002	0.000	0.000	0.00089	-0.0006	0.00224
Copper	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.00033	0.0003	0.00138
Zinc	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.00033	0.0000	0.00102
Arsenic	-0.001	-0.003	0.000	0.000	0.000	0.000	0.000	0.00091	-0.0007	0.00221
Selenium	0.004	0.000	0.002	0.001	0.003	-0.001	0.002	0.00153	0.0017	0.00649
Molybdenum	0.000	0.000	0.000	-0.001	-0.001	0.000	0.000	0.00032	-0.0003	0.00074
Silver	-0.001	-0.001	-0.001	-0.001	-0.001	0.000	0.000	0.00049	-0.0007	0.00083
Cadmium	0.000	0.000	0.000	-0.001	0.000	0.000	0.000	0.00029	-0.0001	0.00081
Tin	-0.001	-0.001	-0.001	0.001	0.000	0.000	-0.001	0.00063	-0.0005	0.00150
Antimony	0.000	-0.001	0.000	0.000	-0.001	0.004	0.000	0.00161	0.0002	0.00524
Barium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00008	0.0000	0.00025
Thallium	0.001	0.000	0.002	0.001	0.000	-0.001	-0.001	0.00104	0.0002	0.00343
Lead	0.000	-0.001	-0.001	-0.001	0.000	0.001	-0.001	0.00068	-0.0004	0.00173
Calcium	0.001	0.001	0.001	-0.003	-0.005	-0.003	-0.017	0.00638	-0.0036	0.01650
Vanadium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00012	0.0000	0.00038
Aluminum	0.000	0.001	0.001	-0.001	-0.001	-0.001	-0.002	0.00105	-0.0003	0.00300
Titanium	0.001	0.000	0.001	-0.001	-0.001	-.00003	0.000	0.00064	0.0000	0.00199

Note: Higher value between MDLs and MDLb will be used.

Method Detection Limits

Analytical Method: EPA 6010B
Digestion Method: EPA 3010A
Digestion Date: 2/8-2/12/2024
Analysis Date: 2/16-2/23/2024
Instrument Name: ICP-04
Analyst/Technician: NS/DBJ

Matrix: WATER
Unit: mg/L

Analyte	1	2	3	4	5	6	7	SD	AMT SPIKED (ppm)	MDLs	PQL	MDL
Beryllium	0.00096	0.00098	0.00096	0.00094	0.00114	0.00100	0.00093	0.00007	0.0010	0.00022	0.0010	0.0004
Boron	0.09627	0.09657	0.09643	0.09117	0.09044	0.09475	0.09499	0.00255	0.1000	0.00800	0.1000	0.0080
Magnesium	0.10052	0.10036	0.09959	0.10705	0.10731	0.09987	0.10054	0.00344	0.1000	0.01079	0.1000	0.0153
Silicon	0.01997	0.01949	0.01947	0.02053	0.02103	0.02063	0.02079	0.00063	0.0200	0.00198	0.0200	0.0020
Chromium	0.00100	0.00096	0.00096	0.00116	0.00117	0.00109	0.00115	0.00009	0.0010	0.00030	0.0010	0.0005
Manganese	0.00965	0.00966	0.00962	0.00727	0.00736	0.00964	0.00963	0.00113	0.0100	0.00356	0.0100	0.0037
Iron	0.01670	0.01666	0.01669	0.01930	0.01911	0.01418	0.01399	0.00209	0.0200	0.00657	0.0200	0.0066
Cobalt	0.00276	0.00227	0.00246	0.00248	0.00246	0.00188	0.00221	0.00028	0.0025	0.00087	0.0025	0.0009
Nickel	0.00479	0.00493	0.00510	0.00476	0.00489	0.00457	0.00453	0.00020	0.0050	0.00063	0.0050	0.0006
Copper	0.00508	0.00506	0.00488	0.00503	0.00521	0.00474	0.00486	0.00016	0.0050	0.00050	0.0050	0.0005
Zinc	0.01247	0.01227	0.01233	0.01015	0.01017	0.00939	0.00952	0.00139	0.0100	0.00438	0.0100	0.0044
Arsenic	0.00990	0.00949	0.00882	0.01052	0.01052	0.01070	0.01000	0.00067	0.0100	0.00210	0.0100	0.0021
Selenium	0.00898	0.00986	0.01063	0.01176	0.01126	0.01021	0.01046	0.00091	0.0100	0.00286	0.0100	0.0032
Molybdenum	0.00546	0.00537	0.00512	0.00602	0.00529	0.00458	0.00502	0.00044	0.0050	0.00139	0.0050	0.0021
Silver	0.00245	0.00240	0.00249	0.00200	0.00194	0.00221	0.00211	0.00022	0.0025	0.00070	0.0025	0.0010
Cadmium	0.00248	0.00248	0.00244	0.00239	0.00240	0.00219	0.00224	0.00012	0.0025	0.00036	0.0025	0.0004
Tin	0.00982	0.01010	0.00968	0.01041	0.01050	0.00990	0.00999	0.00030	0.0100	0.00095	0.0100	0.0010
Antimony	0.01076	0.01056	0.00998	0.01034	0.01208	0.00938	0.00979	0.00087	0.0100	0.00274	0.0100	0.0027
Barium	0.00266	0.00257	0.00258	0.00258	0.00257	0.00249	0.00254	0.00005	0.0025	0.00016	0.0025	0.0008
Thallium	0.01580	0.01557	0.01597	0.01222	0.01292	0.01486	0.01560	0.00151	0.0150	0.00475	0.0150	0.0048
Lead	0.00431	0.00500	0.00446	0.00447	0.00503	0.00422	0.00371	0.00046	0.0050	0.00144	0.0050	0.0014
Calcium	0.20228	0.20108	0.20096	0.20023	0.20038	0.19290	0.19351	0.00386	0.2000	0.01211	0.2000	0.0121
Vanadium	0.00265	0.00253	0.00241	0.00232	0.00229	0.00240	0.00246	0.00012	0.0025	0.00039	0.0025	0.0006
Aluminum	0.05361	0.05332	0.05336	0.05134	0.05238	0.05032	0.04987	0.00153	0.0500	0.00482	0.0500	0.0075
Titanium	0.01017	0.01017	0.01014	0.01005	0.01003	0.01004	0.01004	0.00007	0.0100	0.00020	0.0100	0.0012
Sodium	0.10464	0.10886	0.11103	0.10060	0.10108	0.10829	0.10960	0.00421	0.1000	0.01321	0.1000	0.0132
Strontium	0.02468	0.02576	0.02592	0.02543	0.02579	0.02513	0.02569	0.00044	0.0250	0.00139	0.0250	0.0014

BLANK

Analyte	1	2	3	4	5	6	7	SD	Average	MDL	PQL
Beryllium	-0.00048	-0.00014	-0.00014	0.00001	0.00001	-0.00003	-0.00002	0.00017	-0.00011	0.00043	0.0010
Boron	-0.00209	-0.00259	-0.00248	-0.00694	-0.00772	-0.00175	-0.00221	0.00252	-0.00368	0.00423	0.1000
Magnesium	0.00244	0.00147	0.00205	0.00943	0.00934	0.00459	0.00401	0.00334	0.00476	0.01526	0.1000
Silicon	-0.00009	-0.00039	-0.00061	-0.00016	-0.00044	-0.00044	-0.00071	0.00022	-0.00041	0.00029	0.0200
Chromium	0.00017	0.00009	0.00006	0.00027	0.00032	0.00008	0.00012	0.00010	0.00016	0.00047	0.0010
Manganese	-0.00054	-0.00051	-0.00054	-0.00311	-0.00312	0.00037	0.00037	0.00149	-0.00101	0.00368	0.0100
Iron	-0.00361	-0.00368	-0.00350	-0.00126	-0.00121	0.00037	-0.00627	0.00219	-0.00274	0.00416	0.0200
Cobalt	-0.00033	0.00009	-0.00016	-0.00021	-0.00058	-0.00032	-0.00036	0.00021	-0.00027	0.00038	0.0025
Nickel	-0.00036	-0.00009	-0.00024	-0.00021	-0.00033	-0.00022	-0.00023	0.00009	-0.00024	0.00004	0.0050
Copper	0.00005	0.00002	0.00000	0.00019	0.00028	-0.00001	0.00000	0.00011	0.00008	0.00043	0.0050
Zinc	0.00056	-0.00003	-0.00006	-0.00024	-0.00022	-0.00079	-0.00081	0.00047	-0.00023	0.00126	0.0100
Arsenic	-0.00003	-0.00086	-0.00030	-0.00052	0.00012	0.00051	0.00034	0.00049	-0.00011	0.00142	0.0100
Selenium	-0.00105	-0.00101	0.00003	-0.00013	-0.00033	0.00092	0.00175	0.00101	0.00003	0.00321	0.0100
Molybdenum	0.00035	0.00064	-0.00012	0.00102	0.00080	-0.00015	-0.00059	0.00059	0.00028	0.00212	0.0050
Silver	-0.00021	-0.00023	-0.00022	-0.00146	-0.00143	-0.00071	-0.00064	0.00055	-0.00070	0.00102	0.0025
Cadmium	-0.00003	-0.00002	-0.00003	-0.00008	-0.00009	-0.00026	-0.00030	0.00012	-0.00012	0.00025	0.0025
Tin	-0.00048	-0.00035	0.00010	-0.00014	0.00016	-0.00005	-0.00008	0.00023	-0.00012	0.00060	0.0100
Antimony	0.00008	0.00020	0.00049	-0.00016	0.00141	0.00021	0.00121	0.00059	0.00049	0.00236	0.0100
Barium	0.00006	0.00062	0.00005	0.00003	-0.00010	-0.00003	-0.00006	0.00024	0.00008	0.00085	0.0025
Thallium	0.00113	0.00056	0.00015	0.00095	0.00031	0.00135	0.00088	0.00044	0.00076	0.00214	0.0150
Lead	-0.00006	-0.00093	-0.00022	-0.00025	-0.00031	-0.00180	-0.00134	0.00067	-0.00070	0.00139	0.0050
Calcium	-0.00505	0.00006	0.00001	-0.00038	-0.00024	-0.00119	-0.00204	0.00183	-0.00126	0.00450	0.2000
Vanadium	0.00027	0.00033	0.00044	0.00022	0.00016	0.00010	0.00011	0.00012	0.00023	0.00062	0.0025
Aluminum	0.00375	0.00381	0.00445	0.00041	0.00100	0.00108	0.00110	0.00169	0.00223	0.00754	0.0500
Titanium	0.00001	0.00001	-0.00001	-0.00006	-0.00010	0.00000	0.00088	0.00034	0.00010	0.00119	0.0100
Sodium	0.00136	0.00379	0.00132	-0.00038	-0.00214	-0.00015	0.00331	0.00210	0.00102	0.00761	0.1000
Strontium	-0.00115	-0.00166	-0.00116	-0.00120	-0.00012	-0.00045	-0.00044	0.00055	-0.00088	0.00085	0.0200

Note: ICP-04 is an additional instrument, MDL is within 0.5 to 2.0 of existing MDL. Retain existing MDL.

EPA 6020 Dissolved



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 113224
ASSET #: N069147

Instrument ID: NV00922-ICP8
Analyst: DBJ

Method:

EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 10/16/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ?(r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ

Date: _____

2nd Level Reviewer 

Date: 10/27/2024

SAMPLE CALCULATION



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SAMPLE CALCULATION

METHOD: EPA 6020
TEST NAME: Heavy Metals by ICP-MS
MATRIX: Groundwater

FORMULA:

Calculate the Barium concentration, in ug/L in the original sample as follows:

$$\text{Barium, ug/L} = A * DF * PF$$

where:

A = ug/L, calculated concentration
DF = Dilution Factor
PF = Final Volume of Digestate, mL / Amount of Sample, mL

For Sample **N069147-001C**, the concentration in ug/L is calculated as follows:


$$\text{Barium, ug/L} = 110.264 * 1 * (25 / 25)$$

$$\text{Barium, ug/L} = 110.2635$$

Reporting results in two significant figures,

$$\text{Barium, ug/L} = 110$$

Reviewed by:

 11/6/2024

% RSD SUMMARY



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PERCENT RSD SUMMARY: 241016A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	137 Ba [3]				55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.12	32.226	15	<PQL	0.1	13.456	15	PASS
Std2-0.5/5 ppb	ICAL	1	0.52	10.58	15	PASS	0.53	4.785	15	PASS
Std3-5/50 ppb	ICAL	1	4.8	1.922	15	PASS	4.87	3.161	15	PASS
Std4-10/100 ppb	ICAL	1	9.43	2.583	15	PASS	9.79	1.207	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.71	4.276	15	PASS	19.52	2.06	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	40.16	1.935	15	PASS	39.46	0.756	15	PASS
Std7-100/1000 ppb	ICAL	1	99.29	1.229	15	PASS	99.63	0.2	15	PASS
Std8-200/2000 ppb	ICAL	1	200.39	0.274	15	PASS	200.35	1.648	15	PASS
ICV	ICV	1	10.05	1.542	15	PASS	100.35	1.294	15	PASS
ICB	ICB	1	<0.000	N/A	15	<PQL	0	119.188	15	<PQL
LLCCV1	CCV1	1	0.13	11.04	20	PASS	0.09	9.341	20	PASS
LLCCV2	CCV1	1	1.08	9.554	20	PASS	0.59	2.017	20	PASS
MLCCV1	CCV	1	19.53	1.725	15	PASS	19.6	1.474	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	19.98	1.456	15	PASS	20.3	0.942	15	PASS
CCV1	CCV	1	20.25	0.492	15	PASS	19.45	1.467	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL	0.01	127.093	15	<PQL
CCV2	CCV	1	20.46	1.741	15	PASS	19.4	2.85	15	PASS
CCB2	CCB	1	0.01	113.99	15	<PQL	0.01	33.586	15	<PQL
ICSA2	ICSA	1	0	1213.894	15	<PQL	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	20.61	1.087	15	PASS	19.63	1.579	15	PASS
CCV3	CCV	1	20.19	2.177	15	PASS	19.66	1.457	15	PASS
CCB3	CCB	1	0.01	85.773	15	<PQL	0.01	175.477	15	<PQL
CCV4	CCV	1	20.49	1.667	15	PASS	19.42	1.859	15	PASS
CCB4	CCB	1	0.01	20.457	15	<PQL	0.02	13.617	15	PASS
CCV5	CCV	1	20.81	1.403	15	PASS	19.44	1.429	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL	0.01	45.522	15	<PQL
CCV6	CCV	1	21.21	4.462	15	PASS	19.65	1.869	15	PASS
CCB6	CCB	1	0	173.804	15	<PQL	0.01	78.123	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	0.02	10.212	15	PASS
ICSAB3	ICSAB	1	21.38	0.875	15	PASS	19.63	2.88	15	PASS
CCV7	CCV	1	21.41	1.304	15	PASS	19.3	1.27	15	PASS
CCB7	CCB	1	0.01	98.506	15	<PQL	0.01	52.094	15	<PQL
CCV8	CCV	1	21.45	0.943	15	PASS	19.68	1.151	15	PASS
CCB8	CCB	1	0.01	159.002	15	<PQL	0.01	27.433	15	<PQL
CCV9	CCV	1	21.19	2.072	15	PASS	19.54	1.781	15	PASS
CCB9	CCB	1	0.02	76.378	15	<PQL	0.01	26.887	15	<PQL
CCV10	CCV	1	21.29	1.215	15	PASS	19.93	0.695	15	PASS
CCB10	CCB	1	<0.000	N/A	15	<PQL	0.01	51.697	15	<PQL
CCV11	CCV	1	20.8	2.074	15	PASS	19.41	1.042	15	PASS

PERCENT RSD SUMMARY: 241016A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	137 Ba [3]				55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
CCB11	CCB	1	<0.000	N/A	15	<PQL	0.02	38.967	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL	0.01	56.165	15	<PQL
ICSAB4	ICSAB	1	21.09	0.526	15	PASS	19.85	1.836	15	PASS
CCV12	CCV	1	21.26	1.235	15	PASS	19.49	0.755	15	PASS
CCB12	CCB	1	0	249.713	15	<PQL	0.02	28.312	15	<PQL
CCV13	CCV	1	20.9	1.112	15	PASS	19.67	1.667	15	PASS
CCB13	CCB	1	0.01	89.888	15	<PQL	0.01	142.004	15	<PQL
CCV14	CCV	1	20.97	0.912	15	PASS	19.43	1.323	15	PASS
CCB14	CCB	1	0	643.326	15	<PQL	0.02	83.973	15	<PQL
CCV15	CCV	1	21.24	3.234	15	PASS	20.08	1.45	15	PASS
CCB15	CCB	1	0	222.619	15	<PQL	0.01	17.764	15	<PQL
ICSA5	ICSA	1	0	111.1	15	<PQL	0.02	76.502	15	<PQL
ICSAB5	ICSAB	1	21.54	0.646	15	PASS	19.9	1.759	15	PASS
MB-113224	MBLK	1	0	283.696	15	<PQL	0.01	73.086	15	<PQL
LCS-113224	LCS	1	10.65	2.241	15	PASS	97.7	0.32	15	PASS
N069147-001C	SAMP	1	110.26	1.118	15	PASS	21.35	1.111	15	PASS
N069105-001C	SAMP	1	29.01	0.726	15	PASS	11.87	1.553	15	PASS
N069146-001C	SAMP	1	45.79	1.53	15	PASS	116.58	1.805	15	PASS
N069146-002C	SAMP	1	20.02	0.782	15	PASS	47.06	0.948	15	PASS
N069146-003B	SAMP	1	303.48	0.115	15	PASS	1.6	1.256	15	PASS
N069146-003B	SAMP	10	32.3	1.633	15	PASS	0.18	12.866	15	PASS
N069146-005B	SAMP	1	110.89	1.353	15	PASS	498.3	1.182	15	PASS
N069146-005B	SAMP	10	11.65	0.163	15	PASS	54.63	0.818	15	PASS
CCV16	CCV	1	21.37	2.052	15	PASS	19.41	1.812	15	PASS
CCB16	CCB	1	<0.000	N/A	15	<PQL	0.02	29.332	15	<PQL
N069146-006B	SAMP	1	248.86	1.068	15	PASS	1376.73	0.933	15	PASS
N069146-006B	SAMP	10	32.11	1.241	15	PASS	173.23	2.004	15	PASS
N069146-007C	SAMP	1	88.4	0.268	15	PASS	782.36	2.045	15	PASS
N069146-007C	SAMP	10	12.33	3.024	15	PASS	105.29	0.67	15	PASS
N069146-009C	SAMP	1	44.93	0.343	15	PASS	4.87	2.485	15	PASS
N069146-011C	SAMP	1	116.88	0.798	15	PASS	383.58	0.268	15	PASS
N069146-011C	SAMP	10	12.17	2.531	15	PASS	41.56	1.657	15	PASS
N069146-012C	SAMP	1	114.42	0.282	15	PASS	282.65	2.807	15	PASS
N069146-012C	SAMP	10	11.86	3.757	15	PASS	29.32	3.105	15	PASS
CCV17	CCV	1	20.87	1.857	15	PASS	19.26	1.609	15	PASS
CCB17	CCB	1	0	5520.695	15	<PQL	0	28.232	15	<PQL
N069146-013C	SAMP	1	29.24	0.995	15	PASS	6.82	1.308	15	PASS
N069146-013C	SAMP	5	5.88	0.889	15	PASS	1.39	6.207	15	PASS
N069146-013C	SAMP	10	3.02	3.439	15	PASS	0.83	3.202	15	PASS
N069146-013C	SAMP	50	0.6	12.432	15	PASS	0.13	2.931	15	PASS
N069146-013C-PS	PS	1	39.36	0.505	15	PASS	95.91	1.476	15	PASS

PERCENT RSD SUMMARY: 241016A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	137 Ba [3]				55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N069146-013C-PS	PS	10	13.81	1.591	15	PASS	95.89	0.572	15	PASS
N069146-013CMS	MS	1	39.68	0.821	15	PASS	95.55	0.699	15	PASS
N069146-013CMS	MS	10	6.02	0.154	15	PASS	14.54	2.607	15	PASS
N069146-013CMSD	MSD	1	38.87	0.372	15	PASS	95.93	2.591	15	PASS
N069146-013CMSD	MSD	10	4.31	5.948	15	PASS	10.95	2.478	15	PASS
CCV18	CCV	1	21.3	1.155	15	PASS	19.52	1.892	15	PASS
CCB18	CCB	1	<0.000	N/A	15	<PQL	0.01	134.176	15	<PQL
N069147-002C	SAMP	1	93.78	0.766	15	PASS	325.14	2.465	15	PASS
N069147-002C	SAMP	10	9.61	1.053	15	PASS	35.64	1.669	15	PASS
N069147-003C	SAMP	1	99.4	0.496	15	PASS	685.09	0.695	15	PASS
N069147-003C	SAMP	10	10.51	0.825	15	PASS	73.15	0.368	15	PASS
N069147-004C	SAMP	1	87.73	0.836	15	PASS	721.52	2.381	15	PASS
N069147-004C	SAMP	10	9.23	1.091	15	PASS	77.03	2.573	15	PASS
N069147-005C	SAMP	1	100.97	1.818	15	PASS	1474.69	0.921	15	PASS
N069147-005C	SAMP	100	1.18	1.075	15	PASS	17.02	1.005	15	PASS
N069147-006C	SAMP	1	110.68	1.017	15	PASS	494.74	1.952	15	PASS
N069147-006C	SAMP	10	11.08	1.696	15	PASS	52.03	1.484	15	PASS
CCV19	CCV	1	21.29	2.056	15	PASS	19.6	1.696	15	PASS
CCB19	CCB	1	<0.000	N/A	15	<PQL	0.01	96.115	15	<PQL
ICSA6	ICSA	1	0	19880.229	15	<PQL	0.02	99.059	15	<PQL
ICSAB6	ICSAB	1	21.22	0.401	15	PASS	19.82	1.468	15	PASS

PERCENT RSD SUMMARY: 241016A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.08	39.675	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.45	6.949	15	PASS
Std3-5/50 ppb	ICAL	1	4.71	1.188	15	PASS
Std4-10/100 ppb	ICAL	1	9.64	6.206	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.64	4.705	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.91	5.01	15	PASS
Std7-100/1000 ppb	ICAL	1	101.95	0.219	15	PASS
Std8-200/2000 ppb	ICAL	1	199.1	1.827	15	PASS
ICV	ICV	1	10.11	9.037	15	PASS
ICB	ICB	1	0.03	54.418	15	<PQL
LLCCV1	CCV1	1	0.09	30.619	20	<PQL
LLCCV2	CCV1	1	0.09	90.252	20	<PQL
MLCCV1	CCV	1	20.78	1.338	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	20.08	4.82	15	PASS
CCV1	CCV	1	19.97	2.412	15	PASS
CCB1	CCB	1	0.01	434.957	15	<PQL
CCV2	CCV	1	19.48	4.033	15	PASS
CCB2	CCB	1	0.01	370.811	15	<PQL
ICSA2	ICSA	1	0.03	198.289	15	<PQL
ICSAB2	ICSAB	1	20	2.069	15	PASS
CCV3	CCV	1	20.07	2.796	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL
CCV4	CCV	1	19.74	3.68	15	PASS
CCB4	CCB	1	0	899.538	15	<PQL
CCV5	CCV	1	19.26	3.136	15	PASS
CCB5	CCB	1	0.04	76.753	15	<PQL
CCV6	CCV	1	19.55	4.488	15	PASS
CCB6	CCB	1	0.03	90.276	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	19.44	2.319	15	PASS
CCV7	CCV	1	19.25	5.883	15	PASS
CCB7	CCB	1	0.01	15.419	15	<PQL
CCV8	CCV	1	19.49	0.53	15	PASS
CCB8	CCB	1	<0.000	N/A	15	<PQL
CCV9	CCV	1	19.1	1.85	15	PASS
CCB9	CCB	1	<0.000	N/A	15	<PQL
CCV10	CCV	1	19.33	1.094	15	PASS
CCB10	CCB	1	0.03	181.019	15	<PQL
CCV11	CCV	1	19.29	2.916	15	PASS

PERCENT RSD SUMMARY: 241016A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
CCB11	CCB	1	0	893.963	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	19.27	4.959	15	PASS
CCV12	CCV	1	19.41	0.861	15	PASS
CCB12	CCB	1	0.06	30.481	15	<PQL
CCV13	CCV	1	18.62	1.388	15	PASS
CCB13	CCB	1	<0.000	N/A	15	<PQL
CCV14	CCV	1	19.18	0.406	15	PASS
CCB14	CCB	1	<0.000	N/A	15	<PQL
CCV15	CCV	1	19.61	3.802	15	PASS
CCB15	CCB	1	<0.000	N/A	15	<PQL
ICSA5	ICSA	1	<0.000	N/A	15	<PQL
ICSAB5	ICSAB	1	19.21	3.32	15	PASS
MB-113224	MBLK	1	<0.000	N/A	15	<PQL
LCS-113224	LCS	1	9.12	4.322	15	PASS
N069147-001C	SAMP	1	0.99	11.225	15	PASS
N069105-001C	SAMP	1	2.03	14.413	15	PASS
N069146-001C	SAMP	1	1.54	14.513	15	PASS
N069146-002C	SAMP	1	1.37	4.926	15	PASS
N069146-003B	SAMP	1	2.13	17.359	15	NR!
N069146-003B	SAMP	10	0.23	11.416	15	PASS
N069146-005B	SAMP	1	30.29	4.612	15	PASS
N069146-005B	SAMP	10	3.02	5.692	15	PASS
CCV16	CCV	1	18.99	1.062	15	PASS
CCB16	CCB	1	<0.000	N/A	15	<PQL
N069146-006B	SAMP	1	0.08	62.506	15	<PQL
N069146-006B	SAMP	10	0.01	152.77	15	<PQL
N069146-007C	SAMP	1	4.56	11.793	15	PASS
N069146-007C	SAMP	10	0.5	13.249	15	PASS
N069146-009C	SAMP	1	1.62	2.646	15	PASS
N069146-011C	SAMP	1	1.04	13.354	15	PASS
N069146-011C	SAMP	10	0.08	30.413	15	<PQL
N069146-012C	SAMP	1	1.08	7.131	15	PASS
N069146-012C	SAMP	10	0.13	40.408	15	NR!
CCV17	CCV	1	18.53	6.055	15	PASS
CCB17	CCB	1	0.01	296.082	15	<PQL
N069146-013C	SAMP	1	3.42	6.661	15	PASS
N069146-013C	SAMP	5	0.64	32.075	15	NR!
N069146-013C	SAMP	10	0.29	17.23	15	NR!
N069146-013C	SAMP	50	0.05	14.762	15	PASS
N069146-013C-PS	PS	1	13.33	4.674	15	PASS

PERCENT RSD SUMMARY: 241016A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
N069146-013C-PS	PS	10	10.38	4.448	15	PASS
N069146-013CMS	MS	1	13.59	5.273	15	PASS
N069146-013CMS	MS	10	1.86	10.388	15	PASS
N069146-013CMSD	MSD	1	13.39	3.974	15	PASS
N069146-013CMSD	MSD	10	1.4	3.638	15	PASS
CCV18	CCV	1	18.98	1.623	15	PASS
CCB18	CCB	1	<0.000	N/A	15	<PQL
N069147-002C	SAMP	1	3.63	7.738	15	PASS
N069147-002C	SAMP	10	0.36	15.863	15	NR!
N069147-003C	SAMP	1	3.23	13.912	15	PASS
N069147-003C	SAMP	10	0.3	35.889	15	NR!
N069147-004C	SAMP	1	5.44	4.078	15	PASS
N069147-004C	SAMP	10	0.4	9.886	15	PASS
N069147-005C	SAMP	1	4.8	2.992	15	PASS
N069147-005C	SAMP	100	0.07	72.616	15	<PQL
N069147-006C	SAMP	1	3.18	4.25	15	PASS
N069147-006C	SAMP	10	0.42	7.328	15	PASS
CCV19	CCV	1	18.68	2.004	15	PASS
CCB19	CCB	1	<0.000	N/A	15	<PQL
ICSA6	ICSA	1	<0.000	0	15	PASS
ICSAB6	ICSAB	1	19.05	2.117	15	PASS

ANALYSIS RUN LOG



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INJECTION LOG: 241016A

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1016001.d	RINSE	ICAL	1	10/16/24 2:07 PM
A1016002.d	RINSE	ICAL	1	10/16/24 2:11 PM
A1016003.d	Cal Blk	IBLK	1	10/16/24 2:16 PM
A1016004.d	Std1-0.1/1 ppb	ICAL	1	10/16/24 2:21 PM
A1016005.d	Std2-0.5/5 ppb	ICAL	1	10/16/24 2:26 PM
A1016006.d	Std3-5/50 ppb	ICAL	1	10/16/24 2:30 PM
A1016007.d	Std4-10/100 ppb	ICAL	1	10/16/24 2:35 PM
A1016008.d	Std5-4.0/20/200 ppb	ICAL	1	10/16/24 2:40 PM
A1016009.d	Std6-8.0/40/400 ppb	ICAL	1	10/16/24 2:45 PM
A1016010.d	Std7-100/1000 ppb	ICAL	1	10/16/24 2:49 PM
A1016011.d	Std8-200/2000 ppb	ICAL	1	10/16/24 2:54 PM
A1016012.d	ICV	ICV	1	10/16/24 3:01 PM
A1016013.d	ICB	ICB	1	10/16/24 3:05 PM
A1016014.d	LLCCV1	CCV1	1	10/16/24 3:10 PM
A1016015.d	LLCCV2	CCV1	1	10/16/24 3:15 PM
A1016016.d	MLCCV1	CCV	1	10/16/24 3:22 PM
A1016017.d	ICSA1	ICSA	1	10/16/24 3:26 PM
A1016018.d	ICSAB1	ICSAB	1	10/16/24 3:31 PM
A1016019.d	N069105-002C	SAMP	10	10/16/24 3:43 PM
A1016020.d	N069105-003C	SAMP	1	10/16/24 3:48 PM
A1016021.d	N069105-005C	SAMP	1	10/16/24 3:52 PM
A1016022.d	N069105-006C	SAMP	1	10/16/24 3:57 PM
A1016023.d	N069105-009C	SAMP	10	10/16/24 4:02 PM
A1016024.d	N069105-009C	SAMP	50	10/16/24 4:06 PM
A1016025.d	N069105-009C-PS	PS	10	10/16/24 4:11 PM
A1016026.d	N069105-009CMS	MS	10	10/16/24 4:16 PM
A1016027.d	N069105-009CMSD	MSD	10	10/16/24 4:20 PM
A1016028.d	N069105-011C	SAMP	10	10/16/24 4:25 PM
A1016029.d	CCV1	CCV	1	10/16/24 4:30 PM
A1016030.d	CCB1	CCB	1	10/16/24 4:34 PM
A1016031.d	N069105-013C	SAMP	1	10/16/24 4:39 PM
A1016032.d	N069105-003C	SAMP	1	10/16/24 4:44 PM
A1016033.d	N069105-006C	SAMP	1	10/16/24 4:48 PM
A1016034.d	N069105-006C	SAMP	1	10/16/24 4:53 PM
A1016035.d	RINSE	ICAL	1	10/16/24 4:58 PM
A1016036.d	CCV2	CCV	1	10/16/24 5:02 PM
A1016037.d	CCB2	CCB	1	10/16/24 5:07 PM
A1016038.d	ICSA2	ICSA	1	10/16/24 5:11 PM
A1016039.d	ICSAB2	ICSAB	1	10/16/24 5:16 PM
A1016040.d	MB-113179	MBLK	1	10/16/24 5:21 PM
A1016041.d	LCS-113179	LCS	1	10/16/24 5:25 PM
A1016042.d	N069101-002B	SAMP	1	10/16/24 5:30 PM

INJECTION LOG: 241016A

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1016043.d	N069101-003D	SAMP	1	10/16/24 5:35 PM
A1016044.d	N069101-003D	SAMP	100	10/16/24 5:39 PM
A1016045.d	N069101-004D	SAMP	1	10/16/24 5:44 PM
A1016046.d	N069101-004D	SAMP	10	10/16/24 5:49 PM
A1016047.d	N069101-005D	SAMP	1	10/16/24 5:53 PM
A1016048.d	N069101-005D	SAMP	10	10/16/24 5:58 PM
A1016049.d	CCV3	CCV	1	10/16/24 6:03 PM
A1016050.d	CCB3	CCB	1	10/16/24 6:07 PM
A1016051.d	N069101-006D	SAMP	1	10/16/24 6:12 PM
A1016052.d	N069101-006D	SAMP	100	10/16/24 6:17 PM
A1016053.d	N069103-001D	SAMP	1	10/16/24 6:21 PM
A1016054.d	N069103-002D	SAMP	1	10/16/24 6:26 PM
A1016055.d	N069103-003B	SAMP	1	10/16/24 6:31 PM
A1016056.d	N069103-004B	SAMP	1	10/16/24 6:35 PM
A1016057.d	N069103-005D	SAMP	1	10/16/24 6:40 PM
A1016058.d	N069103-006D	SAMP	1	10/16/24 6:45 PM
A1016059.d	N069103-006D	SAMP	5	10/16/24 6:49 PM
A1016060.d	CCV4	CCV	1	10/16/24 6:54 PM
A1016061.d	CCB4	CCB	1	10/16/24 6:59 PM
A1016062.d	N069103-006D-PS	PS	1	10/16/24 7:03 PM
A1016063.d	N069103-006DMS	MS	1	10/16/24 7:08 PM
A1016064.d	N069103-006DMSD	MSD	1	10/16/24 7:13 PM
A1016065.d	N069103-007D	SAMP	1	10/16/24 7:17 PM
A1016066.d	N069103-008D	SAMP	1	10/16/24 7:22 PM
A1016067.d	N069103-009D	SAMP	1	10/16/24 7:27 PM
A1016068.d	N069103-010D	SAMP	1	10/16/24 7:31 PM
A1016069.d	N069103-011D	SAMP	1	10/16/24 7:36 PM
A1016070.d	N069103-012D	SAMP	1	10/16/24 7:40 PM
A1016071.d	RINSE	ICAL	1	10/16/24 7:45 PM
A1016072.d	CCV5	CCV	1	10/16/24 7:50 PM
A1016073.d	CCB5	CCB	1	10/16/24 7:54 PM
A1016074.d	N069103-013D	SAMP	1	10/16/24 7:59 PM
A1016075.d	N069103-017D	SAMP	1	10/16/24 8:04 PM
A1016076.d	N069104-001B	SAMP	1	10/16/24 8:08 PM
A1016077.d	RINSE	ICAL	1	10/16/24 8:13 PM
A1016078.d	CCV6	CCV	1	10/16/24 8:18 PM
A1016079.d	CCB6	CCB	1	10/16/24 8:22 PM
A1016080.d	ICSA3	ICSA	1	10/16/24 8:27 PM
A1016081.d	ICSAB3	ICSAB	1	10/16/24 8:32 PM
A1016082.d	MB-113212	MBLK	1	10/16/24 8:36 PM
A1016083.d	LCS-113212	LCS	1	10/16/24 8:41 PM
A1016084.d	N069102-001B	SAMP	1	10/16/24 8:46 PM

INJECTION LOG: 241016A

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1016127.d	CCB10	CCB	1	10/17/24 12:06 AM
A1016128.d	N069148-014B	SAMP	1	10/17/24 12:10 AM
A1016129.d	N069148-014B	SAMP	100	10/17/24 12:15 AM
A1016130.d	N069148-015B	SAMP	1	10/17/24 12:20 AM
A1016131.d	N069148-015B	SAMP	10	10/17/24 12:25 AM
A1016132.d	CCV11	CCV	1	10/17/24 12:29 AM
A1016133.d	CCB11	CCB	1	10/17/24 12:34 AM
A1016134.d	ICSA4	ICSA	1	10/17/24 12:38 AM
A1016135.d	ICSAB4	ICSAB	1	10/17/24 12:43 AM
A1016136.d	MB-113213	MBLK	1	10/17/24 12:48 AM
A1016137.d	LCS-113213	LCS	1	10/17/24 12:52 AM
A1016138.d	N069148-016B	SAMP	1	10/17/24 12:57 AM
A1016139.d	N069149-001B	SAMP	1	10/17/24 1:02 AM
A1016140.d	N069149-001B	SAMP	5	10/17/24 1:06 AM
A1016141.d	N069149-001B	SAMP	10	10/17/24 1:11 AM
A1016142.d	N069149-001B	SAMP	50	10/17/24 1:16 AM
A1016143.d	N069149-001B-PS	PS	1	10/17/24 1:20 AM
A1016144.d	N069149-001B-PS	PS	10	10/17/24 1:25 AM
A1016145.d	CCV12	CCV	1	10/17/24 1:30 AM
A1016146.d	CCB12	CCB	1	10/17/24 1:34 AM
A1016147.d	N069149-001B-MS	MS	1	10/17/24 1:39 AM
A1016148.d	N069149-001B-MS	MS	10	10/17/24 1:44 AM
A1016149.d	N069149-001B-MSD	MSD	1	10/17/24 1:48 AM
A1016150.d	N069149-001B-MSD	MSD	10	10/17/24 1:53 AM
A1016151.d	N069149-002B	SAMP	1	10/17/24 1:58 AM
A1016152.d	N069149-003B	SAMP	1	10/17/24 2:02 AM
A1016153.d	N069149-004B	SAMP	1	10/17/24 2:07 AM
A1016154.d	N069149-005B	SAMP	1	10/17/24 2:11 AM
A1016155.d	N069149-006B	SAMP	1	10/17/24 2:16 AM
A1016156.d	RINSE	ICAL	1	10/17/24 2:21 AM
A1016157.d	CCV13	CCV	1	10/17/24 2:25 AM
A1016158.d	CCB13	CCB	1	10/17/24 2:30 AM
A1016159.d	N069149-007D	SAMP	1	10/17/24 2:35 AM
A1016160.d	N069149-008D	SAMP	1	10/17/24 2:39 AM
A1016161.d	N069150-001D	SAMP	1	10/17/24 2:44 AM
A1016162.d	N069150-002B	SAMP	1	10/17/24 2:49 AM
A1016163.d	N069150-002B	SAMP	100	10/17/24 2:53 AM
A1016164.d	N069150-003B	SAMP	1	10/17/24 2:58 AM
A1016165.d	N069150-004B	SAMP	1	10/17/24 3:03 AM
A1016166.d	N069150-004B	SAMP	10	10/17/24 3:07 AM
A1016167.d	N069150-005B	SAMP	1	10/17/24 3:12 AM
A1016168.d	N069150-005B	SAMP	10	10/17/24 3:17 AM

INJECTION LOG: 241016A**Instrument ID: NV00922-ICP8**

Data File	Sample Name	Type	DF	Acq. Date-Time
A1016085.d	N069102-002B	SAMP	1	10/16/24 8:50 PM
A1016086.d	N069102-002B	SAMP	5	10/16/24 8:55 PM
A1016087.d	N069102-002B	SAMP	10	10/16/24 9:00 PM
A1016088.d	N069102-002B	SAMP	50	10/16/24 9:04 PM
A1016089.d	N069102-002B-PS	PS	1	10/16/24 9:09 PM
A1016090.d	N069102-002B-PS	PS	10	10/16/24 9:14 PM
A1016091.d	CCV7	CCV	1	10/16/24 9:18 PM
A1016092.d	CCB7	CCB	1	10/16/24 9:23 PM
A1016093.d	N069102-002B-MS	MS	1	10/16/24 9:28 PM
A1016094.d	N069102-002B-MS	MS	10	10/16/24 9:32 PM
A1016095.d	N069102-002B-MSD	MSD	1	10/16/24 9:37 PM
A1016096.d	N069102-002B-MSD	MSD	10	10/16/24 9:41 PM
A1016097.d	N069102-003B	SAMP	1	10/16/24 9:46 PM
A1016098.d	N069102-004B	SAMP	1	10/16/24 9:51 PM
A1016099.d	N069102-005B	SAMP	1	10/16/24 9:55 PM
A1016100.d	N069148-001B	SAMP	1	10/16/24 10:00 PM
A1016101.d	N069148-002C	SAMP	1	10/16/24 10:05 PM
A1016102.d	N069148-002C	SAMP	100	10/16/24 10:09 PM
A1016103.d	CCV8	CCV	1	10/16/24 10:14 PM
A1016104.d	CCB8	CCB	1	10/16/24 10:19 PM
A1016105.d	N069148-003E	SAMP	1	10/16/24 10:23 PM
A1016106.d	N069148-003E	SAMP	10	10/16/24 10:28 PM
A1016107.d	N069148-004C	SAMP	1	10/16/24 10:33 PM
A1016108.d	N069148-004C	SAMP	100	10/16/24 10:37 PM
A1016109.d	N069148-005B	SAMP	1	10/16/24 10:42 PM
A1016110.d	N069148-005B	SAMP	100	10/16/24 10:47 PM
A1016111.d	N069148-006B	SAMP	1	10/16/24 10:51 PM
A1016112.d	N069148-006B	SAMP	10	10/16/24 10:56 PM
A1016113.d	N069148-007D	SAMP	1	10/16/24 11:01 PM
A1016114.d	RINSE	ICAL	1	10/16/24 11:05 PM
A1016115.d	CCV9	CCV	1	10/16/24 11:10 PM
A1016116.d	CCB9	CCB	1	10/16/24 11:15 PM
A1016117.d	N069148-008D	SAMP	1	10/16/24 11:19 PM
A1016118.d	N069148-009D	SAMP	1	10/16/24 11:24 PM
A1016119.d	N069148-009D	SAMP	10	10/16/24 11:29 PM
A1016120.d	N069148-010D	SAMP	1	10/16/24 11:33 PM
A1016121.d	N069148-010D	SAMP	10	10/16/24 11:38 PM
A1016122.d	N069148-011D	SAMP	1	10/16/24 11:43 PM
A1016123.d	N069148-012D	SAMP	1	10/16/24 11:47 PM
A1016124.d	N069148-012D	SAMP	10	10/16/24 11:52 PM
A1016125.d	N069148-013D	SAMP	1	10/16/24 11:57 PM
A1016126.d	CCV10	CCV	1	10/17/24 12:01 AM

INJECTION LOG: 241016A**Instrument ID: NV00922-ICP8**

Data File	Sample Name	Type	DF	Acq. Date-Time
A1016169.d	CCV14	CCV	1	10/17/24 3:21 AM
A1016170.d	CCB14	CCB	1	10/17/24 3:26 AM
A1016171.d	N069150-006D	SAMP	1	10/17/24 3:31 AM
A1016172.d	N069150-006D	SAMP	100	10/17/24 3:35 AM
A1016173.d	N069150-007D	SAMP	1	10/17/24 3:40 AM
A1016174.d	N069150-007D	SAMP	100	10/17/24 3:45 AM
A1016175.d	N069150-008D	SAMP	1	10/17/24 3:49 AM
A1016176.d	N069150-008D	SAMP	100	10/17/24 3:54 AM
A1016177.d	N069150-009B	SAMP	1	10/17/24 3:59 AM
A1016178.d	N069150-009B	SAMP	10	10/17/24 4:03 AM
A1016179.d	N069150-010B	SAMP	1	10/17/24 4:08 AM
A1016180.d	N069150-010B	SAMP	100	10/17/24 4:12 AM
A1016181.d	CCV15	CCV	1	10/17/24 4:17 AM
A1016182.d	CCB15	CCB	1	10/17/24 4:22 AM
A1016183.d	ICSA5	ICSA	1	10/17/24 4:27 AM
A1016184.d	ICSAB5	ICSAB	1	10/17/24 4:31 AM
A1016185.d	MB-113224	MBLK	1	10/17/24 4:36 AM
A1016186.d	LCS-113224	LCS	1	10/17/24 4:40 AM
A1016187.d	N069147-001C	SAMP	1	10/17/24 4:45 AM
A1016188.d	N069105-001C	SAMP	1	10/17/24 4:50 AM
A1016189.d	N069146-001C	SAMP	1	10/17/24 4:54 AM
A1016190.d	N069146-002C	SAMP	1	10/17/24 4:59 AM
A1016191.d	N069146-003B	SAMP	1	10/17/24 5:04 AM
A1016192.d	N069146-003B	SAMP	10	10/17/24 5:08 AM
A1016193.d	N069146-005B	SAMP	1	10/17/24 5:13 AM
A1016194.d	N069146-005B	SAMP	10	10/17/24 5:18 AM
A1016195.d	CCV16	CCV	1	10/17/24 5:22 AM
A1016196.d	CCB16	CCB	1	10/17/24 5:27 AM
A1016197.d	N069146-006B	SAMP	1	10/17/24 5:32 AM
A1016198.d	N069146-006B	SAMP	10	10/17/24 5:36 AM
A1016199.d	N069146-007C	SAMP	1	10/17/24 5:41 AM
A1016200.d	N069146-007C	SAMP	10	10/17/24 5:46 AM
A1016201.d	N069146-009C	SAMP	1	10/17/24 5:50 AM
A1016202.d	N069146-011C	SAMP	1	10/17/24 5:55 AM
A1016203.d	N069146-011C	SAMP	10	10/17/24 6:00 AM
A1016204.d	N069146-012C	SAMP	1	10/17/24 6:04 AM
A1016205.d	N069146-012C	SAMP	10	10/17/24 6:09 AM
A1016206.d	CCV17	CCV	1	10/17/24 6:14 AM
A1016207.d	CCB17	CCB	1	10/17/24 6:18 AM
A1016208.d	N069146-013C	SAMP	1	10/17/24 6:23 AM
A1016209.d	N069146-013C	SAMP	5	10/17/24 6:28 AM
A1016210.d	N069146-013C	SAMP	10	10/17/24 6:32 AM

INJECTION LOG: 241016A**Instrument ID: NV00922-ICP8**

Data File	Sample Name	Type	DF	Acq. Date-Time
A1016211.d	N069146-013C	SAMP	50	10/17/24 6:37 AM
A1016212.d	N069146-013C-PS	PS	1	10/17/24 6:42 AM
A1016213.d	N069146-013C-PS	PS	10	10/17/24 6:46 AM
A1016214.d	N069146-013CMS	MS	1	10/17/24 6:51 AM
A1016215.d	N069146-013CMS	MS	10	10/17/24 6:56 AM
A1016216.d	N069146-013CMSD	MSD	1	10/17/24 7:00 AM
A1016217.d	N069146-013CMSD	MSD	10	10/17/24 7:05 AM
A1016218.d	CCV18	CCV	1	10/17/24 7:09 AM
A1016219.d	CCB18	CCB	1	10/17/24 7:14 AM
A1016220.d	N069147-002C	SAMP	1	10/17/24 7:19 AM
A1016221.d	N069147-002C	SAMP	10	10/17/24 7:23 AM
A1016222.d	N069147-003C	SAMP	1	10/17/24 7:28 AM
A1016223.d	N069147-003C	SAMP	10	10/17/24 7:33 AM
A1016224.d	N069147-004C	SAMP	1	10/17/24 7:37 AM
A1016225.d	N069147-004C	SAMP	10	10/17/24 7:42 AM
A1016226.d	N069147-005C	SAMP	1	10/17/24 7:47 AM
A1016227.d	N069147-005C	SAMP	100	10/17/24 7:51 AM
A1016228.d	N069147-006C	SAMP	1	10/17/24 7:56 AM
A1016229.d	N069147-006C	SAMP	10	10/17/24 8:01 AM
A1016230.d	CCV19	CCV	1	10/17/24 8:05 AM
A1016231.d	CCB19	CCB	1	10/17/24 8:10 AM
A1016232.d	ICSA6	ICSA	1	10/17/24 8:15 AM
A1016233.d	ICSAB6	ICSAB	1	10/17/24 8:19 AM
A1016234.d	RINSE	ICAL	1	10/17/24 8:24 AM
A1016235.d	RINSE	ICAL	1	10/17/24 8:29 AM
A1016236.d	RINSE	ICAL	1	10/17/24 8:33 AM

SAMPLE PREPARATION LOG



ASSET LABORATORIES
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CALIFORNIA
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NEVADA
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P: 702.307.2659 F: 702.307.2691

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ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 10/11/2024 10:04:28 AM

Reviewed/ Date: *JRB* 10/29/2024

Page: 1 of 2

Prep End Date: 10/11/2024 2:00:00 PM

Initials/ Date: for _____

Prep Factor Units Temp. (°C): Location:

Prep Batch 113224 Prep Code:3010_W_MSDISS_TPK

Technician: Diane Jetajobe

mL / mL

95.1 DB-4-21

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-113224	Aqueous		25	<input type="checkbox"/>	25	1.000		
50ML LOT# J585566-8247								
MB-113224	Aqueous		25	<input type="checkbox"/>	25	1.000		
THERMOMETER ID: DIGESTION 7								
N069105-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-002C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-003B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-005B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-006B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-007C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-009C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-011C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-012C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-013C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17137	NITRIC ACID
17144	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-240815C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-240815D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-240815E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-240815F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 10/11/2024 10:04:28 AM

Reviewed/ Date: *JRB* 10/29/2024

Page: 2 of 2

Prep End Date: 10/11/2024 2:00:00 PM

Initials/ Date: for _____

Prep Factor Units Temp. (°C): Location:

Prep Batch 113224 Prep Code: 3010_W_MSDISS_TPK

Technician: Diane Jetajobe

mL / mL 95.1 DB-4-21

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N069146-013CMS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069146-013CMSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069147-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069147-002C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069147-003C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069147-004C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069147-005C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069147-006C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17137	NITRIC ACID
17144	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-240815C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-240815D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-240815E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-240815F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

INSTRUMENT TUNING CHECK



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\241015A2.b
Acq. Date-Time 2024-10-16 14:04:02
Report Comment —
Instrument Name G8421A SG19193757

[No Gas]

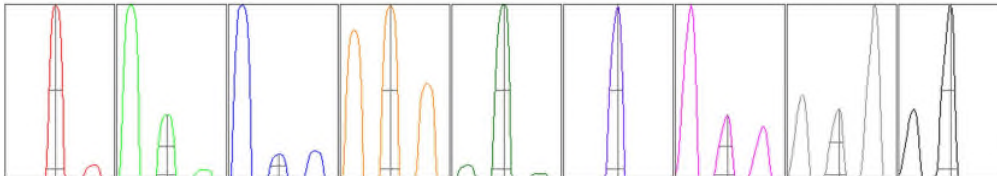
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	5732	57320.64	500.00		3.491	5.000
24	10.00	14186	141860.76	500.00		2.265	5.000
25	10.00	1872	18723.46	500.00		3.189	5.000
26	10.00	2154	21541.38	500.00		2.853	5.000
59	10.00	17823	178227.79	500.00		2.412	5.000
115	10.00	22316	223161.91	500.00		2.329	5.000
206	10.00	4490	44895.13	500.00		3.055	5.000
207	10.00	3723	37227.16	500.00		3.696	5.000
208	10.00	9180	91802.27	500.00		3.113	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.435 %
Doubly Charged 70 / 140 0.934 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	5974.75	8.90	8.90 - 9.10	
24	14347.32	23.90	23.90 - 24.10	
25	1884.60	24.90	24.90 - 25.10	
26	2201.74	25.90	25.90 - 26.10	
59	17562.50	58.95	58.90 - 59.10	
115	22179.07	115.00	114.90 - 115.10	
206	4811.93	205.95	205.90 - 206.10	
207	3966.68	206.95	206.90 - 207.10	
208	10066.58	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.37	0.487	0.900	
24	0.44	0.540	0.900	
25	0.43	0.540	0.900	
26	0.43	0.539	0.900	
59	0.40	0.532	0.900	
115	0.37	0.491	0.900	
206	0.36	0.572	0.900	
207	0.37	0.590	0.900	
208	0.37	0.577	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	1.3 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2620 V Pulse HV 1839 V

[H2]

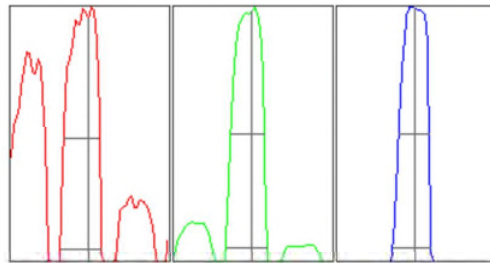
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		120	1196.44			11.184	
59		1916	19161.03			3.803	
115		18319	183185.33			2.847	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.337 %
 Doubly Charged 70 / 140 0.306 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	125.51	26.00	25.90 - 26.10	
59	1990.75	59.00	58.90 - 59.10	
115	18624.11	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.67	0.786	0.900	
59	0.63	0.782	0.900	
115	0.58	0.724	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	--	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	—	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0005	QP Bias	-15.0 V
Mass Offset	126	Axis Offset	-0.06		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	1.3 mm
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EM

Discriminator	4.5 mV	Analog HV	2620 V	Pulse HV	1839 V
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[He]

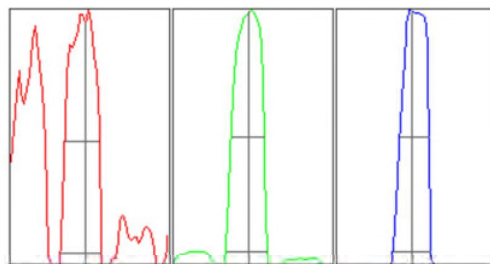
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		46	461.61			13.407	
59		3329	33292.69			3.184	
115		2997	29970.14			3.162	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.131 %
Doubly Charged	70 / 140 1.188 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	47.75	25.95	25.90 - 26.10	
59	3370.01	58.95	58.90 - 59.10	
115	2995.39	114.95	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.64	0.775	0.900	
59	0.62	0.780	0.900	
115	0.56	0.720	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0005	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	-0.06		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	1.3 mm
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EM

Discriminator	4.5 mV	Analog HV	2620 V	Pulse HV	1839 V
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INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
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INITIAL CALIBRATION SUMMARY: 241016A

Instrument ID: NV00922-ICP8

Analyte	Data File	A1016003.d	A1016004.d	A1016005.d	A1016006.d	A1016007.d	A1016008.d	A1016009.d	A1016010.d	A1016011.d	R
	Acq. Date-Time	10/16/2024 02:16 PM	10/16/2024 02:21 PM	10/16/2024 02:26 PM	10/16/2024 02:30 PM	10/16/2024 02:35 PM	10/16/2024 02:40 PM	10/16/2024 02:45 PM	10/16/2024 02:49 PM	10/16/2024 02:54 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L		
45 Sc (ISTD) [2]	CPS	28528.8		28536.6	28262.9	28908.3	28272.8	28643.4	28693.5	29142.1	
55 Mn [2]	CPS	14.4		545.6	4888.5	10044.2	19577.2	40072.7	101333	206918.5	1.0000
72 Ge (ISTD) [2]	CPS	15482.9	15148.2	15152.6	15331.6	15257.1	15302.7	15508.5	15366.1	15991.2	
75 As [2]	CPS	7.8	23.3	101.1	1005.6	2040.1	4162.8	8562.3	21666.6	44013.5	0.9999
159 Tb (ISTD) [3]	CPS	1301130.7		1292777.4	1283143.5	1308143.4	1292732.7	1289641.2	1316291.6	1313586.5	
137 Ba [3]	CPS	30		1273.4	11531.1	23057.3	47623.2	96725.2	244064.3	491584.9	1.0000

Standard Code
ICAL: 2MSST-240311B
ICAL: 2MSST-240311C
ICAL: 2MWST-240815K
ICV: 2MWST-240815G
LLICV: 2MWST-240815J
IS Mix: 2MWST-240815A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: ICV	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6243983							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	10.108	0.10	10.00	0	101	90	110				
Barium	10.047	1.0	10.00	0	100	90	110				
Manganese	100.348	0.50	100.0	0	100	90	110				

Sample ID LLCCV2	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: ZZZZZZ	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6243986							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.087	0.10	0.1000	0	86.5	80	120				
Barium	1.076	1.0	1.000	0	108	80	120				
Manganese	0.589	0.50	0.5000	0	118	80	120				

Sample ID MLCCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6243987							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	20.781	0.10	20.00	0	104	90	110				
Barium	19.529	1.0	20.00	0	97.6	90	110				
Manganese	19.604	0.50	20.00	0	98.0	90	110				

Sample ID CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244000							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.966	0.10	20.00	0	99.8	90	110				
Barium	20.252	1.0	20.00	0	101	90	110				
Manganese	19.451	0.50	20.00	0	97.3	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244006							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.477	0.10	20.00	0	97.4	90	110				
Barium	20.464	1.0	20.00	0	102	90	110				
Manganese	19.398	0.50	20.00	0	97.0	90	110				

Sample ID CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244019							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.066	0.10	20.00	0	100	90	110				
Barium	20.195	1.0	20.00	0	101	90	110				
Manganese	19.659	0.50	20.00	0	98.3	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244030							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.741	0.10	20.00	0	98.7	90	110				
Barium	20.489	1.0	20.00	0	102	90	110				
Manganese	19.417	0.50	20.00	0	97.1	90	110				

Sample ID CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244041							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.262	0.10	20.00	0	96.3	90	110				
Barium	20.810	1.0	20.00	0	104	90	110				
Manganese	19.437	0.50	20.00	0	97.2	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/16/2024	SeqNo: 6244046						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.546	0.10	20.00	0	97.7	90	110				
Barium	21.212	1.0	20.00	0	106	90	110				
Manganese	19.655	0.50	20.00	0	98.3	90	110				

Sample ID CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/16/2024	SeqNo: 6244059						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.247	0.10	20.00	0	96.2	90	110				
Barium	21.414	1.0	20.00	0	107	90	110				
Manganese	19.302	0.50	20.00	0	96.5	90	110				

Sample ID CCV8	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/16/2024	SeqNo: 6244071						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.492	0.10	20.00	0	97.5	90	110				
Barium	21.451	1.0	20.00	0	107	90	110				
Manganese	19.685	0.50	20.00	0	98.4	90	110				

Sample ID CCV9	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/16/2024	SeqNo: 6244082						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.096	0.10	20.00	0	95.5	90	110				
Barium	21.191	1.0	20.00	0	106	90	110				
Manganese	19.544	0.50	20.00	0	97.7	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV10	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244093							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.327	0.10	20.00	0	96.6	90	110				
Barium	21.294	1.0	20.00	0	106	90	110				
Manganese	19.934	0.50	20.00	0	99.7	90	110				

Sample ID CCV11	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244099							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.288	0.10	20.00	0	96.4	90	110				
Barium	20.800	1.0	20.00	0	104	90	110				
Manganese	19.409	0.50	20.00	0	97.0	90	110				

Sample ID CCV12	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244112							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.406	0.10	20.00	0	97.0	90	110				
Barium	21.259	1.0	20.00	0	106	90	110				
Manganese	19.489	0.50	20.00	0	97.4	90	110				

Sample ID CCV13	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244123							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.617	0.10	20.00	0	93.1	90	110				
Barium	20.895	1.0	20.00	0	104	90	110				
Manganese	19.674	0.50	20.00	0	98.4	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV14	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244135						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.176	0.10	20.00	0	95.9	90	110				
Barium	20.969	1.0	20.00	0	105	90	110				
Manganese	19.429	0.50	20.00	0	97.1	90	110				

Sample ID CCV15	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244147						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.606	0.10	20.00	0	98.0	90	110				
Barium	21.238	1.0	20.00	0	106	90	110				
Manganese	20.081	0.50	20.00	0	100	90	110				

Sample ID CCV16	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244161						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.990	0.10	20.00	0	95.0	90	110				
Barium	21.375	1.0	20.00	0	107	90	110				
Manganese	19.413	0.50	20.00	0	97.1	90	110				

Sample ID CCV17	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244172						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.531	0.10	20.00	0	92.7	90	110				
Barium	20.875	1.0	20.00	0	104	90	110				
Manganese	19.259	0.50	20.00	0	96.3	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV18	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244184							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.984	0.10	20.00	0	94.9	90	110				
Barium	21.298	1.0	20.00	0	106	90	110				
Manganese	19.515	0.50	20.00	0	97.6	90	110				

Sample ID CCV19	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCV	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244196							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.679	0.10	20.00	0	93.4	90	110				
Barium	21.290	1.0	20.00	0	106	90	110				
Manganese	19.599	0.50	20.00	0	98.0	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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NEVADA
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P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: ICB	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/16/2024	SeqNo: 6243984						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50

Sample ID CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/16/2024	SeqNo: 6244001						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50

Sample ID CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/16/2024	SeqNo: 6244007						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50

Sample ID CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/16/2024	SeqNo: 6244020						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/16/2024	SeqNo: 6244031						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50

Sample ID CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/16/2024	SeqNo: 6244042						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50

Sample ID CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/16/2024	SeqNo: 6244047						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50

Sample ID CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/16/2024	SeqNo: 6244060						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244072							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244083							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID CCB10	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244094							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID CCB11	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/17/2024	SeqNo: 6244100							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB12	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244113						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50

Sample ID CCB13	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244124						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50

Sample ID CCB14	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244136						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50

Sample ID CCB15	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244148						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB16	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244162						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50

Sample ID CCB17	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244173						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50

Sample ID CCB18	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244185						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50

Sample ID CCB19	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: CCB	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244197						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



ASSET LABORATORIES
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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: ICSA	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6243988							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: ICSA	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6243989							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	20.082	0.10	20.00	0	100	80	120				
Barium	19.980	1.0	20.00	0	99.9	80	120				
Manganese	20.295	0.50	20.00	0	101	80	120				

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: ICSA	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244008							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: ICSA	Batch ID: R194443	TestNo: EPA 6020	Analysis Date: 10/16/2024	SeqNo: 6244009							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.999	0.10	20.00	0	100	80	120				
Barium	20.606	1.0	20.00	0	103	80	120				
Manganese	19.632	0.50	20.00	0	98.2	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: ICSA	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/16/2024	SeqNo: 6244048						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50

Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: ICSA	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/16/2024	SeqNo: 6244049						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.440	0.10	20.00	0	97.2	80	120
Barium	21.380	1.0	20.00	0	107	80	120
Manganese	19.627	0.50	20.00	0	98.1	80	120

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: ICSA	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244101						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: ICSA	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244102						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.267	0.10	20.00	0	96.3	80	120
Barium	21.092	1.0	20.00	0	105	80	120
Manganese	19.846	0.50	20.00	0	99.2	80	120

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA5	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: ICSA	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244149						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID ICSA5	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: ICSA	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244150						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.212	0.10	20.00	0	96.1	80	120				
Barium	21.537	1.0	20.00	0	108	80	120				
Manganese	19.900	0.50	20.00	0	99.5	80	120				

Sample ID ICSA6	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: ICSA	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244198						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Sample ID ICSA6	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: ICSA	Batch ID: R194443	TestNo: EPA 6020		Analysis Date: 10/17/2024	SeqNo: 6244199						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.050	0.10	20.00	0	95.3	80	120				
Barium	21.216	1.0	20.00	0	106	80	120				
Manganese	19.821	0.50	20.00	0	99.1	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

INTERNAL STANDARD SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

INTERNAL STANDARD: 241016A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	1301130.7	1301130.7	100	PASS	30-150	28528.8	28528.8	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	1308802.6	1301130.7	100.59	PASS	30-150	28302.9	28528.8	99.21	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	1292777.4	1301130.7	99.36	PASS	30-150	28536.6	28528.8	100.03	PASS	30-150
Std3-5/50 ppb	ICAL	1	1283143.5	1301130.7	98.62	PASS	30-150	28262.9	28528.8	99.07	PASS	30-150
Std4-10/100 ppb	ICAL	1	1308143.4	1301130.7	100.54	PASS	30-150	28908.3	28528.8	101.33	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	1292732.7	1301130.7	99.35	PASS	30-150	28272.8	28528.8	99.1	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	1289641.2	1301130.7	99.12	PASS	30-150	28643.4	28528.8	100.4	PASS	30-150
Std7-100/1000 ppb	ICAL	1	1316291.6	1301130.7	101.17	PASS	30-150	28693.5	28528.8	100.58	PASS	30-150
Std8-200/2000 ppb	ICAL	1	1313586.5	1301130.7	100.96	PASS	30-150	29142.1	28528.8	102.15	PASS	30-150
ICV	ICV	1	1313125.6	1301130.7	100.92	PASS	30-150	28182.7	28528.8	98.79	PASS	30-150
ICB	ICB	1	1257163.6	1301130.7	96.62	PASS	30-150	27078.6	28528.8	94.92	PASS	30-150
LLCCV1	CCV1	1	1253250.8	1301130.7	96.32	PASS	30-150	27650.7	28528.8	96.92	PASS	30-150
LLCCV2	CCV1	1	1256342	1301130.7	96.56	PASS	30-150	27362.4	28528.8	95.91	PASS	30-150
MLCCV1	CCV	1	1249492.5	1301130.7	96.03	PASS	30-150	27146.5	28528.8	95.15	PASS	30-150
ICSA1	ICSA	1	1260251.9	1301130.7	96.86	PASS	30-150	26941.7	28528.8	94.44	PASS	30-150
ICSAB1	ICSAB	1	1263953.6	1301130.7	97.14	PASS	30-150	26522.2	28528.8	92.97	PASS	30-150
CCV1	CCV	1	1265888.3	1301130.7	97.29	PASS	30-150	27682.9	28528.8	97.04	PASS	30-150
CCB1	CCB	1	1256060.9	1301130.7	96.54	PASS	30-150	26944	28528.8	94.44	PASS	30-150
CCV2	CCV	1	1253481.2	1301130.7	96.34	PASS	30-150	28622.3	28528.8	100.33	PASS	30-150
CCB2	CCB	1	1259621.1	1301130.7	96.81	PASS	30-150	27354.7	28528.8	95.88	PASS	30-150
ICSA2	ICSA	1	1264883.1	1301130.7	97.21	PASS	30-150	27648.4	28528.8	96.91	PASS	30-150
ICSAB2	ICSAB	1	1280018.8	1301130.7	98.38	PASS	30-150	27770.9	28528.8	97.34	PASS	30-150
CCV3	CCV	1	1306761.9	1301130.7	100.43	PASS	30-150	27020.7	28528.8	94.71	PASS	30-150
CCB3	CCB	1	1293234.9	1301130.7	99.39	PASS	30-150	26338.5	28528.8	92.32	PASS	30-150
CCV4	CCV	1	1300119.9	1301130.7	99.92	PASS	30-150	27659.6	28528.8	96.95	PASS	30-150
CCB4	CCB	1	1292029.6	1301130.7	99.3	PASS	30-150	26987.4	28528.8	94.6	PASS	30-150
CCV5	CCV	1	1282752.3	1301130.7	98.59	PASS	30-150	28030.1	28528.8	98.25	PASS	30-150
CCB5	CCB	1	1273264.6	1301130.7	97.86	PASS	30-150	27817.6	28528.8	97.51	PASS	30-150
CCV6	CCV	1	1290131.5	1301130.7	99.15	PASS	30-150	28360.7	28528.8	99.41	PASS	30-150
CCB6	CCB	1	1289378.1	1301130.7	99.1	PASS	30-150	28223.8	28528.8	98.93	PASS	30-150
ICSA3	ICSA	1	1298633.5	1301130.7	99.81	PASS	30-150	28872.7	28528.8	101.21	PASS	30-150
ICSAB3	ICSAB	1	1294172.8	1301130.7	99.47	PASS	30-150	28637.9	28528.8	100.38	PASS	30-150
CCV7	CCV	1	1298907.4	1301130.7	99.83	PASS	30-150	28946.2	28528.8	101.46	PASS	30-150
CCB7	CCB	1	1285276.9	1301130.7	98.78	PASS	30-150	28643.4	28528.8	100.4	PASS	30-150
CCV8	CCV	1	1324210.7	1301130.7	101.77	PASS	30-150	29258.9	28528.8	102.56	PASS	30-150
CCB8	CCB	1	1313117.1	1301130.7	100.92	PASS	30-150	28533.2	28528.8	100.02	PASS	30-150
CCV9	CCV	1	1358949.6	1301130.7	104.44	PASS	30-150	29715.3	28528.8	104.16	PASS	30-150
CCB9	CCB	1	1341842.1	1301130.7	103.13	PASS	30-150	29092	28528.8	101.97	PASS	30-150
CCV10	CCV	1	1363317.3	1301130.7	104.78	PASS	30-150	28953.9	28528.8	101.49	PASS	30-150
CCB10	CCB	1	1344080.8	1301130.7	103.3	PASS	30-150	28919.4	28528.8	101.37	PASS	30-150
CCV11	CCV	1	1339677.4	1301130.7	102.96	PASS	30-150	28694.6	28528.8	100.58	PASS	30-150

INTERNAL STANDARD: 241016A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
CCB11	CCB	1	1326706.8	1301130.7	101.97	PASS	30-150	28324	28528.8	99.28	PASS	30-150
ICSA4	ICSA	1	1339490.1	1301130.7	102.95	PASS	30-150	28782.6	28528.8	100.89	PASS	30-150
ICSAB4	ICSAB	1	1337476.6	1301130.7	102.79	PASS	30-150	28905	28528.8	101.32	PASS	30-150
CCV12	CCV	1	1337400.7	1301130.7	102.79	PASS	30-150	30128.3	28528.8	105.61	PASS	30-150
CCB12	CCB	1	1326518.3	1301130.7	101.95	PASS	30-150	29526.1	28528.8	103.5	PASS	30-150
CCV13	CCV	1	1349326.8	1301130.7	103.7	PASS	30-150	28876.1	28528.8	101.22	PASS	30-150
CCB13	CCB	1	1327262.7	1301130.7	102.01	PASS	30-150	28871.6	28528.8	101.2	PASS	30-150
CCV14	CCV	1	1363798.6	1301130.7	104.82	PASS	30-150	29189.9	28528.8	102.32	PASS	30-150
CCB14	CCB	1	1336010.9	1301130.7	102.68	PASS	30-150	28923.9	28528.8	101.38	PASS	30-150
CCV15	CCV	1	1331166.2	1301130.7	102.31	PASS	30-150	27536	28528.8	96.52	PASS	30-150
CCB15	CCB	1	1345179.5	1301130.7	103.39	PASS	30-150	27580.5	28528.8	96.68	PASS	30-150
ICSA5	ICSA	1	1343354.2	1301130.7	103.25	PASS	30-150	27858.7	28528.8	97.65	PASS	30-150
ICSAB5	ICSAB	1	1355015.2	1301130.7	104.14	PASS	30-150	28151.5	28528.8	98.68	PASS	30-150
MB-113224	MBLK	1	1357595.9	1301130.7	104.34	PASS	30-150	27725.2	28528.8	97.18	PASS	30-150
LCS-113224	LCS	1	1390452.3	1301130.7	106.86	PASS	30-150	28512.1	28528.8	99.94	PASS	30-150
N069147-001C	SAMP	1	1079076.6	1301130.7	82.93	PASS	30-150	25066.6	28528.8	87.86	PASS	30-150
N069105-001C	SAMP	1	912924.2	1301130.7	70.16	PASS	30-150	23328.5	28528.8	81.77	PASS	30-150
N069146-001C	SAMP	1	1024402.5	1301130.7	78.73	PASS	30-150	25273.6	28528.8	88.59	PASS	30-150
N069146-002C	SAMP	1	956279.3	1301130.7	73.5	PASS	30-150	24467.9	28528.8	85.77	PASS	30-150
N069146-003B	SAMP	1	1206444.6	1301130.7	92.72	PASS	30-150	27583.9	28528.8	96.69	PASS	30-150
N069146-003B	SAMP	10	1261070.5	1301130.7	96.92	PASS	30-150	27935.6	28528.8	97.92	PASS	30-150
N069146-005B	SAMP	1	1249600.3	1301130.7	96.04	PASS	30-150	27037.5	28528.8	94.77	PASS	30-150
N069146-005B	SAMP	10	1269081.1	1301130.7	97.54	PASS	30-150	27177.6	28528.8	95.26	PASS	30-150
CCV16	CCV	1	1326550	1301130.7	101.95	PASS	30-150	29251.1	28528.8	102.53	PASS	30-150
CCB16	CCB	1	1292214	1301130.7	99.31	PASS	30-150	28358.5	28528.8	99.4	PASS	30-150
N069146-006B	SAMP	1	1251695.8	1301130.7	96.2	PASS	30-150	25771	28528.8	90.33	PASS	30-150
N069146-006B	SAMP	10	1281356.3	1301130.7	98.48	PASS	30-150	26395.3	28528.8	92.52	PASS	30-150
N069146-007C	SAMP	1	1022145.9	1301130.7	78.56	PASS	30-150	24361.1	28528.8	85.39	PASS	30-150
N069146-007C	SAMP	10	1174788.5	1301130.7	90.29	PASS	30-150	26361.9	28528.8	92.4	PASS	30-150
N069146-009C	SAMP	1	1115008.4	1301130.7	85.7	PASS	30-150	25289.2	28528.8	88.64	PASS	30-150
N069146-011C	SAMP	1	1074386	1301130.7	82.57	PASS	30-150	25431.6	28528.8	89.14	PASS	30-150
N069146-011C	SAMP	10	1215449.7	1301130.7	93.41	PASS	30-150	27161	28528.8	95.21	PASS	30-150
N069146-012C	SAMP	1	1067101.7	1301130.7	82.01	PASS	30-150	25248	28528.8	88.5	PASS	30-150
N069146-012C	SAMP	10	1200997	1301130.7	92.3	PASS	30-150	27261.1	28528.8	95.56	PASS	30-150
CCV17	CCV	1	1287952.6	1301130.7	98.99	PASS	30-150	28616.7	28528.8	100.31	PASS	30-150
CCB17	CCB	1	1272226.9	1301130.7	97.78	PASS	30-150	28183.8	28528.8	98.79	PASS	30-150
N069146-013C	SAMP	1	1043106.8	1301130.7	80.17	PASS	30-150	25162.3	28528.8	88.2	PASS	30-150
N069146-013C	SAMP	5	1188774	1301130.7	91.36	PASS	30-150	27610.6	28528.8	96.78	PASS	30-150
N069146-013C	SAMP	10	1215655.3	1301130.7	93.43	PASS	30-150	26614.5	28528.8	93.29	PASS	30-150
N069146-013C	SAMP	50	1231612.8	1301130.7	94.66	PASS	30-150	27304.6	28528.8	95.71	PASS	30-150
N069146-013C-PS	PS	1	1050222	1301130.7	80.72	PASS	30-150	25295.8	28528.8	88.67	PASS	30-150

INTERNAL STANDARD: 241016A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
N069146-013C-PS	PS	10	1194799.2	1301130.7	91.83	PASS	30-150	26556.7	28528.8	93.09	PASS	30-150
N069146-013CMS	MS	1	1029210.1	1301130.7	79.1	PASS	30-150	25224.6	28528.8	88.42	PASS	30-150
N069146-013CMS	MS	10	1171042.6	1301130.7	90	PASS	30-150	26956.2	28528.8	94.49	PASS	30-150
N069146-013CMSD	MSD	1	1034806.4	1301130.7	79.53	PASS	30-150	25221.3	28528.8	88.41	PASS	30-150
N069146-013CMSD	MSD	10	1202607.1	1301130.7	92.43	PASS	30-150	27241.1	28528.8	95.49	PASS	30-150
CCV18	CCV	1	1276068.6	1301130.7	98.07	PASS	30-150	29086.4	28528.8	101.95	PASS	30-150
CCB18	CCB	1	1281301.4	1301130.7	98.48	PASS	30-150	28128.1	28528.8	98.6	PASS	30-150
N069147-002C	SAMP	1	1054898.1	1301130.7	81.08	PASS	30-150	25592.9	28528.8	89.71	PASS	30-150
N069147-002C	SAMP	10	1207287.3	1301130.7	92.79	PASS	30-150	26629	28528.8	93.34	PASS	30-150
N069147-003C	SAMP	1	1052164.5	1301130.7	80.87	PASS	30-150	25204.6	28528.8	88.35	PASS	30-150
N069147-003C	SAMP	10	1196234	1301130.7	91.94	PASS	30-150	26660.2	28528.8	93.45	PASS	30-150
N069147-004C	SAMP	1	1062323	1301130.7	81.65	PASS	30-150	25472.8	28528.8	89.29	PASS	30-150
N069147-004C	SAMP	10	1216087.6	1301130.7	93.46	PASS	30-150	26851.6	28528.8	94.12	PASS	30-150
N069147-005C	SAMP	1	1068139.8	1301130.7	82.09	PASS	30-150	25199	28528.8	88.33	PASS	30-150
N069147-005C	SAMP	100	1212472.2	1301130.7	93.19	PASS	30-150	27368	28528.8	95.93	PASS	30-150
N069147-006C	SAMP	1	1213740.1	1301130.7	93.28	PASS	30-150	26609	28528.8	93.27	PASS	30-150
N069147-006C	SAMP	10	1238405.8	1301130.7	95.18	PASS	30-150	26611.2	28528.8	93.28	PASS	30-150
CCV19	CCV	1	1284431.9	1301130.7	98.72	PASS	30-150	27922.2	28528.8	97.87	PASS	30-150
CCB19	CCB	1	1273195.6	1301130.7	97.85	PASS	30-150	27776.4	28528.8	97.36	PASS	30-150
ICSA6	ICSA	1	1293684.7	1301130.7	99.43	PASS	30-150	27341.2	28528.8	95.84	PASS	30-150
ICSAB6	ICSAB	1	1296928.8	1301130.7	99.68	PASS	30-150	27885.5	28528.8	97.75	PASS	30-150

INTERNAL STANDARD: 241016A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	15482.9	15482.9	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	15148.2	15482.9	97.84	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	15152.6	15482.9	97.87	PASS	30-150
Std3-5/50 ppb	ICAL	1	15331.6	15482.9	99.02	PASS	30-150
Std4-10/100 ppb	ICAL	1	15257.1	15482.9	98.54	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	15302.7	15482.9	98.84	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	15508.5	15482.9	100.17	PASS	30-150
Std7-100/1000 ppb	ICAL	1	15366.1	15482.9	99.25	PASS	30-150
Std8-200/2000 ppb	ICAL	1	15991.2	15482.9	103.28	PASS	30-150
ICV	ICV	1	15207.1	15482.9	98.22	PASS	30-150
ICB	ICB	1	14707.7	15482.9	94.99	PASS	30-150
LLCCV1	CCV1	1	14832.3	15482.9	95.8	PASS	30-150
LLCCV2	CCV1	1	14510.9	15482.9	93.72	PASS	30-150
MLCCV1	CCV	1	14401.9	15482.9	93.02	PASS	30-150
ICSA1	ICSA	1	14361.9	15482.9	92.76	PASS	30-150
ICSAB1	ICSAB	1	14390.8	15482.9	92.95	PASS	30-150
CCV1	CCV	1	14981.3	15482.9	96.76	PASS	30-150
CCB1	CCB	1	14651	15482.9	94.63	PASS	30-150
CCV2	CCV	1	15823.2	15482.9	102.2	PASS	30-150
CCB2	CCB	1	15121.5	15482.9	97.67	PASS	30-150
ICSA2	ICSA	1	15148.2	15482.9	97.84	PASS	30-150
ICSAB2	ICSAB	1	15329.4	15482.9	99.01	PASS	30-150
CCV3	CCV	1	15023.6	15482.9	97.03	PASS	30-150
CCB3	CCB	1	14834.5	15482.9	95.81	PASS	30-150
CCV4	CCV	1	15924.5	15482.9	102.85	PASS	30-150
CCB4	CCB	1	15645.3	15482.9	101.05	PASS	30-150
CCV5	CCV	1	16310.4	15482.9	105.34	PASS	30-150
CCB5	CCB	1	16172.5	15482.9	104.45	PASS	30-150
CCV6	CCV	1	16460.5	15482.9	106.31	PASS	30-150
CCB6	CCB	1	16248.1	15482.9	104.94	PASS	30-150
ICSA3	ICSA	1	16686.3	15482.9	107.77	PASS	30-150
ICSAB3	ICSAB	1	16562.9	15482.9	106.98	PASS	30-150
CCV7	CCV	1	16765.3	15482.9	108.28	PASS	30-150
CCB7	CCB	1	16675.2	15482.9	107.7	PASS	30-150
CCV8	CCV	1	16646.3	15482.9	107.51	PASS	30-150
CCB8	CCB	1	16644	15482.9	107.5	PASS	30-150
CCV9	CCV	1	17215.8	15482.9	111.19	PASS	30-150
CCB9	CCB	1	17068.9	15482.9	110.24	PASS	30-150
CCV10	CCV	1	16991.1	15482.9	109.74	PASS	30-150
CCB10	CCB	1	16945.5	15482.9	109.45	PASS	30-150
CCV11	CCV	1	16709.7	15482.9	107.92	PASS	30-150

INTERNAL STANDARD: 241016A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
CCB11	CCB	1	16655.2	15482.9	107.57	PASS	30-150
ICSA4	ICSA	1	16713	15482.9	107.94	PASS	30-150
ICSAB4	ICSAB	1	16799.8	15482.9	108.51	PASS	30-150
CCV12	CCV	1	17218	15482.9	111.21	PASS	30-150
CCB12	CCB	1	17107.9	15482.9	110.5	PASS	30-150
CCV13	CCV	1	16876.5	15482.9	109	PASS	30-150
CCB13	CCB	1	16677.4	15482.9	107.71	PASS	30-150
CCV14	CCV	1	16885.4	15482.9	109.06	PASS	30-150
CCB14	CCB	1	17058.9	15482.9	110.18	PASS	30-150
CCV15	CCV	1	16342.6	15482.9	105.55	PASS	30-150
CCB15	CCB	1	16512.8	15482.9	106.65	PASS	30-150
ICSA5	ICSA	1	16433.9	15482.9	106.14	PASS	30-150
ICSAB5	ICSAB	1	16500.6	15482.9	106.57	PASS	30-150
MB-113224	MBLK	1	16248.1	15482.9	104.94	PASS	30-150
LCS-113224	LCS	1	17007.8	15482.9	109.85	PASS	30-150
N069147-001C	SAMP	1	14014.9	15482.9	90.52	PASS	30-150
N069105-001C	SAMP	1	12739.5	15482.9	82.28	PASS	30-150
N069146-001C	SAMP	1	13822.6	15482.9	89.28	PASS	30-150
N069146-002C	SAMP	1	13460	15482.9	86.93	PASS	30-150
N069146-003B	SAMP	1	15454	15482.9	99.81	PASS	30-150
N069146-003B	SAMP	10	16291.5	15482.9	105.22	PASS	30-150
N069146-005B	SAMP	1	15521.8	15482.9	100.25	PASS	30-150
N069146-005B	SAMP	10	15842.2	15482.9	102.32	PASS	30-150
CCV16	CCV	1	16588.4	15482.9	107.14	PASS	30-150
CCB16	CCB	1	16408.3	15482.9	105.98	PASS	30-150
N069146-006B	SAMP	1	14859	15482.9	95.97	PASS	30-150
N069146-006B	SAMP	10	15411.7	15482.9	99.54	PASS	30-150
N069146-007C	SAMP	1	13173.1	15482.9	85.08	PASS	30-150
N069146-007C	SAMP	10	14767.8	15482.9	95.38	PASS	30-150
N069146-009C	SAMP	1	14279.6	15482.9	92.23	PASS	30-150
N069146-011C	SAMP	1	13952.7	15482.9	90.12	PASS	30-150
N069146-011C	SAMP	10	15785.4	15482.9	101.95	PASS	30-150
N069146-012C	SAMP	1	13969.3	15482.9	90.22	PASS	30-150
N069146-012C	SAMP	10	15249.4	15482.9	98.49	PASS	30-150
CCV17	CCV	1	16312.6	15482.9	105.36	PASS	30-150
CCB17	CCB	1	16043.5	15482.9	103.62	PASS	30-150
N069146-013C	SAMP	1	13946	15482.9	90.07	PASS	30-150
N069146-013C	SAMP	5	15525.2	15482.9	100.27	PASS	30-150
N069146-013C	SAMP	10	15351.7	15482.9	99.15	PASS	30-150
N069146-013C	SAMP	50	15539.6	15482.9	100.37	PASS	30-150
N069146-013C-PS	PS	1	13880.4	15482.9	89.65	PASS	30-150

INTERNAL STANDARD: 241016A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
N069146-013C-PS	PS	10	15115.9	15482.9	97.63	PASS	30-150
N069146-013CMS	MS	1	13834.8	15482.9	89.36	PASS	30-150
N069146-013CMS	MS	10	15248.3	15482.9	98.48	PASS	30-150
N069146-013CMSD	MSD	1	13877.1	15482.9	89.63	PASS	30-150
N069146-013CMSD	MSD	10	15428.4	15482.9	99.65	PASS	30-150
CCV18	CCV	1	16789.8	15482.9	108.44	PASS	30-150
CCB18	CCB	1	16418.2	15482.9	106.04	PASS	30-150
N069147-002C	SAMP	1	13923.7	15482.9	89.93	PASS	30-150
N069147-002C	SAMP	10	15541.9	15482.9	100.38	PASS	30-150
N069147-003C	SAMP	1	14260.7	15482.9	92.11	PASS	30-150
N069147-003C	SAMP	10	15377.3	15482.9	99.32	PASS	30-150
N069147-004C	SAMP	1	14021.6	15482.9	90.56	PASS	30-150
N069147-004C	SAMP	10	15282.7	15482.9	98.71	PASS	30-150
N069147-005C	SAMP	1	13795.9	15482.9	89.1	PASS	30-150
N069147-005C	SAMP	100	15829.9	15482.9	102.24	PASS	30-150
N069147-006C	SAMP	1	15404	15482.9	99.49	PASS	30-150
N069147-006C	SAMP	10	15885.5	15482.9	102.6	PASS	30-150
CCV19	CCV	1	16277	15482.9	105.13	PASS	30-150
CCB19	CCB	1	15943.4	15482.9	102.97	PASS	30-150
ICSA6	ICSA	1	15944.5	15482.9	102.98	PASS	30-150
ICSAB6	ICSAB	1	16172.5	15482.9	104.45	PASS	30-150

SERIAL DILUTION/ POST DIGESTION SPIKE



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ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N069147
 Test Method: EPA 6020
 Analysis Date: 10/17/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 113224

Instrument ID: NV00922-ICP8 (ICPMS-03)
 Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Mn. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069146-013C DT 5x	Arsenic	As	µg/L	3.207192	PASS	3.41695	6.14%	10
N069146-013C DT 5x	Barium	Ba	µg/L	29.39423	PASS	29.23634	0.54%	10
N069146-013C DT 5x	Manganese	Mn	µg/L	6.952814	NA	6.818849	1.96%	10

REVIEWED BY:



10/28/2024

Note: NA - Not Applicable

10/28/24 18:07

N069147_6020_113224_DT

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069147
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID N069146-013C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194443						
Client ID: ZZZZZZ	Batch ID: 113224	TestNo: EPA 6020	EPA 3010A	Analysis Date: 10/17/2024	SeqNo: 6244178						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	13.330	0.10	10.00	3.417	99.1	80	120				
Barium	39.365	1.0	10.00	29.24	101	80	120				
Manganese	95.908	0.50	100.0	6.819	89.1	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

MDL STUDY



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Method Detection Limit

Analytical Method: **EPA 6020B**
 Digestion Method: **3010**
 Date of Analysis: **2/15-2/19/2024**
 Digestion Date: **2/15-2/19/2024**
 Instrument Name: **NV0922-ICP8**
 Analysts: **DJ**

Matrix: **Water**
 Unit: **ug/L**

Analyte	1	2	3	4	5	6	7	AMT SPIKED, ppb	SD	MDLs	PQL	MDL
ANTIMONY	0.543	0.521	0.559	0.527	0.573	0.559	0.572	0.50	0.0208	0.0653	0.50	0.0653
ARSENIC	0.102	0.123	0.107	0.116	0.096	0.161	0.115	0.10	0.0212	0.0668	0.10	0.0668
BARIUM	1.103	1.065	1.083	1.081	1.094	1.066	1.060	1.00	0.0159	0.0499	1.00	0.0499
BERYLLIUM	0.533	0.524	0.557	0.541	0.564	0.565	0.502	0.50	0.0233	0.0733	0.50	0.0733
CADMIUM	0.523	0.562	0.529	0.559	0.491	0.544	0.533	0.50	0.0243	0.0763	0.50	0.0763
CHROMIUM	1.015	0.996	1.000	1.100	1.030	1.081	1.052	1.00	0.0402	0.1264	1.00	0.1264
COBALT	0.524	0.523	0.541	0.559	0.528	0.534	0.551	0.50	0.0138	0.0433	0.50	0.0433
COPPER	1.043	1.028	1.026	1.016	1.068	1.098	1.021	1.00	0.0301	0.0947	1.00	0.0947
IRON	11.041	10.660	10.783	11.168	10.989	10.919	10.802	10.00	0.1734	0.5449	10.00	0.5449
LEAD	1.076	1.068	1.091	1.077	1.083	1.040	1.040	1.00	0.0203	0.0637	1.00	0.0637
MANGANESE	0.558	0.529	0.519	0.541	0.532	0.525	0.554	0.50	0.0148	0.0465	0.50	0.0465
MOLYBDENUM	0.564	0.571	0.574	0.537	0.518	0.554	0.550	0.50	0.0200	0.0629	0.50	0.0629
NICKEL	1.025	1.059	1.057	0.947	0.974	1.069	1.036	1.00	0.0465	0.1461	1.00	0.1461
SELENIUM	0.679	0.622	0.547	0.429	0.439	0.552	0.506	0.50	0.0911	0.2863	0.50	0.2863
SILVER	0.525	0.538	0.555	0.545	0.551	0.530	0.518	0.50	0.0140	0.0439	0.50	0.0439
THALLIUM	0.503	0.493	0.491	0.555	0.525	0.504	0.499	0.50	0.0227	0.0713	0.50	0.0713
URANIUM	0.517	0.513	0.528	0.542	0.526	0.533	0.523	0.50	0.0097	0.0306	0.50	0.0306
VANADIUM	1.081	1.076	1.027	1.054	1.069	1.043	1.080	1.00	0.0209	0.0658	1.00	0.0658
ZINC	10.646	10.643	10.661	10.514	10.927	10.516	10.419	10.00	0.1631	0.5126	10.00	0.7534
ALUMINUM	10.305	10.064	10.146	10.336	10.592	10.459	10.670	10.00	0.2224	0.6990	10.00	0.6990



Method Detection Limit (Blanks)

Analyte	1	2	3	4	5	6	7	Mean	SD	MDLb
ANTIMONY	0.011	0.009	0.001	0.001	0.003	0.018	0.012	0.0080	0.0065	0.0285
ARSENIC	0.021	0.013	0.004	0.008	0.000	0.001	0.000	0.0067	0.0079	0.0316
BARIUM	0.000	0.018	0.014	0.000	0.003	0.001	0.003	0.0054	0.0072	0.0280
BERYLLIUM	0.003	0.005	0.007	0.002	0.005	0.014	0.003	0.0057	0.0039	0.0179
CADMIUM	0.000	0.002	0.000	0.000	0.000	0.001	0.000	0.0004	0.0007	0.0026
CHROMIUM	0.000	0.000	0.000	0.000	0.000	0.001	0.004	0.0008	0.0016	0.0059
COBALT	0.000	0.000	0.000	0.000	0.000	0.003	0.001	0.0006	0.0012	0.0042
COPPER	0.000	0.000	0.069	0.000	0.010	0.000	0.000	0.0113	0.0258	0.0924
IRON	0.000	0.000	0.000	0.236	0.187	0.020	0.112	0.0792	0.0996	0.3922
LEAD	0.001	0.000	0.000	0.002	0.001	0.001	0.001	0.0011	0.0009	0.0037
MANGANESE	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.0008	0.0020	0.0071
MOLYBDENUM	0.017	0.013	0.007	0.015	0.004	0.022	0.009	0.0126	0.0062	0.0321
NICKEL	0.000	0.000	0.062	0.000	0.000	0.017	0.013	0.0132	0.0228	0.0849
SELENIUM	0.007	0.027	0.000	0.000	0.019	0.000	0.013	0.0093	0.0107	0.0428
SILVER	0.004	0.002	0.002	0.000	0.000	0.001	0.000	0.0012	0.0014	0.0057
THALLIUM	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.0003	0.0008	0.0028
URANIUM	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.0001	0.0004	0.0013
VANADIUM	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.0003	0.0004	0.0016
ZINC	0.000	0.000	0.257	0.175	0.513	0.000	0.000	0.1350	0.1968	0.7534
ALUMINUM	0.000	0.000	0.106	0.000	0.000	0.170	0.295	0.0816	0.1160	0.4460

Note: Higher value between **MDLs** and **MDLb** will be used.



LOD PQL VERIFICATION 2024

Analytical Method: EPA 6020 / 200.8
Digestion Method: EPA 3010A
Date of Analysis: 1/20/2024
Digestion Date: 1/20/2024
Instrument Name: ICPMS3
Analysts: DBJ

Matrix: Water
Units: ug/L

N062388

Analyte	MDLs	LOD	ACTUAL LOD	PQL	ACTUAL PQL	% RECOVERY
ANTIMONY	0.0652	0.025	0.288	0.50	0.552	110
ARSENIC	0.0667	0.050	0.055	0.10	0.107	107
BARIUM	0.0498	0.500	0.547	1.00	1.049	105
BERYLLIUM	0.0732	0.250	0.253	0.50	0.502	100
CADMIUM	0.0763	0.250	0.255	0.50	0.498	100
CHROMIUM	0.1263	0.500	0.536	1.00	1.048	105
COBALT	0.0433	0.250	0.261	0.50	0.518	104
COPPER	0.0946	0.100	0.620	1.00	0.941	94
IRON	0.5444	5.000	5.219	10.00	10.531	105
LEAD	0.0636	0.500	0.513	1.00	1.035	104
MANGANESE	0.0464	0.250	0.261	0.50	0.602	120
MOLYBDENUM	0.0628	0.250	0.275	0.50	0.534	107
NICKEL	0.1460	0.500	0.492	1.00	1.184	118
SELENIUM	0.2861	0.250	0.272	0.50	0.536	107
SILVER	0.0438	0.250	0.277	0.50	0.534	107
THALLIUM	0.0712	0.250	0.264	0.50	0.508	102
URANIUM	0.0306	0.250	0.261	0.50	0.523	105
VANADIUM	0.0657	0.500	0.557	1.00	1.063	106
ZINC	0.5121	5.000	5.394	10.00	10.481	105
ALUMINUM	0.6983	5.000	5.519	10.00	10.395	104

ARCADIS

Project: PG&E Topock - PCM

Project No.: 30211191

ASSET Laboratories Work Order:

N069445

ANALYTICAL and QC RESULTS SAMPLE RECEIVING ITEMS

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November 08, 2024

Laura Madsen
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661
TEL: 1 720 344 3771
FAX:

Workorder No.: N069445

RE: PG&E Topock - PCM, 30211191

Attention: Laura Madsen

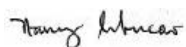
Enclosed are the results for sample(s) received on October 24, 2024 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

The reported results relate only to the samples as received and parameters tested by the laboratory.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,



Nancy Sibucan
Laboratory Director

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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30211191
Lab Order: N069445

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.



CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30211191
Lab Order: N069445
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N069445-001A	PTI-1D-1024	Groundwater	10/24/2024 1:05:00 PM	10/24/2024	11/8/2024
N069445-001B	PTI-1D-1024	Groundwater	10/24/2024 1:05:00 PM	10/24/2024	11/8/2024
N069445-001C	PTI-1D-1024	Groundwater	10/24/2024 1:05:00 PM	10/24/2024	11/8/2024



ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 08-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069445
Project: PG&E Topock - PCM, 30211191
Lab ID: N069445-001

Client Sample ID: PTI-1D-1024
Collection Date: 10/24/2024 1:05:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: NV00922-IC7_241028A	QC Batch: R194895		PrepDate:		Analyst: RAB		
Hexavalent Chromium	2.4	0.039	0.20		µg/L	1	10/28/2024 11:36 AM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID MB-R194895	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194895							
Client ID: PBW	Batch ID: R194895	TestNo: EPA 218.6		Analysis Date: 10/28/2024	SeqNo: 6268962							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.039	0.20									

Sample ID LCS-R194895	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194895							
Client ID: LCSW	Batch ID: R194895	TestNo: EPA 218.6		Analysis Date: 10/28/2024	SeqNo: 6268963							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.733	0.039	0.20	5.000	0	94.7	90	110				

Sample ID N069445-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194895							
Client ID: ZZZZZ	Batch ID: R194895	TestNo: EPA 218.6		Analysis Date: 10/28/2024	SeqNo: 6268965							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	3.514	0.039	0.20	1.000	2.430	108	90	110				

Sample ID N069445-001AMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194895							
Client ID: ZZZZZ	Batch ID: R194895	TestNo: EPA 218.6		Analysis Date: 10/28/2024	SeqNo: 6268966							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	3.440	0.039	0.20	1.000	2.430	101	90	110	3.514	2.12	20	

Sample ID N069445-001ADUP	SampType: DUP	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194895							
Client ID: ZZZZZ	Batch ID: R194895	TestNo: EPA 218.6		Analysis Date: 10/28/2024	SeqNo: 6268967							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.552	0.039	0.20						2.430	4.89	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069444-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194895							
Client ID: ZZZZZZ	Batch ID: R194895	TestNo: EPA 218.6		Analysis Date: 10/28/2024	SeqNo: 6268975							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.704	0.19	1.0	5.000	0	94.1	90	110				

Sample ID N069444-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194895							
Client ID: ZZZZZZ	Batch ID: R194895	TestNo: EPA 218.6		Analysis Date: 10/28/2024	SeqNo: 6268977							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.699	0.19	1.0	5.000	0	94.0	90	110				

Sample ID N069444-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194895							
Client ID: ZZZZZZ	Batch ID: R194895	TestNo: EPA 218.6		Analysis Date: 10/28/2024	SeqNo: 6268981							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.743	0.19	1.0	5.000	0	94.9	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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ANALYTICAL RESULTS

Print Date: 08-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069445
Project: PG&E Topock - PCM, 30211191
Lab ID: N069445-001

Client Sample ID: PTI-1D-1024
Collection Date: 10/24/2024 1:05:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP4_241030D	QC Batch: 113723			PrepDate: 10/30/2024		Analyst: DJ	
Iron	92	5.8	20	µg/L	1	10/30/2024 04:20 PM	
TOTAL METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP4_241030E	QC Batch: 113725			PrepDate: 10/30/2024		Analyst: DJ	
Iron	100	5.8	20	µg/L	1	10/30/2024 05:01 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID MB-113723	SampType: MBLK	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 10/30/2024	RunNo: 195005							
Client ID: PBW	Batch ID: 113723	TestNo: EPA 6010B EPA 3010A		Analysis Date: 10/30/2024	SeqNo: 6276178							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	ND	5.8	20									

Sample ID LCS-113723	SampType: LCS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 10/30/2024	RunNo: 195005							
Client ID: LCSW	Batch ID: 113723	TestNo: EPA 6010B EPA 3010A		Analysis Date: 10/30/2024	SeqNo: 6276179							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	112.430	5.8	20	100.0	0	112	85	115				

Sample ID N069445-001B-MS	SampType: MS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 10/30/2024	RunNo: 195005							
Client ID: ZZZZZ	Batch ID: 113723	TestNo: EPA 6010B EPA 3010A		Analysis Date: 10/30/2024	SeqNo: 6276183							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	214.800	5.8	20	100.0	91.98	123	75	125				

Sample ID N069445-001B-MSD	SampType: MSD	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 10/30/2024	RunNo: 195005							
Client ID: ZZZZZ	Batch ID: 113723	TestNo: EPA 6010B EPA 3010A		Analysis Date: 10/30/2024	SeqNo: 6276184							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	204.750	5.8	20	100.0	91.98	113	75	125	214.8	4.79	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPGEPB

Sample ID MB-113725	SampType: MBLK	TestCode: 6010_WPGE	Units: µg/L	Prep Date: 10/30/2024	RunNo: 195007							
Client ID: PBW	Batch ID: 113725	TestNo: EPA 6010B EPA 3010A		Analysis Date: 10/30/2024	SeqNo: 6276370							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 8.420 5.8 20

Sample ID LCS-113725	SampType: LCS	TestCode: 6010_WPGE	Units: µg/L	Prep Date: 10/30/2024	RunNo: 195007							
Client ID: LCSW	Batch ID: 113725	TestNo: EPA 6010B EPA 3010A		Analysis Date: 10/30/2024	SeqNo: 6276371							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 110.830 5.8 20 100.0 0 111 85 115

Sample ID N069445-001C-MS	SampType: MS	TestCode: 6010_WPGE	Units: µg/L	Prep Date: 10/30/2024	RunNo: 195007							
Client ID: ZZZZZ	Batch ID: 113725	TestNo: EPA 6010B EPA 3010A		Analysis Date: 10/30/2024	SeqNo: 6276375							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 218.790 5.8 20 100.0 100.1 119 75 125

Sample ID N069445-001C-MSD	SampType: MSD	TestCode: 6010_WPGE	Units: µg/L	Prep Date: 10/30/2024	RunNo: 195007							
Client ID: ZZZZZ	Batch ID: 113725	TestNo: EPA 6010B EPA 3010A		Analysis Date: 10/30/2024	SeqNo: 6276376							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 210.960 5.8 20 100.0 100.1 111 75 125 218.8 3.64 20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID N069445-001B-PS	SampType: PS	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005							
Client ID: ZZZZZ	Batch ID: 113723	TestNo: EPA 6010B EPA 3010A	Analysis Date: 10/30/2024	SeqNo: 6276182								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	209.600	5.8	20	100.0	91.98	118	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPGEPB

Sample ID N069445-001C-PS	SampType: PS	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 195007							
Client ID: ZZZZZZ	Batch ID: 113725	TestNo: EPA 6010B EPA 3010A	Analysis Date: 10/30/2024	SeqNo: 6276374								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	218.310	5.8	20	100.0	100.1	118	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
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ICP-Metals in Water

Work Order No.: N069445
 Test Method: EPA 6010B
 Analysis Date: 10/30/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 113723

Instrument ID: NV00922-ICP4
 Instrument Description: Agilent 5800VDV

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Fe. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069445-001B DT 5x	Iron	Fe	µg/L	86.2	NA	91.98	6.28%	10

Note: NA - Not Applicable

11/08/24 17:29

N069445_6010B_113723_DT

ASSET Laboratories

ICP-Metals in Water

Work Order No.: N069445
Test Method: EPA 6010B
Analysis Date: 10/30/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 113725

Instrument ID: NV00922-ICP4
Instrument Description: Agilent 5800VDV

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Fe. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069445-001C DT 5x	Iron	Fe	µg/L	94	NA	100.06	6.06%	10

Note: NA - Not Applicable

11/08/24 17:31

N069445_6010B_113725_DT

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 08-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069445
Project: PG&E Topock - PCM, 30211191
Lab ID: N069445-001

Client Sample ID: PTI-1D-1024
Collection Date: 10/24/2024 1:05:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A			EPA 6020			
RunID: NV00922-ICP8_241030D	QC Batch: 113638			PrepDate:	10/29/2024	Analyst: DJ	
Manganese	580	0.46	5.0		µg/L	10	10/30/2024 10:05 PM
TOTAL METALS BY ICPMS							
	EPA 3010A			EPA 6020			
RunID: NV00922-ICP8_241030G	QC Batch: 113640			PrepDate:	10/28/2024	Analyst: DJ	
Manganese	590	0.46	5.0		µg/L	10	10/31/2024 12:52 AM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
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 - (M) Test is modified



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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID MB-113638	SampType: MBLK	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/29/2024	RunNo: 194972							
Client ID: PBW	Batch ID: 113638	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/29/2024	SeqNo: 6274044							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	ND	0.046	0.50									

Sample ID LCS-113638	SampType: LCS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/29/2024	RunNo: 194972							
Client ID: LCSW	Batch ID: 113638	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/29/2024	SeqNo: 6274045							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	96.234	0.046	0.50	100.0	0	96.2	85	115				

Sample ID N069263-001B-MS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/29/2024	RunNo: 195051							
Client ID: ZZZZZ	Batch ID: 113638	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/30/2024	SeqNo: 6278640							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	552.697	0.46	5.0	100.0	460.6	92.1	75	125				

Sample ID N069263-001B-MSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/29/2024	RunNo: 195051							
Client ID: ZZZZZ	Batch ID: 113638	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/30/2024	SeqNo: 6278641							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	570.970	0.46	5.0	100.0	460.6	110	75	125	552.7	3.25	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W_TPK

Sample ID MB-113640	SampType: MBLK	TestCode: 6020_W_TPK	Units: µg/L	Prep Date: 10/28/2024	RunNo: 195057							
Client ID: PBW	Batch ID: 113640	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/31/2024	SeqNo: 6279079							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.046 0.50

Sample ID LCS-113640	SampType: LCS	TestCode: 6020_W_TPK	Units: µg/L	Prep Date: 10/28/2024	RunNo: 195057							
Client ID: LCSW	Batch ID: 113640	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/31/2024	SeqNo: 6279080							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese 93.999 0.046 0.50 100.0 0 94.0 85 115

Sample ID N069263-001C-MS	SampType: MS	TestCode: 6020_W_TPK	Units: µg/L	Prep Date: 10/28/2024	RunNo: 195057							
Client ID: ZZZZZ	Batch ID: 113640	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/31/2024	SeqNo: 6279084							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese 569.929 0.46 5.0 100.0 484.3 85.7 75 125

Sample ID N069263-001C-MSD	SampType: MSD	TestCode: 6020_W_TPK	Units: µg/L	Prep Date: 10/28/2024	RunNo: 195057							
Client ID: ZZZZZ	Batch ID: 113640	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/31/2024	SeqNo: 6279085							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese 573.141 0.46 5.0 100.0 484.3 88.9 75 125 569.9 0.562 20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID	N069263-001B-PS	SampType:	PS	TestCode:	6020_DIS_TP	Units:	µg/L	Prep Date:		RunNo:	195051			
Client ID:	ZZZZZ	Batch ID:	113638	TestNo:	EPA 6020		EPA 3010A	Analysis Date:	10/30/2024	SeqNo:	6278639			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese		1352.698		0.46	5.0	1000	460.6	89.2	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W_TPK

Sample ID N069263-001C-PS	SampType: PS	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 195057							
Client ID: ZZZZZZ	Batch ID: 113640	TestNo: EPA 6020	EPA 3010A	Analysis Date: 10/31/2024	SeqNo: 6279083							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	1372.314	0.46	5.0	1000	484.3	88.8	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |



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ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N069445
Test Method: EPA 6020
Analysis Date: 10/30/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 113638

Instrument ID: NV00922-ICP8 (ICPMS-03)
Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069263-001B DT 50x	Manganese	Mn	µg/L	443.7973	PASS	460.5615	3.64%	10

Note: NA - Not Applicable

11/08/24 17:34

N069445_6020_113638_DT

ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N069445
Test Method: EPA 6020
Analysis Date: 10/30/2024

Dilution Test Summary

Matrix: Extract
Batch No.: 113640

Instrument ID: NV00922-ICP8 (ICPMS-03)
Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069263-001C DT 50x	Manganese	Mn	µg/L	494.5205	PASS	484.2531	2.12%	10

Note: NA - Not Applicable

11/08/24 17:36

N069445_6020_113640_DT

SAMPLE RECEIVING ITEMS



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Page 1 of 1

Client: Arcadis		Report to: Laura Madsen		Bill to: Janet Newman		EDD Requirement				QA/QC		Sample Receipt Condition	
Address: 630 Plaza Dr, Suite 200		Company: Arcadis		Address:		Excel EDD		RTNE		Geotracker		RWQCB <input checked="" type="checkbox"/>	
Address: Highlands Ranch, CO 80129		Email: laura.madsen@arcadis.com		Address:		Labspec		CalTrans		Others		LEVEL III	
Phone: 918-786-3302		Fax:		Address:		Specify: RWQCB		LEVEL IV		Regulatory		LEVEL III	
Submitted By:		Address:		Email to: janet.newman@arcadis.com		P.O.#		Global ID:		Specify State:		6. Method of Cooling:	
Title: Environmental Tech		Phone: 720-344-3771		Fax:		Phone: +1 949 293-2445		Fax:		Global ID:		Specify State:	
Signature: <i>Cameron Stone</i>		Date: 10-24-24		Sampled By: <i>Cameron Stone</i>		Date: 10-24-24		I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.		Project Name: PG&E Topock - PCM		Signature: <i>Cameron Stone</i>	
Project Number: 30211191		Date: 10-24-24		Signature: <i>Cameron Stone</i>		Date: 10-24-24		I hereby authorize ASSET Labs to perform the tests indicated below.		Project Number: 30211191		Date: 10-24-24	
Matrix		Ground		X Sediment		250 mL poly		1 L poly		500mL poly		500mL poly	
Potable		Soil		NPDES		Other Solid		Surface		3x40 mL VOA		500mL poly	
Sample ID/Location		Sample Date		Sample Time		Others		Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH		Nitrite, Nitrate, sulfate (EPA 300.0)		Dissolved metals (SW6020) FF; HNO3 Iron, Manganese	
Item No.		Laboratory Work Order No.		Sample ID/Location		Sample Date		Sample Time		Others		Dissolved metals (SW6020) FF; HNO3 Total Dissolved Chromium, Selenium, Molybdenum	
1		N069445-001		PTI-1D-1024		10/24/24		1305				Total Organic Carbon (SM5310C); H2SO4	
2												Total metals (SW6010) No filter; HNO3 Total Iron and manganese	
3												Nitrate/Nitrite as Nitrogen (SM4500NH3); H2SO4	
4												Nitrate, sulfate (EPA 300.0)	
5												Nitrate (EPA 300.0)	
6												Turn Around Time	
7												No. of Container	
8												Container Type	
9												PRESERVATION	
10												Remarks	
11													
12													
13													
14													
Relinquished by (Signature and Printed Name): <i>Cameron Stone</i>		Date/Time: 10/24/24		Relinquished by (Signature and Printed Name): <i>Michael McEntern</i>		Date/Time: 10/24/24		Turn Around Time (TAT)		Special Instruction:			
Relinquished by (Signature and Printed Name): <i>Michael McEntern</i>		Date/Time: 10/24/24		Relinquished by (Signature and Printed Name): <i>Benjamin Benjamin</i>		Date/Time: 10/24/24		<input type="checkbox"/> A < 24 Hrs or Same Day TAT <input type="checkbox"/> B = Next Workday <input type="checkbox"/> C = 2 Workdays <input type="checkbox"/> D = 3 Workdays <input checked="" type="checkbox"/> E = Routine 5-7 Workdays					
Relinquished by (Signature and Printed Name): <i>[Signature]</i>		Date/Time:		Relinquished by (Signature and Printed Name): <i>[Signature]</i>		Date/Time:		TAT Starts at 8 AM the following day if samples received after 3:00PM.					
Terms		5. Trip Blanks and Equipment Blanks are billable sample.		6. Asset Laboratories is not responsible for samples collected using incorrect methodology.		7. Terms are net 30 days.		Preservatives:		Container Type:			
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.		6. Asset Laboratories is not responsible for samples collected using incorrect methodology.		7. Terms are net 30 days.		8. All reports are furnished in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.		H=HCL N=HNO3 S=H2SO4 C=4°C		T=Tube V=VOA P=Pint			
2. Regular TAT in 5-7 business days, surcharges will apply for rush analysis		7. Terms are net 30 days.		8. All reports are furnished in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.		9. For subcontract analysis, TAT and Surcharges will vary.		Z=Zn(AC)2 O=NaOH T=Na2S2O3		J=Jar B=Tedlar G=Glass			
3. Custom EDO formats will be an additional 3% of the total project price.		8. All reports are furnished in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.		9. For subcontract analysis, TAT and Surcharges will vary.				Others/Specify: B (NH4)2SO4/NH4OH		M=Metal		C=Car	
4. Add 10% surcharge for Level II Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project price.		9. For subcontract analysis, TAT and Surcharges will vary.											

White=Laboratory Copy

Yellow=Customer's Copy

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On: 10/24/2024 Workorder: N069445
 Rep sample Temp (Deg C): 3.0 IR Gun ID: 4
 Temp Blank: Yes No
 Carrier name: ASSET
 Last 4 digits of Tracking No.: NA Packing Material Used: None
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

- | | | | |
|---|--|--|--|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 14. Water - pH acceptable upon receipt?
Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 15. Did the bottle labels indicate correct preservatives used? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 16. Were there Non-Conformance issues at login?
Was Client notified? | Yes <input type="checkbox"/>
Yes <input type="checkbox"/> | No <input type="checkbox"/>
No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>
NA <input checked="" type="checkbox"/> |

Comments:

Checklist Completed By: EF *Efanegof* 10/25/2024

Reviewed By: for: *J. Mayhew* YR 10/25/2024

ASSET Laboratories

WORK ORDER Summary

25-Oct-24

WorkOrder: N069445

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30211191

QC Level: Level IV

Date Received: 10/24/2024 4:58 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N069445-001A	PTI-1D-1024	10/24/2024 1:05:00 PM	11/8/2024	Groundwater	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069445-001B			11/8/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/8/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/8/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/8/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069445-001C			11/8/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/8/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/8/2024		EPA 6010B	TOTAL METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/8/2024		EPA 6020	TOTAL METALS BY ICPMS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069445-002A	FOLDER	11/8/2024	11/8/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			11/8/2024		Folder	Level IV Report	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			11/8/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

List of Analysts

ASSET Laboratories Work Order: N069445

NAME	TEST METHOD
Ria Abes	EPA 218.6
Diane Jetajobe	EPA 6010B_Dissolved, EPA 6010B_Total, EPA 6020_Dissolved, EPA 6020_Total



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EPA 218.6



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IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
 REV 2.0
 011416

QC Batch Number: R194895
 ASSET #: N069445

Instrument ID: NV00922-IC7
 Analyst: RBA
 Date Analyzed: 10/28/2024

Method:

- | | | | |
|--------------------------|-----------|-------------------------------------|------------------------|
| <input type="checkbox"/> | EPA 300.0 | <input checked="" type="checkbox"/> | EPA 218.6/EPA 218.7 |
| <input type="checkbox"/> | EPA 7199 | <input type="checkbox"/> | EPA 218.6/EPA 218.7 LL |
| | | <input type="checkbox"/> | Others _____ |

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria? (r = 0.995, r = 0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)	X			X		
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?	X			X		
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?	X			X		
12. Duplicate sample injections for every sample. (7199 only)			X	X		X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)	X					X
14. For Hinkley DOM samples, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)	X			X		
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments: **Please see CAR 8224**

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA Date: _____
 2nd Level Reviewer Alrocha 11/3/2024 Date: _____

SAMPLE CALCULATION



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Sample Calculation

METHOD: EPA 218.6
TEST NAME: HEXAVALENT CHROMIUM BY IC
MATRIX: Groundwater

FORMULA:

Calculate the Hexavalent Chromium concentration, in $\mu\text{g/L}$, in the original sample as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = A * \text{DF}$$

where:

A = $\mu\text{g/L}$, IC Cr+6 calculated concentration
DF = dilution factor

For Sample **N069445-001A**, the concentration in $\mu\text{g/L}$ is calculated as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = 2.4299 * 1$$

$$\text{Cr}^{+6}, \mu\text{g/L} = 2.4299$$

Reporting results in two significant figures,

$$\text{Cr}^{+6}, \mu\text{g/L} = 2.4$$

Reviewed by:

dRecha 11/26/2024

ANALYSIS RUN LOG



ASSET LABORATORIES
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INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	ICV	ICV	1	Hexavalent Chromium	10/28/24 10:49 AM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/28/24 10:59 AM	Reported
11	ICB	ICB	1	Hexavalent Chromium	10/28/24 11:08 AM	Reported
12	MB-R194895	MBLK	1	Hexavalent Chromium	10/28/24 11:17 AM	Reported
13	LCS-R194895	LCS	1	Hexavalent Chromium	10/28/24 11:27 AM	Reported
14	N069445-001A	SAMP	1	Hexavalent Chromium	10/28/24 11:36 AM	Reported
15	N069445-001AMS	MS	1	Hexavalent Chromium	10/28/24 11:46 AM	Reported
16	N069445-001AMSD	MSD	1	Hexavalent Chromium	10/28/24 11:55 AM	Reported
17	N069445-001ADUP	DUP	1	Hexavalent Chromium	10/28/24 12:05 PM	Reported
18	N069453-001A	SAMP	1	Hexavalent Chromium	10/28/24 12:14 PM	Reported
19	N069453-002A	SAMP	1	Hexavalent Chromium	10/28/24 12:24 PM	Reported
20	N069453-003A	SAMP	1	Hexavalent Chromium	10/28/24 12:33 PM	Reported
21	N069453-004A	SAMP	1	Hexavalent Chromium	10/28/24 12:43 PM	Reported
22	CCV-1	CCV1	1	Hexavalent Chromium	10/28/24 12:52 PM	Reported
23	CCB-1	CCB	1	Hexavalent Chromium	10/28/24 1:02 PM	Reported
24	N069444-001A	SAMP	1	Hexavalent Chromium	10/28/24 1:11 PM	NOT Reported
25	N069444-001AMS	MS	1	Hexavalent Chromium	10/28/24 1:20 PM	NOT Reported
26	N069444-002A	SAMP	1	Hexavalent Chromium	10/28/24 1:30 PM	NOT Reported
27	N069444-002AMS	MS	1	Hexavalent Chromium	10/28/24 1:39 PM	NOT Reported
28	N069444-003A	SAMP	1	Hexavalent Chromium	10/28/24 1:49 PM	Not Reported
29	N069444-003AMS	MS	1	Hexavalent Chromium	10/28/24 1:58 PM	Not Reported
30	N069444-001A	SAMP	5	Hexavalent Chromium	10/28/24 2:08 PM	Not Reported
31	N069444-001AMS	MS	5	Hexavalent Chromium	10/28/24 2:17 PM	Not Reported
32	N069444-002A	SAMP	5	Hexavalent Chromium	10/28/24 2:27 PM	Not Reported
33	N069444-002AMS	MS	5	Hexavalent Chromium	10/28/24 2:36 PM	Not Reported
34	CCV-2	CCV	1	Hexavalent Chromium	10/28/24 2:46 PM	Reported
35	CCB-2	CCB	1	Hexavalent Chromium	10/28/24 2:55 PM	Reported
36	N069444-003A	SAMP	5	Hexavalent Chromium	10/28/24 3:04 PM	Reported
37	N069444-003AMS	MS	5	Hexavalent Chromium	10/28/24 3:14 PM	Reported
38	N069233-009A	SAMP	5	Hexavalent Chromium	10/28/24 3:23 PM	Not Reported
39	N069233-009AMS	MS	5	Hexavalent Chromium	10/28/24 3:33 PM	Not Reported
40	N069233-015A	SAMP	5	Hexavalent Chromium	10/28/24 3:42 PM	Not Reported
41	N069233-015AMS	MS	5	Hexavalent Chromium	10/28/24 3:52 PM	Not Reported
42	CCV-3	CCV1	1	Hexavalent Chromium	10/28/24 4:01 PM	Reported

INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	CCB-3	CCB	1	Hexavalent Chromium	10/28/24 4:11 PM	Reported
44	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 4:20 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241028A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	28/Oct/24 16:50:54
No. of Injections:	47	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	ICV,ICV,1,	9	1000	Unknown		10/28/2024 10:49	Finished	ICV @5ppb, IWST-240729B
10	PQL @0.2ppb,CCV2,	10	1000	Unknown		10/28/2024 10:59	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		10/28/2024 11:08	Finished	ICB R240926A
12	MB-H2O,MBLK,1,	12	1000	Unknown		10/28/2024 11:17	Finished	MB R240926A
13	LCS-H2O,LCS,1,	13	1000	Unknown		10/28/2024 11:27	Finished	LCS @5ppb, IWST-240729B
14	N069445-001A,SAMP	14	1000	Unknown		10/28/2024 11:36	Finished	SAMP,10 mL
15	N069445-001AMS,MS	15	1000	Unknown		10/28/2024 11:46	Finished	MS (1ppb), IWST-240729B,10r
16	N069445-001AMSD,N	16	1000	Unknown		10/28/2024 11:55	Finished	MSD (1ppb), IWST-240729B,1
17	N069445-001ADUP,D	17	1000	Unknown		10/28/2024 12:05	Finished	DUP,10 mL
18	N069453-001A,SAMP	18	1000	Unknown		10/28/2024 12:14	Finished	SAMP,10 mL
19	N069453-002A,SAMP	19	1000	Unknown		10/28/2024 12:24	Finished	SAMP,10 mL
20	N069453-003A,SAMP	20	1000	Unknown		10/28/2024 12:33	Finished	SAMP,10 mL
21	N069453-004A,SAMP	21	1000	Unknown		10/28/2024 12:43	Finished	SAMP,10 mL
22	CCV-1,CCV1,1,	22	1000	Unknown		10/28/2024 12:52	Finished	CCV @10ppb, IWST-240729A
23	CCB-1,CCB,1,	23	1000	Unknown		10/28/2024 13:02	Finished	CCB R240926A
24	N069444-001A,SAMP	24	1000	Unknown		10/28/2024 13:11	Finished	SAMP,10 mL
25	N069444-001AMS,MS	25	1000	Unknown		10/28/2024 13:20	Finished	MS (1ppb), IWST-240729B,10r
26	N069444-002A,SAMP	26	1000	Unknown		10/28/2024 13:30	Finished	SAMP,10 mL
27	N069444-002AMS,MS	27	1000	Unknown		10/28/2024 13:39	Finished	MS (1ppb), IWST-240729B,10r
28	N069444-003A,SAMP	28	1000	Unknown		10/28/2024 13:49	Finished	SAMP,10 mL
29	N069444-003AMS,MS	29	1000	Unknown		10/28/2024 13:58	Finished	MS (1ppb), IWST-240729B,10r
30	N069444-001A,SAMP	30	1000	Unknown		10/28/2024 14:08	Finished	SAMP,2>10 mL
31	N069444-001AMS,MS	31	1000	Unknown		10/28/2024 14:17	Finished	MS (1ppb), IWST-240729B,2>
32	N069444-002A,SAMP	32	1000	Unknown		10/28/2024 14:27	Finished	SAMP,2>10 mL
33	N069444-002AMS,MS	33	1000	Unknown		10/28/2024 14:36	Finished	MS (1ppb), IWST-240729B,2>
34	CCV-2,CCV,1,	34	1000	Unknown		10/28/2024 14:46	Finished	CCV @5ppb, IWST-240729A
35	CCB-2,CCB,1,	35	1000	Unknown		10/28/2024 14:55	Finished	CCB R240926A
36	N069444-003A,SAMP	36	1000	Unknown		10/28/2024 15:04	Finished	SAMP,2>10 mL
37	N069444-003AMS,MS	37	1000	Unknown		10/28/2024 15:14	Finished	MS (1ppb), IWST-240729B,2>
38	N069233-009A,SAMP	38	1000	Unknown		10/28/2024 15:23	Finished	SAMP,2>10 mL
39	N069233-009AMS,MS	39	1000	Unknown		10/28/2024 15:33	Finished	MS (1ppb), IWST-240729B,2>
40	N069233-015A,SAMP	40	1000	Unknown		10/28/2024 15:42	Finished	SAMP,2>10 mL
41	N069233-015AMS,MS	41	1000	Unknown		10/28/2024 15:52	Finished	MS (1ppb), IWST-240729B,2>
42	CCV-3,CCV1,1,	42	1000	Unknown		10/28/2024 16:01	Finished	CCV @10ppb, IWST-240729A
43	CCB-3,CCB,1,	43	1000	Unknown		10/28/2024 16:11	Finished	CCB R240926A
44	BLANK	44	1000	Unknown		10/28/2024 16:20	Finished	BLANK
45	SHUTDOWN	45	1000	Unknown		10/28/2024 16:30	Finished	
46	Eluent: R241025A	46	1000	Unknown		n.a.	Finished	
47	PCR: R241025B	47	1000	Unknown		n.a.	Finished	

SAMPLE PREPARATION LOG



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Hexavalent Chromium Preparation and Runlog

Sample Preparation

Date Prepared: 11/9/24
 Time Prepared: 0724H
 Prepared By: WT

Reagent ID:
 Sulfuric Acid: 16020 pH meter ID: 01
 Diphenylcarbazide: 16810
 NH4OH + NH4SO4 eluent: N24111A
 NH4OH + NH4SO4 buffer: N241001A

	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	<u>N069840-58</u>	<u>9.72</u>	<u>-</u>	<u>-100ul</u>	<u>-200ul</u>		
2)	<u>N069840-58</u>						
3)							
4)							
5)							
6)							
7)							
8)							
9)							
10)							
11)							
12)							
13)							
14)							
15)							

Sample Preparation

Date Prepared: 10/28/24
 Time Prepared: 1033A
 Prepared By: WT

Reagent ID:
 Sulfuric Acid: 16020 pH meter ID: 01
 Diphenylcarbazide: 16810
 NH4OH + NH4SO4 eluent: N241074A
 NH4OH + NH4SO4 buffer: N240926A

	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	<u>N069444-10</u>	<u>9.30</u>	<u>-</u>	<u>-100ul</u>	<u>-200ul</u>		
2)	<u>2A</u>	<u>9.31</u>	<u>-</u>				
3)	<u>3A</u>	<u>9.34</u>	<u>-</u>				
4)	<u>N069445-10</u>	<u>9.39</u>					
5)							
6)							
7)							
8)							
9)							
10)							
11)							
12)							
13)							
14)							
15)							

Logbook No. 26



ASSET LABORATORIES

ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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INITIAL CALIBRATION DATA SUMMARY



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(EPA 218.6) - INITIAL CALIBRATION

Instrument ID: NV00922-IC7
Date Calibrated: 10/28/2024

Initial Calibration:

Hexavalent Chromium	STD1	STD2	STD3	STD4	STD5	STD6	
COMPOUND, in ug/L	0.2	1	5	10	15	20	R ²
Area,mAU*min	0.0527	0.2779	1.4196	2.8235	4.2553	5.6829	1.0000
Measured, in ug/L	0.185700	0.979400	5.002800	9.950700	14.996600	20.027700	
Relative Error (%RE)	-7.2%		0.1%				

	Stock	Working
Standard Concentration:	1,000,000 PPB	1,000 PPB
Standard ID:	ISST-240705H	IWST-240729A

Calibration Acceptance Criteria: > 0.999 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194895						
Client ID: ICV	Batch ID: R194895	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6268959							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.730	0.20	5.000	0	94.6	90	110				

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194895						
Client ID: ZZZZZ	Batch ID: R194895	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6268960							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.211	0.20	0.2000	0	106	80	120				

Sample ID CCV-1	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194895						
Client ID: ZZZZZ	Batch ID: R194895	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6268972							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	10.006	0.20	10.00	0	100	95	105				

Sample ID CCV-2	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194895						
Client ID: CCV	Batch ID: R194895	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6268978							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.994	0.20	5.000	0	99.9	95	105				

Sample ID CCV-3	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194895						
Client ID: ZZZZZ	Batch ID: R194895	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6268982							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.022	0.20	5.000	0	100	95	105				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194895
Client ID: ICB	Batch ID: R194895	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6268961	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-1	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194895
Client ID: CCB	Batch ID: R194895	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6268973	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-2	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194895
Client ID: CCB	Batch ID: R194895	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6268979	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-3	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194895
Client ID: CCB	Batch ID: R194895	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6268983	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

RETENTION TIME SUMMARY



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RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/28/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.740	
CCV-2	5.740	
CCV-3	5.740	

Average 5.740
Actual RT Window 5.660 - 5.820
Applied RT Window 5.540 - 5.940

MB-R194895	N.A.	N.A.
LCS-R194895	5.740	PASS
N069445-001A	5.581	PASS
N069445-001AMS	5.573	PASS
N069445-001AMSD	5.573	PASS
N069445-001ADUP	5.573	PASS
N069453-001A	5.740	PASS
N069453-002A	5.740	PASS
N069453-003A	5.723	PASS
N069453-004A	5.731	PASS
N069444-001A	N.A.	N.A.
N069444-001AMS	5.581	PASS
N069444-002A	N.A.	N.A.
N069444-002AMS	5.565	PASS
N069444-003A	N.A.	N.A.
N069444-003AMS	5.573	PASS
N069444-001A	N.A.	N.A.
N069444-001AMS	5.715	PASS
N069444-002A	N.A.	N.A.
N069444-002AMS	5.715	PASS
N069444-003A	N.A.	N.A.
N069444-003AMS	5.715	PASS
N069233-009A	5.740	PASS
N069233-009AMS	5.740	PASS
N069233-015A	5.740	PASS

Reviewed by:

dMocha 11/3/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/28/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.740	
CCV-2	5.740	
CCV-3	5.740	

Average 5.740

Actual RT Window 5.660 - 5.820

Applied RT Window 5.540 - 5.940

N069233-015AMS	5.740	PASS
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Reviewed by:

d/Rocha 11/3/2024

CORRECTIVE ACTION DOCUMENTATION



ASSET LABORATORIES
ANALYTICAL SERVICES FOR ENVIRONMENTAL INDUSTRIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

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ASSET Laboratories

Corrective Action Report (CAR)

Date Initiated: 26-Nov-24

Corrective Action Report ID: 8224

Initiated By: Ria Abes

Department: II-1(Cr6)

Corrective Action Description

CAR Summary: Not alternating CCV spike amounts for Cr6+

Description of Nonconformance: Run of Cr6+ in IC-07_241028A was not alternating 5 ppb and 10 ppb CCV spike amounts. Unintentional error was committed by analyst.

Description of Corrective Action: Carefully double check the spike amounts when running a batch.

Performed By: Mara Ailyn Rocha

Completion Date: 26-Nov-24

Client Notification

Client Notification Required: No

Notified By:

Comment:

Quality Assurance Review

Corrective Action: Deficiency

Further Action required by QA:

Approval and Closure

CAR Closed By:

Close Date:

QA Reviewed By:

_____ *Mara Rocha*

Mara Ailyn Rocha

QA Date: 26-Nov-24

MDL STUDY



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METHOD DETECTION LIMIT (Spiked)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): 10/4/2022, 11/15/2022, 1/4/2023, 3/1/2023, 4/4/2023, 5/16/2023, 7/10/2023, 8/2/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: ug/L

Instrument Name: **IC-07**

Datafile 221004A D12 221115A D12 230104A D11 230301C D14 230404A D11 230516A D11 230710A D12 230802A D11

Analyte	#1	#2	#3	#4	#5	#6	#7	#8	Spike Conc., ug/L	SD	t _(n-1) value	MDLs	PQL
Hexavalent Chromium	0.199	0.194	0.169	0.190	0.167	0.194	0.201	0.185	0.20	0.0129	2.998	0.0387	0.20

METHOD DETECTION LIMIT (Blanks)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Instrument Name: **IC-07**

Analyte	MDLb	#of Records
Hexavalent Chromium	0.00	166

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

RAW DATA



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INITIAL CALIBRATION



ASSET LABORATORIES
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INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	ICV	ICV	1	Hexavalent Chromium	10/28/24 10:49 AM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/28/24 10:59 AM	Reported
11	ICB	ICB	1	Hexavalent Chromium	10/28/24 11:08 AM	Reported
12	MB-R194895	MBLK	1	Hexavalent Chromium	10/28/24 11:17 AM	Reported
13	LCS-R194895	LCS	1	Hexavalent Chromium	10/28/24 11:27 AM	Reported
14	N069445-001A	SAMP	1	Hexavalent Chromium	10/28/24 11:36 AM	Reported
15	N069445-001AMS	MS	1	Hexavalent Chromium	10/28/24 11:46 AM	Reported
16	N069445-001AMSD	MSD	1	Hexavalent Chromium	10/28/24 11:55 AM	Reported
17	N069445-001ADUP	DUP	1	Hexavalent Chromium	10/28/24 12:05 PM	Reported
18	N069453-001A	SAMP	1	Hexavalent Chromium	10/28/24 12:14 PM	Reported
19	N069453-002A	SAMP	1	Hexavalent Chromium	10/28/24 12:24 PM	Reported
20	N069453-003A	SAMP	1	Hexavalent Chromium	10/28/24 12:33 PM	Reported
21	N069453-004A	SAMP	1	Hexavalent Chromium	10/28/24 12:43 PM	Reported
22	CCV-1	CCV1	1	Hexavalent Chromium	10/28/24 12:52 PM	Reported
23	CCB-1	CCB	1	Hexavalent Chromium	10/28/24 1:02 PM	Reported
24	N069444-001A	SAMP	1	Hexavalent Chromium	10/28/24 1:11 PM	Reported
25	N069444-001AMS	MS	1	Hexavalent Chromium	10/28/24 1:20 PM	Reported
26	N069444-002A	SAMP	1	Hexavalent Chromium	10/28/24 1:30 PM	Reported
27	N069444-002AMS	MS	1	Hexavalent Chromium	10/28/24 1:39 PM	Reported
28	N069444-003A	SAMP	1	Hexavalent Chromium	10/28/24 1:49 PM	Not Reported
29	N069444-003AMS	MS	1	Hexavalent Chromium	10/28/24 1:58 PM	Not Reported
30	N069444-001A	SAMP	5	Hexavalent Chromium	10/28/24 2:08 PM	Not Reported
31	N069444-001AMS	MS	5	Hexavalent Chromium	10/28/24 2:17 PM	Not Reported
32	N069444-002A	SAMP	5	Hexavalent Chromium	10/28/24 2:27 PM	Not Reported
33	N069444-002AMS	MS	5	Hexavalent Chromium	10/28/24 2:36 PM	Not Reported
34	CCV-2	CCV	1	Hexavalent Chromium	10/28/24 2:46 PM	Reported
35	CCB-2	CCB	1	Hexavalent Chromium	10/28/24 2:55 PM	Reported
36	N069444-003A	SAMP	5	Hexavalent Chromium	10/28/24 3:04 PM	Reported
37	N069444-003AMS	MS	5	Hexavalent Chromium	10/28/24 3:14 PM	Reported
38	N069233-009A	SAMP	5	Hexavalent Chromium	10/28/24 3:23 PM	Not Reported
39	N069233-009AMS	MS	5	Hexavalent Chromium	10/28/24 3:33 PM	Not Reported
40	N069233-015A	SAMP	5	Hexavalent Chromium	10/28/24 3:42 PM	Not Reported
41	N069233-015AMS	MS	5	Hexavalent Chromium	10/28/24 3:52 PM	Not Reported
42	CCV-3	CCV1	1	Hexavalent Chromium	10/28/24 4:01 PM	Reported

INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	CCB-3	CCB	1	Hexavalent Chromium	10/28/24 4:11 PM	Reported
44	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 4:20 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241028A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	28/Oct/24 16:50:54
No. of Injections:	47	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	ICV,ICV,1,	9	1000	Unknown		10/28/2024 10:49	Finished	ICV @5ppb, IWST-240729B
10	PQL @0.2ppb,CCV2,	10	1000	Unknown		10/28/2024 10:59	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		10/28/2024 11:08	Finished	ICB R240926A
12	MB-H2O,MBLK,1,	12	1000	Unknown		10/28/2024 11:17	Finished	MB R240926A
13	LCS-H2O,LCS,1,	13	1000	Unknown		10/28/2024 11:27	Finished	LCS @5ppb, IWST-240729B
14	N069445-001A,SAMP	14	1000	Unknown		10/28/2024 11:36	Finished	SAMP,10 mL
15	N069445-001AMS,MS	15	1000	Unknown		10/28/2024 11:46	Finished	MS (1ppb), IWST-240729B,10r
16	N069445-001AMSD,N	16	1000	Unknown		10/28/2024 11:55	Finished	MSD (1ppb), IWST-240729B,10r
17	N069445-001ADUP,D	17	1000	Unknown		10/28/2024 12:05	Finished	DUP,10 mL
18	N069453-001A,SAMP	18	1000	Unknown		10/28/2024 12:14	Finished	SAMP,10 mL
19	N069453-002A,SAMP	19	1000	Unknown		10/28/2024 12:24	Finished	SAMP,10 mL
20	N069453-003A,SAMP	20	1000	Unknown		10/28/2024 12:33	Finished	SAMP,10 mL
21	N069453-004A,SAMP	21	1000	Unknown		10/28/2024 12:43	Finished	SAMP,10 mL
22	CCV-1,CCV1,1,	22	1000	Unknown		10/28/2024 12:52	Finished	CCV @10ppb, IWST-240729A
23	CCB-1,CCB,1,	23	1000	Unknown		10/28/2024 13:02	Finished	CCB R240926A
24	N069444-001A,SAMP	24	1000	Unknown		10/28/2024 13:11	Finished	SAMP,10 mL
25	N069444-001AMS,MS	25	1000	Unknown		10/28/2024 13:20	Finished	MS (1ppb), IWST-240729B,10r
26	N069444-002A,SAMP	26	1000	Unknown		10/28/2024 13:30	Finished	SAMP,10 mL
27	N069444-002AMS,MS	27	1000	Unknown		10/28/2024 13:39	Finished	MS (1ppb), IWST-240729B,10r
28	N069444-003A,SAMP	28	1000	Unknown		10/28/2024 13:49	Finished	SAMP,10 mL
29	N069444-003AMS,MS	29	1000	Unknown		10/28/2024 13:58	Finished	MS (1ppb), IWST-240729B,10r
30	N069444-001A,SAMP	30	1000	Unknown		10/28/2024 14:08	Finished	SAMP,2>10 mL
31	N069444-001AMS,MS	31	1000	Unknown		10/28/2024 14:17	Finished	MS (1ppb), IWST-240729B,2>10
32	N069444-002A,SAMP	32	1000	Unknown		10/28/2024 14:27	Finished	SAMP,2>10 mL
33	N069444-002AMS,MS	33	1000	Unknown		10/28/2024 14:36	Finished	MS (1ppb), IWST-240729B,2>10
34	CCV-2,CCV,1,	34	1000	Unknown		10/28/2024 14:46	Finished	CCV @5ppb, IWST-240729A
35	CCB-2,CCB,1,	35	1000	Unknown		10/28/2024 14:55	Finished	CCB R240926A
36	N069444-003A,SAMP	36	1000	Unknown		10/28/2024 15:04	Finished	SAMP,2>10 mL
37	N069444-003AMS,MS	37	1000	Unknown		10/28/2024 15:14	Finished	MS (1ppb), IWST-240729B,2>10
38	N069233-009A,SAMP	38	1000	Unknown		10/28/2024 15:23	Finished	SAMP,2>10 mL
39	N069233-009AMS,MS	39	1000	Unknown		10/28/2024 15:33	Finished	MS (1ppb), IWST-240729B,2>10
40	N069233-015A,SAMP	40	1000	Unknown		10/28/2024 15:42	Finished	SAMP,2>10 mL
41	N069233-015AMS,MS	41	1000	Unknown		10/28/2024 15:52	Finished	MS (1ppb), IWST-240729B,2>10
42	CCV-3,CCV1,1,	42	1000	Unknown		10/28/2024 16:01	Finished	CCV @10ppb, IWST-240729A
43	CCB-3,CCB,1,	43	1000	Unknown		10/28/2024 16:11	Finished	CCB R240926A
44	BLANK	44	1000	Unknown		10/28/2024 16:20	Finished	BLANK
45	SHUTDOWN	45	1000	Unknown		10/28/2024 16:30	Finished	
46	Eluent: R241025A	46	1000	Unknown		n.a.	Finished	
47	PCR: R241025B	47	1000	Unknown		n.a.	Finished	

Reviewed by:

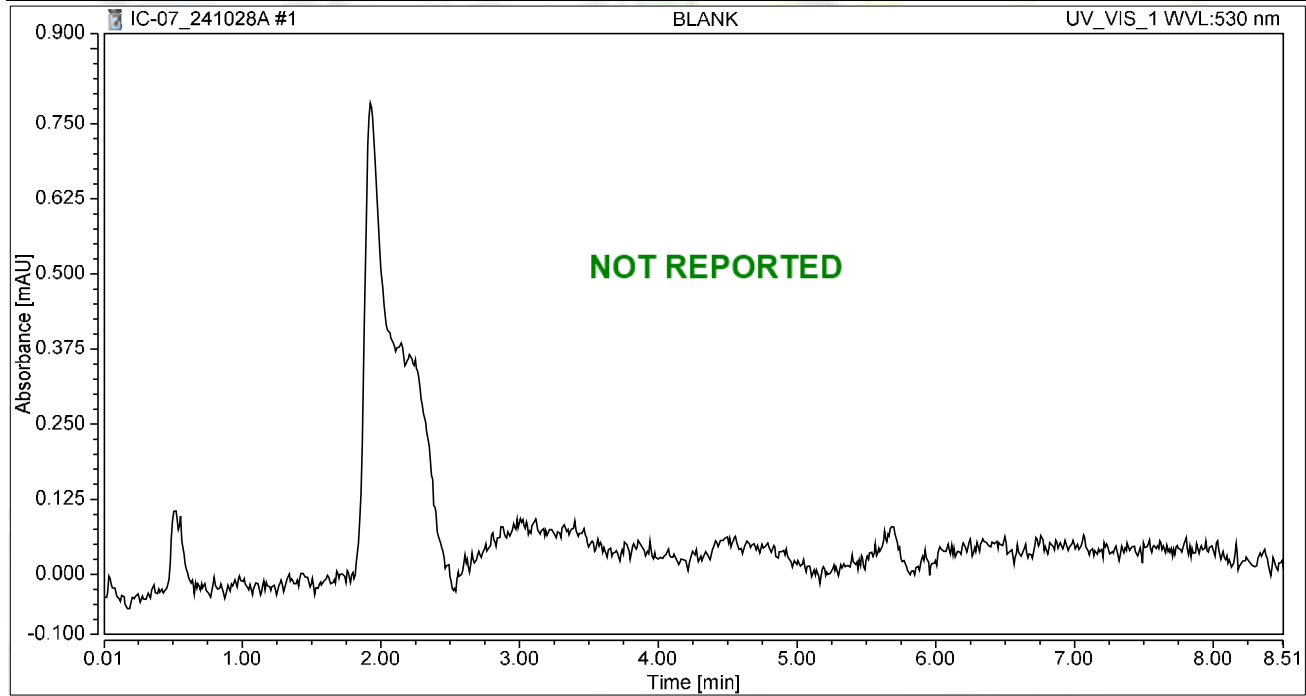
d/rocha 11/3/2024

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 09:30	Sample Weight:	1.0000

Chromatogram



Integration Results

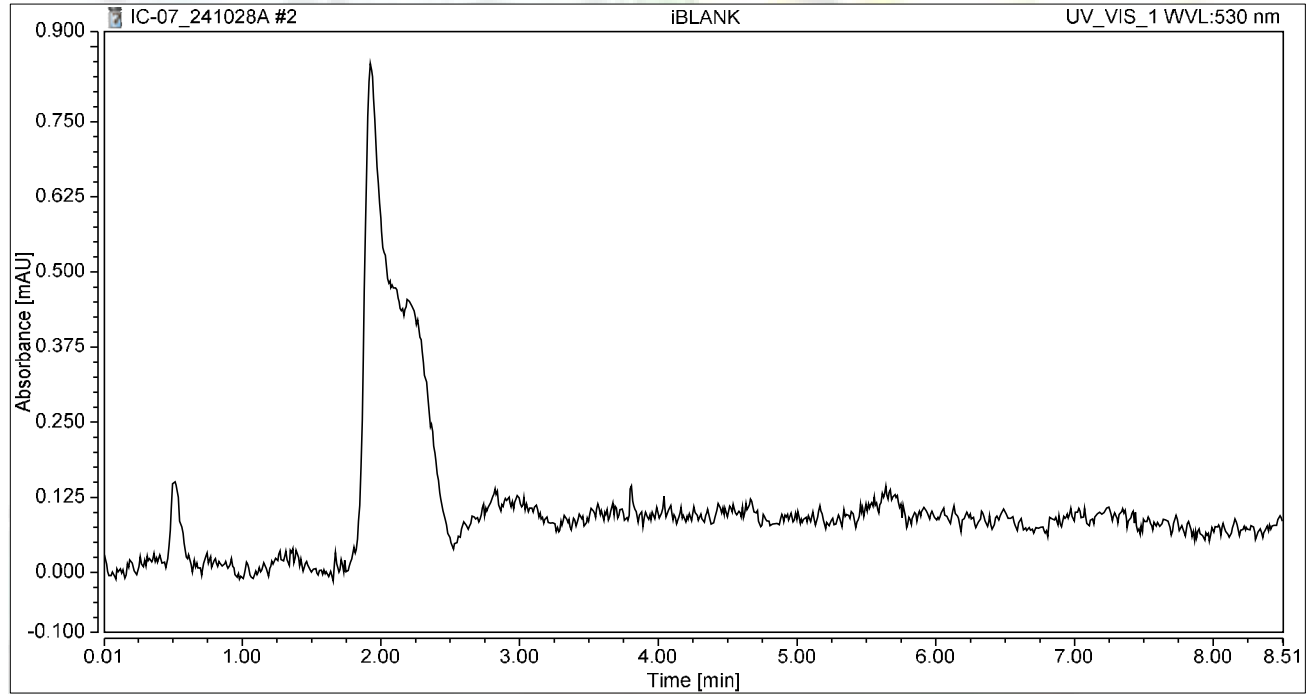
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	iBLANK	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 09:43	Sample Weight:	1.0000

Chromatogram



Integration Results

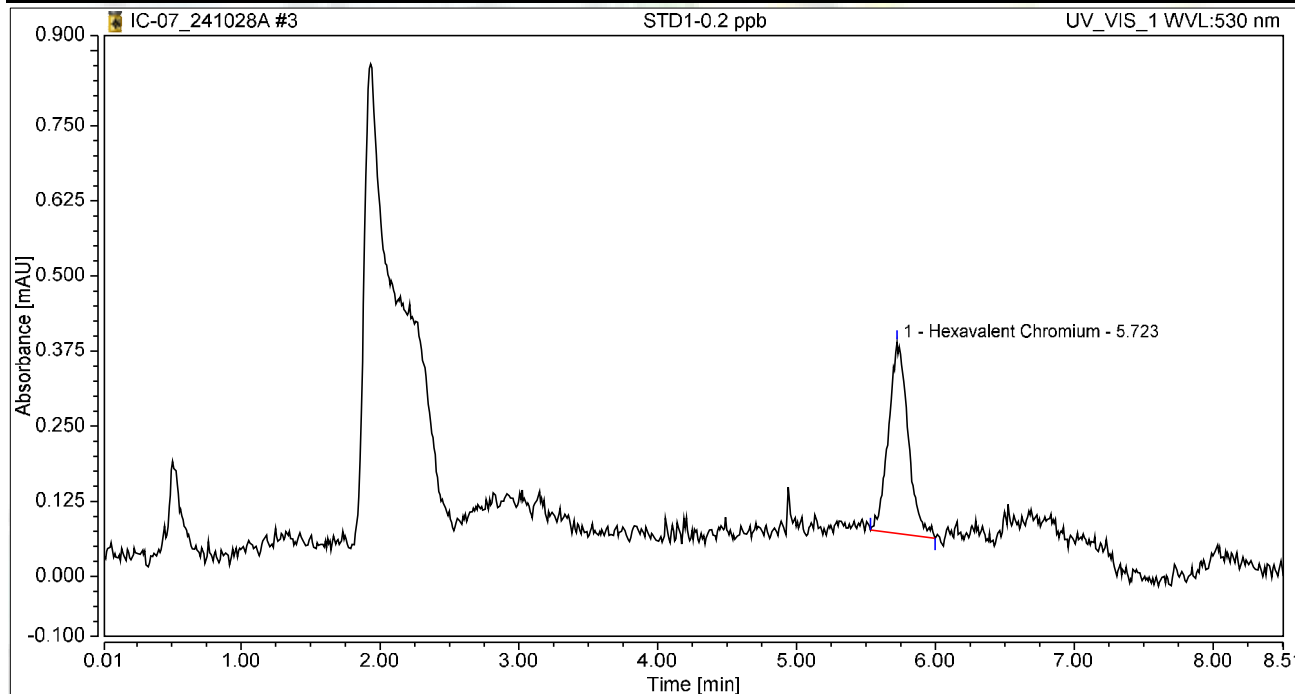
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	STD1-0.2 ppb	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	01	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 09:52	Sample Weight:	1.0000

Chromatogram



Integration Results

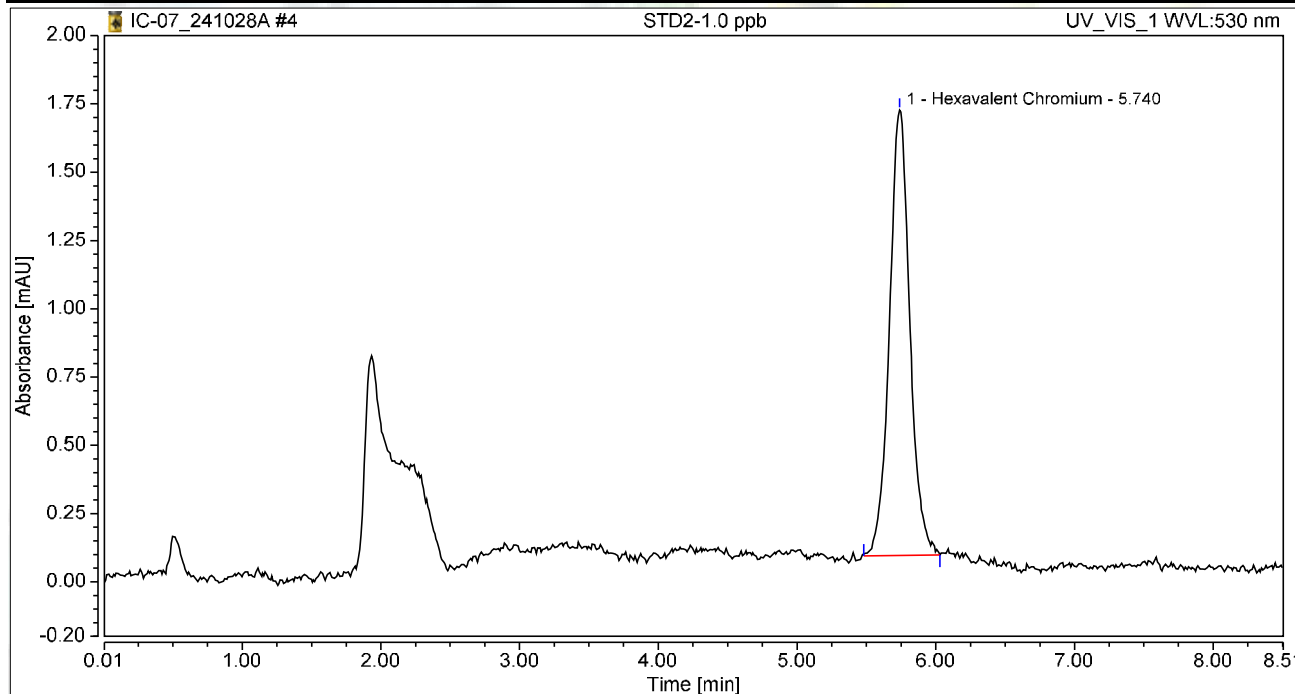
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.053	0.318	100.00	100.00	0.1857
Total:			0.053	0.318	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD2-1.0 ppb	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	02	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:02	Sample Weight:	1.0000

Chromatogram



Integration Results

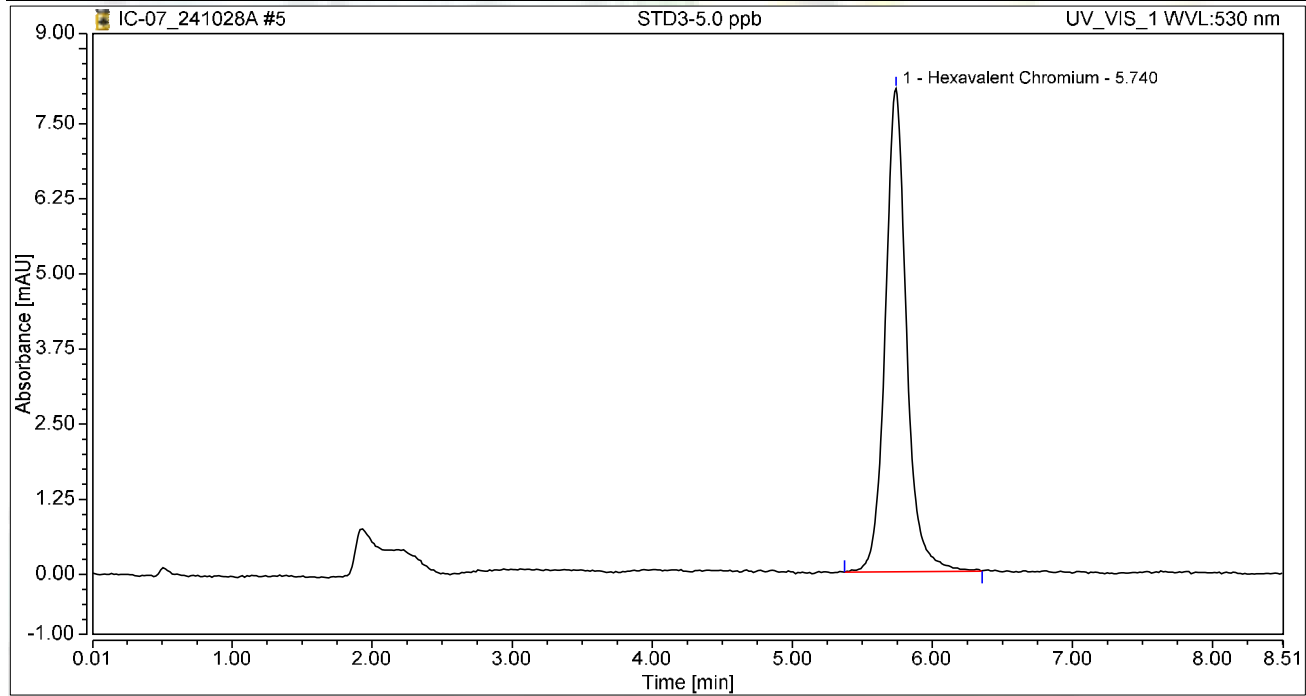
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	0.278	1.631	100.00	100.00	0.9794
Total:			0.278	1.631	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD3-5.0 ppb	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	03	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:11	Sample Weight:	1.0000

Chromatogram



Integration Results

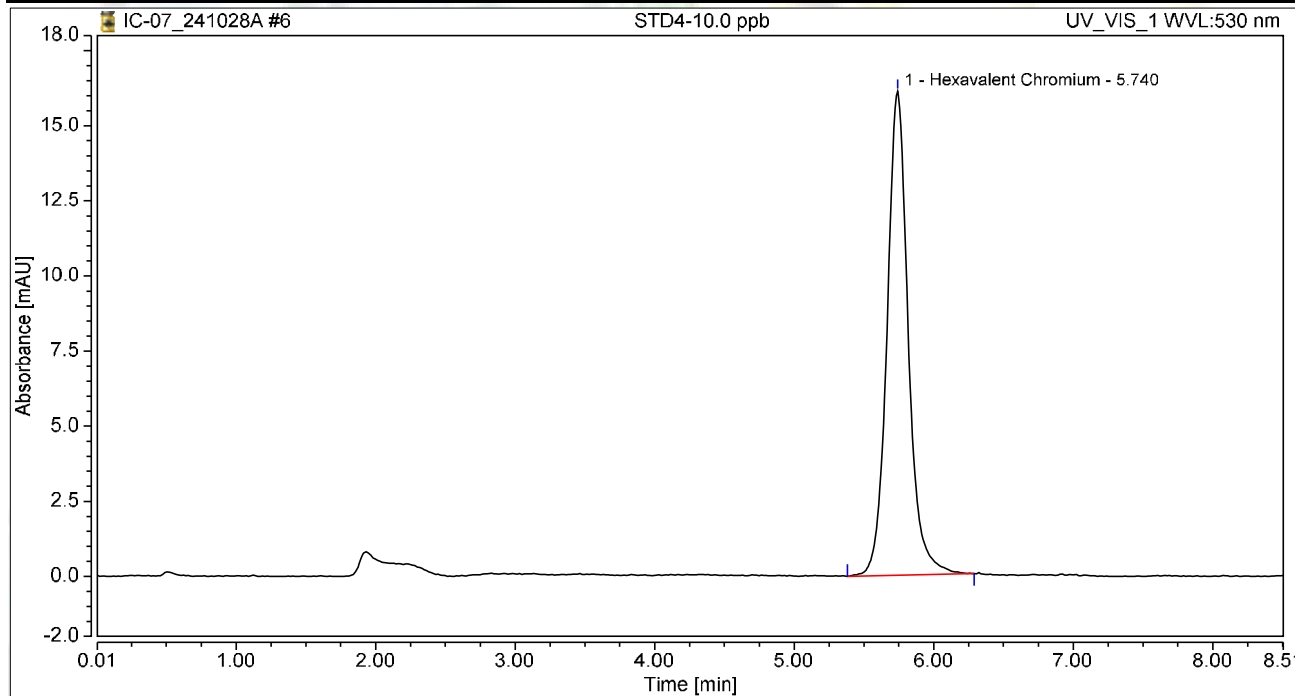
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	1.420	8.039	100.00	100.00	5.0028
Total:			1.420	8.039	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD4-10.0 ppb	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	04	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:21	Sample Weight:	1.0000

Chromatogram



Integration Results

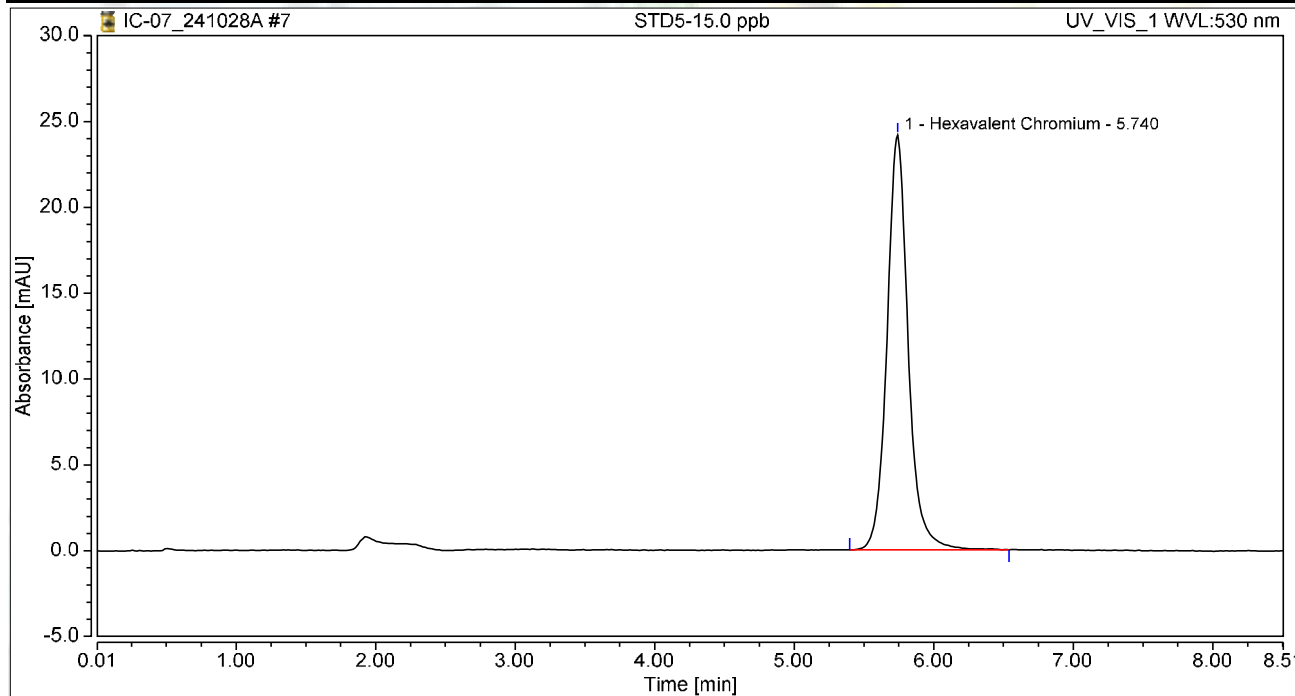
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	2.824	16.106	100.00	100.00	9.9507
Total:			2.824	16.106	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD5-15.0 ppb	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	05	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:30	Sample Weight:	1.0000

Chromatogram



Integration Results

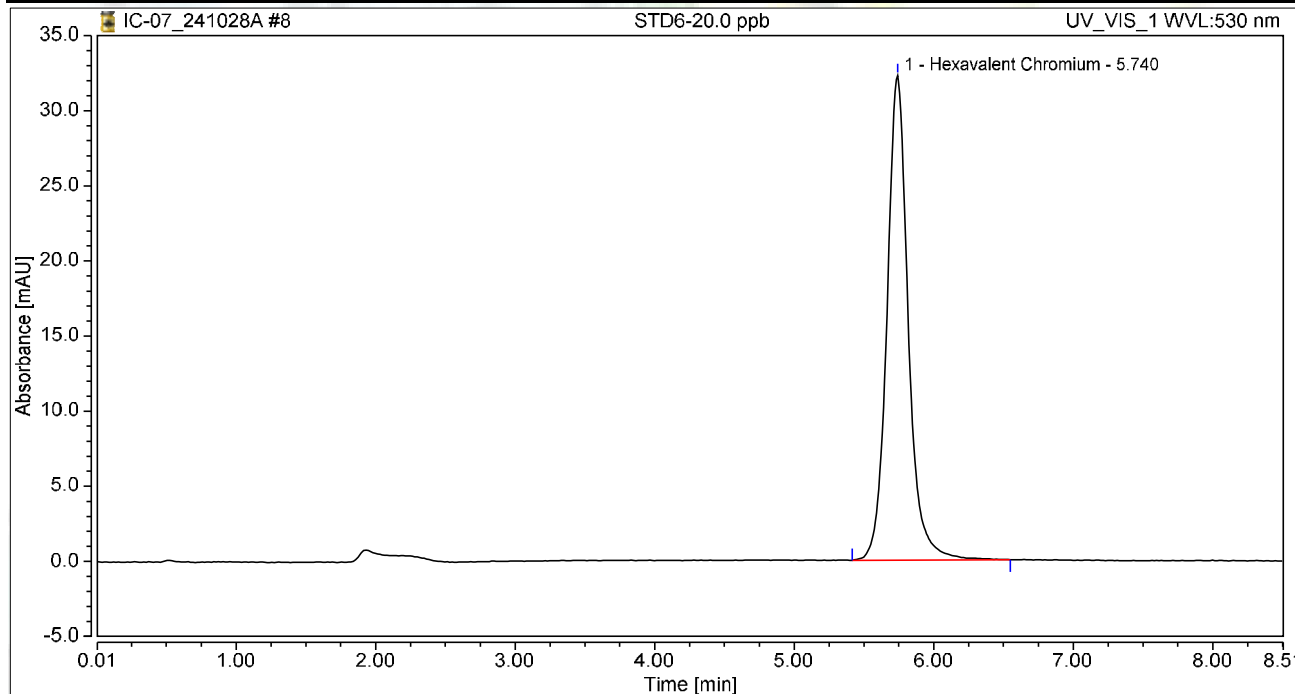
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	4.255	24.168	100.00	100.00	14.9966
Total:			4.255	24.168	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD6-20.0 ppb	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	06	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:40	Sample Weight:	1.0000

Chromatogram



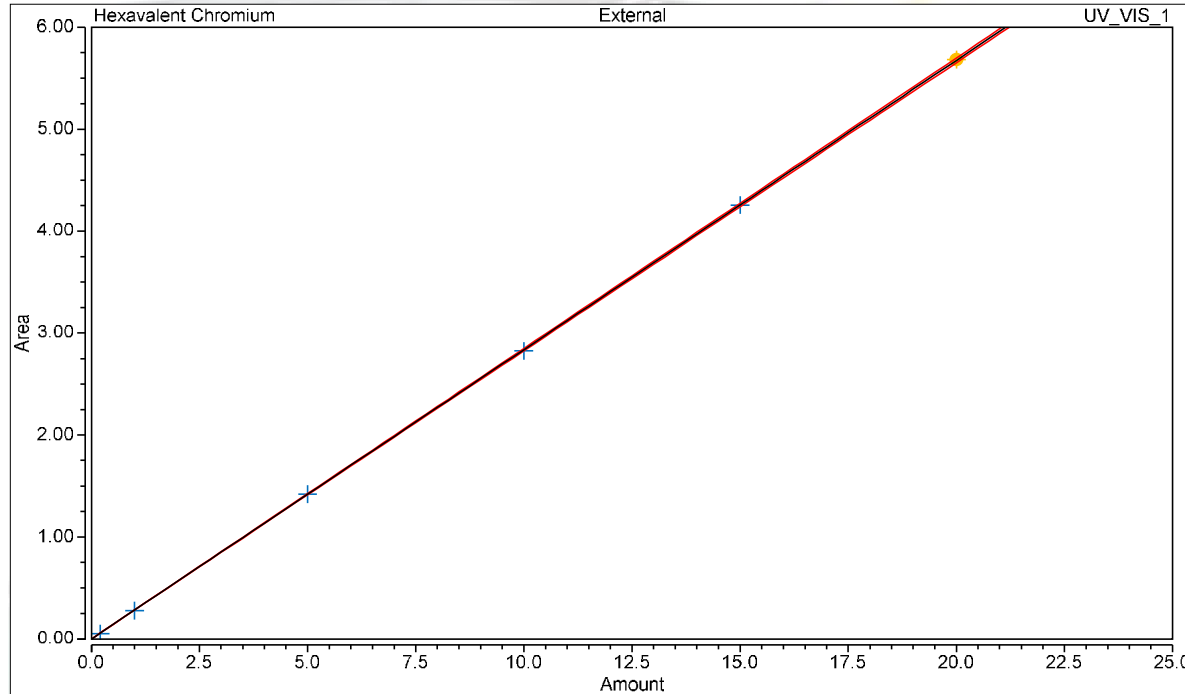
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	5.683	32.257	100.00	100.00	20.0277
Total:			5.683	32.257	100.00	100.00	

Initial Calibration Summary

Calibration Details		Hexavalent Chromium	
Calibration Type	Lin	Offset (C0)	0.0000
Evaluation Type	Area	Slope (C1)	0.2838
Number of Calibration Points	6	Curve (C2)	0.0000
Number of disabled Calibration Points	0	R-Square	0.99999

Calibration Plot Hexavalent Chromium



Calibration Results Hexavalent Chromium

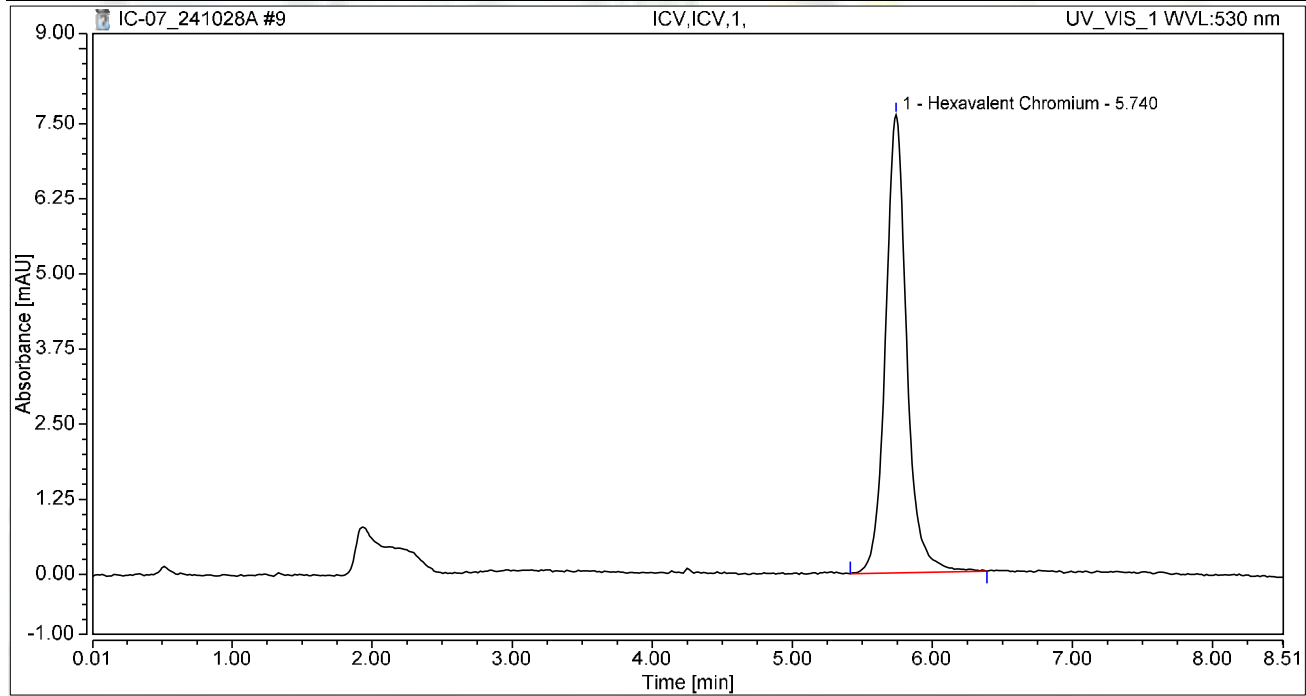
No.	Injection Name	Calibration Level	X Value	Y Value	Area mAU*min	Height mAU
3	STD1-0.2 ppb	01	0.2000	0.0527	0.053	0.318
4	STD2-1.0 ppb	02	1.0000	0.2779	0.278	1.631
5	STD3-5.0 ppb	03	5.0000	1.4196	1.420	8.039
6	STD4-10.0 ppb	04	10.0000	2.8235	2.824	16.106
7	STD5-15.0 ppb	05	15.0000	4.2553	4.255	24.168
8	STD6-20.0 ppb	06	20.0000	5.6829	5.683	32.257

Chromatogram and Results

Injection Details

Injection Name:	ICV,ICV,1,	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:49	Sample Weight:	1.0000

Chromatogram



Integration Results

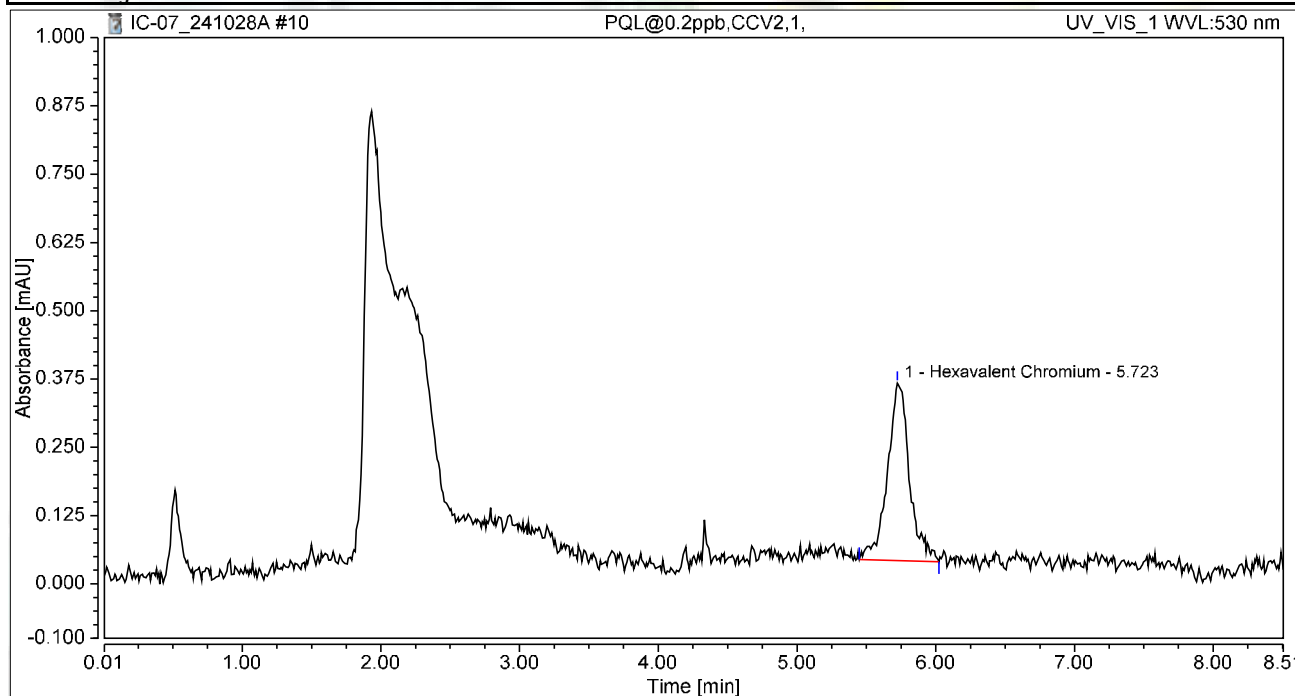
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	1.342	7.624	100.00	100.00	4.7300
Total:			1.342	7.624	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:59	Sample Weight:	1.0000

Chromatogram



Integration Results

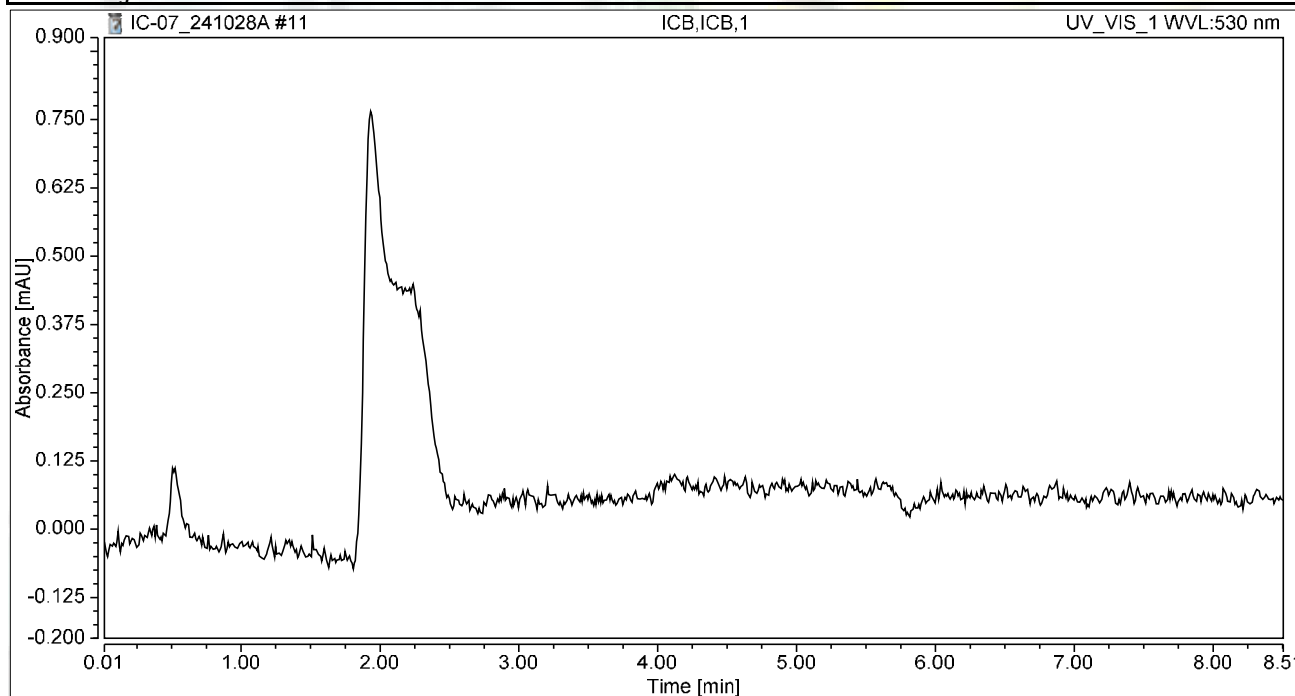
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.060	0.325	100.00	100.00	0.2110
Total:			0.060	0.325	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	ICB,ICB,1	Run Time (min):	8.49
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 11:08	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	



RAW DATA



ASSET LABORATORIES
INTEGRATION • ANALYSIS • REPORTING • SUPPORT

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11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	ICV	ICV	1	Hexavalent Chromium	10/28/24 10:49 AM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/28/24 10:59 AM	Reported
11	ICB	ICB	1	Hexavalent Chromium	10/28/24 11:08 AM	Reported
12	MB-R194895	MBLK	1	Hexavalent Chromium	10/28/24 11:17 AM	Reported
13	LCS-R194895	LCS	1	Hexavalent Chromium	10/28/24 11:27 AM	Reported
14	N069445-001A	SAMP	1	Hexavalent Chromium	10/28/24 11:36 AM	Reported
15	N069445-001AMS	MS	1	Hexavalent Chromium	10/28/24 11:46 AM	Reported
16	N069445-001AMSD	MSD	1	Hexavalent Chromium	10/28/24 11:55 AM	Reported
17	N069445-001ADUP	DUP	1	Hexavalent Chromium	10/28/24 12:05 PM	Reported
18	N069453-001A	SAMP	1	Hexavalent Chromium	10/28/24 12:14 PM	Reported
19	N069453-002A	SAMP	1	Hexavalent Chromium	10/28/24 12:24 PM	Reported
20	N069453-003A	SAMP	1	Hexavalent Chromium	10/28/24 12:33 PM	Reported
21	N069453-004A	SAMP	1	Hexavalent Chromium	10/28/24 12:43 PM	Reported
22	CCV-1	CCV1	1	Hexavalent Chromium	10/28/24 12:52 PM	Reported
23	CCB-1	CCB	1	Hexavalent Chromium	10/28/24 1:02 PM	Reported
24	N069444-001A	SAMP	1	Hexavalent Chromium	10/28/24 1:11 PM	NOT Reported
25	N069444-001AMS	MS	1	Hexavalent Chromium	10/28/24 1:20 PM	NOT Reported
26	N069444-002A	SAMP	1	Hexavalent Chromium	10/28/24 1:30 PM	NOT Reported
27	N069444-002AMS	MS	1	Hexavalent Chromium	10/28/24 1:39 PM	NOT Reported
28	N069444-003A	SAMP	1	Hexavalent Chromium	10/28/24 1:49 PM	Not Reported
29	N069444-003AMS	MS	1	Hexavalent Chromium	10/28/24 1:58 PM	Not Reported
30	N069444-001A	SAMP	5	Hexavalent Chromium	10/28/24 2:08 PM	Not Reported
31	N069444-001AMS	MS	5	Hexavalent Chromium	10/28/24 2:17 PM	Not Reported
32	N069444-002A	SAMP	5	Hexavalent Chromium	10/28/24 2:27 PM	Not Reported
33	N069444-002AMS	MS	5	Hexavalent Chromium	10/28/24 2:36 PM	Not Reported
34	CCV-2	CCV	1	Hexavalent Chromium	10/28/24 2:46 PM	Reported
35	CCB-2	CCB	1	Hexavalent Chromium	10/28/24 2:55 PM	Reported
36	N069444-003A	SAMP	5	Hexavalent Chromium	10/28/24 3:04 PM	Reported
37	N069444-003AMS	MS	5	Hexavalent Chromium	10/28/24 3:14 PM	Reported
38	N069233-009A	SAMP	5	Hexavalent Chromium	10/28/24 3:23 PM	Not Reported
39	N069233-009AMS	MS	5	Hexavalent Chromium	10/28/24 3:33 PM	Not Reported
40	N069233-015A	SAMP	5	Hexavalent Chromium	10/28/24 3:42 PM	Not Reported
41	N069233-015AMS	MS	5	Hexavalent Chromium	10/28/24 3:52 PM	Not Reported
42	CCV-3	CCV1	1	Hexavalent Chromium	10/28/24 4:01 PM	Reported

INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	CCB-3	CCB	1	Hexavalent Chromium	10/28/24 4:11 PM	Reported
44	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 4:20 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241028A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	28/Oct/24 16:50:54
No. of Injections:	47	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	ICV,ICV,1,	9	1000	Unknown		10/28/2024 10:49	Finished	ICV @5ppb, IWST-240729B
10	PQL @0.2ppb,CCV2,	10	1000	Unknown		10/28/2024 10:59	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		10/28/2024 11:08	Finished	ICB R240926A
12	MB-H2O,MBLK,1,	12	1000	Unknown		10/28/2024 11:17	Finished	MB R240926A
13	LCS-H2O,LCS,1,	13	1000	Unknown		10/28/2024 11:27	Finished	LCS @5ppb, IWST-240729B
14	N069445-001A,SAMP	14	1000	Unknown		10/28/2024 11:36	Finished	SAMP,10 mL
15	N069445-001AMS,MS	15	1000	Unknown		10/28/2024 11:46	Finished	MS (1ppb), IWST-240729B,10r
16	N069445-001AMSD,N	16	1000	Unknown		10/28/2024 11:55	Finished	MSD (1ppb), IWST-240729B,10r
17	N069445-001ADUP,D	17	1000	Unknown		10/28/2024 12:05	Finished	DUP,10 mL
18	N069453-001A,SAMP	18	1000	Unknown		10/28/2024 12:14	Finished	SAMP,10 mL
19	N069453-002A,SAMP	19	1000	Unknown		10/28/2024 12:24	Finished	SAMP,10 mL
20	N069453-003A,SAMP	20	1000	Unknown		10/28/2024 12:33	Finished	SAMP,10 mL
21	N069453-004A,SAMP	21	1000	Unknown		10/28/2024 12:43	Finished	SAMP,10 mL
22	CCV-1,CCV1,1,	22	1000	Unknown		10/28/2024 12:52	Finished	CCV @10ppb, IWST-240729A
23	CCB-1,CCB,1,	23	1000	Unknown		10/28/2024 13:02	Finished	CCB R240926A
24	N069444-001A,SAMP	24	1000	Unknown		10/28/2024 13:11	Finished	SAMP,10 mL
25	N069444-001AMS,MS	25	1000	Unknown		10/28/2024 13:20	Finished	MS (1ppb), IWST-240729B,10r
26	N069444-002A,SAMP	26	1000	Unknown		10/28/2024 13:30	Finished	SAMP,10 mL
27	N069444-002AMS,MS	27	1000	Unknown		10/28/2024 13:39	Finished	MS (1ppb), IWST-240729B,10r
28	N069444-003A,SAMP	28	1000	Unknown		10/28/2024 13:49	Finished	SAMP,10 mL
29	N069444-003AMS,MS	29	1000	Unknown		10/28/2024 13:58	Finished	MS (1ppb), IWST-240729B,10r
30	N069444-001A,SAMP	30	1000	Unknown		10/28/2024 14:08	Finished	SAMP,2>10 mL
31	N069444-001AMS,MS	31	1000	Unknown		10/28/2024 14:17	Finished	MS (1ppb), IWST-240729B,2>10
32	N069444-002A,SAMP	32	1000	Unknown		10/28/2024 14:27	Finished	SAMP,2>10 mL
33	N069444-002AMS,MS	33	1000	Unknown		10/28/2024 14:36	Finished	MS (1ppb), IWST-240729B,2>10
34	CCV-2,CCV,1,	34	1000	Unknown		10/28/2024 14:46	Finished	CCV @5ppb, IWST-240729A
35	CCB-2,CCB,1,	35	1000	Unknown		10/28/2024 14:55	Finished	CCB R240926A
36	N069444-003A,SAMP	36	1000	Unknown		10/28/2024 15:04	Finished	SAMP,2>10 mL
37	N069444-003AMS,MS	37	1000	Unknown		10/28/2024 15:14	Finished	MS (1ppb), IWST-240729B,2>10
38	N069233-009A,SAMP	38	1000	Unknown		10/28/2024 15:23	Finished	SAMP,2>10 mL
39	N069233-009AMS,MS	39	1000	Unknown		10/28/2024 15:33	Finished	MS (1ppb), IWST-240729B,2>10
40	N069233-015A,SAMP	40	1000	Unknown		10/28/2024 15:42	Finished	SAMP,2>10 mL
41	N069233-015AMS,MS	41	1000	Unknown		10/28/2024 15:52	Finished	MS (1ppb), IWST-240729B,2>10
42	CCV-3,CCV1,1,	42	1000	Unknown		10/28/2024 16:01	Finished	CCV @10ppb, IWST-240729A
43	CCB-3,CCB,1,	43	1000	Unknown		10/28/2024 16:11	Finished	CCB R240926A
44	BLANK	44	1000	Unknown		10/28/2024 16:20	Finished	BLANK
45	SHUTDOWN	45	1000	Unknown		10/28/2024 16:30	Finished	
46	Eluent: R241025A	46	1000	Unknown		n.a.	Finished	
47	PCR: R241025B	47	1000	Unknown		n.a.	Finished	

Reviewed by:

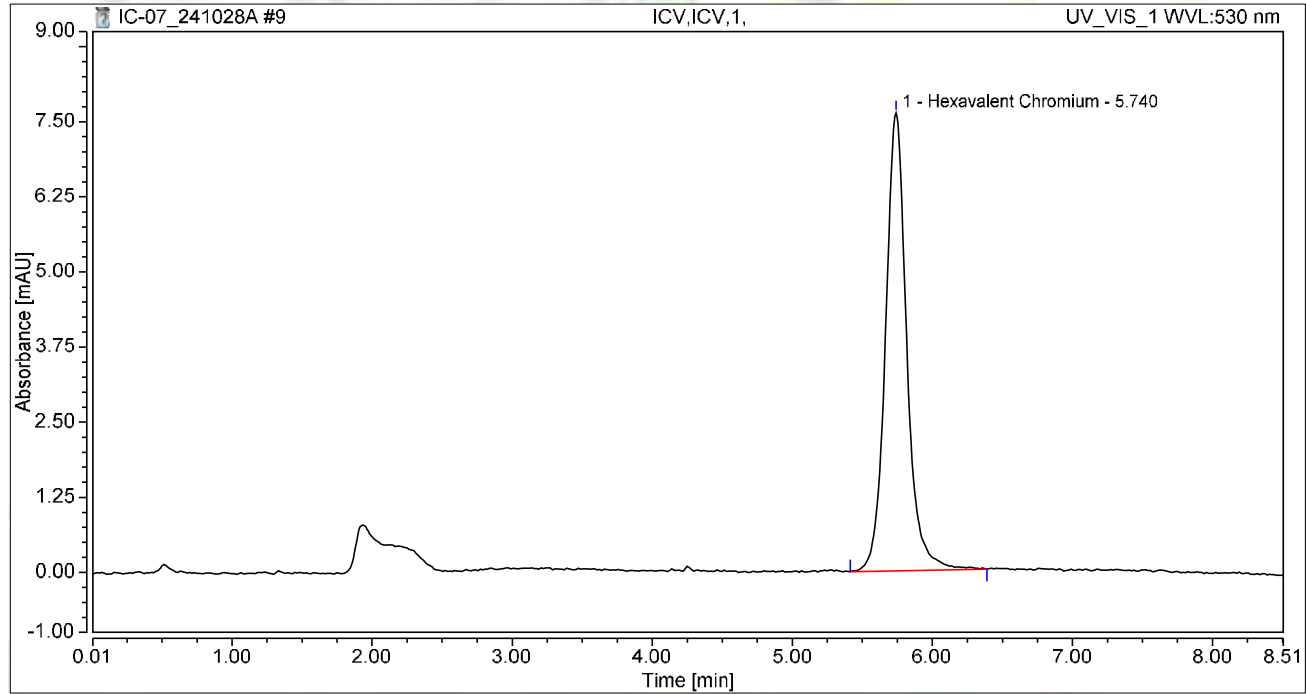
dMocha 11/3/2024

Chromatogram and Results

Injection Details

Injection Name:	ICV,ICV,1,	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:49	Sample Weight:	1.0000

Chromatogram



Integration Results

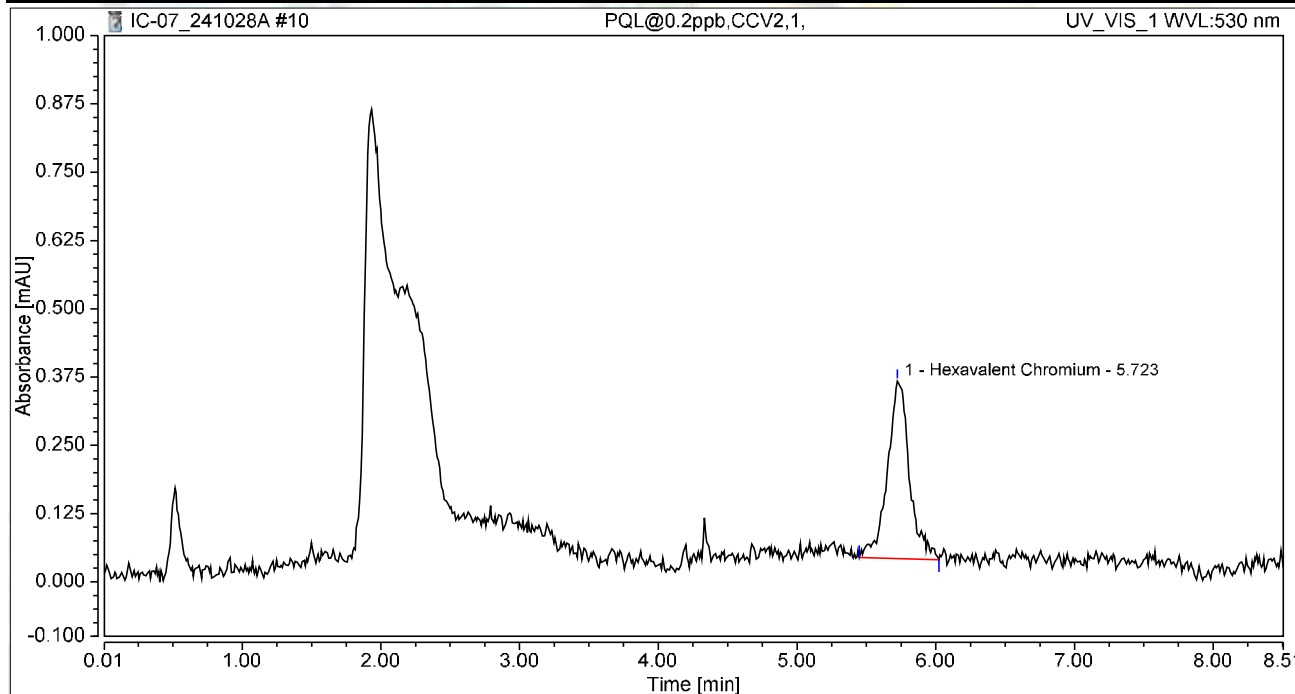
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	1.342	7.624	100.00	100.00	4.7300
Total:			1.342	7.624	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:59	Sample Weight:	1.0000

Chromatogram



Integration Results

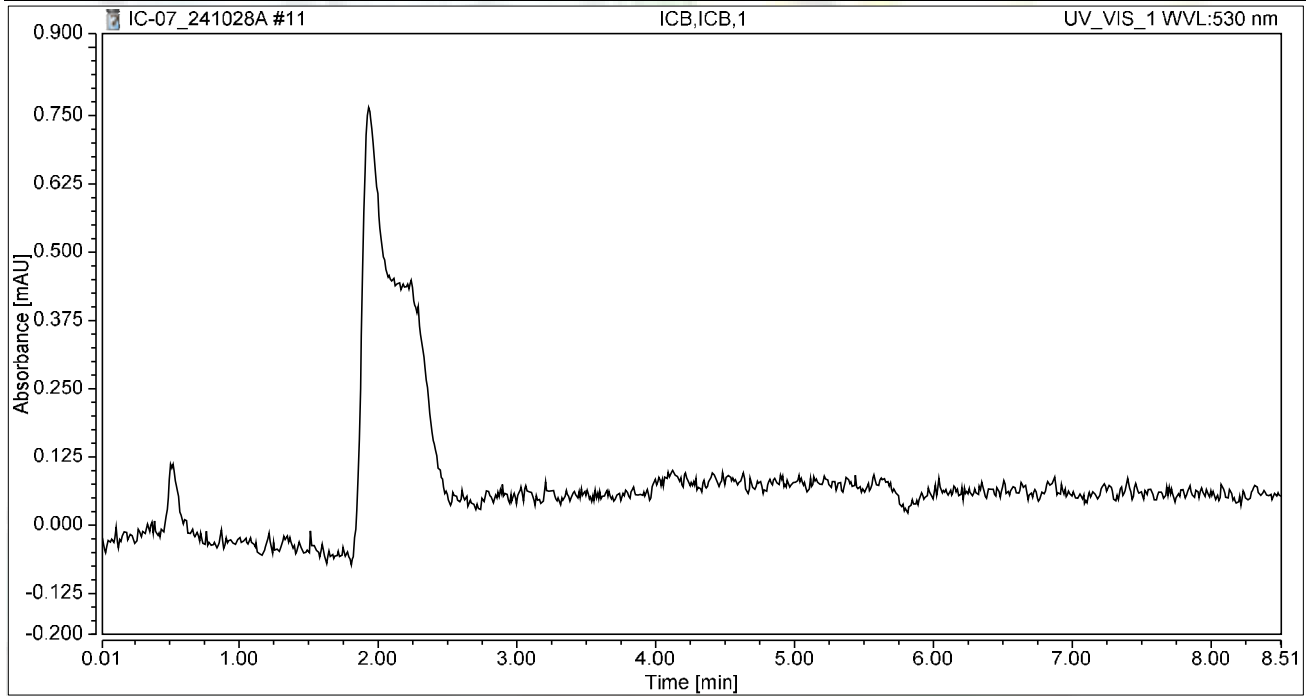
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.060	0.325	100.00	100.00	0.2110
Total:			0.060	0.325	100.00	100.00	

Chromatogram and Results

Injection Details

<i>Injection Name:</i>	ICB,ICB,1	<i>Run Time (min):</i>	8.49
<i>Vial Number:</i>	11	<i>Injection Volume:</i>	1000.00
<i>Injection Type:</i>	Unknown	<i>Channel:</i>	UV_VIS_1
<i>Calibration Level:</i>		<i>Wavelength:</i>	530.0
<i>Instrument Method:</i>	Hex Chrom 4 mm	<i>Bandwidth:</i>	n.a.
<i>Processing Method:</i>	241028A_IC-07_Cr6_218_6_HIGH	<i>Dilution Factor:</i>	1.0000
<i>Injection Date/Time:</i>	28/Oct/24 11:08	<i>Sample Weight:</i>	1.0000

Chromatogram



Integration Results

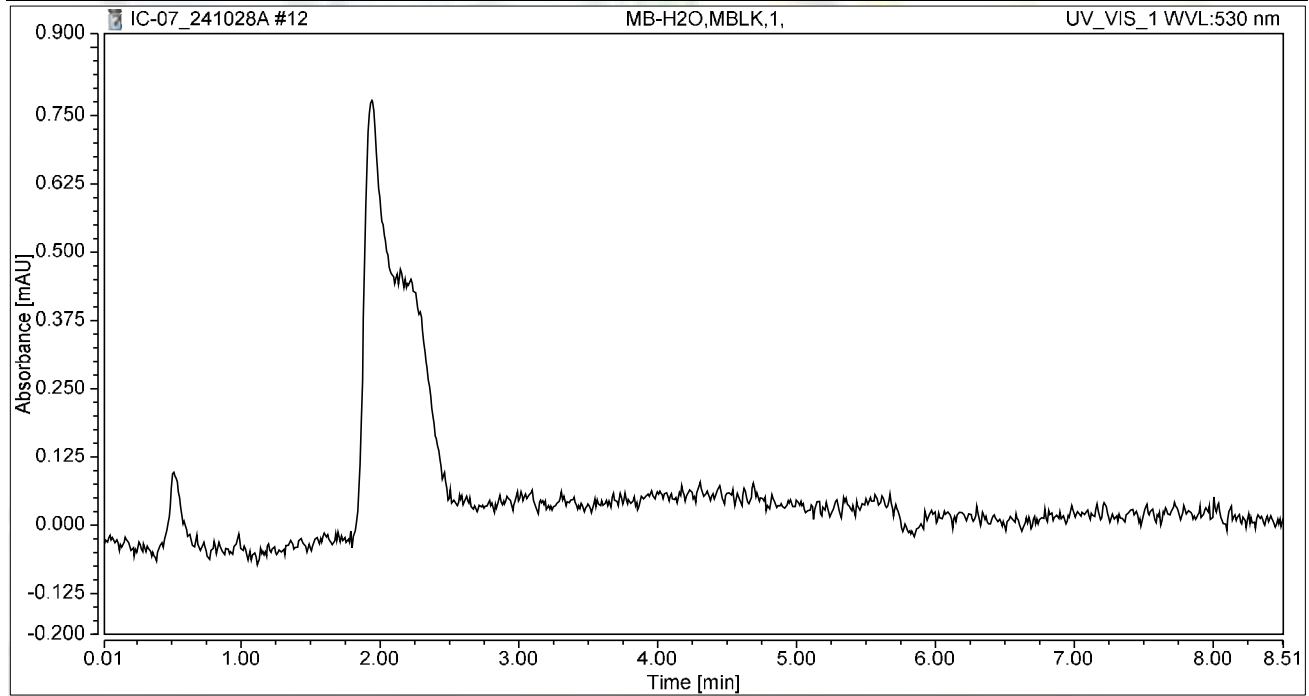
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.49
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 11:17	Sample Weight:	1.0000

Chromatogram



Integration Results

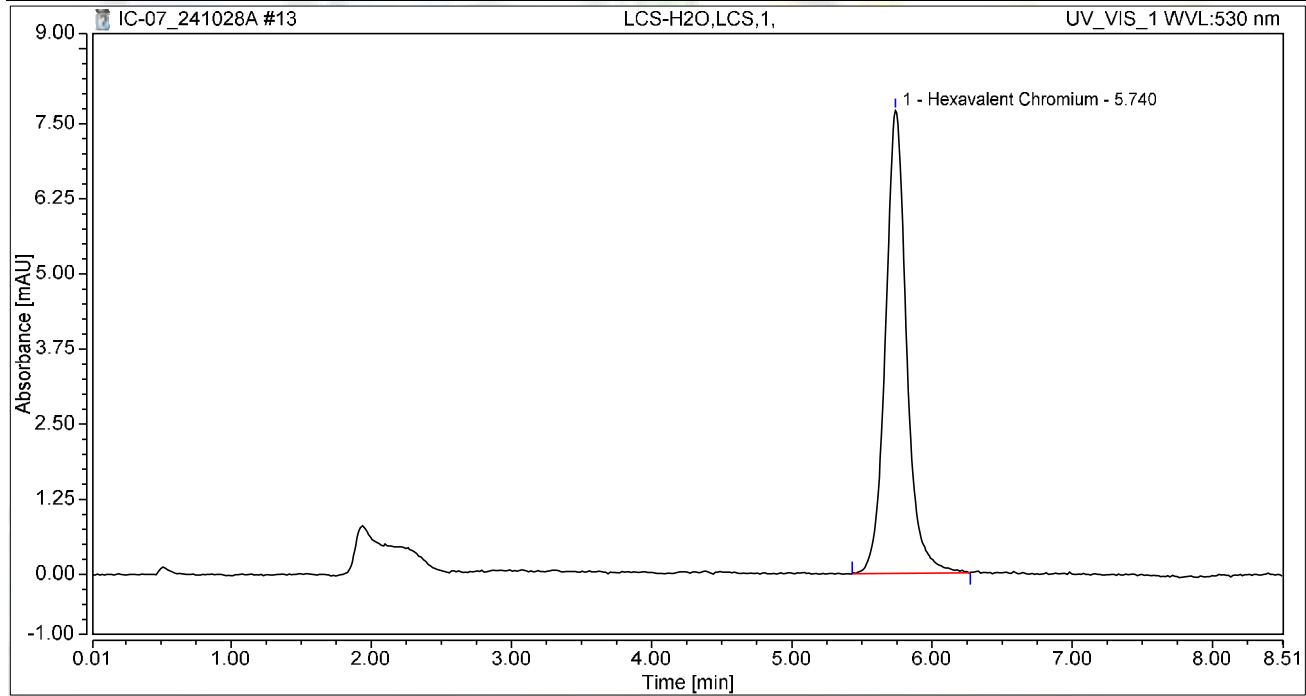
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-H2O,LCS,1,	Run Time (min):	8.49
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 11:27	Sample Weight:	1.0000

Chromatogram



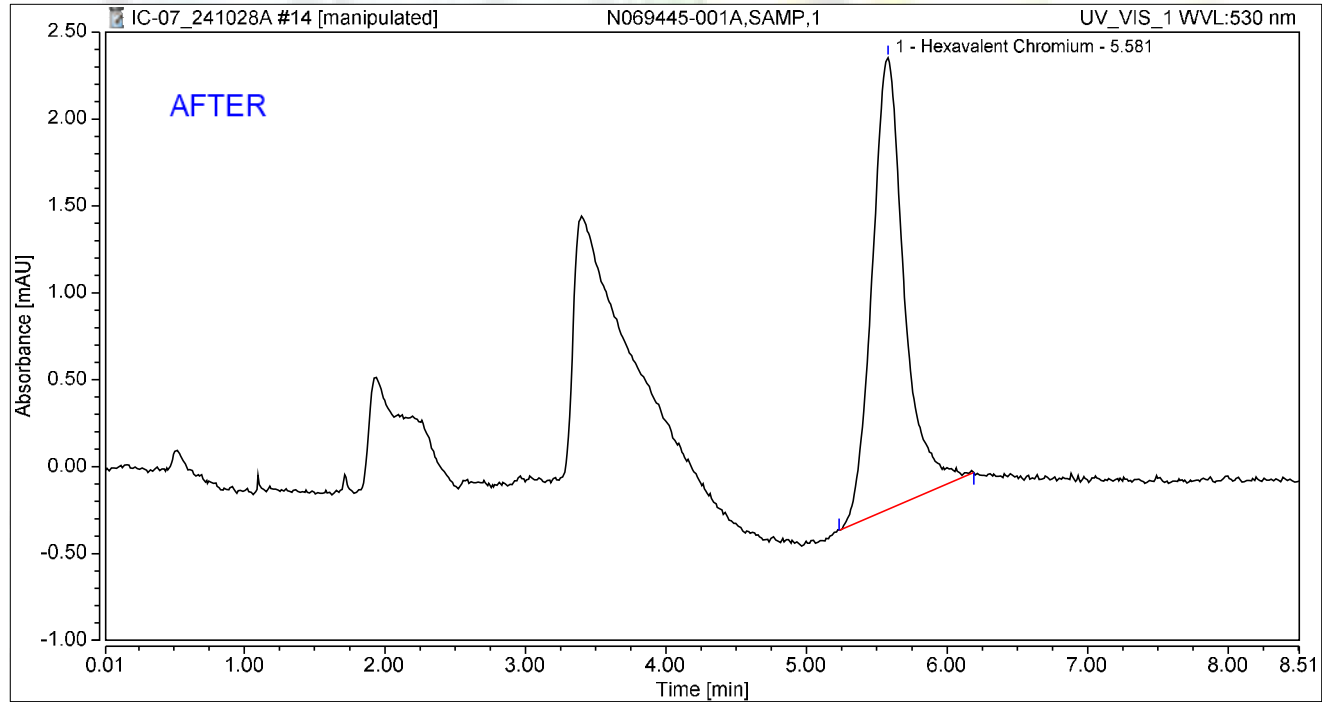
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	1.343	7.702	100.00	100.00	4.7331
Total:			1.343	7.702	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069445-001A,SAMP,1	Run Time (min): 8.49
Vial Number:	14	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	28/Oct/24 11:36	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.581	0.689	2.600	100.00	100.00	2.4299
Total:			0.689	2.600	100.00	100.00	

Reviewed by:

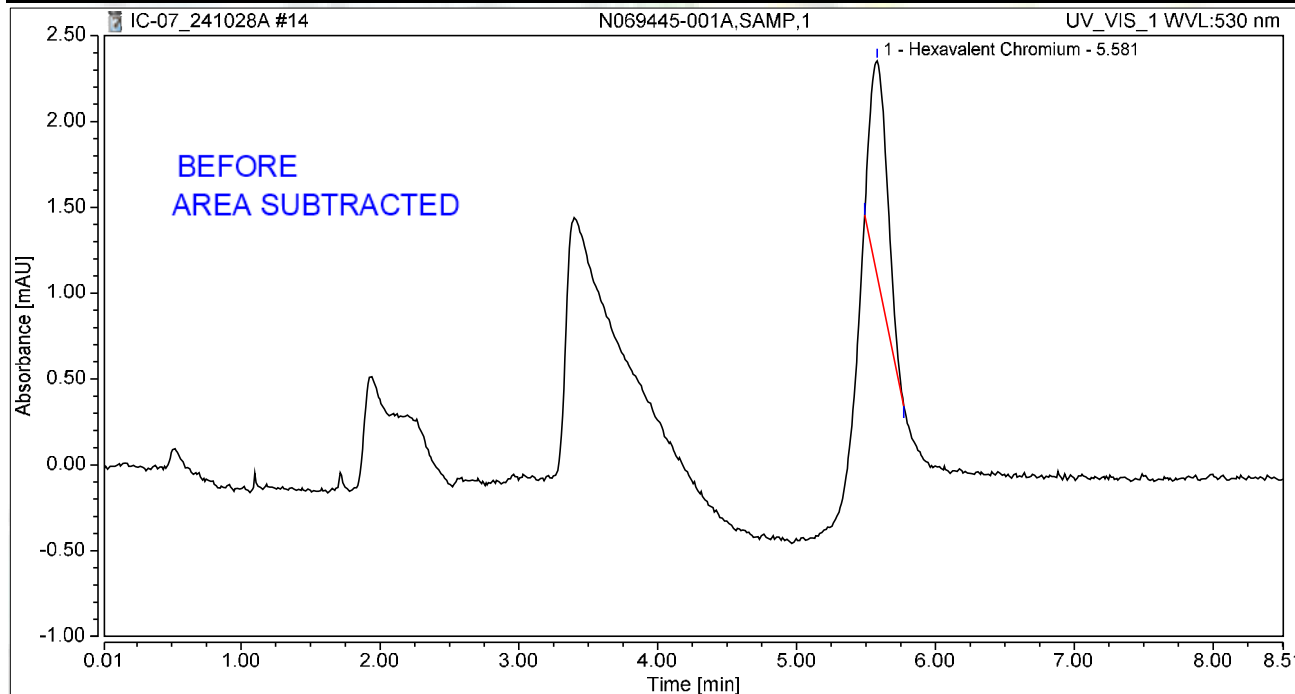
dRocha 11/3/2024

Chromatogram and Results

Injection Details

Injection Name:	N069445-001A,SAMP,1	Run Time (min):	8.49
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 11:36	Sample Weight:	1.0000

Chromatogram



Integration Results

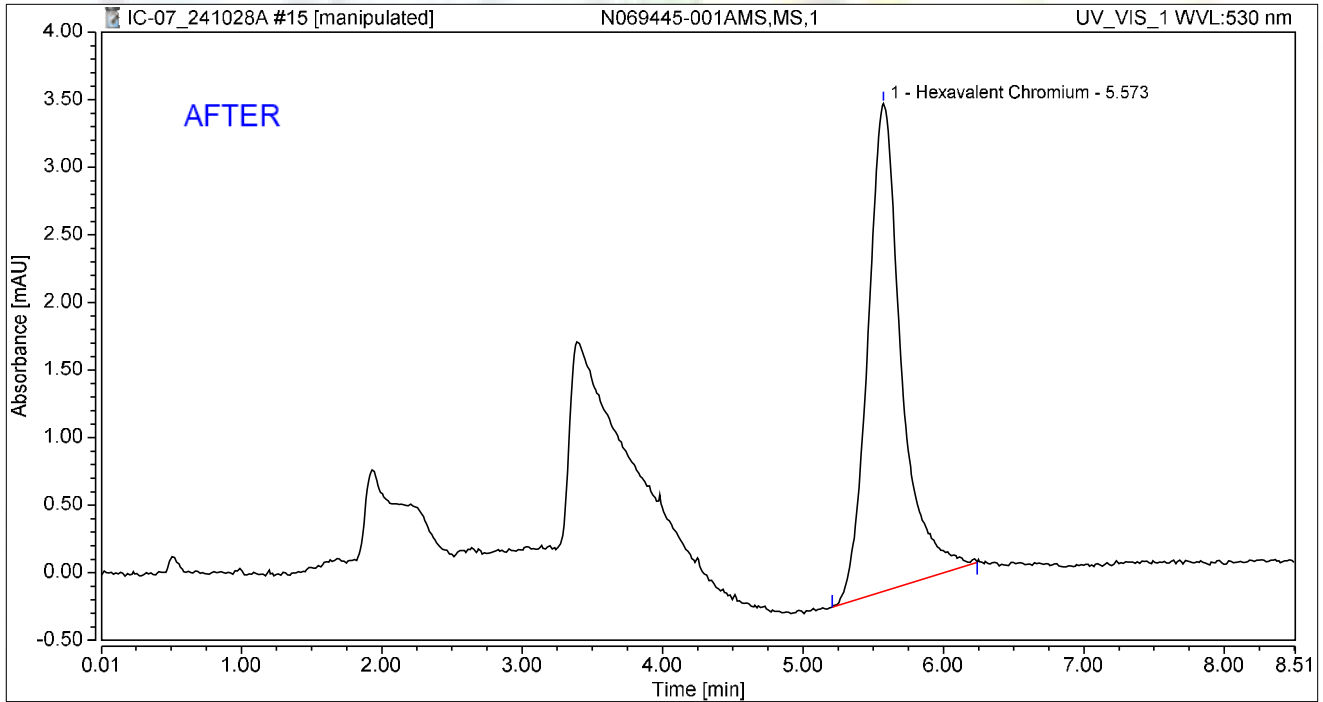
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.581	0.184	1.258	100.00	100.00	0.6473
Total:			0.184	1.258	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069445-001AMS,MS,1	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 11:46	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.573	0.997	3.610	100.00	100.00	3.5141
Total:			0.997	3.610	100.00	100.00	

Reviewed by:

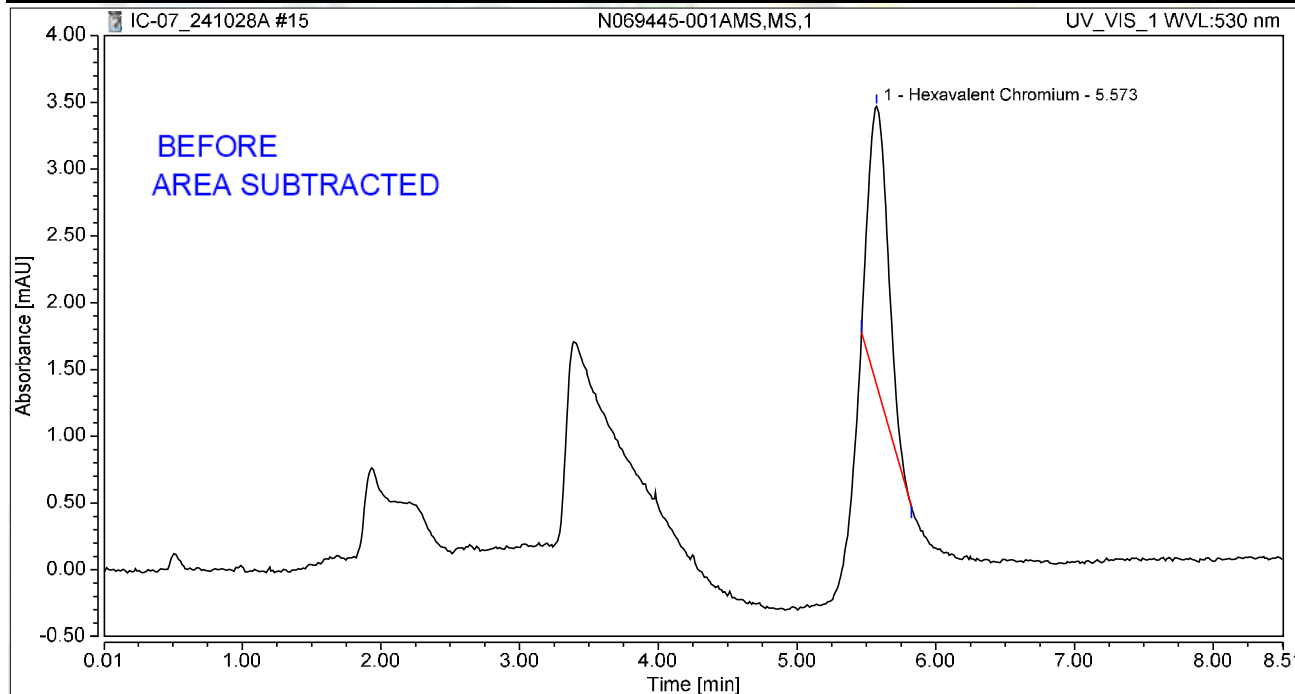
M. Rocha 11/3/2024

Chromatogram and Results

Injection Details

Injection Name:	N069445-001AMS,MS,1	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 11:46	Sample Weight:	1.0000

Chromatogram



Integration Results

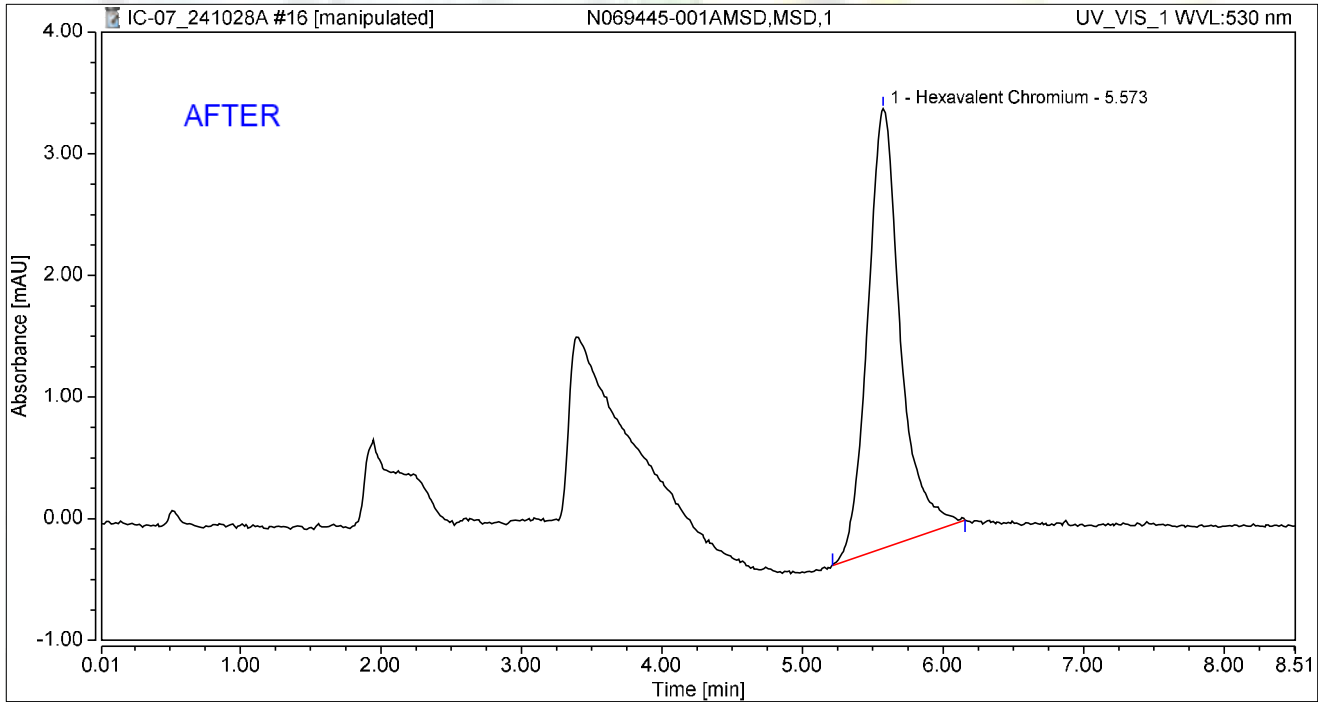
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.573	0.347	2.086	100.00	100.00	1.2222
Total:			0.347	2.086	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069445-001AMSD,MSD,1	Run Time (min):	8.49
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 11:55	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.573	0.976	3.612	100.00	100.00	3.4404
Total:			0.976	3.612	100.00	100.00	

Reviewed by:

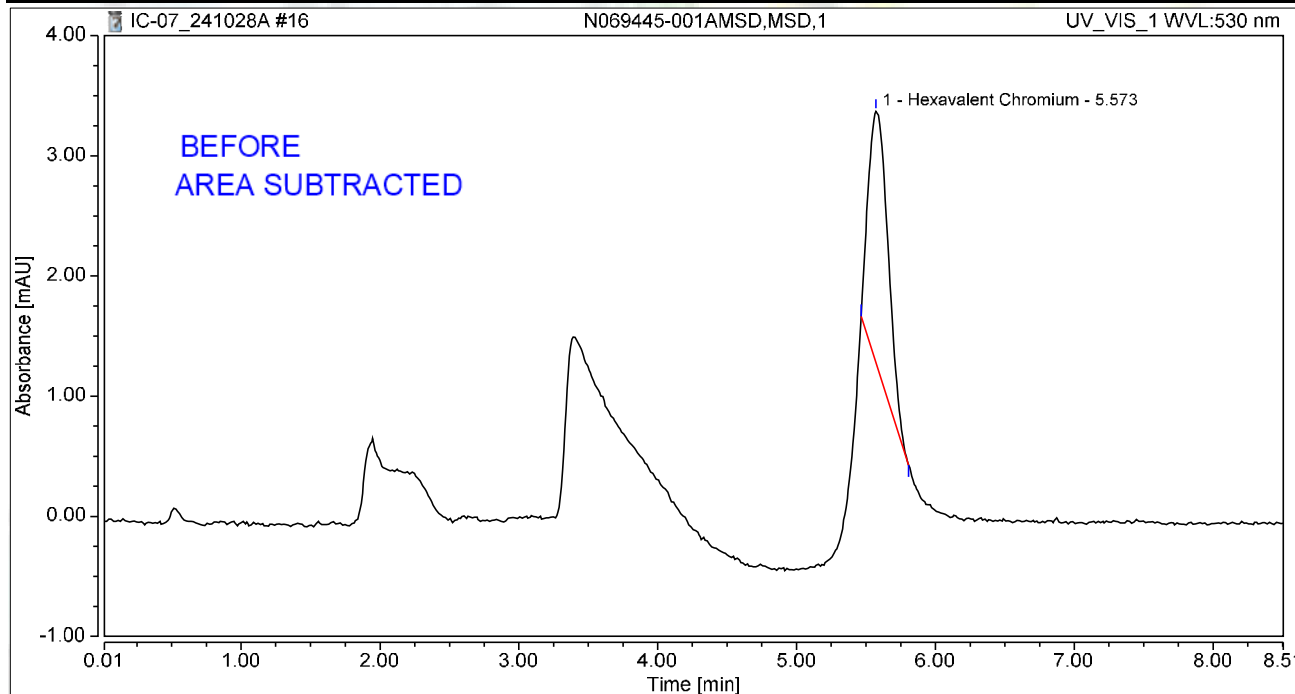
d/Rocha 11/3/2024

Chromatogram and Results

Injection Details

Injection Name:	N069445-001AMSD,MSD,1	Run Time (min):	8.49
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 11:55	Sample Weight:	1.0000

Chromatogram



Integration Results

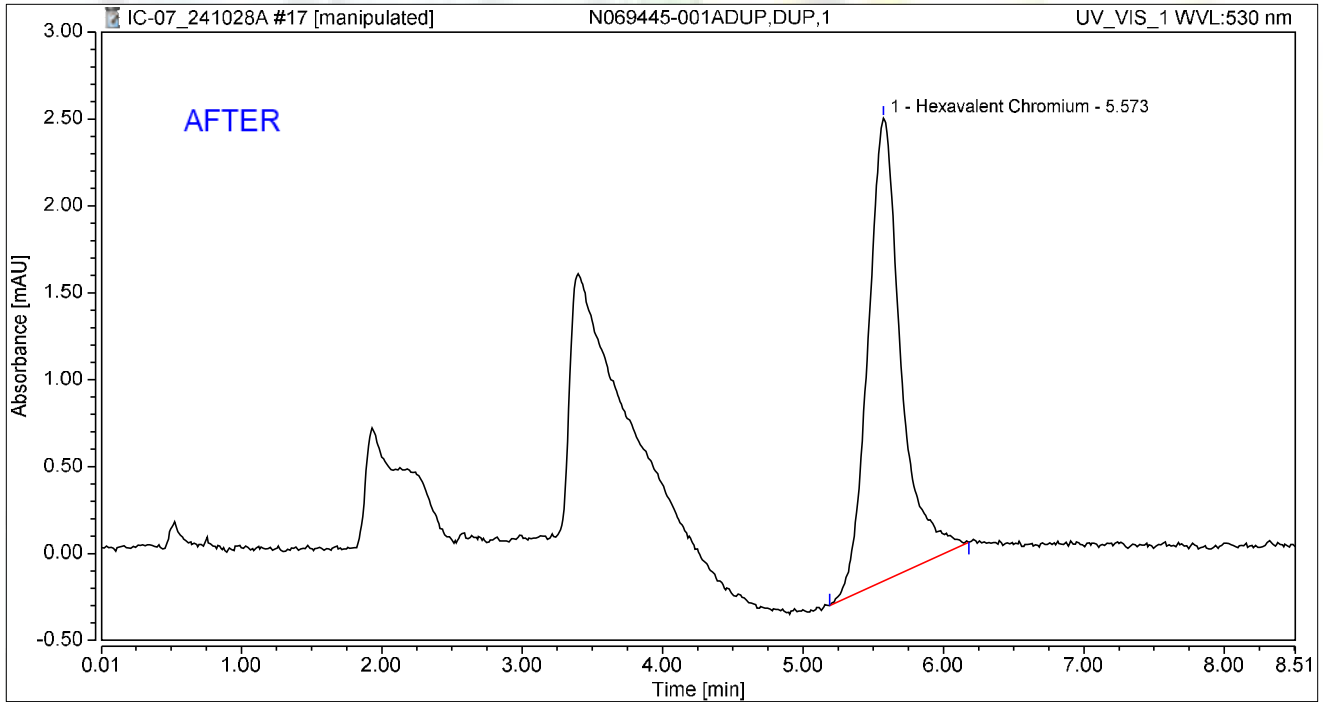
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.573	0.350	2.098	100.00	100.00	1.2327
Total:			0.350	2.098	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069445-001ADUP,DUP,1	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 12:05	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.573	0.724	2.665	100.00	100.00	2.5516
Total:			0.724	2.665	100.00	100.00	

Reviewed by:

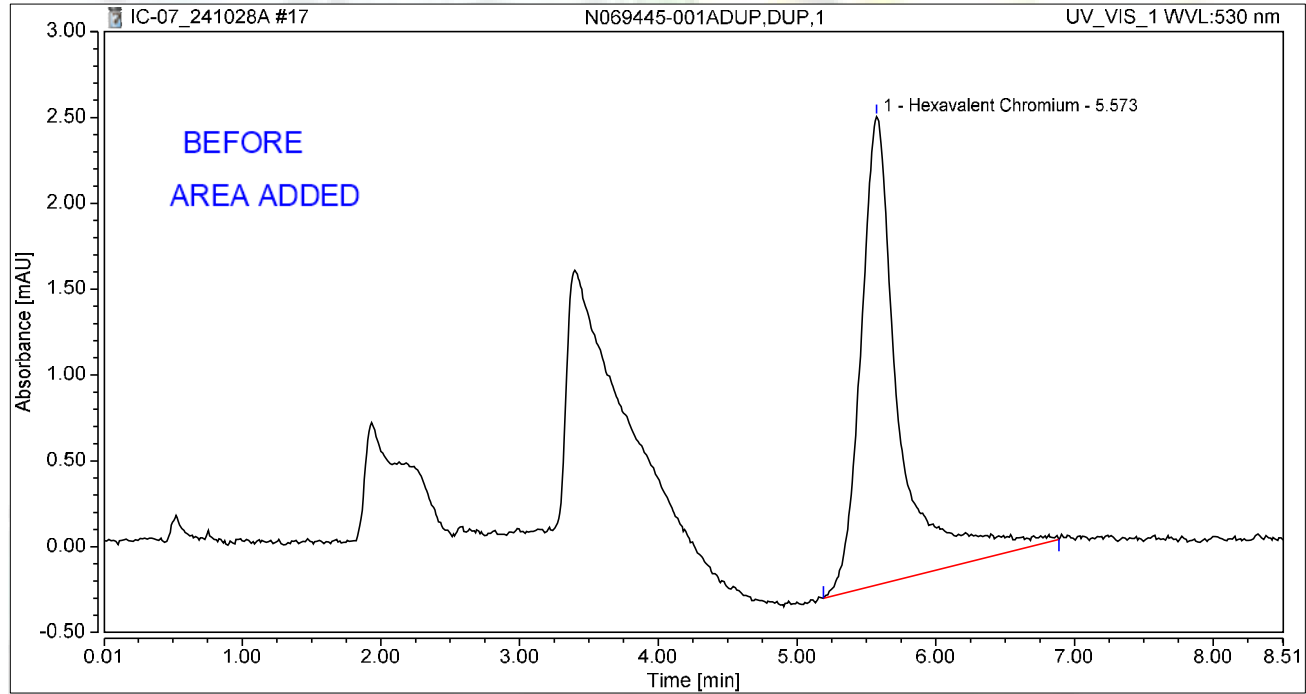
M Rocha 11/3/2024

Chromatogram and Results

Injection Details

Injection Name:	N069445-001ADUP,DUP,1	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 12:05	Sample Weight:	1.0000

Chromatogram



Integration Results

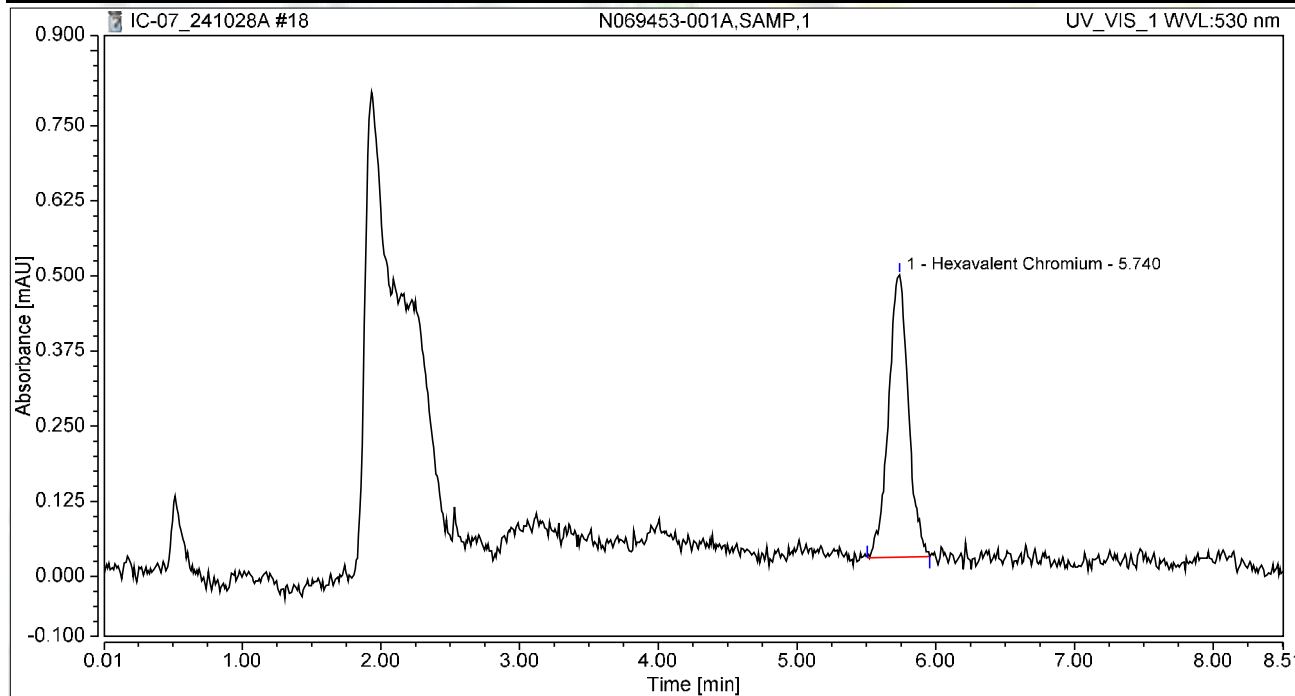
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.573	0.868	2.729	100.00	100.00	3.0584
Total:			0.868	2.729	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069453-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 12:14	Sample Weight:	1.0000

Chromatogram



Integration Results

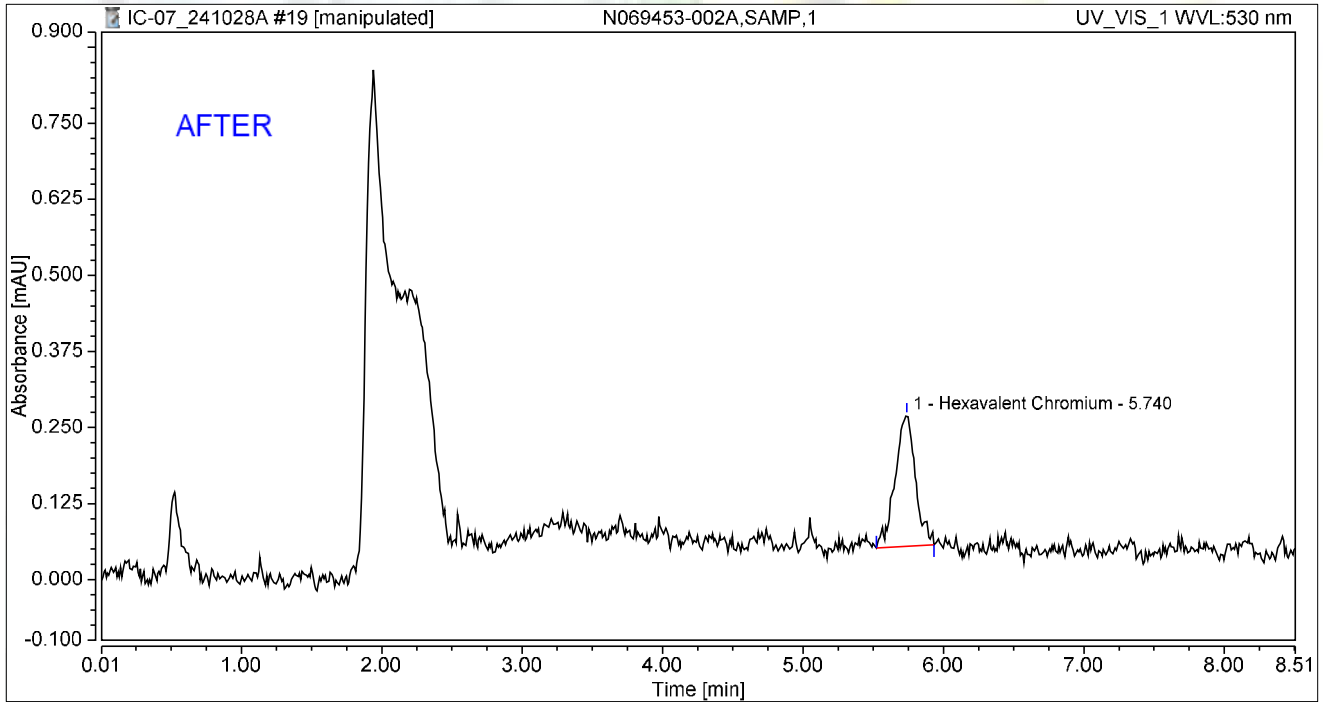
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	0.078	0.470	100.00	100.00	0.2738
Total:			0.078	0.470	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069453-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 12:24	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	0.036	0.216	100.00	100.00	0.1277
Total:			0.036	0.216	100.00	100.00	

Reviewed by:

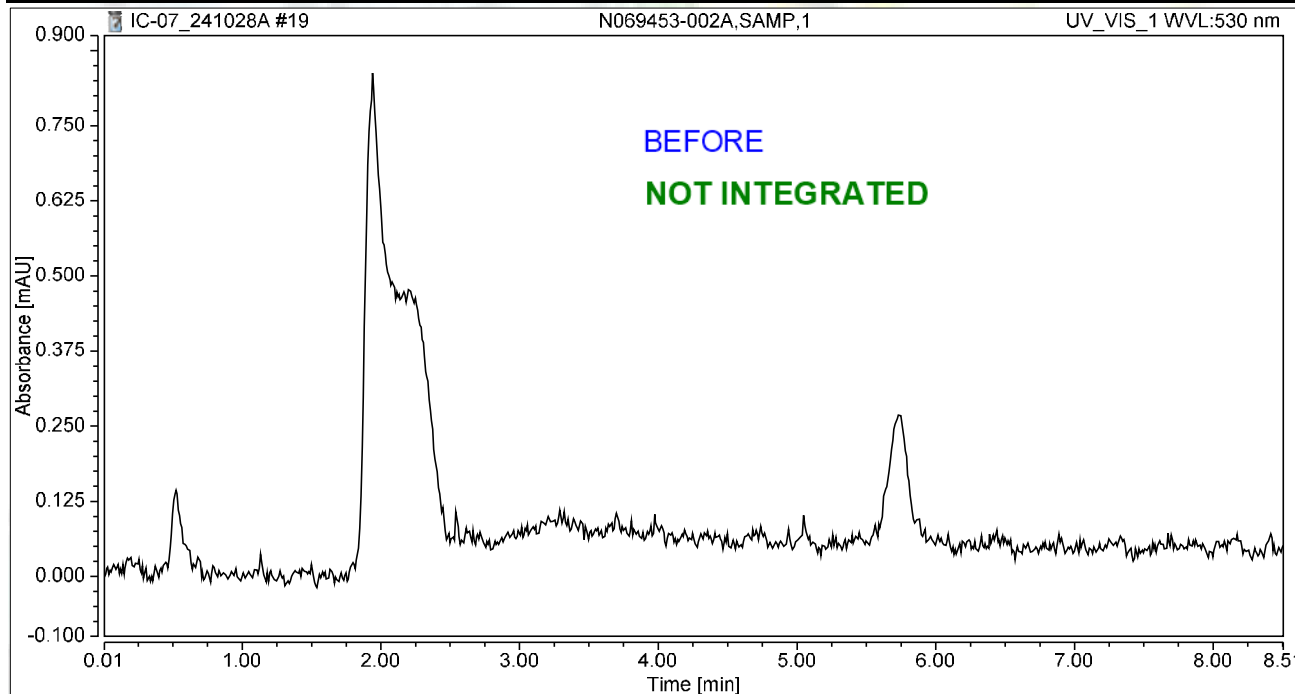
d/Rocha 11/3/2024

Chromatogram and Results

Injection Details

Injection Name:	N069453-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 12:24	Sample Weight:	1.0000

Chromatogram



Integration Results

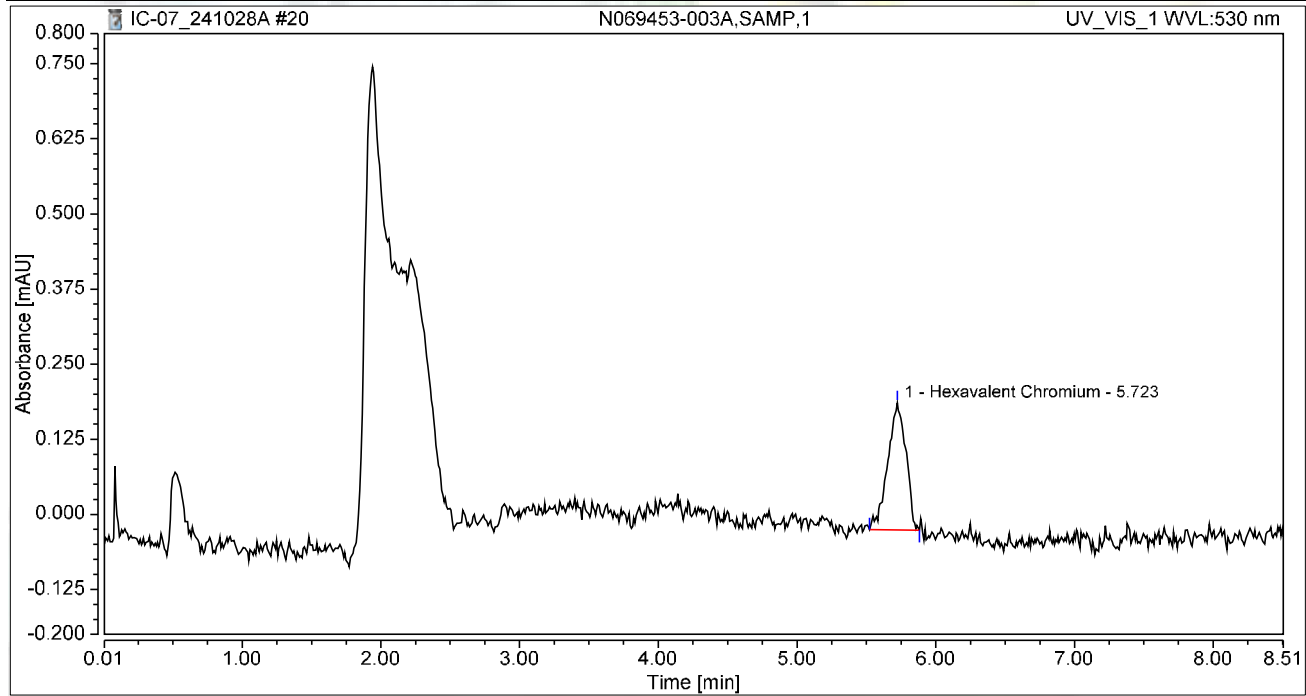
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069453-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 12:33	Sample Weight:	1.0000

Chromatogram



Integration Results

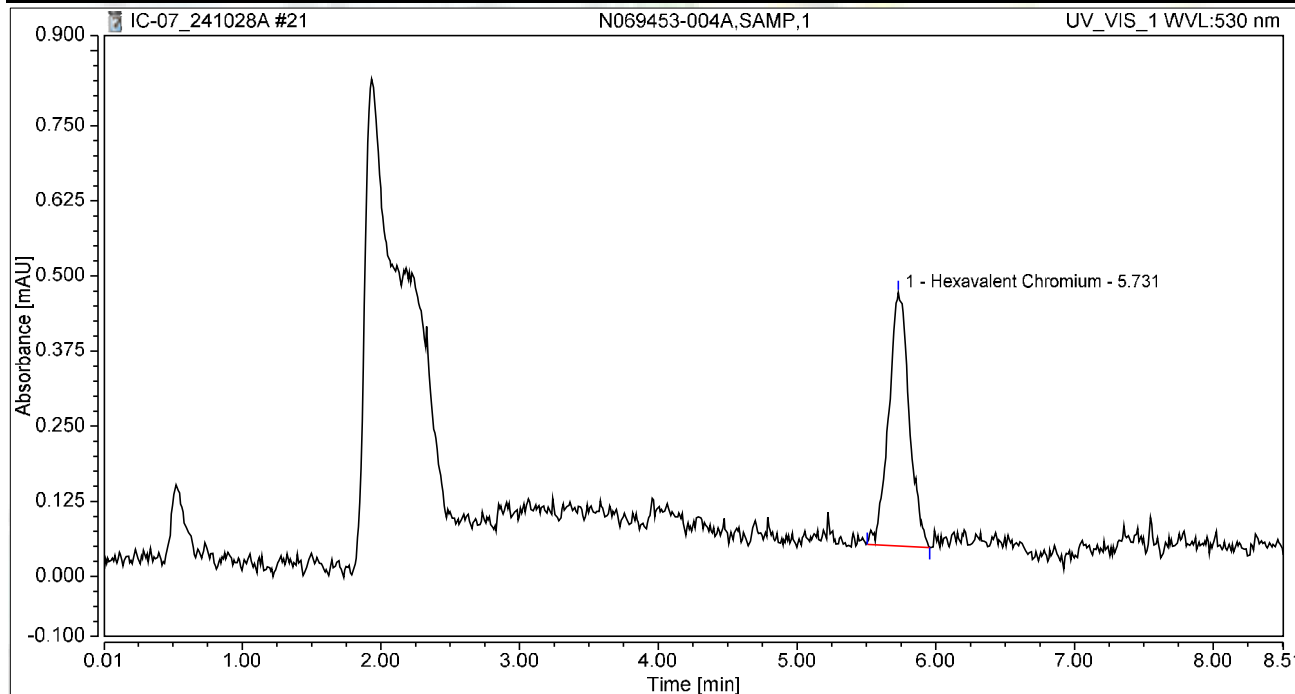
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.032	0.211	100.00	100.00	0.1124
Total:			0.032	0.211	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069453-004A,SAMP,1	Run Time (min):	8.50
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 12:43	Sample Weight:	1.0000

Chromatogram



Integration Results

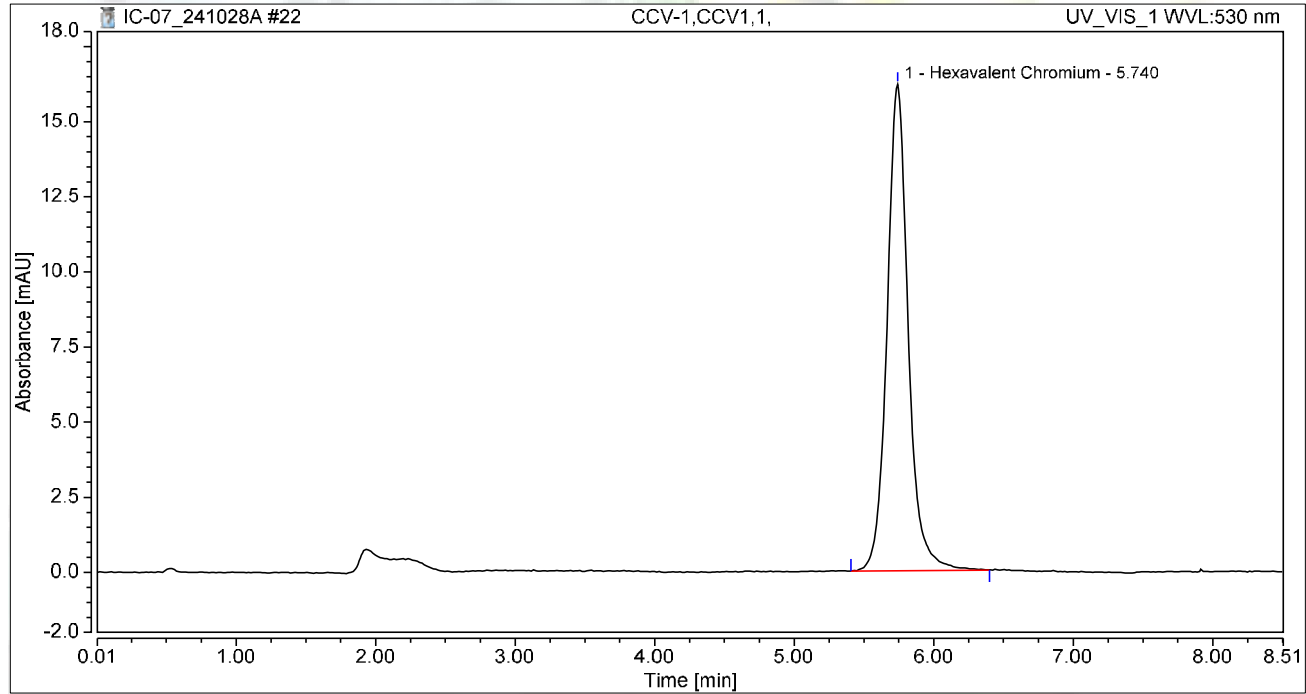
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	0.072	0.422	100.00	100.00	0.2549
Total:			0.072	0.422	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-1,CCV1,1,	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 12:52	Sample Weight:	1.0000

Chromatogram



Integration Results

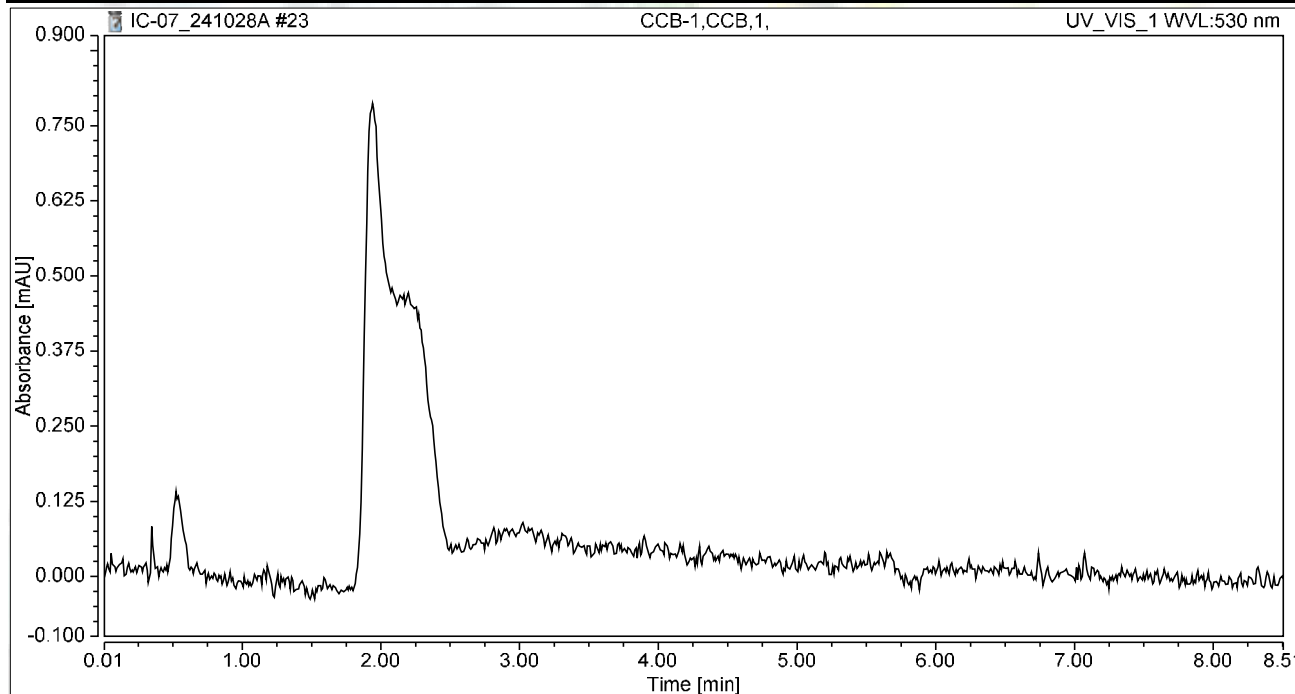
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	2.839	16.193	100.00	100.00	10.0056
Total:			2.839	16.193	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-1,CCB,1,	Run Time (min):	8.50
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 13:02	Sample Weight:	1.0000

Chromatogram



Integration Results

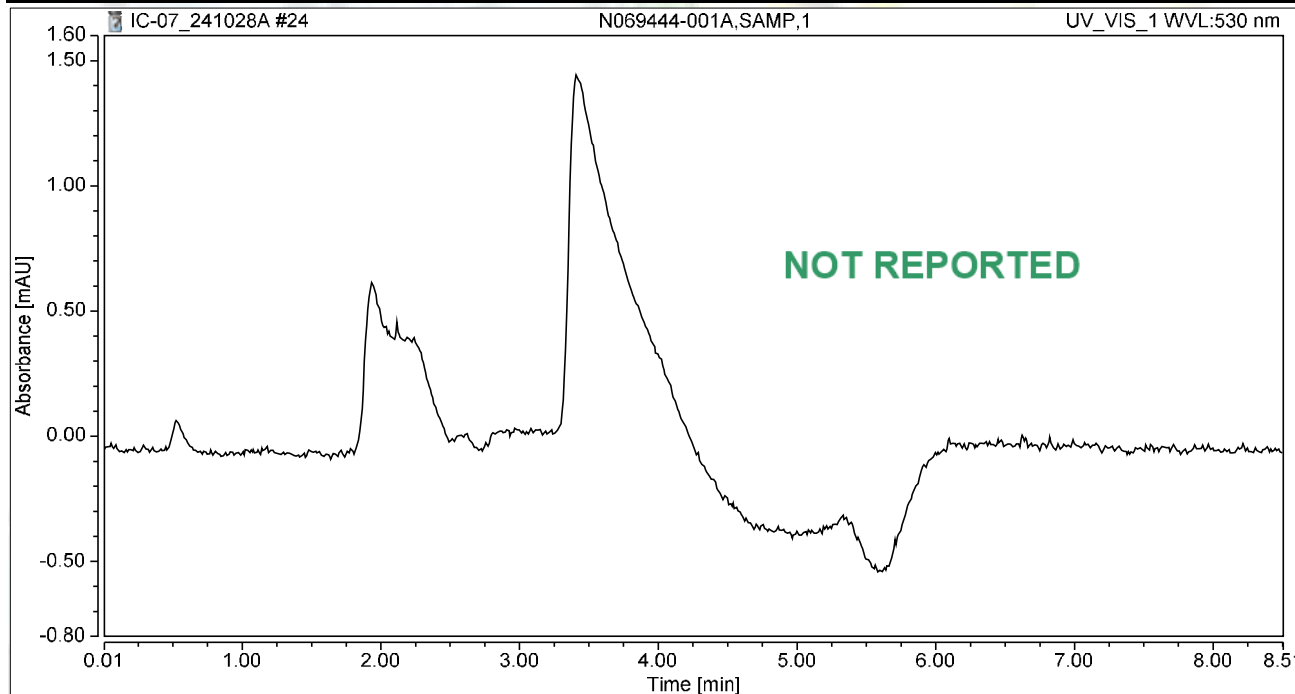
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069444-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 13:11	Sample Weight:	1.0000

Chromatogram



Integration Results

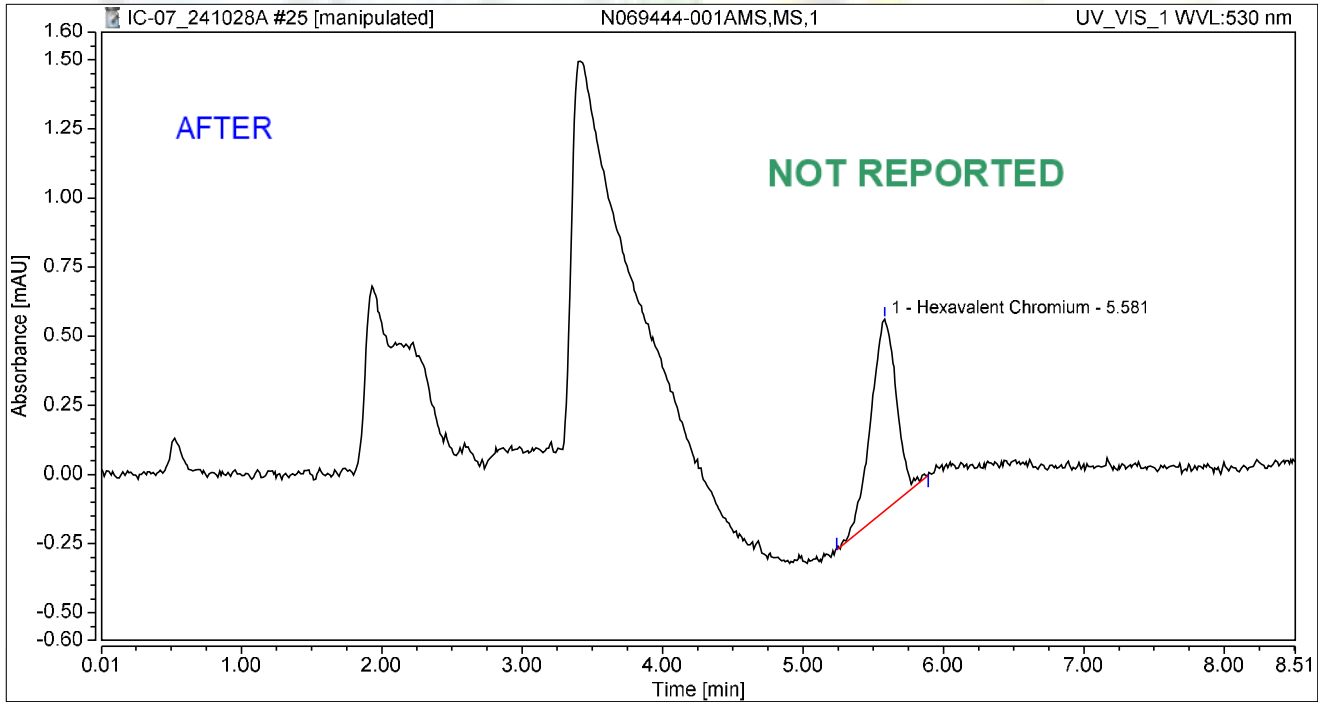
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069444-001AMS,MS,1	Run Time (min):	8.50
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 13:20	Sample Weight:	1.0000

Chromatogram



Integration Results

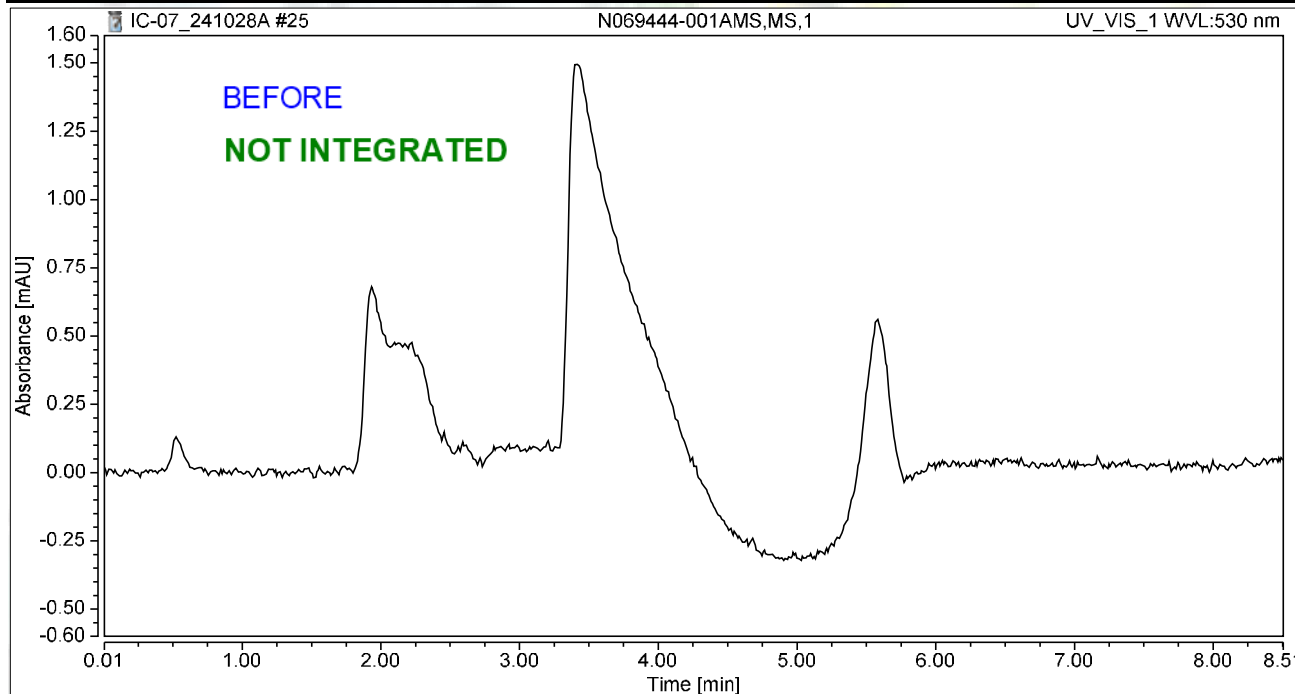
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.581	0.146	0.692	100.00	100.00	0.5149
Total:			0.146	0.692	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069444-001AMS,MS,1	Run Time (min):	8.50
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 13:20	Sample Weight:	1.0000

Chromatogram



Integration Results

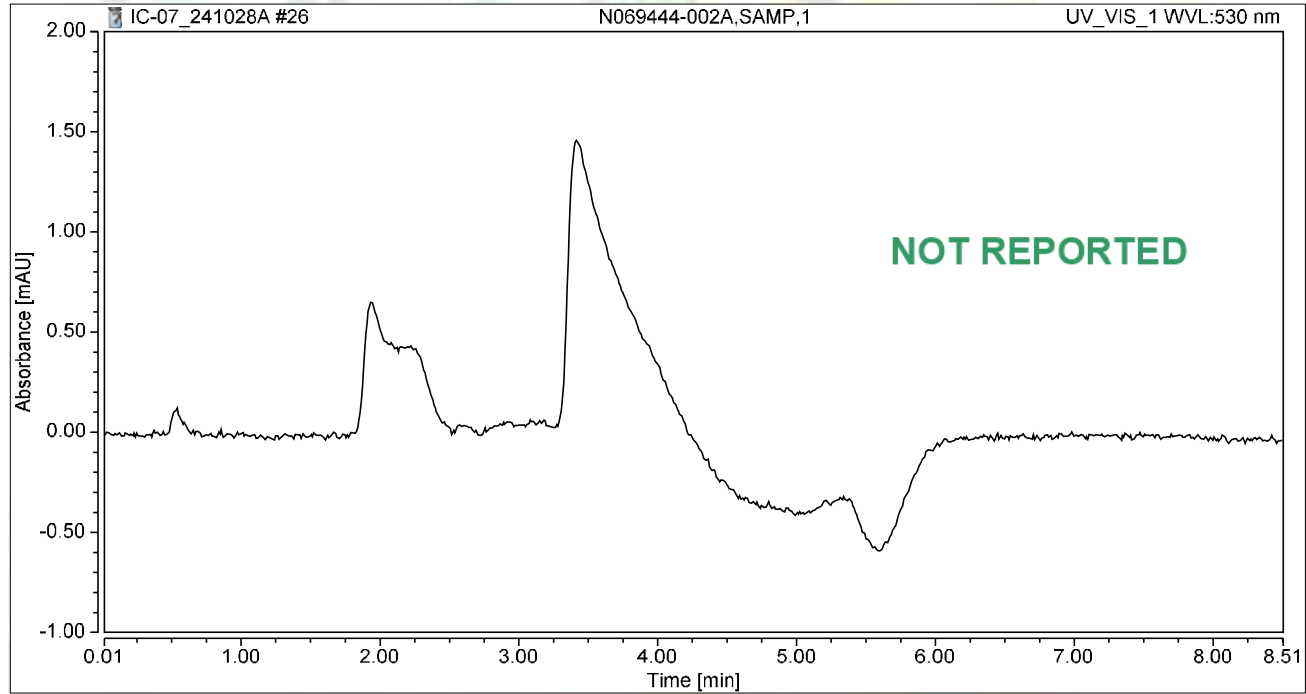
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069444-002A,SAMP,1	Run Time (min):	8.49
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 13:30	Sample Weight:	1.0000

Chromatogram



Integration Results

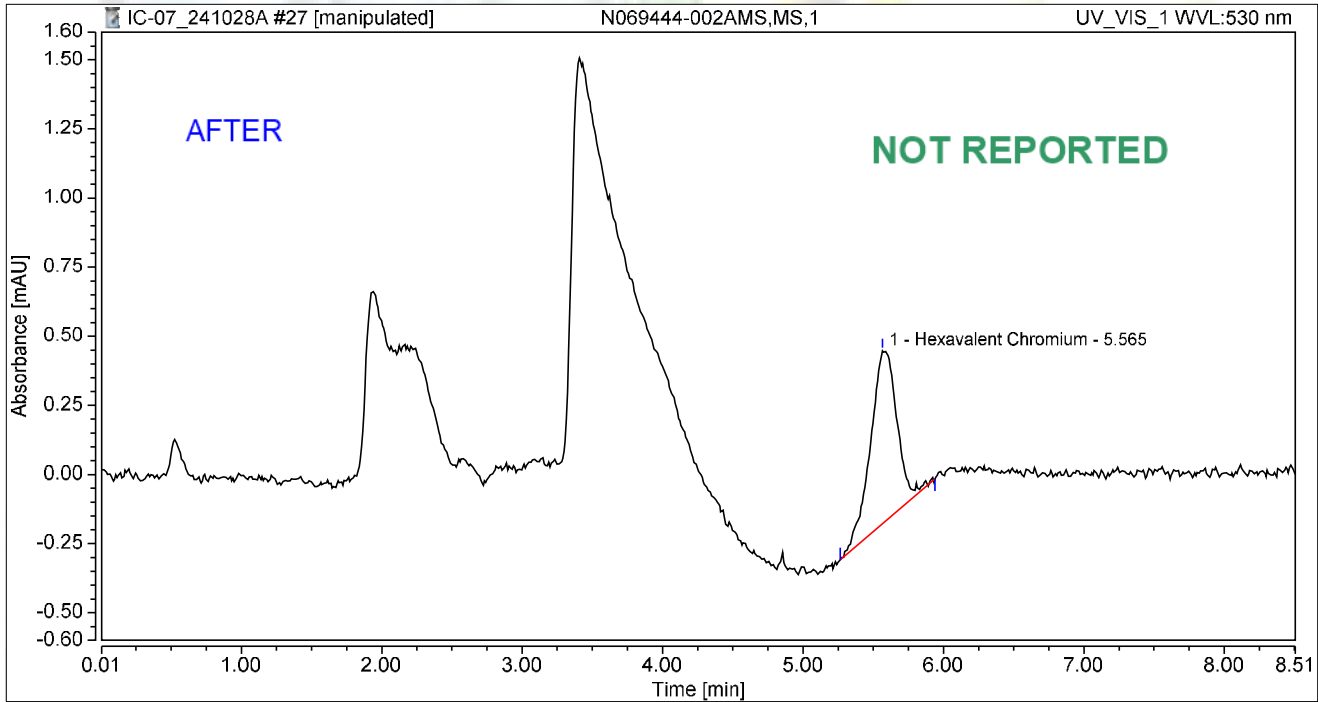
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069444-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 13:39	Sample Weight:	1.0000

Chromatogram



Integration Results

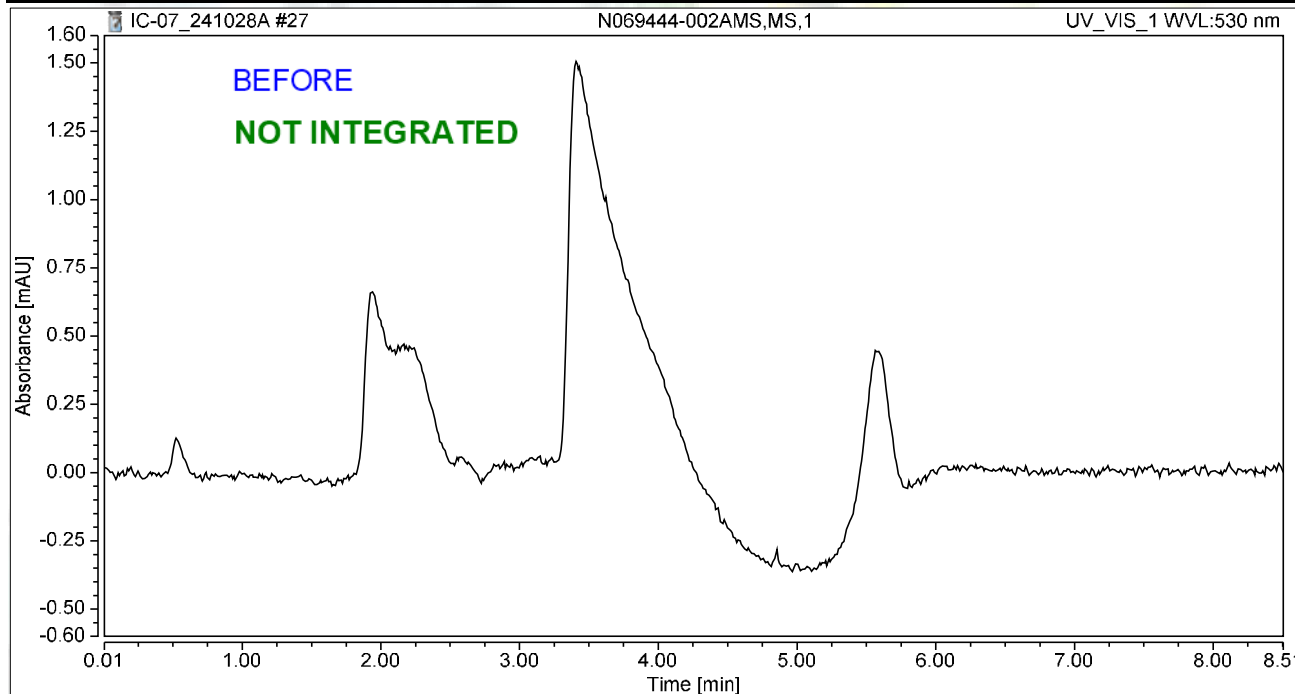
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.565	0.135	0.626	100.00	100.00	0.4748
Total:			0.135	0.626	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069444-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 13:39	Sample Weight:	1.0000

Chromatogram



Integration Results

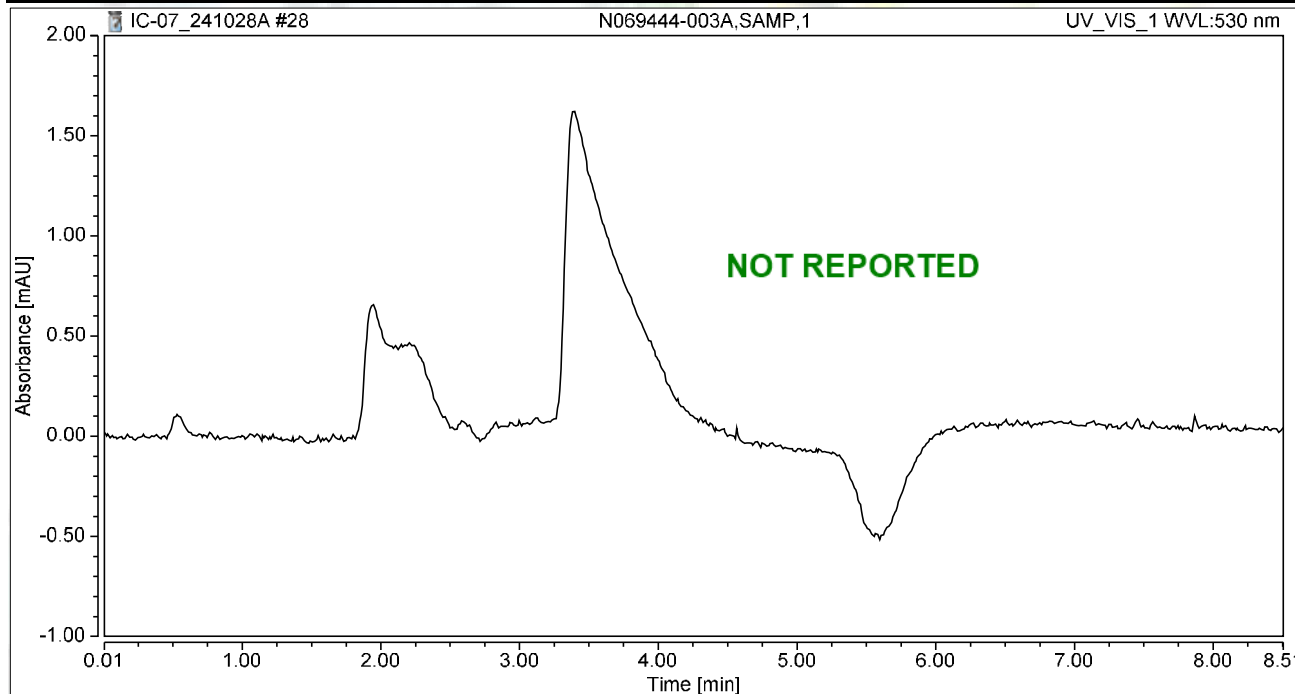
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069444-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 13:49	Sample Weight:	1.0000

Chromatogram



Integration Results

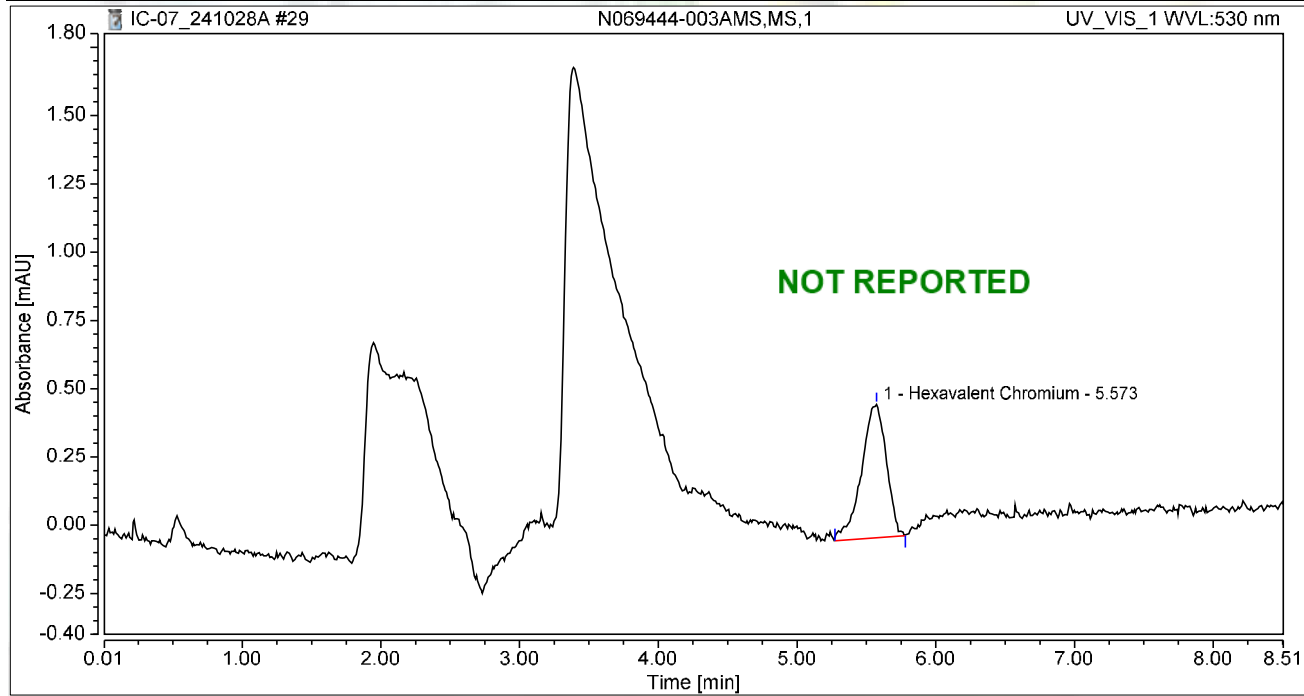
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069444-003AMS,MS,1	Run Time (min):	8.50
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 13:58	Sample Weight:	1.0000

Chromatogram



Integration Results

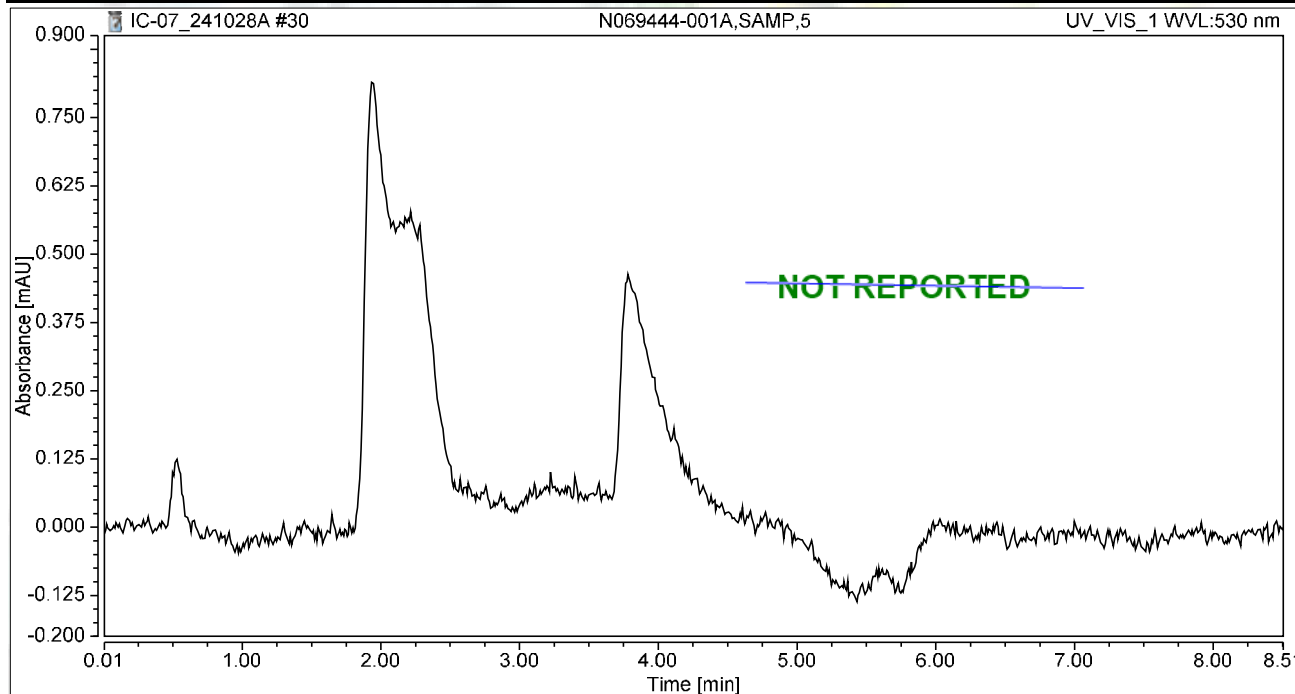
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.573	0.101	0.487	100.00	100.00	0.3569
Total:			0.101	0.487	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069444-001A,SAMP,5	Run Time (min):	8.50
Vial Number:	30	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 14:08	Sample Weight:	1.0000

Chromatogram



Integration Results

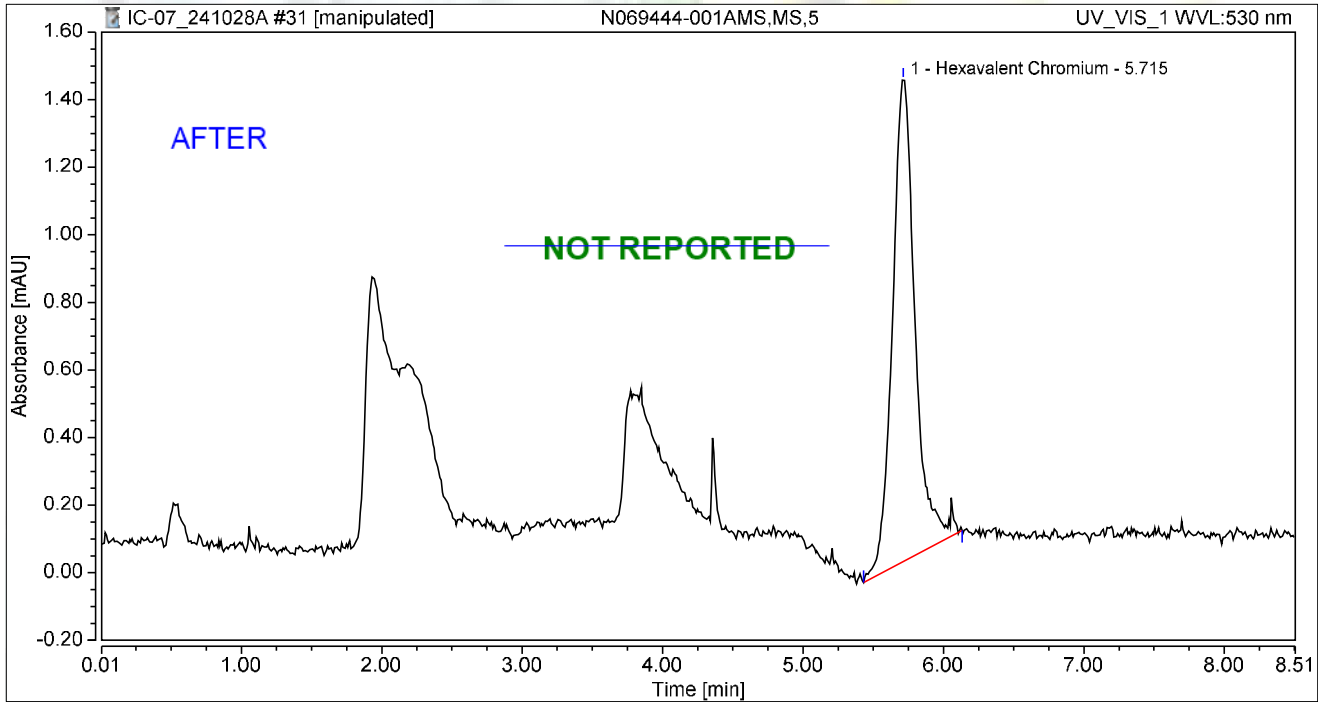
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069444-001AMS,MS,5	Run Time (min):	8.50
Vial Number:	31	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 14:17	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.267	1.424	100.00	100.00	0.9407
Total:			0.267	1.424	100.00	100.00	

Reviewed by:

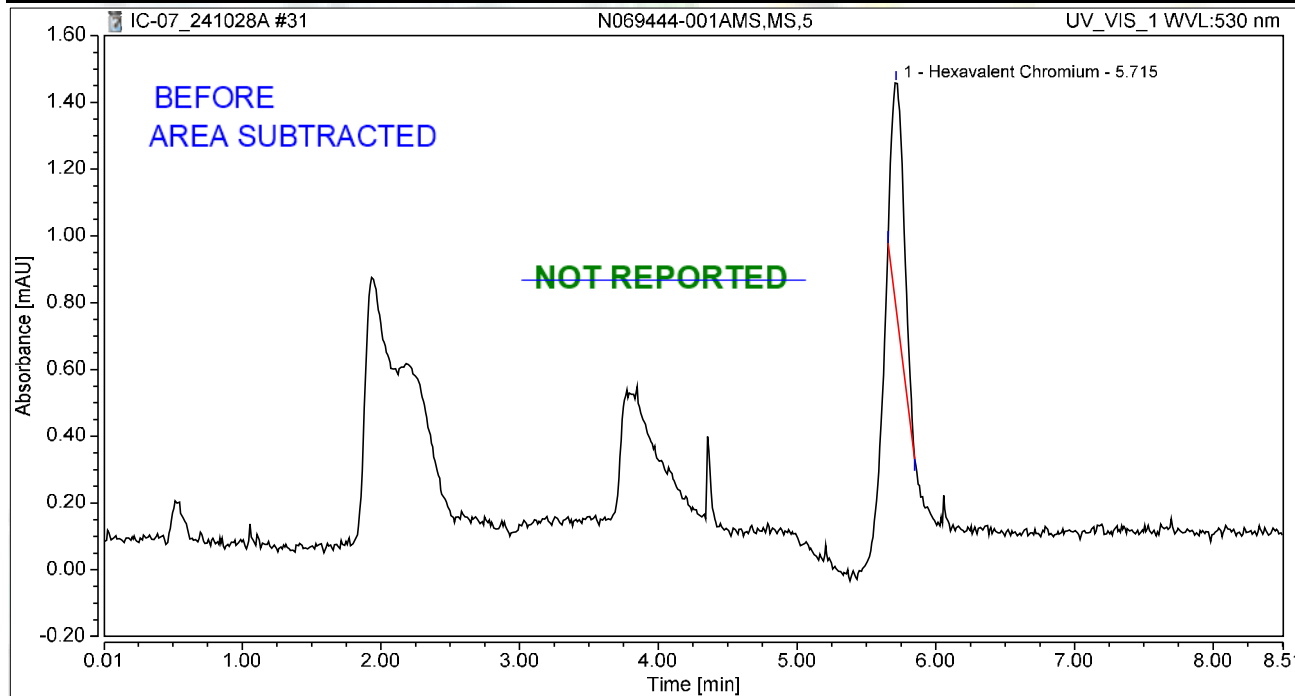
d/Rocha 11/3/2024

Chromatogram and Results

Injection Details

Injection Name:	N069444-001AMS,MS,5	Run Time (min):	8.50
Vial Number:	31	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 14:17	Sample Weight:	1.0000

Chromatogram



Integration Results

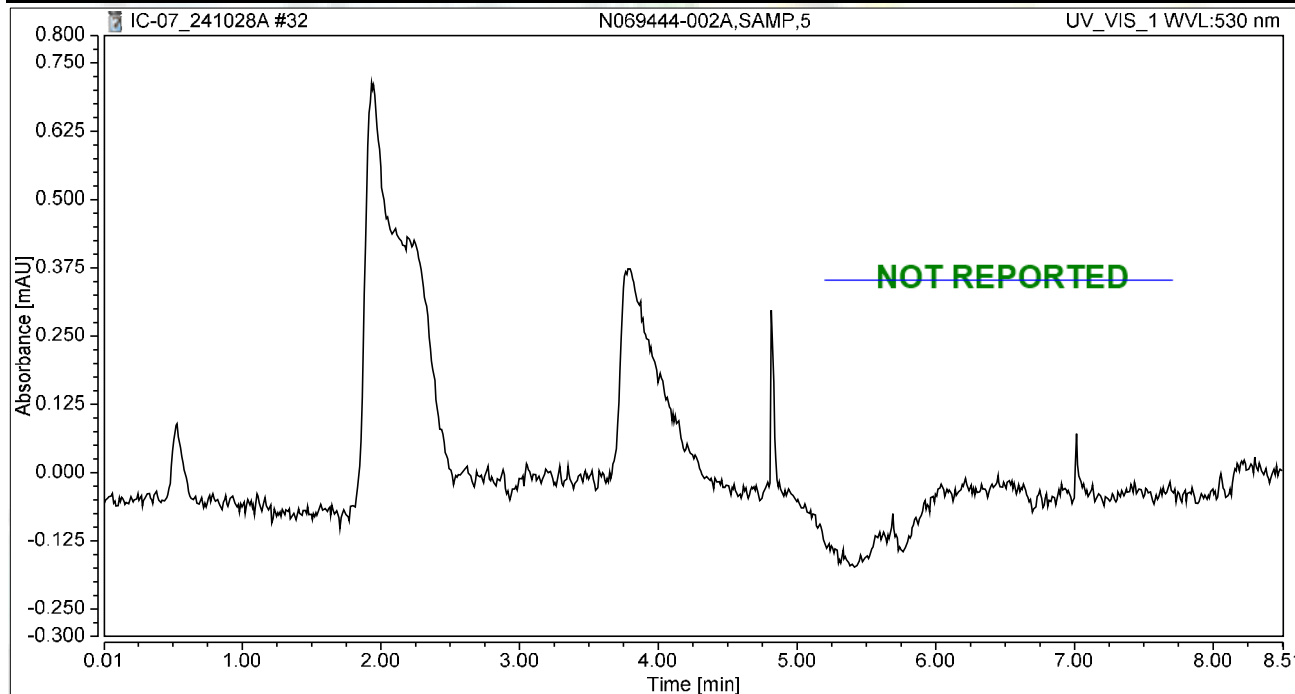
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.074	0.676	100.00	100.00	0.2591
Total:			0.074	0.676	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069444-002A,SAMP,5	Run Time (min):	8.50
Vial Number:	32	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 14:27	Sample Weight:	1.0000

Chromatogram



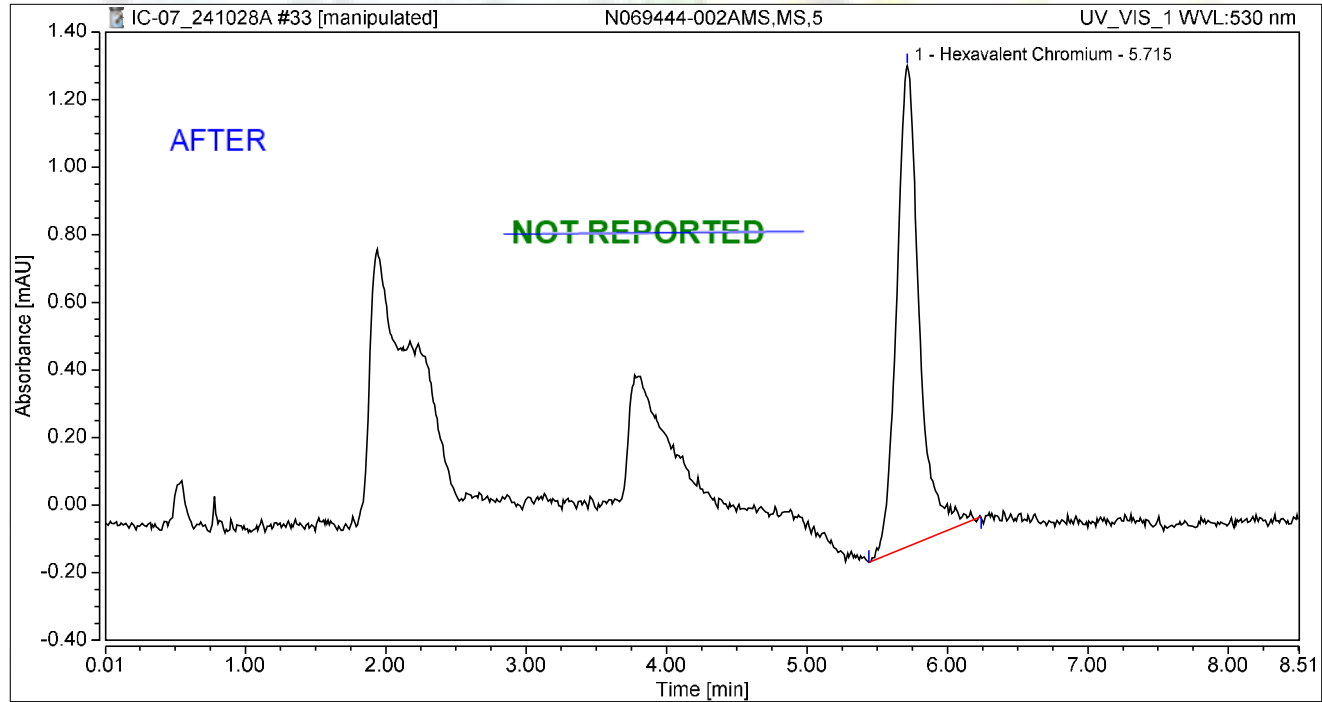
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069444-002AMS,MS,5	Run Time (min): 8.50
Vial Number:	33	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	28/Oct/24 14:36	Sample Weight: 1.0000

Chromatogram



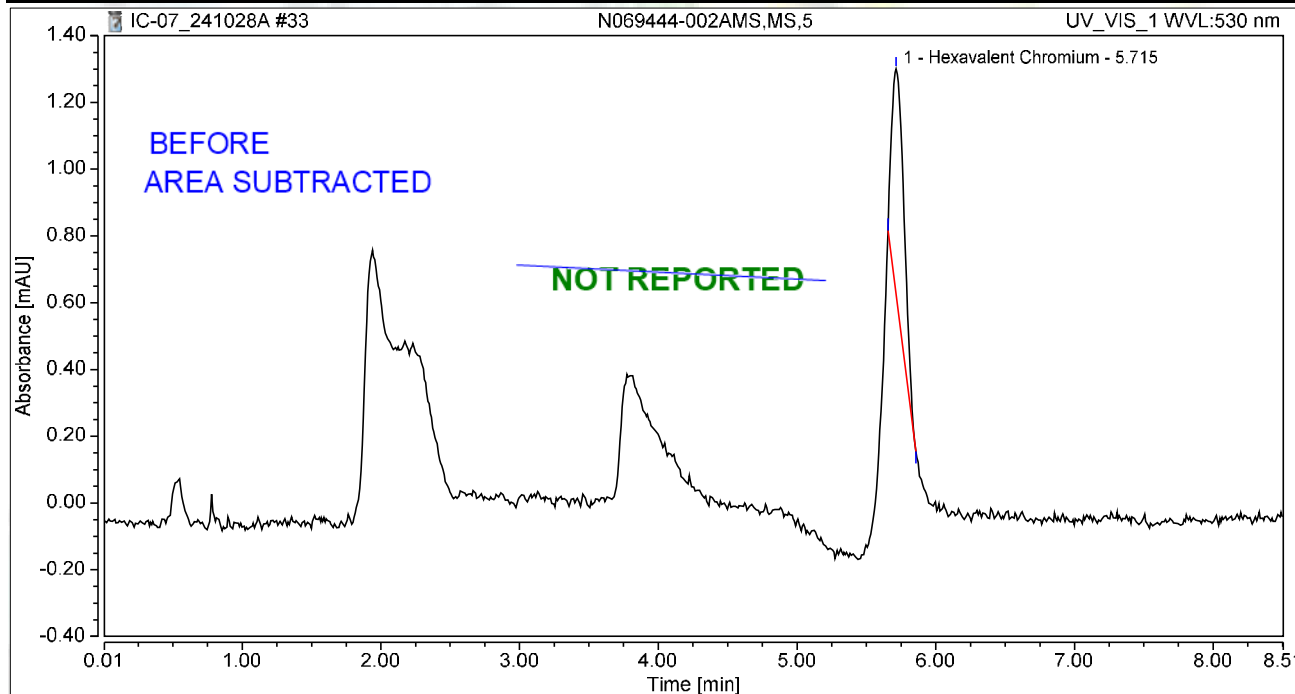
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.267	1.424	100.00	100.00	0.9397
Total:			0.267	1.424	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069444-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	33	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 14:36	Sample Weight:	1.0000

Chromatogram



Integration Results

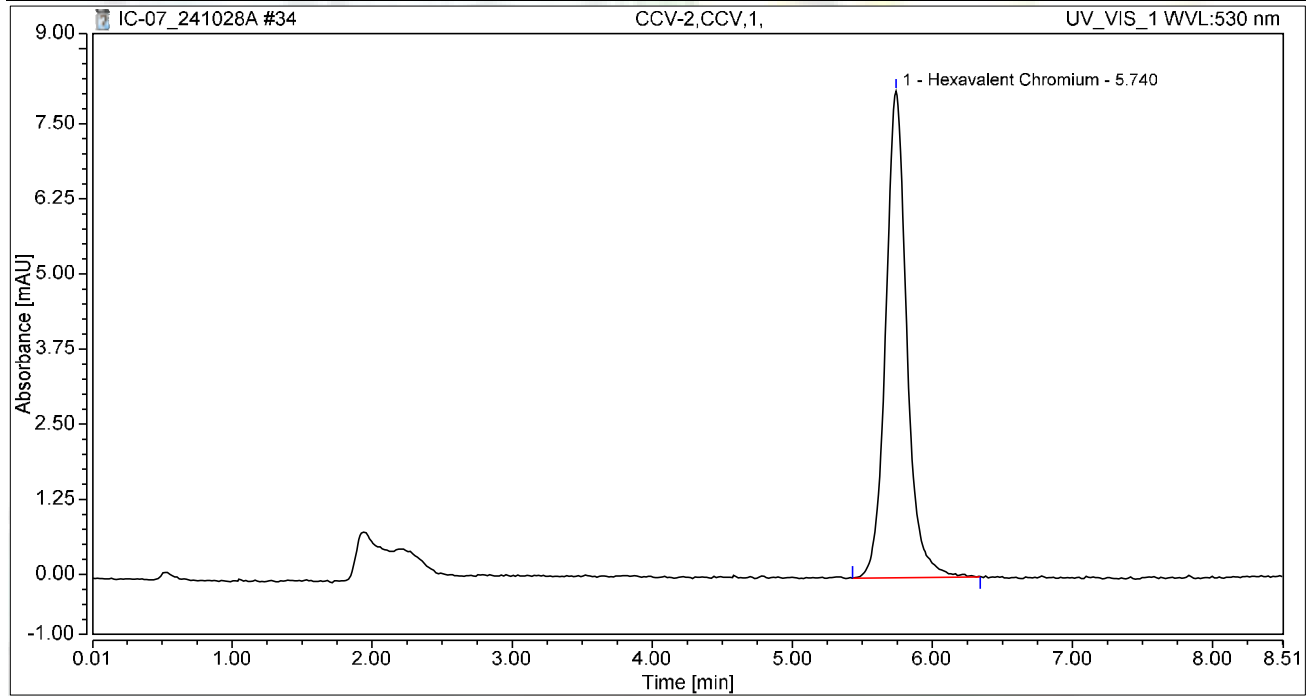
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.071	0.678	100.00	100.00	0.2515
Total:			0.071	0.678	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-2,CCV,1,	Run Time (min):	8.50
Vial Number:	34	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 14:46	Sample Weight:	1.0000

Chromatogram



Integration Results

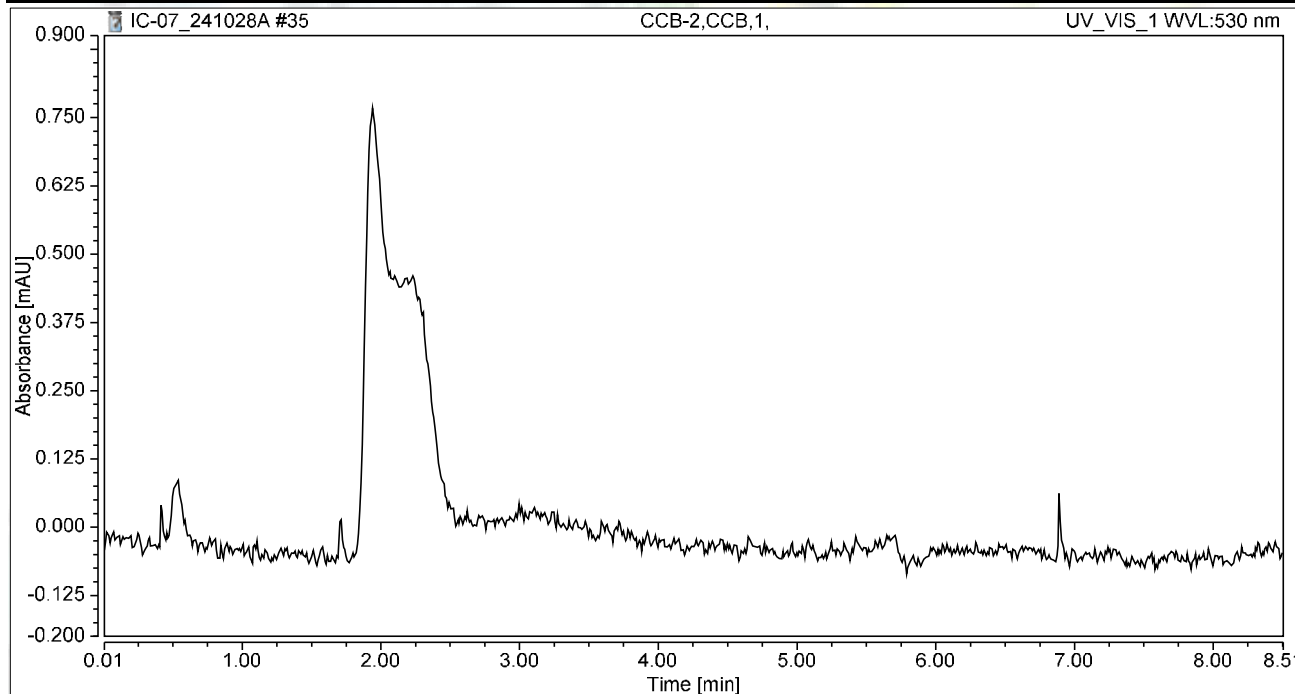
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	1.417	8.102	100.00	100.00	4.9941
Total:			1.417	8.102	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-2,CCB,1,	Run Time (min):	8.50
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 14:55	Sample Weight:	1.0000

Chromatogram



Integration Results

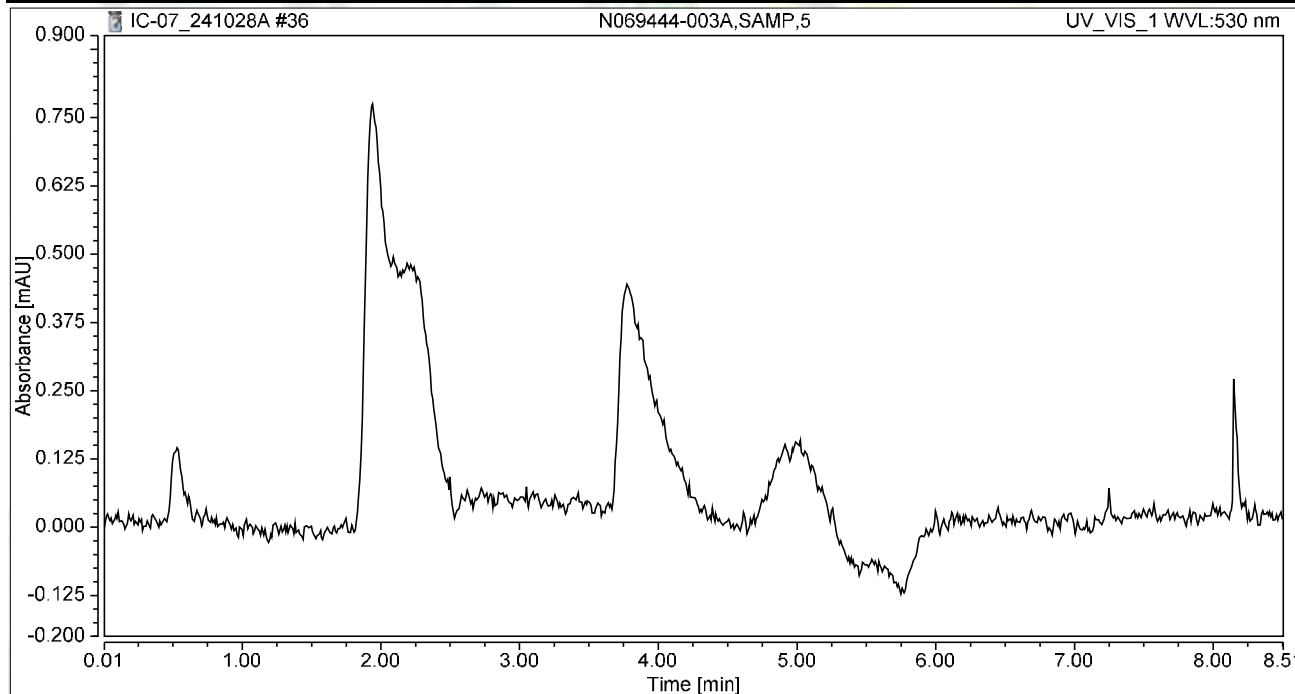
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069444-003A,SAMP,5	Run Time (min):	8.50
Vial Number:	36	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 15:04	Sample Weight:	1.0000

Chromatogram



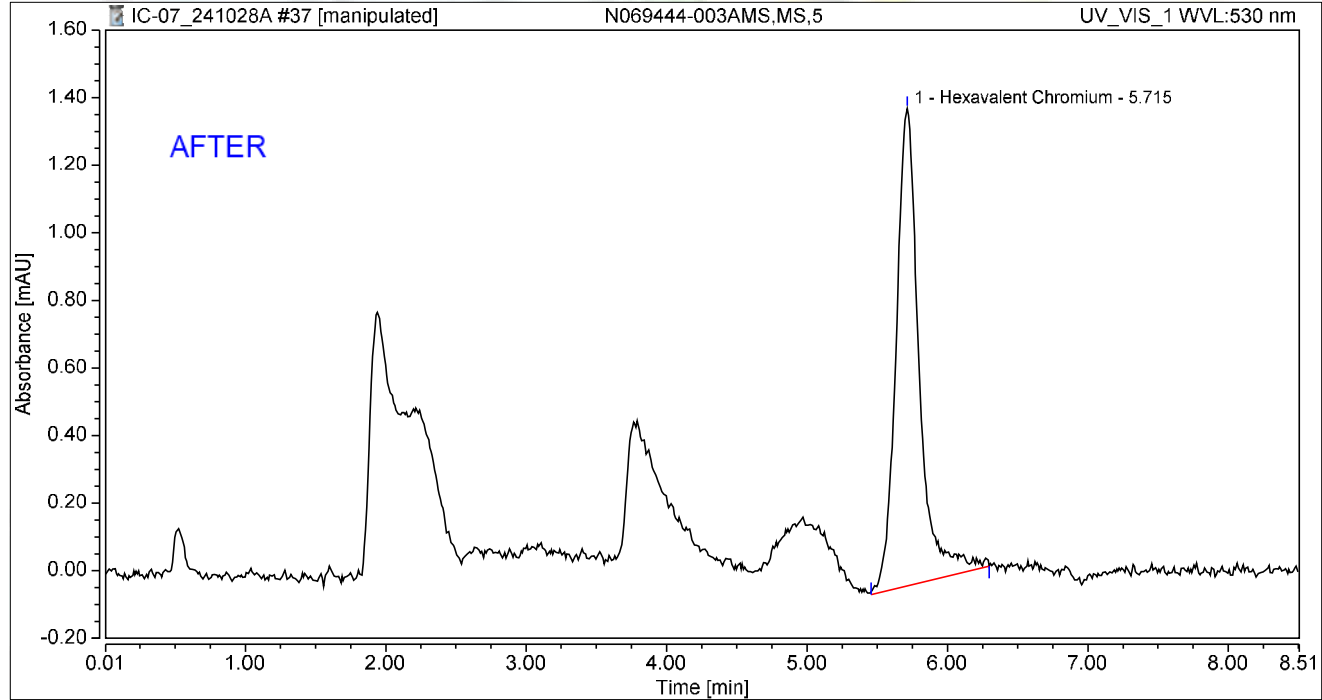
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069444-003AMS,MS,5	Run Time (min): 8.50
Vial Number:	37	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	28/Oct/24 15:14	Sample Weight: 1.0000

Chromatogram



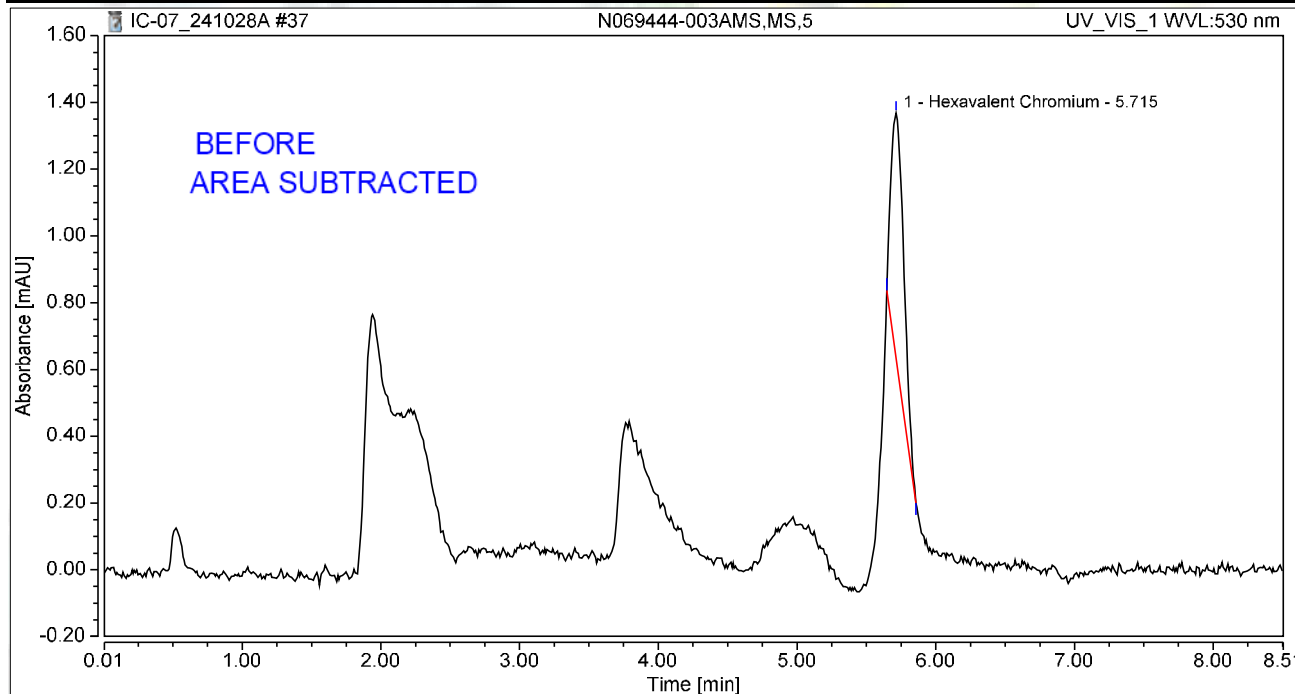
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.269	1.413	100.00	100.00	0.9486
Total:			0.269	1.413	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069444-003AMS,MS,5	Run Time (min):	8.50
Vial Number:	37	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 15:14	Sample Weight:	1.0000

Chromatogram



Integration Results

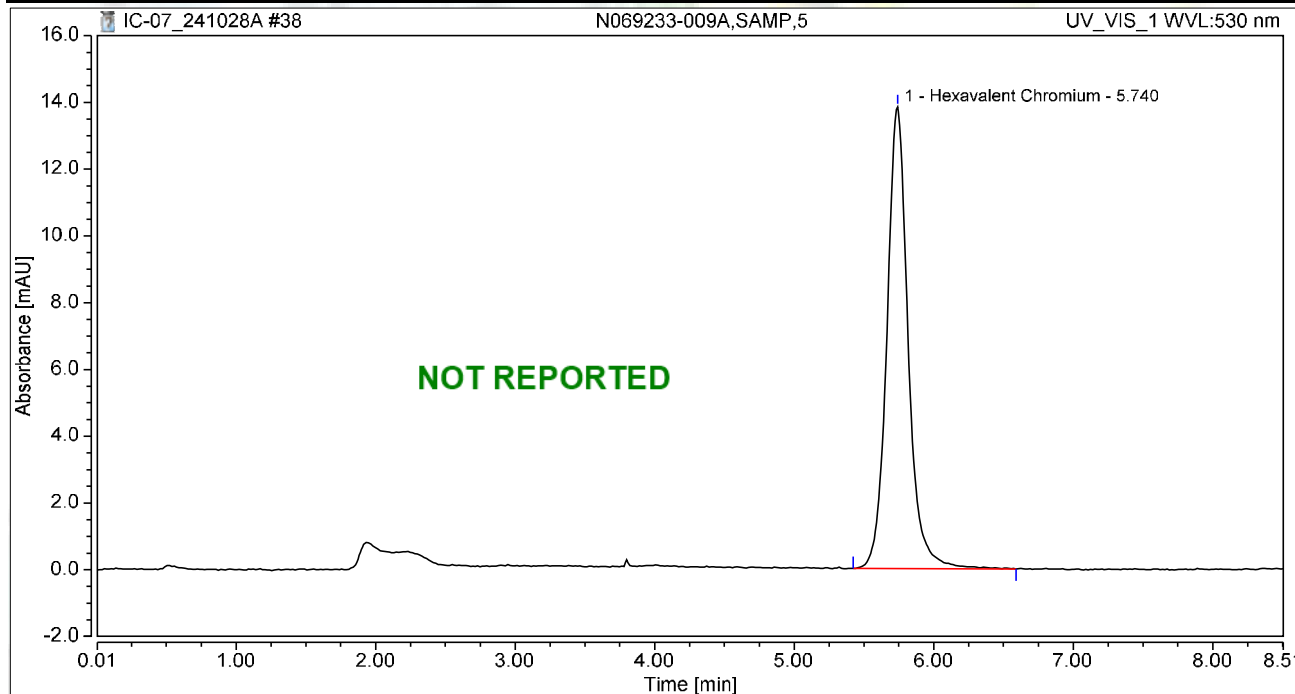
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.080	0.734	100.00	100.00	0.2808
Total:			0.080	0.734	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069233-009A,SAMP,5	Run Time (min):	8.50
Vial Number:	38	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 15:23	Sample Weight:	1.0000

Chromatogram



Integration Results

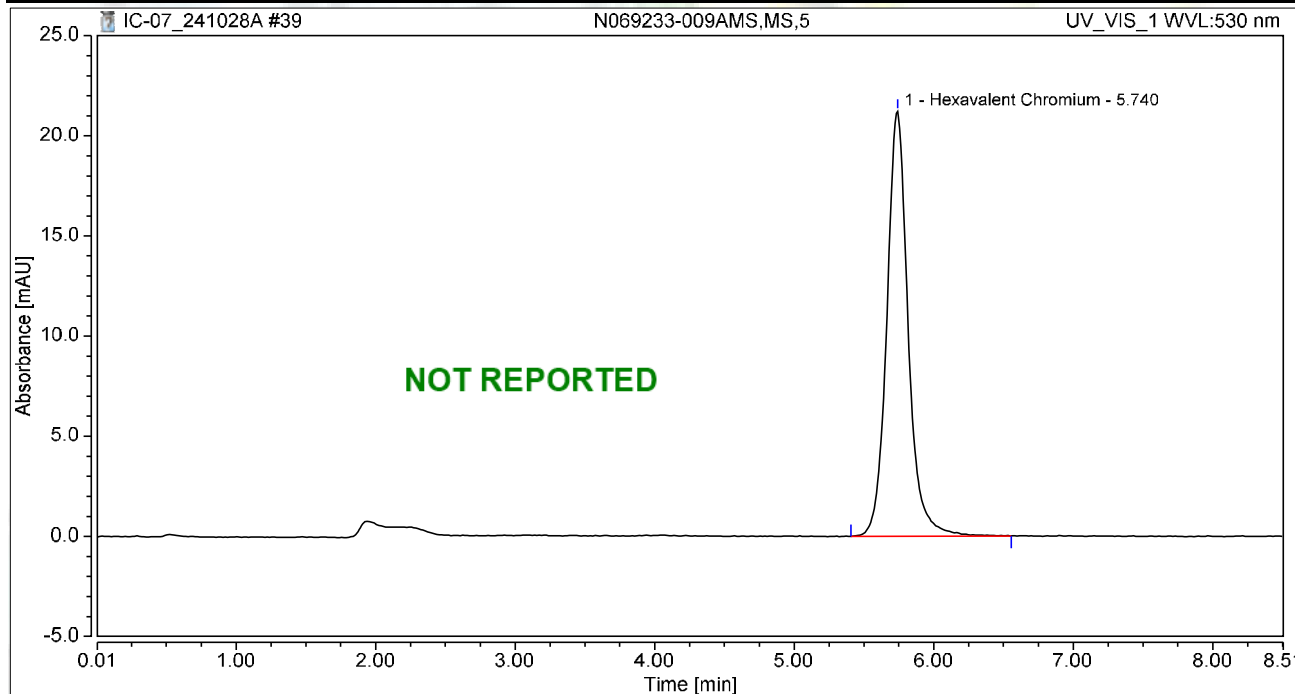
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	2.435	13.836	100.00	100.00	8.5798
Total:			2.435	13.836	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069233-009AMS,MS,5	Run Time (min):	8.50
Vial Number:	39	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 15:33	Sample Weight:	1.0000

Chromatogram



Integration Results

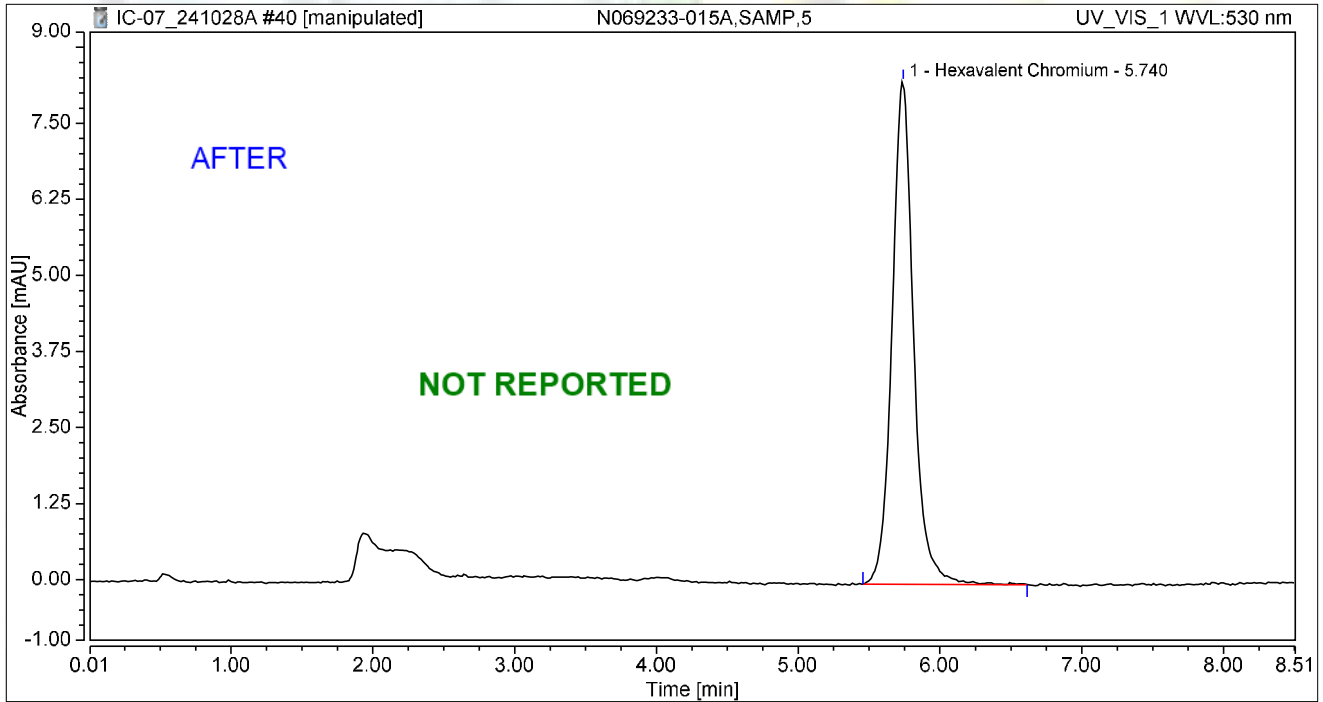
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	3.763	21.226	100.00	100.00	13.2599
Total:			3.763	21.226	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069233-015A,SAMP,5	Run Time (min):	8.50
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 15:42	Sample Weight:	1.0000

Chromatogram



Integration Results

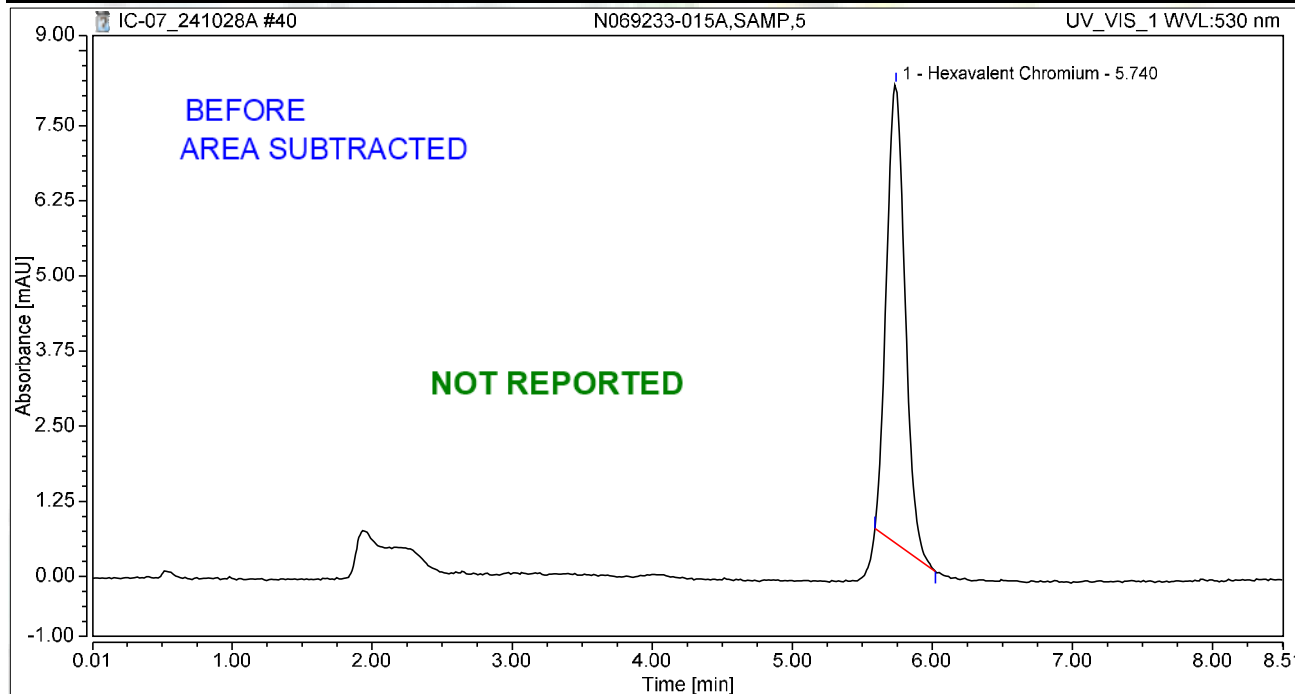
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	1.451	8.259	100.00	100.00	5.1150
Total:			1.451	8.259	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069233-015A,SAMP,5	Run Time (min):	8.50
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 15:42	Sample Weight:	1.0000

Chromatogram



Integration Results

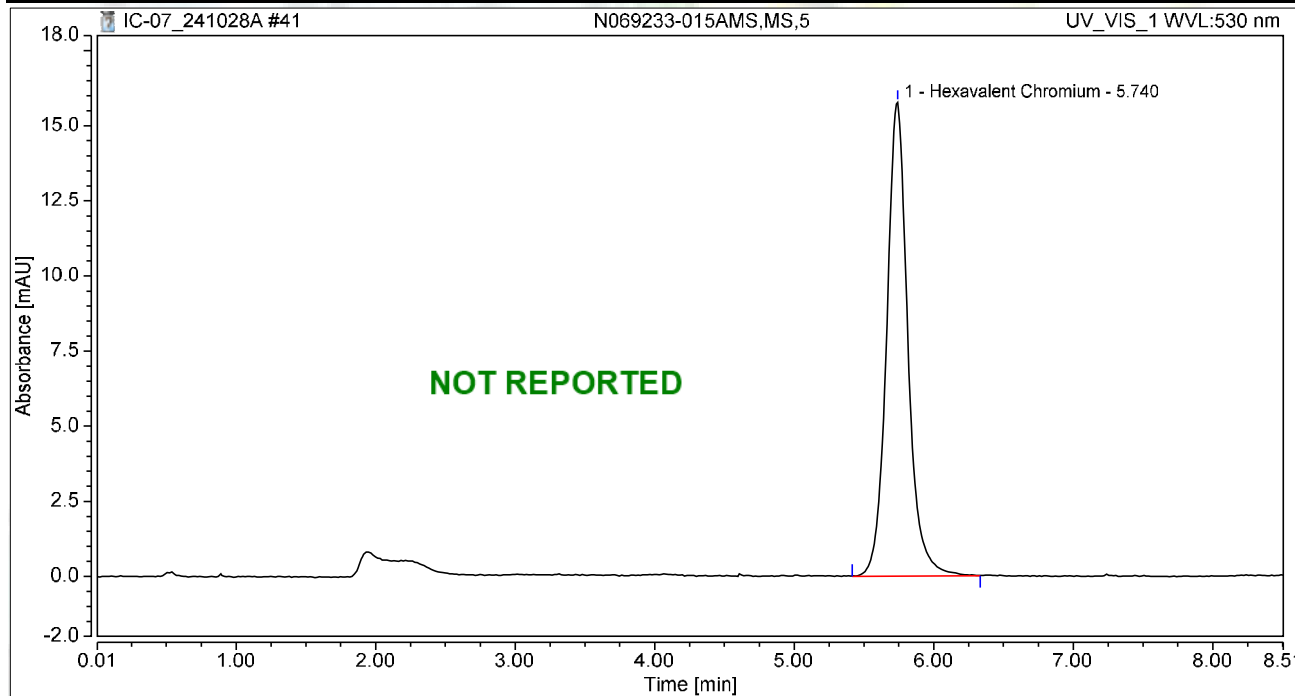
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	1.175	7.631	100.00	100.00	4.1407
Total:			1.175	7.631	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069233-015AMS,MS,5	Run Time (min):	8.50
Vial Number:	41	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 15:52	Sample Weight:	1.0000

Chromatogram



Integration Results

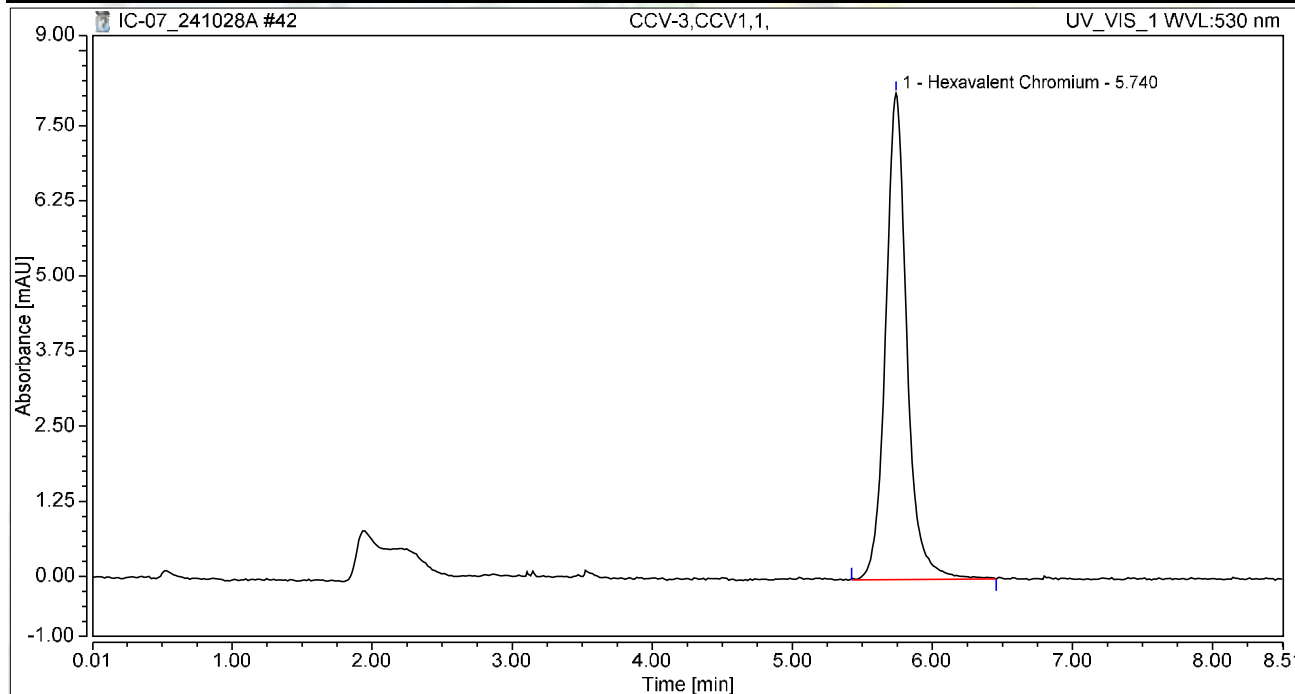
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	2.768	15.762	100.00	100.00	9.7557
Total:			2.768	15.762	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-3,CCV1,1,	Run Time (min):	8.50
Vial Number:	42	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 16:01	Sample Weight:	1.0000

Chromatogram



Integration Results

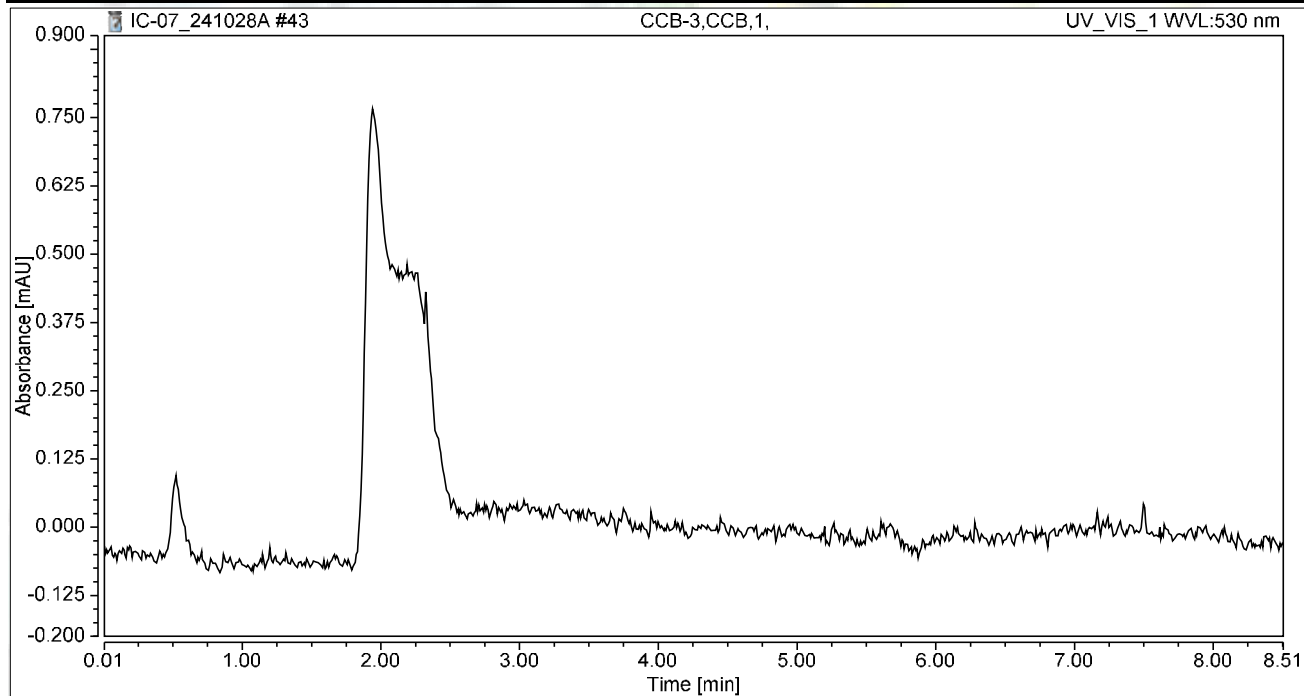
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	1.425	8.089	100.00	100.00	5.0216
Total:			1.425	8.089	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-3,CCB,1,	Run Time (min):	8.50
Vial Number:	43	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 16:11	Sample Weight:	1.0000

Chromatogram



Integration Results

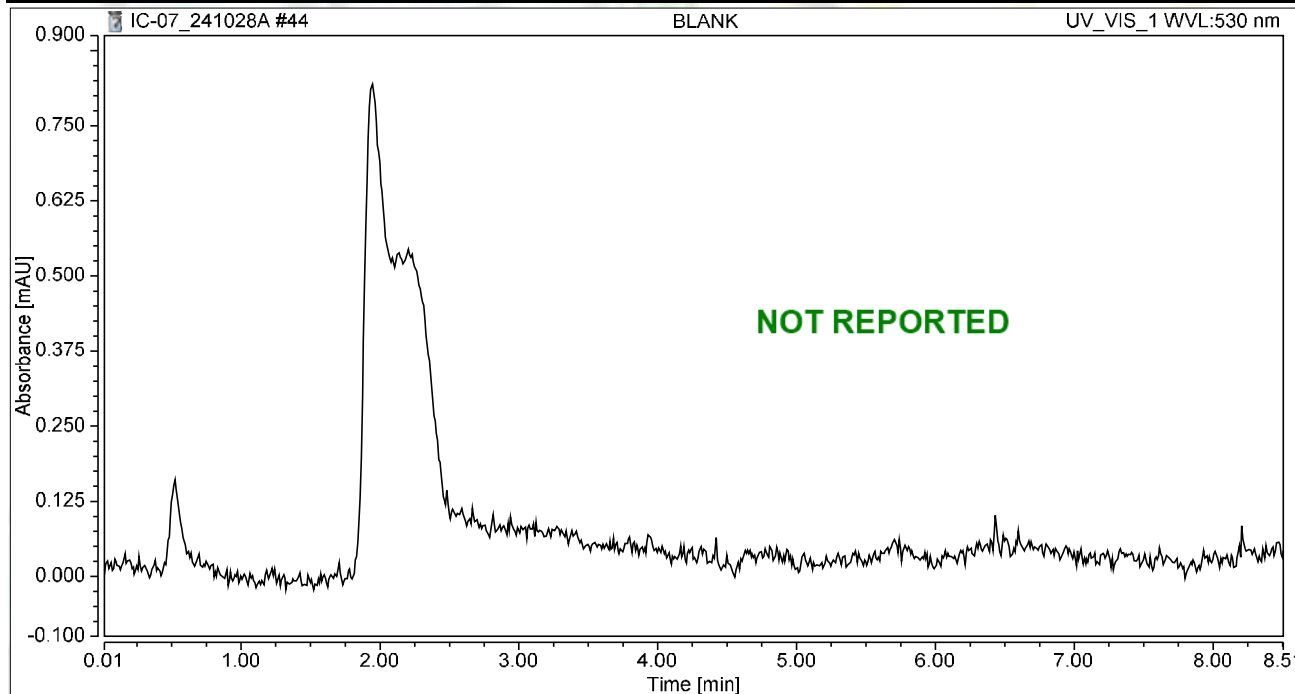
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.49
Vial Number:	44	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 16:20	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

EPA 6010B Dissolved



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 113723
ASSET #: N069445

NV00922

Instrument ID: ICP-04
Analyst: DBJ

Method: DISSOLVED
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 10/30/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MMS meet tune criteria? (ICP/MS only)			X			X
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?	X			X		
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ

2nd Level Reviewer _____

Date: _____

Date: 11/7/2024

SAMPLE CALCULATION



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SAMPLE CALCULATION

METHOD: EPA 6010B
TEST NAME: Heavy Metals by ICP
MATRIX: Groundwater

FORMULA:

Calculate the Iron concentration, in ug/L, in the original sample as follows:

$$\text{Iron, ug/L} = A * DF * PF * CF$$

where:

A = mg/L, calculated concentration

DF = Dilution Factor

PF = Final Volume of Digestate, mL / Amount of Sample, mL

CF= Conversion Factor from mg/L to ug/L, 1000

For Sample **N069445-001B**, the concentration in ug/L is calculated as follows:

$$\text{Iron, ug/L} = 0.09198 * 1 * (25/25) * 1000$$

$$\text{Iron, ug/L} = 91.98$$

Reporting results in two significant figures,

$$\text{Iron, ug/L} = 92$$

Reviewed by:

d/Rocha 11/26/2024

% RSD SUMMARY



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RSD SUMMARY: 241030B

Instrument ID: NV00922-ICP4

PQL: 0.02 mg/L

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
Blank	BLK	1	Fe	0	-	15	PASS
Standard 1	ICAL	1	Fe	0.02	-	15	PASS
Standard 2	ICAL	1	Fe	0.05	-	15	PASS
Standard 3	ICAL	1	Fe	2	-	15	PASS
Standard 4	ICAL	1	Fe	5	-	15	PASS
Standard 5	ICAL	1	Fe	7.5	-	15	PASS
Standard 6	ICAL	1	Fe	10	-	15	PASS
Standard 7	ICAL	1	Fe	20	-	15	PASS
ICV	ICV	1	Fe	10.0603	0.03	15	PASS
ICB	ICB	1	Fe	0.00122	26.08	15	< PQL
LLCCV1	CCV1	1	Fe	0.02013	1.41	20	PASS
LLCCV2	CCV1	1	Fe	0.43033	0.09	20	PASS
ICSA1	ICSA	1	Fe	10.4869	0.32	15	PASS
ICSAB1	ICSAB	1	Fe	10.18294	0.04	15	PASS
CCV1	CCV	1	Fe	10.05925	0.08	15	PASS
CCB1	CCB	1	Fe	0.00142	11.87	15	PASS
CCV2	CCV	1	Fe	9.95519	0.29	15	PASS
CCB2	CCB	1	Fe	0.00551	62.27	15	< PQL
ICSA2	ICSA	1	Fe	10.37579	0.39	15	PASS
ICSAB2	ICSAB	1	Fe	10.12535	0.18	15	PASS
MB-113723	MBLK	1	Fe	-0.0001	275.30	15	< PQL
LCS-113723	LCS	1	Fe	0.11243	0.35	15	PASS
N069445-001B	SAMP	1	Fe	0.09198	0.19	15	PASS
N069445-001B	SAMP	5	Fe	0.01724	2.36	15	PASS
N069445-001B-PS	PS	1	Fe	0.2096	0.22	15	PASS
N069445-001B-MS	MS	1	Fe	0.2148	0.20	15	PASS
N069445-001B-MSD	MSD	1	Fe	0.20475	0.36	15	PASS
N069498-007B	SAMP	1	Fe	0.01408	7.67	15	PASS
N069542-001B	SAMP	1	Fe	0.00973	1.91	15	PASS
N069542-002B	SAMP	1	Fe	1.84429	0.19	15	PASS
CCV3	CCV	1	Fe	9.92294	0.26	15	PASS
CCB3	CCB	1	Fe	0.00017	578.97	15	< PQL
N069542-003B	SAMP	1	Fe	0.11205	0.06	15	PASS
CCV4	CCV	1	Fe	9.95088	0.06	15	PASS
CCB4	CCB	1	Fe	0.00155	16.75	15	< PQL
ICSA3	ICSA	1	Fe	10.32735	0.37	15	PASS
ICSAB3	ICSAB	1	Fe	10.0874	0.19	15	PASS
CCV5	CCV	1	Fe	9.97552	0.10	15	PASS
CCB5	CCB	1	Fe	0.00195	11.29	15	PASS
CCV6	CCV	1	Fe	10.04389	0.03	15	PASS
CCB6	CCB	1	Fe	0.00643	7.32	15	PASS

RSD SUMMARY: 241030B

Instrument ID: NV00922-ICP4

PQL: 0.02 mg/L

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
CCV7	CCV	1	Fe	10.09592	0.28	15	PASS
CCB7	CCB	1	Fe	0.01132	8.39	15	PASS
CCV8	CCV	1	Fe	10.06899	0.17	15	PASS
CCB8	CCB	1	Fe	0.00605	3.08	15	PASS
ICSA4	ICSA	1	Fe	10.43322	0.05	15	PASS
ICSAB4	ICSAB	1	Fe	10.14956	0.07	15	PASS
CCV9	CCV	1	Fe	10.06141	0.02	15	PASS
CCB9	CCB	1	Fe	0.00642	8.59	15	PASS
CCV10	CCV	1	Fe	10.08954	0.06	15	PASS
CCB10	CCB	1	Fe	0.0099	16.11	15	< PQL
CCV11	CCV	1	Fe	10.03886	0.06	15	PASS
CCB11	CCB	1	Fe	0.00298	16.60	15	< PQL
ICSA5	ICSA	1	Fe	10.40365	0.61	15	PASS
ICSAB5	ICSAB	1	Fe	10.1288	0.05	15	PASS

ANALYSIS RUN LOG



ASSET LABORATORIES
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
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INJECTION LOG: 241030B

Instrument ID: NV00922-ICP4

STANDARD CODE	
Standard1	MWST-240820N, 0.5<50mL
Standard2	MWST-240820O
Standard3	MWST-240820P, 5<50mL
Standard4	MWST-240820P,12.5<50mL
Standard5	MWST-240820P, 15<40mL
Standard6	MWST-240820P, 25<50mL
Standard7	MWST-240820P
ICV	MWST-240820AG
CCV	MWST-240820P, 25<50mL
ICSA/ICSAB	MWST-240820Q / MWST-240820R
Int. Std	MSST-240801A/240801B
PS Spike	MWST-240820Y/Z/AA

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
1	Blank	BLK	1	10/30/2024	2:21:23 PM
2	Standard 1	ICAL	1	10/30/2024	2:23:40 PM
3	Standard 2	ICAL	1	10/30/2024	2:25:57 PM
4	Standard 3	ICAL	1	10/30/2024	2:28:14 PM
5	Standard 4	ICAL	1	10/30/2024	2:30:32 PM
6	Standard 5	ICAL	1	10/30/2024	2:32:50 PM
7	Standard 6	ICAL	1	10/30/2024	2:35:07 PM
8	Standard 7	ICAL	1	10/30/2024	2:37:24 PM
9	ICV	ICV	1	10/30/2024	2:50:47 PM
10	ICB	ICB	1	10/30/2024	2:53:06 PM
11	LLCCV1	CCV1	1	10/30/2024	2:55:23 PM
12	LLCCV2	CCV1	1	10/30/2024	2:57:41 PM
13	ICSA1	ICSA	1	10/30/2024	2:59:58 PM
14	ICSAB1	ICSAB	1	10/30/2024	3:02:15 PM
15	N069476-001B	SAMP	5	10/30/2024	3:07:41 PM
16	N069476-001B-MS	MS	5	10/30/2024	3:09:58 PM
17	MB-113705	MBLK	1	10/30/2024	3:23:39 PM
18	MB-113681 TCLP	MBLK	1	10/30/2024	3:25:56 PM
19	LCS-113705	LCS	1	10/30/2024	3:28:13 PM
20	N069450-002A	SAMP	1	10/30/2024	3:30:30 PM
21	N069450-002A	SAMP	5	10/30/2024	3:32:47 PM
22	N069450-002A-PS	PS	1	10/30/2024	3:35:04 PM
23	N069450-002A-MS	MS	1	10/30/2024	3:37:21 PM
24	N069450-002A-MSD	MSD	1	10/30/2024	3:39:38 PM
25	CCV1	CCV	1	10/30/2024	3:41:55 PM
26	CCB1	CCB	1	10/30/2024	3:44:11 PM
27	N069450-003A	SAMP	1	10/30/2024	3:46:29 PM
28	N069450-006A	SAMP	1	10/30/2024	3:48:46 PM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
29	N069450-009A	SAMP	1	10/30/2024	3:51:04 PM
30	N069450-010A	SAMP	1	10/30/2024	3:53:21 PM
31	N069450-012A	SAMP	1	10/30/2024	3:55:39 PM
32	N069504-001A	SAMP	1	10/30/2024	3:57:56 PM
33	CCV2	CCV	1	10/30/2024	4:00:13 PM
34	CCB2	CCB	1	10/30/2024	4:05:59 PM
35	ICSA2	ICSA	1	10/30/2024	4:08:16 PM
36	ICSAB2	ICSAB	1	10/30/2024	4:10:34 PM
37	MB-113723	MBLK	1	10/30/2024	4:15:35 PM
38	LCS-113723	LCS	1	10/30/2024	4:17:52 PM
39	N069445-001B	SAMP	1	10/30/2024	4:20:09 PM
40	N069445-001B	SAMP	5	10/30/2024	4:22:26 PM
41	N069445-001B-PS	PS	1	10/30/2024	4:24:43 PM
42	N069445-001B-MS	MS	1	10/30/2024	4:27:00 PM
43	N069445-001B-MSD	MSD	1	10/30/2024	4:29:17 PM
44	N069498-007B	SAMP	1	10/30/2024	4:31:35 PM
45	N069542-001B	SAMP	1	10/30/2024	4:33:52 PM
46	N069542-002B	SAMP	1	10/30/2024	4:36:09 PM
47	CCV3	CCV	1	10/30/2024	4:38:26 PM
48	CCB3	CCB	1	10/30/2024	4:43:57 PM
49	N069542-003B	SAMP	1	10/30/2024	4:46:15 PM
50	MB-113725	MBLK	1	10/30/2024	4:51:51 PM
51	LCS-113725	LCS	1	10/30/2024	4:59:39 PM
52	N069445-001C	SAMP	1	10/30/2024	5:01:56 PM
53	N069445-001C	SAMP	5	10/30/2024	5:04:13 PM
54	N069445-001C-PS	PS	1	10/30/2024	5:06:30 PM
55	N069445-001C-MS	MS	1	10/30/2024	5:08:47 PM
56	N069445-001C-MSD	MSD	1	10/30/2024	5:11:05 PM
57	CCV4	CCV	1	10/30/2024	5:13:21 PM
58	CCB4	CCB	1	10/30/2024	5:15:38 PM
59	ICSA3	ICSA	1	10/30/2024	5:17:56 PM
60	ICSAB3	ICSAB	1	10/30/2024	5:20:13 PM
61	MB-113724	MBLK	1	10/30/2024	5:24:59 PM
62	LCS-113724	LCS	1	10/30/2024	5:27:15 PM
63	N069529-001B	SAMP	5	10/30/2024	5:29:32 PM
64	N069529-001B	SAMP	25	10/30/2024	5:31:49 PM
65	N069529-001B-PS	PS	5	10/30/2024	5:34:06 PM
66	N069529-001B-MS	MS	5	10/30/2024	5:36:23 PM
67	N069529-001B-MSD	MSD	5	10/30/2024	5:38:40 PM
68	N069529-002B	SAMP	5	10/30/2024	5:40:57 PM
69	MB-113619 STLC	MBLK	5	10/30/2024	5:52:37 PM
70	CCV5	CCV	1	10/30/2024	5:54:54 PM
71	CCB5	CCB	1	10/30/2024	5:57:12 PM
72	MB-113713	MBLK	1	10/30/2024	6:03:27 PM
73	LCS-113713	LCS	1	10/30/2024	6:05:44 PM
74	N069528-001B	SAMP	1	10/30/2024	6:08:01 PM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
75	N069528-002A	SAMP	1	10/30/2024	6:10:18 PM
76	N069531-001A	SAMP	1	10/30/2024	6:12:35 PM
77	N069532-001A	SAMP	1	10/30/2024	6:14:53 PM
78	N069532-001A	SAMP	5	10/30/2024	6:17:10 PM
79	N069532-001A-PS	PS	1	10/30/2024	6:19:27 PM
80	N069532-001A-MS	MS	1	10/30/2024	6:21:45 PM
81	N069532-001A-MSD	MSD	1	10/30/2024	6:24:02 PM
82	CCV6	CCV	1	10/30/2024	6:26:18 PM
83	CCB6	CCB	1	10/30/2024	6:28:35 PM
84	N069532-002A	SAMP	1	10/30/2024	6:30:52 PM
85	N069533-001A	SAMP	1	10/30/2024	6:33:10 PM
86	N069533-002A	SAMP	1	10/30/2024	6:35:27 PM
87	N069534-001A	SAMP	1	10/30/2024	6:37:44 PM
88	N069534-002A	SAMP	1	10/30/2024	6:40:01 PM
89	N069534-003A	SAMP	1	10/30/2024	6:42:18 PM
90	N069534-004A	SAMP	1	10/30/2024	6:44:35 PM
91	N069534-005A	SAMP	1	10/30/2024	6:46:52 PM
92	N069534-006A	SAMP	1	10/30/2024	6:49:09 PM
93	N069535-001A	SAMP	1	10/30/2024	6:51:26 PM
94	CCV7	CCV	1	10/30/2024	6:53:43 PM
95	CCB7	CCB	1	10/30/2024	6:56:00 PM
96	N069535-002A	SAMP	1	10/30/2024	6:58:17 PM
97	N069535-003A	SAMP	1	10/30/2024	7:00:34 PM
98	N069535-004A	SAMP	1	10/30/2024	7:02:51 PM
99	N069535-005A	SAMP	1	10/30/2024	7:05:09 PM
100	N069535-006A	SAMP	1	10/30/2024	7:07:26 PM
101	N069535-007A	SAMP	1	10/30/2024	7:09:43 PM
102	N069535-003A	SAMP	1	10/30/2024	7:12:00 PM
103	CCV8	CCV	1	10/30/2024	7:16:28 PM
104	CCB8	CCB	1	10/30/2024	7:18:45 PM
105	ICSA4	ICSA	1	10/30/2024	7:21:02 PM
106	ICSAB4	ICSAB	1	10/30/2024	7:23:18 PM
107	MB-113714	MBLK	1	10/30/2024	7:25:36 PM
108	LCS-113714	LCS	1	10/30/2024	7:27:53 PM
109	N069536-001A	SAMP	1	10/30/2024	7:30:10 PM
110	N069536-001A	SAMP	5	10/30/2024	7:32:27 PM
111	N069536-001A-PS	PS	1	10/30/2024	7:34:44 PM
112	N069536-001A-MS	MS	1	10/30/2024	7:37:01 PM
113	N069536-001A-MSD	MSD	1	10/30/2024	7:39:17 PM
114	N069536-002A	SAMP	1	10/30/2024	7:41:34 PM
115	N069536-003A	SAMP	1	10/30/2024	7:43:52 PM
116	N069537-001A	SAMP	1	10/30/2024	7:46:09 PM
117	CCV9	CCV	1	10/30/2024	7:48:25 PM
118	CCB9	CCB	1	10/30/2024	7:50:42 PM
119	N069538-001A	SAMP	1	10/30/2024	7:52:59 PM
120	N069540-001A	SAMP	1	10/30/2024	7:55:16 PM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
121	N069541-001A	SAMP	1	10/30/2024	7:57:33 PM
122	N069541-002A	SAMP	1	10/30/2024	7:59:50 PM
123	N069541-003A	SAMP	1	10/30/2024	8:02:06 PM
124	CCV10	CCV	1	10/30/2024	8:05:52 PM
125	CCB10	CCB	1	10/30/2024	8:08:09 PM
126	MB-113730	MBLK	1	10/30/2024	8:10:26 PM
127	LCS-113730	LCS	1	10/30/2024	8:12:43 PM
128	N069555-001A	SAMP	1	10/30/2024	8:15:00 PM
129	N069555-001A	SAMP	5	10/30/2024	8:17:17 PM
130	N069555-001A-PS	PS	1	10/30/2024	8:19:35 PM
131	N069555-001A-MS	MS	1	10/30/2024	8:21:52 PM
132	N069555-001A-MSD	MSD	1	10/30/2024	8:24:09 PM
133	N069555-002A	SAMP	1	10/30/2024	8:26:26 PM
134	CCV11	CCV	1	10/30/2024	8:29:10 PM
135	CCB11	CCB	1	10/30/2024	8:31:27 PM
136	ICSA5	ICSA	1	10/30/2024	8:33:44 PM
137	ICSAB5	ICSAB	1	10/30/2024	8:36:01 PM

SAMPLE PREPARATION LOG



ASSET LABORATORIES
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ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: **10/30/2024 10:41:22 AM**

Reviewed/ Date: **KDG / 11/7/2024**

Prep End Date: **10/30/2024 2:20:00 PM**

Initials/ Date: _____

Prep Batch **113723** Prep Code:**3010_W_DISS**

Technician: **Diane Jetajobe**

Prep Factor Units Temp. (°C): Location:
mL / mL **95.1** **DB-4-37**

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-113723 50ML LOT # MP3971	Aqueous		25	<input type="checkbox"/>	25	1.000		
MB-113723 THERMOMETER ID: DIGESTION 7	Aqueous		25	<input type="checkbox"/>	25	1.000		
N069445-001B redigest	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069445-001B-MS	Groundwater		25	<input type="checkbox"/>	25	1.000		
N069445-001B-MSD	Groundwater		25	<input type="checkbox"/>	25	1.000		
N069498-007B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069542-001B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069542-002B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069542-003B	Water	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17140	NITRIC ACID
17147	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
MWST-240820AA	ICP Solution C	LCS,MS,MSD	0.5
MWST-240820Y	ICP Solution A	LCS,MS,MSD	0.5
MWST-240820Z	ICP Solution B	LCS,MS,MSD	0.5

INITIAL CALIBRATION DATA SUMMARY



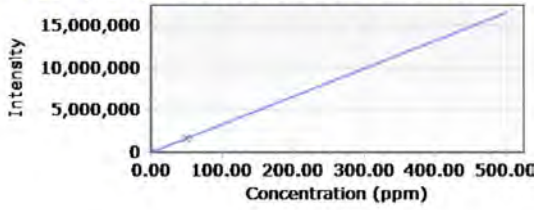
ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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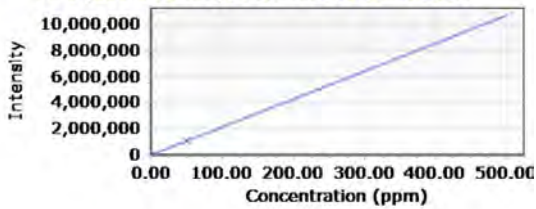
Cu I (324.754 nm), Interferent Calibration



Intensity = 33101.85948620 * Concentration + 684.20878678
 Correlation coefficient: 1.00000
 %RSE:N/A

Standards	Intensity	Method Conc	Calculated Conc	% Error
IEC Blank	684.20879	0.00000	0.00000	N/A
Interferent 09 (Cu)	1655777.18310	50.00000	50.00000	0.00000

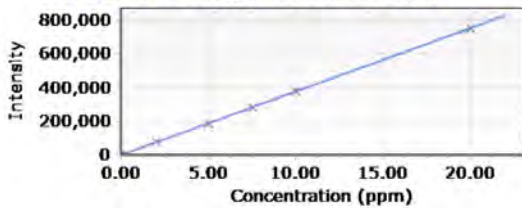
Fe I (239.563 nm), Interferent Calibration



Intensity = 21449.83771380 * Concentration + 29.10415739
 Correlation coefficient: 1.00000
 %RSE:N/A

Standards	Intensity	Method Conc	Calculated Conc	% Error
IEC Blank	29.10416	0.00000	0.00000	N/A
Interferent 10 (Fe)	1072520.98985	50.00000	50.00000	0.00000

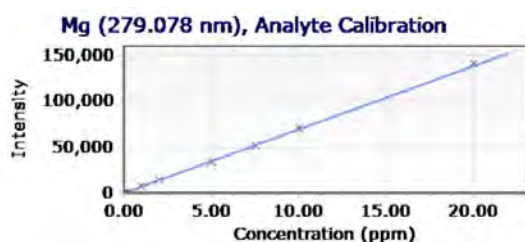
Fe (259.940 nm), Analyte Calibration



Intensity = 37794.19780520 * Concentration + 58.35826216
 Correlation coefficient: 0.99999
 %RSE:9.70340840

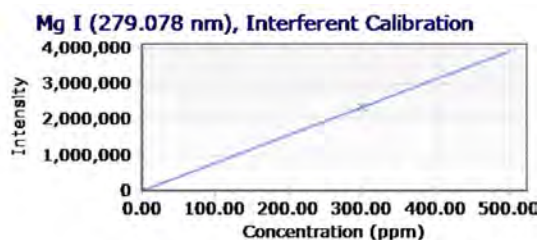
Standards	Intensity	Method Conc	Calculated Conc	% Error
Blank	26.20730	0.00000	-0.00085	N/A

Standards	Intensity	Method Conc	Calculated Conc	% Error
Standard 1	811.97128	0.02000	0.01994	0.30044
Standard 2	2357.70109	0.05000	0.06084	21.67703
Standard 3	75526.03211	2.00000	1.99681	0.15971
Standard 4	189097.11600	5.00000	5.00179	0.03586
Standard 5	281619.77529	7.50000	7.44986	0.66856
Standard 6	379215.28728	10.00000	10.03215	0.32146
Standard 7	752398.64619	20.00000	19.90624	0.46881



Intensity = 6914.45638243 * Concentration + 60.24460121
 Correlation coefficient: 0.99997
 %RSE:1.98816684

Standards	Intensity	Method Conc	Calculated Conc	% Error
Blank	23.63999	0.00000	-0.00529	N/A
Standard 1	765.71885	0.10000	0.10203	2.02888
Standard 2	7191.50626	1.00000	1.03136	3.13554
Standard 3	13893.94745	2.00000	2.00069	0.03464
Standard 4	34627.18921	5.00000	4.99923	0.01544
Standard 5	52074.81945	7.50000	7.52258	0.30111
Standard 6	70011.18339	10.00000	10.11662	1.16622
Standard 7	141238.23239	20.00000	20.41780	2.08900



Intensity = 7830.79440384 * Concentration + 25.13274543

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICV	SampType: ICV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005						
Client ID: ICV	Batch ID: R195005	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276150						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10060.300	20	10000	0	101	90	110				
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Sample ID: LLCCV1	SampType: CCV1	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005						
Client ID: ZZZZZZ	Batch ID: R195005	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276152						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	20.130	20	20.00	0	101	80	120				
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Sample ID: CCV1	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005						
Client ID: CCV	Batch ID: R195005	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276166						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10059.250	20	10000	0	101	90	110				
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Sample ID: CCV2	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005						
Client ID: CCV	Batch ID: R195005	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276174						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9955.190	20	10000	0	99.6	90	110				
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Sample ID: CCV3	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005						
Client ID: CCV	Batch ID: R195005	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276188						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9922.940	20	10000	0	99.2	90	110				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: CCV4	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005						
Client ID: CCV	Batch ID: R195005	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276198						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	9950.880	20	10000	0	99.5	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICB	SampType: ICB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005
Client ID: ICB	Batch ID: R195005	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276151
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Iron	1.220	20
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Sample ID: CCB1	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005
Client ID: CCB	Batch ID: R195005	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276167
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Iron	1.420	20
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Sample ID: CCB2	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005
Client ID: CCB	Batch ID: R195005	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276175
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Iron	5.510	20
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Sample ID: CCB3	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005
Client ID: CCB	Batch ID: R195005	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276189
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Iron	0.170	20
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Sample ID: CCB4	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005
Client ID: CCB	Batch ID: R195005	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276199
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Iron	1.550	20
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICSA1		SampType: ICSA		TestCode: 6010_WDPG		Units: µg/L		Prep Date:		RunNo: 195005		
Client ID: ICSA		Batch ID: R195005		TestNo: EPA 6010B				Analysis Date: 10/30/2024		SeqNo: 6276154		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	10231.400	50	10000	0	102	80	120					
Calcium	10139.280	500	10000	0	101	80	120					
Iron	10486.900	20	10000	0	105	80	120					
Magnesium	10250.280	100	10000	0	103	80	120					

Sample ID: ICSA B1		SampType: ICSA B		TestCode: 6010_WDPG		Units: µg/L		Prep Date:		RunNo: 195005		
Client ID: ICSA B		Batch ID: R195005		TestNo: EPA 6010B				Analysis Date: 10/30/2024		SeqNo: 6276155		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	10215.090	50	10000	0	102	80	120					
Calcium	9956.970	500	10000	0	99.6	80	120					
Iron	10182.940	20	10000	0	102	80	120					
Magnesium	10099.530	100	10000	0	101	80	120					

Sample ID: ICSA2		SampType: ICSA		TestCode: 6010_WDPG		Units: µg/L		Prep Date:		RunNo: 195005		
Client ID: ICSA		Batch ID: R195005		TestNo: EPA 6010B				Analysis Date: 10/30/2024		SeqNo: 6276176		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	10168.810	50	10000	0	102	80	120					
Calcium	10098.190	500	10000	0	101	80	120					
Iron	10375.790	20	10000	0	104	80	120					
Magnesium	10148.170	100	10000	0	101	80	120					

Sample ID: ICSA B2		SampType: ICSA B		TestCode: 6010_WDPG		Units: µg/L		Prep Date:		RunNo: 195005		
Client ID: ICSA B		Batch ID: R195005		TestNo: EPA 6010B				Analysis Date: 10/30/2024		SeqNo: 6276177		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	10176.960	50	10000	0	102	80	120					
Calcium	9904.210	500	10000	0	99.0	80	120					

Qualifiers:

- | | | |
|---|--|--|
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| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICSAB2	SampType: ICSAB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005						
Client ID: ICSAB	Batch ID: R195005	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276177						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10125.350	20	10000	0	101	80	120				
Magnesium	9983.410	100	10000	0	99.8	80	120				

Sample ID: ICSA3	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005						
Client ID: ICSA	Batch ID: R195005	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276200						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	10219.800	50	10000	0	102	80	120				
Calcium	10036.240	500	10000	0	100	80	120				
Iron	10327.350	20	10000	0	103	80	120				
Magnesium	10088.270	100	10000	0	101	80	120				

Sample ID: ICSAB3	SampType: ICSAB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005						
Client ID: ICSAB	Batch ID: R195005	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276201						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	10215.470	50	10000	0	102	80	120				
Calcium	9821.000	500	10000	0	98.2	80	120				
Iron	10087.400	20	10000	0	101	80	120				
Magnesium	9928.370	100	10000	0	99.3	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
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INTERNAL STANDARD SUMMARY



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INTERNAL STANDARD: 241030B

Instrument ID: NV00922-ICP4

			Yttrium, 1.0 mg/L			
Sample Name	Type	DF	Reported Conc	%REC	Criteria	Comment
Blank	BLK	1	1	100	65-125	PASS
Standard 1	ICAL	1	1.01	101	65-125	PASS
Standard 2	ICAL	1	1.06	106	65-125	PASS
Standard 3	ICAL	1	1.11	111	65-125	PASS
Standard 4	ICAL	1	1.07	107	65-125	PASS
Standard 5	ICAL	1	1.07	107	65-125	PASS
Standard 6	ICAL	1	1.02	102	65-125	PASS
Standard 7	ICAL	1	1.01	101	65-125	PASS
ICV	ICV	1	1.01	101	65-125	PASS
ICB	ICB	1	1.02	102	65-125	PASS
LLCCV1	CCV1	1	1.03	103	65-125	PASS
LLCCV2	CCV1	1	1.05	105	65-125	PASS
ICSA1	ICSA	1	1.05	105	65-125	PASS
ICSAB1	ICSAB	1	1.07	107	65-125	PASS
CCV1	CCV	1	1.04	104	65-125	PASS
CCB1	CCB	1	1.04	104	65-125	PASS
CCV2	CCV	1	1.01	101	65-125	PASS
CCB2	CCB	1	1.04	104	65-125	PASS
ICSA2	ICSA	1	1.02	102	65-125	PASS
ICSAB2	ICSAB	1	1.04	104	65-125	PASS
MB-113723	MBLK	1	1.05	105	65-125	PASS
LCS-113723	LCS	1	0.96	96	65-125	PASS
N069445-001B	SAMP	1	0.92	92	65-125	PASS
N069445-001B	SAMP	5	1	100	65-125	PASS
N069445-001B-PS	PS	1	0.88	88	65-125	PASS
N069445-001B-MS	MS	1	0.92	92	65-125	PASS
N069445-001B-MSD	MSD	1	0.95	95	65-125	PASS
N069498-007B	SAMP	1	0.96	96	65-125	PASS
N069542-001B	SAMP	1	0.91	91	65-125	PASS
N069542-002B	SAMP	1	0.93	93	65-125	PASS
CCV3	CCV	1	1.03	103	65-125	PASS
CCB3	CCB	1	1.08	108	65-125	PASS
N069542-003B	SAMP	1	0.93	93	65-125	PASS
CCV4	CCV	1	1.08	108	65-125	PASS
CCB4	CCB	1	1.08	108	65-125	PASS
ICSA3	ICSA	1	1.09	109	65-125	PASS
ICSAB3	ICSAB	1	1.12	112	65-125	PASS
CCV5	CCV	1	1.06	106	65-125	PASS
CCB5	CCB	1	1.06	106	65-125	PASS
CCV6	CCV	1	1.07	107	65-125	PASS
CCB6	CCB	1	1.07	107	65-125	PASS

INTERNAL STANDARD: 241030B

Instrument ID: NV00922-ICP4

Sample Name	Type	DF	Yttrium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
CCV7	CCV	1	1.07	107	65-125	PASS
CCB7	CCB	1	1.06	106	65-125	PASS
CCV8	CCV	1	1.06	106	65-125	PASS
CCB8	CCB	1	1.06	106	65-125	PASS
ICSA4	ICSA	1	1.08	108	65-125	PASS
ICSAB4	ICSAB	1	1.1	110	65-125	PASS
CCV9	CCV	1	1.07	107	65-125	PASS
CCB9	CCB	1	1.06	106	65-125	PASS
CCV10	CCV	1	1.06	106	65-125	PASS
CCB10	CCB	1	1.06	106	65-125	PASS
CCV11	CCV	1	1.05	105	65-125	PASS
CCB11	CCB	1	1.05	105	65-125	PASS
ICSA5	ICSA	1	1.07	107	65-125	PASS
ICSAB5	ICSAB	1	1.1	110	65-125	PASS

SERIAL DILUTION/ POST DIGESTION SPIKE



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ASSET Laboratories

ICP-Metals in Water

Work Order No.: N069445
Test Method: EPA 6010B
Analysis Date: 10/30/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 113723

Instrument ID: NV00922-ICP4
Instrument Description: Agilent 5800VDV

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Fe. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069445-001B DT 5x	Iron	Fe	µg/L	86.2	NA	91.98	6.28%	10

Reviewed by:

d/Rocha 11/26/2024

Note: NA - Not Applicable

11/18/24 23:21

N069445_6010B_113723_DT

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPB

Sample ID: N069445-001B-PS	SampType: PS	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005						
Client ID: ZZZZZZ	Batch ID: 113723	TestNo: EPA 6010B	EPA 3010A	Analysis Date: 10/30/2024	SeqNo: 6276182						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	209.600	20	100.0	91.98	118	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

MDL STUDY



ASSET LABORATORIES
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“Serving Clients with Passion and Professionalism”

Method Detection Limits

Analytical Method: EPA 6010B
Digestion Method: 3010_W
Digestion Date: 1/31/2024-2/16/24
Instrument Name: ICP2/ ICP3
Analyst/Technician: DJ

Matrix: WATER
Unit: mg/L

Analyte	1	2	3	4	5	6	7	SD	AMT SPIKED (ppm)	MDLs	PQL	MDL
Beryllium	0.0010	0.0010	0.0010	0.0012	0.0012	0.0009	0.0009	0.00013	0.0010	0.00042	0.0010	0.0004
Boron	0.1015	0.0996	0.0981	0.0955	0.0962	0.0921	0.0811	0.00679	0.1000	0.02134	0.1000	0.0519
Magnesium	0.1018	0.1005	0.1004	0.1023	0.1006	0.0924	0.0926	0.00426	0.1000	0.01340	0.1000	0.0134
Silicon	0.0175	0.0205	0.0214	0.0114	0.0100	0.0210	0.0211	0.00489	0.0200	0.01537	0.0200	0.0154
Chromium	0.0009	0.0009	0.0009	0.0011	0.0009	0.0009	0.0010	0.00007	0.0010	0.00023	0.0010	0.0002
Manganese	0.0096	0.0095	0.0093	0.0101	0.0102	0.0102	0.0104	0.00042	0.0100	0.00133	0.0100	0.0013
Iron	0.0219	0.0207	0.0210	0.0226	0.0224	0.0193	0.0175	0.00184	0.0200	0.00577	0.0200	0.0058
Cobalt	0.0020	0.0018	0.0019	0.0019	0.0018	0.0021	0.0020	0.00013	0.0025	0.00039	0.0025	0.0004
Nickel	0.0055	0.0055	0.0052	0.0028	0.0033	0.0048	0.0047	0.00109	0.0050	0.00342	0.0050	0.0034
Copper	0.0056	0.0058	0.0054	0.0063	0.0058	0.0050	0.0053	0.00041	0.0050	0.00128	0.0050	0.0014
Zinc	0.0110	0.0103	0.0100	0.0106	0.0108	0.0092	0.0088	0.00086	0.0100	0.00269	0.0100	0.0027
Arsenic	0.0100	0.0080	0.0060	0.0084	0.0112	0.0132	0.0065	0.00256	0.0100	0.00805	0.0100	0.0081
Selenium	0.0110	0.0126	0.0120	0.0079	0.0137	0.0079	0.0072	0.00264	0.0100	0.00829	0.0100	0.0083
Molybdenum	0.0056	0.0053	0.0057	0.0044	0.0045	0.0051	0.0044	0.00056	0.0050	0.00177	0.0050	0.0018
Silver	0.0025	0.0025	0.0024	0.0019	0.0018	0.0033	0.0031	0.00056	0.0025	0.00175	0.0025	0.0018
Cadmium	0.0027	0.0026	0.0026	0.0016	0.0018	0.0023	0.0025	0.00043	0.0025	0.00136	0.0025	0.0014
Tin	0.0104	0.0095	0.0097	0.0114	0.0111	0.0087	0.0089	0.00104	0.0100	0.00328	0.0100	0.0033
Antimony	0.0090	0.0093	0.0110	0.0136	0.0122	0.0112	0.0087	0.00180	0.0100	0.00565	0.0100	0.0056
Barium	0.0026	0.0026	0.0026	0.0028	0.0028	0.0024	0.0024	0.00016	0.0025	0.00051	0.0025	0.0005
Thallium	0.0172	0.0169	0.0170	0.0165	0.0144	0.0131	0.0130	0.00188	0.0150	0.00592	0.0150	0.0059
Lead	0.0058	0.0060	0.0061	0.0046	0.0083	0.0049	0.0048	0.00125	0.0050	0.00393	0.0050	0.0039
Calcium	0.2188	0.2125	0.2073	0.2186	0.2230	0.1767	0.1699	0.02155	0.2000	0.06772	0.2000	0.0677
Vanadium	0.0026	0.0025	0.0027	0.0030	0.0029	0.0024	0.0023	0.00026	0.0025	0.00081	0.0025	0.0008
Aluminum	0.0523	0.0513	0.0508	0.0490	0.0501	0.0509	0.0482	0.00140	0.0500	0.00439	0.0500	0.0044
Titanium	0.0119	0.0116	0.0108	0.0100	0.0103	0.0105	0.0107	0.00069	0.0100	0.00216	0.0100	0.0022

Method Detection Limits (Blanks)

Analyte	1	2	3	4	5	6	7	SD	Average	MDLb
Beryllium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00006	0.0000	0.00019
Boron	0.000	0.000	-0.001	-0.005	-0.006	-0.045	-0.047	0.02126	-0.0149	0.05194
Magnesium	-0.001	-0.001	-0.001	0.000	0.001	0.000	-0.001	0.00074	-0.0004	0.00192
Silicon	-0.001	-0.004	-0.004	-0.002	-0.001	-0.012	-0.011	0.00477	-0.0049	0.01013
Chromium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00004	-0.0001	0.00008
Manganese	-0.001	-0.001	-0.001	0.000	0.000	0.000	0.000	0.00044	-0.0005	0.00090
Iron	0.000	0.000	0.000	-0.001	-0.001	-0.003	-0.003	0.00140	-0.0010	0.00337
Cobalt	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00012	-0.0001	0.00029
Nickel	0.000	0.000	0.000	-0.002	-0.002	0.000	0.000	0.00089	-0.0006	0.00224
Copper	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.00033	0.0003	0.00138
Zinc	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.00033	0.0000	0.00102
Arsenic	-0.001	-0.003	0.000	0.000	0.000	0.000	0.000	0.00091	-0.0007	0.00221
Selenium	0.004	0.000	0.002	0.001	0.003	-0.001	0.002	0.00153	0.0017	0.00649
Molybdenum	0.000	0.000	0.000	-0.001	-0.001	0.000	0.000	0.00032	-0.0003	0.00074
Silver	-0.001	-0.001	-0.001	-0.001	-0.001	0.000	0.000	0.00049	-0.0007	0.00083
Cadmium	0.000	0.000	0.000	-0.001	0.000	0.000	0.000	0.00029	-0.0001	0.00081
Tin	-0.001	-0.001	-0.001	0.001	0.000	0.000	-0.001	0.00063	-0.0005	0.00150
Antimony	0.000	-0.001	0.000	0.000	-0.001	0.004	0.000	0.00161	0.0002	0.00524
Barium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00008	0.0000	0.00025
Thallium	0.001	0.000	0.002	0.001	0.000	-0.001	-0.001	0.00104	0.0002	0.00343
Lead	0.000	-0.001	-0.001	-0.001	0.000	0.001	-0.001	0.00068	-0.0004	0.00173
Calcium	0.001	0.001	0.001	-0.003	-0.005	-0.003	-0.017	0.00638	-0.0036	0.01650
Vanadium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00012	0.0000	0.00038
Aluminum	0.000	0.001	0.001	-0.001	-0.001	-0.001	-0.002	0.00105	-0.0003	0.00300
Titanium	0.001	0.000	0.001	-0.001	-0.001	-.00003	0.000	0.00064	0.0000	0.00199

Note: Higher value between MDLs and MDLb will be used.

Method Detection Limits

Analytical Method: EPA 6010B
Digestion Method: EPA 3010A
Digestion Date: 2/8-2/12/2024
Analysis Date: 2/16-2/23/2024
Instrument Name: ICP-04
Analyst/Technician: NS/DBJ

Matrix: WATER
Unit: mg/L

Analyte	1	2	3	4	5	6	7	SD	AMT SPIKED (ppm)	MDLs	PQL	MDL
Beryllium	0.00096	0.00098	0.00096	0.00094	0.00114	0.00100	0.00093	0.00007	0.0010	0.00022	0.0010	0.0004
Boron	0.09627	0.09657	0.09643	0.09117	0.09044	0.09475	0.09499	0.00255	0.1000	0.00800	0.1000	0.0080
Magnesium	0.10052	0.10036	0.09959	0.10705	0.10731	0.09987	0.10054	0.00344	0.1000	0.01079	0.1000	0.0153
Silicon	0.01997	0.01949	0.01947	0.02053	0.02103	0.02063	0.02079	0.00063	0.0200	0.00198	0.0200	0.0020
Chromium	0.00100	0.00096	0.00096	0.00116	0.00117	0.00109	0.00115	0.00009	0.0010	0.00030	0.0010	0.0005
Manganese	0.00965	0.00966	0.00962	0.00727	0.00736	0.00964	0.00963	0.00113	0.0100	0.00356	0.0100	0.0037
Iron	0.01670	0.01666	0.01669	0.01930	0.01911	0.01418	0.01399	0.00209	0.0200	0.00657	0.0200	0.0066
Cobalt	0.00276	0.00227	0.00246	0.00248	0.00246	0.00188	0.00221	0.00028	0.0025	0.00087	0.0025	0.0009
Nickel	0.00479	0.00493	0.00510	0.00476	0.00489	0.00457	0.00453	0.00020	0.0050	0.00063	0.0050	0.0006
Copper	0.00508	0.00506	0.00488	0.00503	0.00521	0.00474	0.00486	0.00016	0.0050	0.00050	0.0050	0.0005
Zinc	0.01247	0.01227	0.01233	0.01015	0.01017	0.00939	0.00952	0.00139	0.0100	0.00438	0.0100	0.0044
Arsenic	0.00990	0.00949	0.00882	0.01052	0.01052	0.01070	0.01000	0.00067	0.0100	0.00210	0.0100	0.0021
Selenium	0.00898	0.00986	0.01063	0.01176	0.01126	0.01021	0.01046	0.00091	0.0100	0.00286	0.0100	0.0032
Molybdenum	0.00546	0.00537	0.00512	0.00602	0.00529	0.00458	0.00502	0.00044	0.0050	0.00139	0.0050	0.0021
Silver	0.00245	0.00240	0.00249	0.00200	0.00194	0.00221	0.00211	0.00022	0.0025	0.00070	0.0025	0.0010
Cadmium	0.00248	0.00248	0.00244	0.00239	0.00240	0.00219	0.00224	0.00012	0.0025	0.00036	0.0025	0.0004
Tin	0.00982	0.01010	0.00968	0.01041	0.01050	0.00990	0.00999	0.00030	0.0100	0.00095	0.0100	0.0010
Antimony	0.01076	0.01056	0.00998	0.01034	0.01208	0.00938	0.00979	0.00087	0.0100	0.00274	0.0100	0.0027
Barium	0.00266	0.00257	0.00258	0.00258	0.00257	0.00249	0.00254	0.00005	0.0025	0.00016	0.0025	0.0008
Thallium	0.01580	0.01557	0.01597	0.01222	0.01292	0.01486	0.01560	0.00151	0.0150	0.00475	0.0150	0.0048
Lead	0.00431	0.00500	0.00446	0.00447	0.00503	0.00422	0.00371	0.00046	0.0050	0.00144	0.0050	0.0014
Calcium	0.20228	0.20108	0.20096	0.20023	0.20038	0.19290	0.19351	0.00386	0.2000	0.01211	0.2000	0.0121
Vanadium	0.00265	0.00253	0.00241	0.00232	0.00229	0.00240	0.00246	0.00012	0.0025	0.00039	0.0025	0.0006
Aluminum	0.05361	0.05332	0.05336	0.05134	0.05238	0.05032	0.04987	0.00153	0.0500	0.00482	0.0500	0.0075
Titanium	0.01017	0.01017	0.01014	0.01005	0.01003	0.01004	0.01004	0.00007	0.0100	0.00020	0.0100	0.0012
Sodium	0.10464	0.10886	0.11103	0.10060	0.10108	0.10829	0.10960	0.00421	0.1000	0.01321	0.1000	0.0132
Strontium	0.02468	0.02576	0.02592	0.02543	0.02579	0.02513	0.02569	0.00044	0.0250	0.00139	0.0250	0.0014

BLANK

Analyte	1	2	3	4	5	6	7	SD	Average	MDL	PQL
Beryllium	-0.00048	-0.00014	-0.00014	0.00001	0.00001	-0.00003	-0.00002	0.00017	-0.00011	0.00043	0.0010
Boron	-0.00209	-0.00259	-0.00248	-0.00694	-0.00772	-0.00175	-0.00221	0.00252	-0.00368	0.00423	0.1000
Magnesium	0.00244	0.00147	0.00205	0.00943	0.00934	0.00459	0.00401	0.00334	0.00476	0.01526	0.1000
Silicon	-0.00009	-0.00039	-0.00061	-0.00016	-0.00044	-0.00044	-0.00071	0.00022	-0.00041	0.00029	0.0200
Chromium	0.00017	0.00009	0.00006	0.00027	0.00032	0.00008	0.00012	0.00010	0.00016	0.00047	0.0010
Manganese	-0.00054	-0.00051	-0.00054	-0.00311	-0.00312	0.00037	0.00037	0.00149	-0.00101	0.00368	0.0100
Iron	-0.00361	-0.00368	-0.00350	-0.00126	-0.00121	0.00037	-0.00627	0.00219	-0.00274	0.00416	0.0200
Cobalt	-0.00033	0.00009	-0.00016	-0.00021	-0.00058	-0.00032	-0.00036	0.00021	-0.00027	0.00038	0.0025
Nickel	-0.00036	-0.00009	-0.00024	-0.00021	-0.00033	-0.00022	-0.00023	0.00009	-0.00024	0.00004	0.0050
Copper	0.00005	0.00002	0.00000	0.00019	0.00028	-0.00001	0.00000	0.00011	0.00008	0.00043	0.0050
Zinc	0.00056	-0.00003	-0.00006	-0.00024	-0.00022	-0.00079	-0.00081	0.00047	-0.00023	0.00126	0.0100
Arsenic	-0.00003	-0.00086	-0.00030	-0.00052	0.00012	0.00051	0.00034	0.00049	-0.00011	0.00142	0.0100
Selenium	-0.00105	-0.00101	0.00003	-0.00013	-0.00033	0.00092	0.00175	0.00101	0.00003	0.00321	0.0100
Molybdenum	0.00035	0.00064	-0.00012	0.00102	0.00080	-0.00015	-0.00059	0.00059	0.00028	0.00212	0.0050
Silver	-0.00021	-0.00023	-0.00022	-0.00146	-0.00143	-0.00071	-0.00064	0.00055	-0.00070	0.00102	0.0025
Cadmium	-0.00003	-0.00002	-0.00003	-0.00008	-0.00009	-0.00026	-0.00030	0.00012	-0.00012	0.00025	0.0025
Tin	-0.00048	-0.00035	0.00010	-0.00014	0.00016	-0.00005	-0.00008	0.00023	-0.00012	0.00060	0.0100
Antimony	0.00008	0.00020	0.00049	-0.00016	0.00141	0.00021	0.00121	0.00059	0.00049	0.00236	0.0100
Barium	0.00006	0.00062	0.00005	0.00003	-0.00010	-0.00003	-0.00006	0.00024	0.00008	0.00085	0.0025
Thallium	0.00113	0.00056	0.00015	0.00095	0.00031	0.00135	0.00088	0.00044	0.00076	0.00214	0.0150
Lead	-0.00006	-0.00093	-0.00022	-0.00025	-0.00031	-0.00180	-0.00134	0.00067	-0.00070	0.00139	0.0050
Calcium	-0.00505	0.00006	0.00001	-0.00038	-0.00024	-0.00119	-0.00204	0.00183	-0.00126	0.00450	0.2000
Vanadium	0.00027	0.00033	0.00044	0.00022	0.00016	0.00010	0.00011	0.00012	0.00023	0.00062	0.0025
Aluminum	0.00375	0.00381	0.00445	0.00041	0.00100	0.00108	0.00110	0.00169	0.00223	0.00754	0.0500
Titanium	0.00001	0.00001	-0.00001	-0.00006	-0.00010	0.00000	0.00088	0.00034	0.00010	0.00119	0.0100
Sodium	0.00136	0.00379	0.00132	-0.00038	-0.00214	-0.00015	0.00331	0.00210	0.00102	0.00761	0.1000
Strontium	-0.00115	-0.00166	-0.00116	-0.00120	-0.00012	-0.00045	-0.00044	0.00055	-0.00088	0.00085	0.0200

Note: ICP-04 is an additional instrument, MDL is within 0.5 to 2.0 of existing MDL. Retain existing MDL.

EPA 6010B Total



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
 REV 2.1
 072018

FIRST LEVEL REVIEW:

NV00922

QC Batch Number: 113725
 ASSET #: N069445

Instrument ID: ICP-04
 Analyst: DBJ


Method: EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 10/30/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MMS meet tune criteria? (ICP/MS only)			X			X
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?	X			X		
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer 

Date: _____
 Date: 11/7/2024

SAMPLE CALCULATION



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SAMPLE CALCULATION

METHOD: EPA 6010B
TEST NAME: Heavy Metals by ICP
MATRIX: Groundwater

FORMULA:

Calculate the Iron concentration, in ug/L, in the original sample as follows:

$$\text{Iron, ug/L} = A * DF * PF * CF$$

where:

A = mg/L, calculated concentration

DF = Dilution Factor

PF = Final Volume of Digestate, mL / Amount of Sample, mL

CF= Conversion Factor from mg/L to ug/L, 1000

For Sample **N069445-001C**, the concentration in ug/L is calculated as follows:

$$\text{Iron, ug/L} = 0.10006 * 1 * (25/25) * 1000$$

$$\text{Iron, ug/L} = 100.06$$

Reporting results in two significant figures,

$$\text{Iron, ug/L} = \mathbf{100}$$

Reviewed by:

M. Rocha 11/26/2024

% RSD SUMMARY



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RSD SUMMARY: 241030B

Instrument ID: NV00922-ICP4

PQL: 0.02 mg/L

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
Blank	BLK	1	Fe	0	-	15	PASS
Standard 1	ICAL	1	Fe	0.02	-	15	PASS
Standard 2	ICAL	1	Fe	0.05	-	15	PASS
Standard 3	ICAL	1	Fe	2	-	15	PASS
Standard 4	ICAL	1	Fe	5	-	15	PASS
Standard 5	ICAL	1	Fe	7.5	-	15	PASS
Standard 6	ICAL	1	Fe	10	-	15	PASS
Standard 7	ICAL	1	Fe	20	-	15	PASS
ICV	ICV	1	Fe	10.0603	0.03	15	PASS
ICB	ICB	1	Fe	0.00122	26.08	15	< PQL
LLCCV1	CCV1	1	Fe	0.02013	1.41	20	PASS
LLCCV2	CCV1	1	Fe	0.43033	0.09	20	PASS
ICSA1	ICSA	1	Fe	10.4869	0.32	15	PASS
ICSAB1	ICSAB	1	Fe	10.18294	0.04	15	PASS
CCV1	CCV	1	Fe	10.05925	0.08	15	PASS
CCB1	CCB	1	Fe	0.00142	11.87	15	PASS
CCV2	CCV	1	Fe	9.95519	0.29	15	PASS
CCB2	CCB	1	Fe	0.00551	62.27	15	< PQL
ICSA2	ICSA	1	Fe	10.37579	0.39	15	PASS
ICSAB2	ICSAB	1	Fe	10.12535	0.18	15	PASS
CCV3	CCV	1	Fe	9.92294	0.26	15	PASS
CCB3	CCB	1	Fe	0.00017	578.97	15	< PQL
MB-113725	MBLK	1	Fe	0.00842	9.10	15	PASS
LCS-113725	LCS	1	Fe	0.11083	0.23	15	PASS
N069445-001C	SAMP	1	Fe	0.10006	0.20	15	PASS
N069445-001C	SAMP	5	Fe	0.0188	2.37	15	PASS
N069445-001C-PS	PS	1	Fe	0.21831	0.09	15	PASS
N069445-001C-MS	MS	1	Fe	0.21879	0.10	15	PASS
N069445-001C-MSD	MSD	1	Fe	0.21096	0.01	15	PASS
CCV4	CCV	1	Fe	9.95088	0.06	15	PASS
CCB4	CCB	1	Fe	0.00155	16.75	15	< PQL
ICSA3	ICSA	1	Fe	10.32735	0.37	15	PASS
ICSAB3	ICSAB	1	Fe	10.0874	0.19	15	PASS
CCV5	CCV	1	Fe	9.97552	0.10	15	PASS
CCB5	CCB	1	Fe	0.00195	11.29	15	PASS
CCV6	CCV	1	Fe	10.04389	0.03	15	PASS
CCB6	CCB	1	Fe	0.00643	7.32	15	PASS
CCV7	CCV	1	Fe	10.09592	0.28	15	PASS
CCB7	CCB	1	Fe	0.01132	8.39	15	PASS
CCV8	CCV	1	Fe	10.06899	0.17	15	PASS
CCB8	CCB	1	Fe	0.00605	3.08	15	PASS

RSD SUMMARY: 241030B

Instrument ID: NV00922-ICP4

PQL: 0.02 mg/L

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
ICSA4	ICSA	1	Fe	10.43322	0.05	15	PASS
ICSAB4	ICSAB	1	Fe	10.14956	0.07	15	PASS
CCV9	CCV	1	Fe	10.06141	0.02	15	PASS
CCB9	CCB	1	Fe	0.00642	8.59	15	PASS
CCV10	CCV	1	Fe	10.08954	0.06	15	PASS
CCB10	CCB	1	Fe	0.0099	16.11	15	< PQL
CCV11	CCV	1	Fe	10.03886	0.06	15	PASS
CCB11	CCB	1	Fe	0.00298	16.60	15	< PQL
ICSA5	ICSA	1	Fe	10.40365	0.61	15	PASS
ICSAB5	ICSAB	1	Fe	10.1288	0.05	15	PASS

ANALYSIS RUN LOG



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INJECTION LOG: 241030B

Instrument ID: NV00922-ICP4

STANDARD CODE	
Standard1	MWST-240820N, 0.5<50mL
Standard2	MWST-240820O
Standard3	MWST-240820P, 5<50mL
Standard4	MWST-240820P, 12.5<50mL
Standard5	MWST-240820P, 15<40mL
Standard6	MWST-240820P, 25<50mL
Standard7	MWST-240820P
ICV	MWST-240820AG
CCV	MWST-240820P, 25<50mL
ICSA/ICSAB	MWST-240820Q / MWST-240820R
Int. Std	MSST-240801A/240801B
PS Spike	MWST-240820Y/Z/AA

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
1	Blank	BLK	1	10/30/2024	2:21:23 PM
2	Standard 1	ICAL	1	10/30/2024	2:23:40 PM
3	Standard 2	ICAL	1	10/30/2024	2:25:57 PM
4	Standard 3	ICAL	1	10/30/2024	2:28:14 PM
5	Standard 4	ICAL	1	10/30/2024	2:30:32 PM
6	Standard 5	ICAL	1	10/30/2024	2:32:50 PM
7	Standard 6	ICAL	1	10/30/2024	2:35:07 PM
8	Standard 7	ICAL	1	10/30/2024	2:37:24 PM
9	ICV	ICV	1	10/30/2024	2:50:47 PM
10	ICB	ICB	1	10/30/2024	2:53:06 PM
11	LLCCV1	CCV1	1	10/30/2024	2:55:23 PM
12	LLCCV2	CCV1	1	10/30/2024	2:57:41 PM
13	ICSA1	ICSA	1	10/30/2024	2:59:58 PM
14	ICSAB1	ICSAB	1	10/30/2024	3:02:15 PM
15	N069476-001B	SAMP	5	10/30/2024	3:07:41 PM
16	N069476-001B-MS	MS	5	10/30/2024	3:09:58 PM
17	MB-113705	MBLK	1	10/30/2024	3:23:39 PM
18	MB-113681 TCLP	MBLK	1	10/30/2024	3:25:56 PM
19	LCS-113705	LCS	1	10/30/2024	3:28:13 PM
20	N069450-002A	SAMP	1	10/30/2024	3:30:30 PM
21	N069450-002A	SAMP	5	10/30/2024	3:32:47 PM
22	N069450-002A-PS	PS	1	10/30/2024	3:35:04 PM
23	N069450-002A-MS	MS	1	10/30/2024	3:37:21 PM
24	N069450-002A-MSD	MSD	1	10/30/2024	3:39:38 PM
25	CCV1	CCV	1	10/30/2024	3:41:55 PM
26	CCB1	CCB	1	10/30/2024	3:44:11 PM
27	N069450-003A	SAMP	1	10/30/2024	3:46:29 PM
28	N069450-006A	SAMP	1	10/30/2024	3:48:46 PM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
29	N069450-009A	SAMP	1	10/30/2024	3:51:04 PM
30	N069450-010A	SAMP	1	10/30/2024	3:53:21 PM
31	N069450-012A	SAMP	1	10/30/2024	3:55:39 PM
32	N069504-001A	SAMP	1	10/30/2024	3:57:56 PM
33	CCV2	CCV	1	10/30/2024	4:00:13 PM
34	CCB2	CCB	1	10/30/2024	4:05:59 PM
35	ICSA2	ICSA	1	10/30/2024	4:08:16 PM
36	ICSAB2	ICSAB	1	10/30/2024	4:10:34 PM
37	MB-113723	MBLK	1	10/30/2024	4:15:35 PM
38	LCS-113723	LCS	1	10/30/2024	4:17:52 PM
39	N069445-001B	SAMP	1	10/30/2024	4:20:09 PM
40	N069445-001B	SAMP	5	10/30/2024	4:22:26 PM
41	N069445-001B-PS	PS	1	10/30/2024	4:24:43 PM
42	N069445-001B-MS	MS	1	10/30/2024	4:27:00 PM
43	N069445-001B-MSD	MSD	1	10/30/2024	4:29:17 PM
44	N069498-007B	SAMP	1	10/30/2024	4:31:35 PM
45	N069542-001B	SAMP	1	10/30/2024	4:33:52 PM
46	N069542-002B	SAMP	1	10/30/2024	4:36:09 PM
47	CCV3	CCV	1	10/30/2024	4:38:26 PM
48	CCB3	CCB	1	10/30/2024	4:43:57 PM
49	N069542-003B	SAMP	1	10/30/2024	4:46:15 PM
50	MB-113725	MBLK	1	10/30/2024	4:51:51 PM
51	LCS-113725	LCS	1	10/30/2024	4:59:39 PM
52	N069445-001C	SAMP	1	10/30/2024	5:01:56 PM
53	N069445-001C	SAMP	5	10/30/2024	5:04:13 PM
54	N069445-001C-PS	PS	1	10/30/2024	5:06:30 PM
55	N069445-001C-MS	MS	1	10/30/2024	5:08:47 PM
56	N069445-001C-MSD	MSD	1	10/30/2024	5:11:05 PM
57	CCV4	CCV	1	10/30/2024	5:13:21 PM
58	CCB4	CCB	1	10/30/2024	5:15:38 PM
59	ICSA3	ICSA	1	10/30/2024	5:17:56 PM
60	ICSAB3	ICSAB	1	10/30/2024	5:20:13 PM
61	MB-113724	MBLK	1	10/30/2024	5:24:59 PM
62	LCS-113724	LCS	1	10/30/2024	5:27:15 PM
63	N069529-001B	SAMP	5	10/30/2024	5:29:32 PM
64	N069529-001B	SAMP	25	10/30/2024	5:31:49 PM
65	N069529-001B-PS	PS	5	10/30/2024	5:34:06 PM
66	N069529-001B-MS	MS	5	10/30/2024	5:36:23 PM
67	N069529-001B-MSD	MSD	5	10/30/2024	5:38:40 PM
68	N069529-002B	SAMP	5	10/30/2024	5:40:57 PM
69	MB-113619 STLC	MBLK	5	10/30/2024	5:52:37 PM
70	CCV5	CCV	1	10/30/2024	5:54:54 PM
71	CCB5	CCB	1	10/30/2024	5:57:12 PM
72	MB-113713	MBLK	1	10/30/2024	6:03:27 PM
73	LCS-113713	LCS	1	10/30/2024	6:05:44 PM
74	N069528-001B	SAMP	1	10/30/2024	6:08:01 PM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
75	N069528-002A	SAMP	1	10/30/2024	6:10:18 PM
76	N069531-001A	SAMP	1	10/30/2024	6:12:35 PM
77	N069532-001A	SAMP	1	10/30/2024	6:14:53 PM
78	N069532-001A	SAMP	5	10/30/2024	6:17:10 PM
79	N069532-001A-PS	PS	1	10/30/2024	6:19:27 PM
80	N069532-001A-MS	MS	1	10/30/2024	6:21:45 PM
81	N069532-001A-MSD	MSD	1	10/30/2024	6:24:02 PM
82	CCV6	CCV	1	10/30/2024	6:26:18 PM
83	CCB6	CCB	1	10/30/2024	6:28:35 PM
84	N069532-002A	SAMP	1	10/30/2024	6:30:52 PM
85	N069533-001A	SAMP	1	10/30/2024	6:33:10 PM
86	N069533-002A	SAMP	1	10/30/2024	6:35:27 PM
87	N069534-001A	SAMP	1	10/30/2024	6:37:44 PM
88	N069534-002A	SAMP	1	10/30/2024	6:40:01 PM
89	N069534-003A	SAMP	1	10/30/2024	6:42:18 PM
90	N069534-004A	SAMP	1	10/30/2024	6:44:35 PM
91	N069534-005A	SAMP	1	10/30/2024	6:46:52 PM
92	N069534-006A	SAMP	1	10/30/2024	6:49:09 PM
93	N069535-001A	SAMP	1	10/30/2024	6:51:26 PM
94	CCV7	CCV	1	10/30/2024	6:53:43 PM
95	CCB7	CCB	1	10/30/2024	6:56:00 PM
96	N069535-002A	SAMP	1	10/30/2024	6:58:17 PM
97	N069535-003A	SAMP	1	10/30/2024	7:00:34 PM
98	N069535-004A	SAMP	1	10/30/2024	7:02:51 PM
99	N069535-005A	SAMP	1	10/30/2024	7:05:09 PM
100	N069535-006A	SAMP	1	10/30/2024	7:07:26 PM
101	N069535-007A	SAMP	1	10/30/2024	7:09:43 PM
102	N069535-003A	SAMP	1	10/30/2024	7:12:00 PM
103	CCV8	CCV	1	10/30/2024	7:16:28 PM
104	CCB8	CCB	1	10/30/2024	7:18:45 PM
105	ICSA4	ICSA	1	10/30/2024	7:21:02 PM
106	ICSAB4	ICSAB	1	10/30/2024	7:23:18 PM
107	MB-113714	MBLK	1	10/30/2024	7:25:36 PM
108	LCS-113714	LCS	1	10/30/2024	7:27:53 PM
109	N069536-001A	SAMP	1	10/30/2024	7:30:10 PM
110	N069536-001A	SAMP	5	10/30/2024	7:32:27 PM
111	N069536-001A-PS	PS	1	10/30/2024	7:34:44 PM
112	N069536-001A-MS	MS	1	10/30/2024	7:37:01 PM
113	N069536-001A-MSD	MSD	1	10/30/2024	7:39:17 PM
114	N069536-002A	SAMP	1	10/30/2024	7:41:34 PM
115	N069536-003A	SAMP	1	10/30/2024	7:43:52 PM
116	N069537-001A	SAMP	1	10/30/2024	7:46:09 PM
117	CCV9	CCV	1	10/30/2024	7:48:25 PM
118	CCB9	CCB	1	10/30/2024	7:50:42 PM
119	N069538-001A	SAMP	1	10/30/2024	7:52:59 PM
120	N069540-001A	SAMP	1	10/30/2024	7:55:16 PM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
121	N069541-001A	SAMP	1	10/30/2024	7:57:33 PM
122	N069541-002A	SAMP	1	10/30/2024	7:59:50 PM
123	N069541-003A	SAMP	1	10/30/2024	8:02:06 PM
124	CCV10	CCV	1	10/30/2024	8:05:52 PM
125	CCB10	CCB	1	10/30/2024	8:08:09 PM
126	MB-113730	MBLK	1	10/30/2024	8:10:26 PM
127	LCS-113730	LCS	1	10/30/2024	8:12:43 PM
128	N069555-001A	SAMP	1	10/30/2024	8:15:00 PM
129	N069555-001A	SAMP	5	10/30/2024	8:17:17 PM
130	N069555-001A-PS	PS	1	10/30/2024	8:19:35 PM
131	N069555-001A-MS	MS	1	10/30/2024	8:21:52 PM
132	N069555-001A-MSD	MSD	1	10/30/2024	8:24:09 PM
133	N069555-002A	SAMP	1	10/30/2024	8:26:26 PM
134	CCV11	CCV	1	10/30/2024	8:29:10 PM
135	CCB11	CCB	1	10/30/2024	8:31:27 PM
136	ICSA5	ICSA	1	10/30/2024	8:33:44 PM
137	ICSAB5	ICSAB	1	10/30/2024	8:36:01 PM

SAMPLE PREPARATION LOG



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ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: **10/30/2024 10:43:28 AM**

Reviewed/ Date: **KDG / 11/7/2024**

Prep End Date: **10/30/2024 2:30:00 PM**

Initials/ Date: _____

Prep Batch **113725** Prep Code:**3010_W**

Technician: **Diane Jetajobe**

Prep Factor Units Temp. (°C): Location:
mL / mL **95.1** **DB-4-37**

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-113725 50ML LOT # MP3971	Aqueous		25	<input type="checkbox"/>	25	1.000		
MB-113725 THERMOMETER ID: DIGESTION 7	Aqueous		25	<input type="checkbox"/>	25	1.000		
N069445-001C redigest	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069445-001C-MS	Groundwater		25	<input type="checkbox"/>	25	1.000		
N069445-001C-MSD	Groundwater		25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17140	NITRIC ACID
17147	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
MWST-240820AA	ICP Solution C	LCS,MS,MSD	0.5
MWST-240820Y	ICP Solution A	LCS,MS,MSD	0.5
MWST-240820Z	ICP Solution B	LCS,MS,MSD	0.5

INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

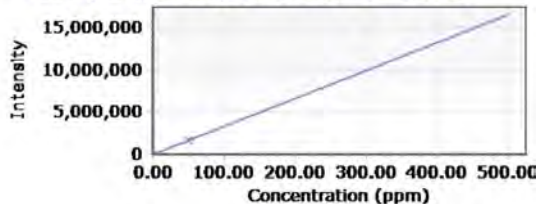
CALIFORNIA
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NEVADA
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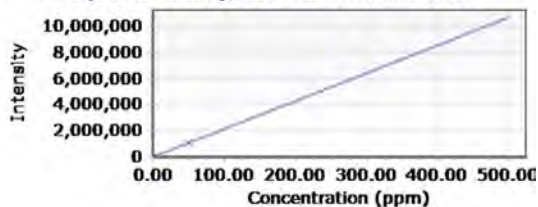
Cu I (324.754 nm), Interferent Calibration



Intensity = 33101.85948620 * Concentration + 684.20878678
Correlation coefficient: 1.00000
%RSE:N/A

Standards	Intensity	Method Conc	Calculated Conc	% Error
IEC Blank	684.20879	0.00000	0.00000	N/A
Interferent 09 (Cu)	1655777.18310	50.00000	50.00000	0.00000

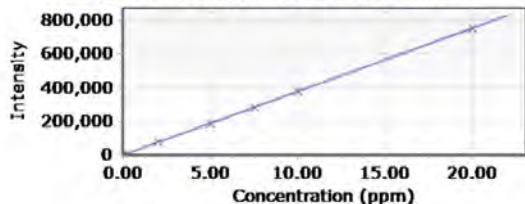
Fe I (239.563 nm), Interferent Calibration



Intensity = 21449.83771380 * Concentration + 29.10415739
Correlation coefficient: 1.00000
%RSE:N/A

Standards	Intensity	Method Conc	Calculated Conc	% Error
IEC Blank	29.10416	0.00000	0.00000	N/A
Interferent 10 (Fe)	1072520.98985	50.00000	50.00000	0.00000

Fe (259.940 nm), Analyte Calibration

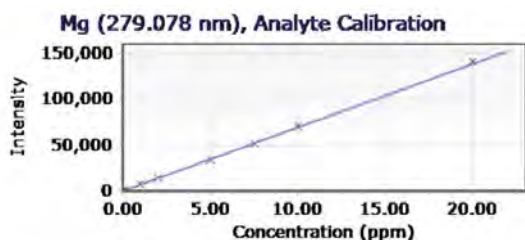


Intensity = 37794.19780520 * Concentration + 58.35826216
Correlation coefficient: 0.99999
%RSE:9.70340840

Standards	Intensity	Method Conc	Calculated Conc	% Error
Blank	26.20730	0.00000	-0.00085	N/A

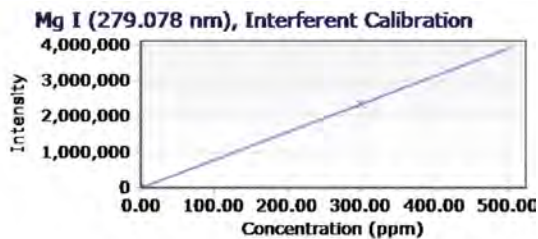


Standards	Intensity	Method Conc	Calculated Conc	% Error
Standard 1	811.97128	0.02000	0.01994	0.30044
Standard 2	2357.70109	0.05000	0.06084	21.67703
Standard 3	75526.03211	2.00000	1.99681	0.15971
Standard 4	189097.11600	5.00000	5.00179	0.03586
Standard 5	281619.77529	7.50000	7.44986	0.66856
Standard 6	379215.28728	10.00000	10.03215	0.32146
Standard 7	752398.64619	20.00000	19.90624	0.46881



Intensity = 6914.45638243 * Concentration + 60.24460121
 Correlation coefficient: 0.99997
 %RSE:1.98816684

Standards	Intensity	Method Conc	Calculated Conc	% Error
Blank	23.63999	0.00000	-0.00529	N/A
Standard 1	765.71885	0.10000	0.10203	2.02888
Standard 2	7191.50626	1.00000	1.03136	3.13554
Standard 3	13893.94745	2.00000	2.00069	0.03464
Standard 4	34627.18921	5.00000	4.99923	0.01544
Standard 5	52074.81945	7.50000	7.52258	0.30111
Standard 6	70011.18339	10.00000	10.11662	1.16622
Standard 7	141238.23239	20.00000	20.41780	2.08900



Intensity = 7830.79440384 * Concentration + 25.13274543

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPGEPPB

Sample ID: ICV	SampType: ICV	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 195007						
Client ID: ICV	Batch ID: R195007	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276329						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10060.300	20	10000	0	101	90	110				
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Sample ID: LLCCV1	SampType: CCV1	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 195007						
Client ID: ZZZZZZ	Batch ID: R195007	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276331						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	20.130	20	20.00	0	101	80	120				
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Sample ID: CCV1	SampType: CCV	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 195007						
Client ID: CCV	Batch ID: R195007	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276345						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10059.250	20	10000	0	101	90	110				
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Sample ID: CCV2	SampType: CCV	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 195007						
Client ID: CCV	Batch ID: R195007	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276353						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9955.190	20	10000	0	99.6	90	110				
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Sample ID: CCV3	SampType: CCV	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 195007						
Client ID: CCV	Batch ID: R195007	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276367						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9922.940	20	10000	0	99.2	90	110				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPGEPBB

Sample ID: CCV4	SampType: CCV	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 195007						
Client ID: CCV	Batch ID: R195007	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276377						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	9950.880	20	10000	0	99.5	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPGEPPB

Sample ID: ICB	SampType: ICB	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 195007
Client ID: ICB	Batch ID: R195007	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276330
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Iron	1.220	20
------	-------	----

Sample ID: CCB1	SampType: CCB	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 195007
Client ID: CCB	Batch ID: R195007	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276346
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Iron	1.420	20
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Sample ID: CCB2	SampType: CCB	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 195007
Client ID: CCB	Batch ID: R195007	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276354
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Iron	5.510	20
------	-------	----

Sample ID: CCB3	SampType: CCB	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 195007
Client ID: CCB	Batch ID: R195007	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276368
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Iron	0.170	20
------	-------	----

Sample ID: CCB4	SampType: CCB	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 195007
Client ID: CCB	Batch ID: R195007	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276378
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Iron	1.550	20
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPGEPPB

Sample ID: ICSA1		SampType: ICSA		TestCode: 6010_WPGE		Units: µg/L		Prep Date:		RunNo: 195007	
Client ID: ICSA		Batch ID: R195007		TestNo: EPA 6010B		Analysis Date: 10/30/2024				SeqNo: 6276333	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	10231.400	50	10000	0	102	80	120				
Calcium	10139.280	500	10000	0	101	80	120				
Iron	10486.900	20	10000	0	105	80	120				
Magnesium	10250.280	100	10000	0	103	80	120				

Sample ID: ICSA B1		SampType: ICSA B		TestCode: 6010_WPGE		Units: µg/L		Prep Date:		RunNo: 195007	
Client ID: ICSA B		Batch ID: R195007		TestNo: EPA 6010B		Analysis Date: 10/30/2024				SeqNo: 6276334	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	10215.090	50	10000	0	102	80	120				
Calcium	9956.970	500	10000	0	99.6	80	120				
Iron	10182.940	20	10000	0	102	80	120				
Magnesium	10099.530	100	10000	0	101	80	120				

Sample ID: ICSA2		SampType: ICSA		TestCode: 6010_WPGE		Units: µg/L		Prep Date:		RunNo: 195007	
Client ID: ICSA		Batch ID: R195007		TestNo: EPA 6010B		Analysis Date: 10/30/2024				SeqNo: 6276355	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	10168.810	50	10000	0	102	80	120				
Calcium	10098.190	500	10000	0	101	80	120				
Iron	10375.790	20	10000	0	104	80	120				
Magnesium	10148.170	100	10000	0	101	80	120				

Sample ID: ICSA B2		SampType: ICSA B		TestCode: 6010_WPGE		Units: µg/L		Prep Date:		RunNo: 195007	
Client ID: ICSA B		Batch ID: R195007		TestNo: EPA 6010B		Analysis Date: 10/30/2024				SeqNo: 6276356	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	10176.960	50	10000	0	102	80	120				
Calcium	9904.210	500	10000	0	99.0	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPGEPPB

Sample ID: ICSAB2	SampType: ICSAB	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 195007						
Client ID: ICSAB	Batch ID: R195007	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276356						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10125.350	20	10000	0	101	80	120				
Magnesium	9983.410	100	10000	0	99.8	80	120				

Sample ID: ICSA3	SampType: ICSA	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 195007						
Client ID: ICSA	Batch ID: R195007	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276379						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	10219.800	50	10000	0	102	80	120				
Calcium	10036.240	500	10000	0	100	80	120				
Iron	10327.350	20	10000	0	103	80	120				
Magnesium	10088.270	100	10000	0	101	80	120				

Sample ID: ICSAB3	SampType: ICSAB	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 195007						
Client ID: ICSAB	Batch ID: R195007	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276380						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	10215.470	50	10000	0	102	80	120				
Calcium	9821.000	500	10000	0	98.2	80	120				
Iron	10087.400	20	10000	0	101	80	120				
Magnesium	9928.370	100	10000	0	99.3	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

INTERNAL STANDARD SUMMARY



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INTERNAL STANDARD: 241030B

Instrument ID: NV00922-ICP4

Sample Name	Type	DF	Yttrium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
Blank	BLK	1	1	100	65-125	PASS
Standard 1	ICAL	1	1.01	101	65-125	PASS
Standard 2	ICAL	1	1.06	106	65-125	PASS
Standard 3	ICAL	1	1.11	111	65-125	PASS
Standard 4	ICAL	1	1.07	107	65-125	PASS
Standard 5	ICAL	1	1.07	107	65-125	PASS
Standard 6	ICAL	1	1.02	102	65-125	PASS
Standard 7	ICAL	1	1.01	101	65-125	PASS
ICV	ICV	1	1.01	101	65-125	PASS
ICB	ICB	1	1.02	102	65-125	PASS
LLCCV1	CCV1	1	1.03	103	65-125	PASS
LLCCV2	CCV1	1	1.05	105	65-125	PASS
ICSA1	ICSA	1	1.05	105	65-125	PASS
ICSAB1	ICSAB	1	1.07	107	65-125	PASS
CCV1	CCV	1	1.04	104	65-125	PASS
CCB1	CCB	1	1.04	104	65-125	PASS
CCV2	CCV	1	1.01	101	65-125	PASS
CCB2	CCB	1	1.04	104	65-125	PASS
ICSA2	ICSA	1	1.02	102	65-125	PASS
ICSAB2	ICSAB	1	1.04	104	65-125	PASS
CCV3	CCV	1	1.03	103	65-125	PASS
CCB3	CCB	1	1.08	108	65-125	PASS
MB-113725	MBLK	1	1.05	105	65-125	PASS
LCS-113725	LCS	1	1.02	102	65-125	PASS
N069445-001C	SAMP	1	0.96	96	65-125	PASS
N069445-001C	SAMP	5	1.05	105	65-125	PASS
N069445-001C-PS	PS	1	0.92	92	65-125	PASS
N069445-001C-MS	MS	1	0.95	95	65-125	PASS
N069445-001C-MSD	MSD	1	0.98	98	65-125	PASS
CCV4	CCV	1	1.08	108	65-125	PASS
CCB4	CCB	1	1.08	108	65-125	PASS
ICSA3	ICSA	1	1.09	109	65-125	PASS
ICSAB3	ICSAB	1	1.12	112	65-125	PASS
CCV5	CCV	1	1.06	106	65-125	PASS
CCB5	CCB	1	1.06	106	65-125	PASS
CCV6	CCV	1	1.07	107	65-125	PASS
CCB6	CCB	1	1.07	107	65-125	PASS
CCV7	CCV	1	1.07	107	65-125	PASS
CCB7	CCB	1	1.06	106	65-125	PASS
CCV8	CCV	1	1.06	106	65-125	PASS
CCB8	CCB	1	1.06	106	65-125	PASS

INTERNAL STANDARD: 241030B

Instrument ID: NV00922-ICP4

			Yttrium, 1.0 mg/L			
Sample Name	Type	DF	Reported Conc	%REC	Criteria	Comment
ICSA4	ICSA	1	1.08	108	65-125	PASS
ICSAB4	ICSAB	1	1.1	110	65-125	PASS
CCV9	CCV	1	1.07	107	65-125	PASS
CCB9	CCB	1	1.06	106	65-125	PASS
CCV10	CCV	1	1.06	106	65-125	PASS
CCB10	CCB	1	1.06	106	65-125	PASS
CCV11	CCV	1	1.05	105	65-125	PASS
CCB11	CCB	1	1.05	105	65-125	PASS
ICSA5	ICSA	1	1.07	107	65-125	PASS
ICSAB5	ICSAB	1	1.1	110	65-125	PASS

SERIAL DILUTION/ POST DIGESTION SPIKE



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ASSET Laboratories

ICP-Metals in Water

Work Order No.: N069445
Test Method: EPA 6010B
Analysis Date: 10/30/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 113725

Instrument ID: NV00922-ICP4
Instrument Description: Agilent 5800VDV

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Fe. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069445-001C DT 5x	Iron	Fe	µg/L	94	NA	100.06	6.06%	10

Reviewed by:

d/Rocha 11/26/2024

Note: NA - Not Applicable

11/18/24 23:43

N069445_6010B_113725_DT

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPGEPPB

Sample ID: N069445-001C-PS	SampType: PS	TestCode: 6010_WPGE	Units: µg/L	Prep Date:	RunNo: 195007						
Client ID: ZZZZZZ	Batch ID: 113725	TestNo: EPA 6010B	EPA 3010A	Analysis Date: 10/30/2024	SeqNo: 6276374						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	218.310	20	100.0	100.1	118	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

MDL STUDY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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“Serving Clients with Passion and Professionalism”

Method Detection Limits

Analytical Method: EPA 6010B
Digestion Method: 3010_W
Digestion Date: 1/31/2024-2/16/24
Instrument Name: ICP2/ ICP3
Analyst/Technician: DJ

Matrix: WATER
Unit: mg/L

Analyte	1	2	3	4	5	6	7	SD	AMT SPIKED (ppm)	MDLs	PQL	MDL
Beryllium	0.0010	0.0010	0.0010	0.0012	0.0012	0.0009	0.0009	0.00013	0.0010	0.00042	0.0010	0.0004
Boron	0.1015	0.0996	0.0981	0.0955	0.0962	0.0921	0.0811	0.00679	0.1000	0.02134	0.1000	0.0519
Magnesium	0.1018	0.1005	0.1004	0.1023	0.1006	0.0924	0.0926	0.00426	0.1000	0.01340	0.1000	0.0134
Silicon	0.0175	0.0205	0.0214	0.0114	0.0100	0.0210	0.0211	0.00489	0.0200	0.01537	0.0200	0.0154
Chromium	0.0009	0.0009	0.0009	0.0011	0.0009	0.0009	0.0010	0.00007	0.0010	0.00023	0.0010	0.0002
Manganese	0.0096	0.0095	0.0093	0.0101	0.0102	0.0102	0.0104	0.00042	0.0100	0.00133	0.0100	0.0013
Iron	0.0219	0.0207	0.0210	0.0226	0.0224	0.0193	0.0175	0.00184	0.0200	0.00577	0.0200	0.0058
Cobalt	0.0020	0.0018	0.0019	0.0019	0.0018	0.0021	0.0020	0.00013	0.0025	0.00039	0.0025	0.0004
Nickel	0.0055	0.0055	0.0052	0.0028	0.0033	0.0048	0.0047	0.00109	0.0050	0.00342	0.0050	0.0034
Copper	0.0056	0.0058	0.0054	0.0063	0.0058	0.0050	0.0053	0.00041	0.0050	0.00128	0.0050	0.0014
Zinc	0.0110	0.0103	0.0100	0.0106	0.0108	0.0092	0.0088	0.00086	0.0100	0.00269	0.0100	0.0027
Arsenic	0.0100	0.0080	0.0060	0.0084	0.0112	0.0132	0.0065	0.00256	0.0100	0.00805	0.0100	0.0081
Selenium	0.0110	0.0126	0.0120	0.0079	0.0137	0.0079	0.0072	0.00264	0.0100	0.00829	0.0100	0.0083
Molybdenum	0.0056	0.0053	0.0057	0.0044	0.0045	0.0051	0.0044	0.00056	0.0050	0.00177	0.0050	0.0018
Silver	0.0025	0.0025	0.0024	0.0019	0.0018	0.0033	0.0031	0.00056	0.0025	0.00175	0.0025	0.0018
Cadmium	0.0027	0.0026	0.0026	0.0016	0.0018	0.0023	0.0025	0.00043	0.0025	0.00136	0.0025	0.0014
Tin	0.0104	0.0095	0.0097	0.0114	0.0111	0.0087	0.0089	0.00104	0.0100	0.00328	0.0100	0.0033
Antimony	0.0090	0.0093	0.0110	0.0136	0.0122	0.0112	0.0087	0.00180	0.0100	0.00565	0.0100	0.0056
Barium	0.0026	0.0026	0.0026	0.0028	0.0028	0.0024	0.0024	0.00016	0.0025	0.00051	0.0025	0.0005
Thallium	0.0172	0.0169	0.0170	0.0165	0.0144	0.0131	0.0130	0.00188	0.0150	0.00592	0.0150	0.0059
Lead	0.0058	0.0060	0.0061	0.0046	0.0083	0.0049	0.0048	0.00125	0.0050	0.00393	0.0050	0.0039
Calcium	0.2188	0.2125	0.2073	0.2186	0.2230	0.1767	0.1699	0.02155	0.2000	0.06772	0.2000	0.0677
Vanadium	0.0026	0.0025	0.0027	0.0030	0.0029	0.0024	0.0023	0.00026	0.0025	0.00081	0.0025	0.0008
Aluminum	0.0523	0.0513	0.0508	0.0490	0.0501	0.0509	0.0482	0.00140	0.0500	0.00439	0.0500	0.0044
Titanium	0.0119	0.0116	0.0108	0.0100	0.0103	0.0105	0.0107	0.00069	0.0100	0.00216	0.0100	0.0022

Method Detection Limits (Blanks)

Analyte	1	2	3	4	5	6	7	SD	Average	MDLb
Beryllium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00006	0.0000	0.00019
Boron	0.000	0.000	-0.001	-0.005	-0.006	-0.045	-0.047	0.02126	-0.0149	0.05194
Magnesium	-0.001	-0.001	-0.001	0.000	0.001	0.000	-0.001	0.00074	-0.0004	0.00192
Silicon	-0.001	-0.004	-0.004	-0.002	-0.001	-0.012	-0.011	0.00477	-0.0049	0.01013
Chromium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00004	-0.0001	0.00008
Manganese	-0.001	-0.001	-0.001	0.000	0.000	0.000	0.000	0.00044	-0.0005	0.00090
Iron	0.000	0.000	0.000	-0.001	-0.001	-0.003	-0.003	0.00140	-0.0010	0.00337
Cobalt	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00012	-0.0001	0.00029
Nickel	0.000	0.000	0.000	-0.002	-0.002	0.000	0.000	0.00089	-0.0006	0.00224
Copper	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.00033	0.0003	0.00138
Zinc	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.00033	0.0000	0.00102
Arsenic	-0.001	-0.003	0.000	0.000	0.000	0.000	0.000	0.00091	-0.0007	0.00221
Selenium	0.004	0.000	0.002	0.001	0.003	-0.001	0.002	0.00153	0.0017	0.00649
Molybdenum	0.000	0.000	0.000	-0.001	-0.001	0.000	0.000	0.00032	-0.0003	0.00074
Silver	-0.001	-0.001	-0.001	-0.001	-0.001	0.000	0.000	0.00049	-0.0007	0.00083
Cadmium	0.000	0.000	0.000	-0.001	0.000	0.000	0.000	0.00029	-0.0001	0.00081
Tin	-0.001	-0.001	-0.001	0.001	0.000	0.000	-0.001	0.00063	-0.0005	0.00150
Antimony	0.000	-0.001	0.000	0.000	-0.001	0.004	0.000	0.00161	0.0002	0.00524
Barium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00008	0.0000	0.00025
Thallium	0.001	0.000	0.002	0.001	0.000	-0.001	-0.001	0.00104	0.0002	0.00343
Lead	0.000	-0.001	-0.001	-0.001	0.000	0.001	-0.001	0.00068	-0.0004	0.00173
Calcium	0.001	0.001	0.001	-0.003	-0.005	-0.003	-0.017	0.00638	-0.0036	0.01650
Vanadium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00012	0.0000	0.00038
Aluminum	0.000	0.001	0.001	-0.001	-0.001	-0.001	-0.002	0.00105	-0.0003	0.00300
Titanium	0.001	0.000	0.001	-0.001	-0.001	-.00003	0.000	0.00064	0.0000	0.00199

Note: Higher value between MDLs and MDLb will be used.

Method Detection Limits

Analytical Method: EPA 6010B
Digestion Method: EPA 3010A
Digestion Date: 2/8-2/12/2024
Analysis Date: 2/16-2/23/2024
Instrument Name: ICP-04
Analyst/Technician: NS/DBJ

Matrix: WATER
Unit: mg/L

Analyte	1	2	3	4	5	6	7	SD	AMT SPIKED (ppm)	MDLs	PQL	MDL
Beryllium	0.00096	0.00098	0.00096	0.00094	0.00114	0.00100	0.00093	0.00007	0.0010	0.00022	0.0010	0.0004
Boron	0.09627	0.09657	0.09643	0.09117	0.09044	0.09475	0.09499	0.00255	0.1000	0.00800	0.1000	0.0080
Magnesium	0.10052	0.10036	0.09959	0.10705	0.10731	0.09987	0.10054	0.00344	0.1000	0.01079	0.1000	0.0153
Silicon	0.01997	0.01949	0.01947	0.02053	0.02103	0.02063	0.02079	0.00063	0.0200	0.00198	0.0200	0.0020
Chromium	0.00100	0.00096	0.00096	0.00116	0.00117	0.00109	0.00115	0.00009	0.0010	0.00030	0.0010	0.0005
Manganese	0.00965	0.00966	0.00962	0.00727	0.00736	0.00964	0.00963	0.00113	0.0100	0.00356	0.0100	0.0037
Iron	0.01670	0.01666	0.01669	0.01930	0.01911	0.01418	0.01399	0.00209	0.0200	0.00657	0.0200	0.0066
Cobalt	0.00276	0.00227	0.00246	0.00248	0.00246	0.00188	0.00221	0.00028	0.0025	0.00087	0.0025	0.0009
Nickel	0.00479	0.00493	0.00510	0.00476	0.00489	0.00457	0.00453	0.00020	0.0050	0.00063	0.0050	0.0006
Copper	0.00508	0.00506	0.00488	0.00503	0.00521	0.00474	0.00486	0.00016	0.0050	0.00050	0.0050	0.0005
Zinc	0.01247	0.01227	0.01233	0.01015	0.01017	0.00939	0.00952	0.00139	0.0100	0.00438	0.0100	0.0044
Arsenic	0.00990	0.00949	0.00882	0.01052	0.01052	0.01070	0.01000	0.00067	0.0100	0.00210	0.0100	0.0021
Selenium	0.00898	0.00986	0.01063	0.01176	0.01126	0.01021	0.01046	0.00091	0.0100	0.00286	0.0100	0.0032
Molybdenum	0.00546	0.00537	0.00512	0.00602	0.00529	0.00458	0.00502	0.00044	0.0050	0.00139	0.0050	0.0021
Silver	0.00245	0.00240	0.00249	0.00200	0.00194	0.00221	0.00211	0.00022	0.0025	0.00070	0.0025	0.0010
Cadmium	0.00248	0.00248	0.00244	0.00239	0.00240	0.00219	0.00224	0.00012	0.0025	0.00036	0.0025	0.0004
Tin	0.00982	0.01010	0.00968	0.01041	0.01050	0.00990	0.00999	0.00030	0.0100	0.00095	0.0100	0.0010
Antimony	0.01076	0.01056	0.00998	0.01034	0.01208	0.00938	0.00979	0.00087	0.0100	0.00274	0.0100	0.0027
Barium	0.00266	0.00257	0.00258	0.00258	0.00257	0.00249	0.00254	0.00005	0.0025	0.00016	0.0025	0.0008
Thallium	0.01580	0.01557	0.01597	0.01222	0.01292	0.01486	0.01560	0.00151	0.0150	0.00475	0.0150	0.0048
Lead	0.00431	0.00500	0.00446	0.00447	0.00503	0.00422	0.00371	0.00046	0.0050	0.00144	0.0050	0.0014
Calcium	0.20228	0.20108	0.20096	0.20023	0.20038	0.19290	0.19351	0.00386	0.2000	0.01211	0.2000	0.0121
Vanadium	0.00265	0.00253	0.00241	0.00232	0.00229	0.00240	0.00246	0.00012	0.0025	0.00039	0.0025	0.0006
Aluminum	0.05361	0.05332	0.05336	0.05134	0.05238	0.05032	0.04987	0.00153	0.0500	0.00482	0.0500	0.0075
Titanium	0.01017	0.01017	0.01014	0.01005	0.01003	0.01004	0.01004	0.00007	0.0100	0.00020	0.0100	0.0012
Sodium	0.10464	0.10886	0.11103	0.10060	0.10108	0.10829	0.10960	0.00421	0.1000	0.01321	0.1000	0.0132
Strontium	0.02468	0.02576	0.02592	0.02543	0.02579	0.02513	0.02569	0.00044	0.0250	0.00139	0.0250	0.0014

BLANK

Analyte	1	2	3	4	5	6	7	SD	Average	MDL	PQL
Beryllium	-0.00048	-0.00014	-0.00014	0.00001	0.00001	-0.00003	-0.00002	0.00017	-0.00011	0.00043	0.0010
Boron	-0.00209	-0.00259	-0.00248	-0.00694	-0.00772	-0.00175	-0.00221	0.00252	-0.00368	0.00423	0.1000
Magnesium	0.00244	0.00147	0.00205	0.00943	0.00934	0.00459	0.00401	0.00334	0.00476	0.01526	0.1000
Silicon	-0.00009	-0.00039	-0.00061	-0.00016	-0.00044	-0.00044	-0.00071	0.00022	-0.00041	0.00029	0.0200
Chromium	0.00017	0.00009	0.00006	0.00027	0.00032	0.00008	0.00012	0.00010	0.00016	0.00047	0.0010
Manganese	-0.00054	-0.00051	-0.00054	-0.00311	-0.00312	0.00037	0.00037	0.00149	-0.00101	0.00368	0.0100
Iron	-0.00361	-0.00368	-0.00350	-0.00126	-0.00121	0.00037	-0.00627	0.00219	-0.00274	0.00416	0.0200
Cobalt	-0.00033	0.00009	-0.00016	-0.00021	-0.00058	-0.00032	-0.00036	0.00021	-0.00027	0.00038	0.0025
Nickel	-0.00036	-0.00009	-0.00024	-0.00021	-0.00033	-0.00022	-0.00023	0.00009	-0.00024	0.00004	0.0050
Copper	0.00005	0.00002	0.00000	0.00019	0.00028	-0.00001	0.00000	0.00011	0.00008	0.00043	0.0050
Zinc	0.00056	-0.00003	-0.00006	-0.00024	-0.00022	-0.00079	-0.00081	0.00047	-0.00023	0.00126	0.0100
Arsenic	-0.00003	-0.00086	-0.00030	-0.00052	0.00012	0.00051	0.00034	0.00049	-0.00011	0.00142	0.0100
Selenium	-0.00105	-0.00101	0.00003	-0.00013	-0.00033	0.00092	0.00175	0.00101	0.00003	0.00321	0.0100
Molybdenum	0.00035	0.00064	-0.00012	0.00102	0.00080	-0.00015	-0.00059	0.00059	0.00028	0.00212	0.0050
Silver	-0.00021	-0.00023	-0.00022	-0.00146	-0.00143	-0.00071	-0.00064	0.00055	-0.00070	0.00102	0.0025
Cadmium	-0.00003	-0.00002	-0.00003	-0.00008	-0.00009	-0.00026	-0.00030	0.00012	-0.00012	0.00025	0.0025
Tin	-0.00048	-0.00035	0.00010	-0.00014	0.00016	-0.00005	-0.00008	0.00023	-0.00012	0.00060	0.0100
Antimony	0.00008	0.00020	0.00049	-0.00016	0.00141	0.00021	0.00121	0.00059	0.00049	0.00236	0.0100
Barium	0.00006	0.00062	0.00005	0.00003	-0.00010	-0.00003	-0.00006	0.00024	0.00008	0.00085	0.0025
Thallium	0.00113	0.00056	0.00015	0.00095	0.00031	0.00135	0.00088	0.00044	0.00076	0.00214	0.0150
Lead	-0.00006	-0.00093	-0.00022	-0.00025	-0.00031	-0.00180	-0.00134	0.00067	-0.00070	0.00139	0.0050
Calcium	-0.00505	0.00006	0.00001	-0.00038	-0.00024	-0.00119	-0.00204	0.00183	-0.00126	0.00450	0.2000
Vanadium	0.00027	0.00033	0.00044	0.00022	0.00016	0.00010	0.00011	0.00012	0.00023	0.00062	0.0025
Aluminum	0.00375	0.00381	0.00445	0.00041	0.00100	0.00108	0.00110	0.00169	0.00223	0.00754	0.0500
Titanium	0.00001	0.00001	-0.00001	-0.00006	-0.00010	0.00000	0.00088	0.00034	0.00010	0.00119	0.0100
Sodium	0.00136	0.00379	0.00132	-0.00038	-0.00214	-0.00015	0.00331	0.00210	0.00102	0.00761	0.1000
Strontium	-0.00115	-0.00166	-0.00116	-0.00120	-0.00012	-0.00045	-0.00044	0.00055	-0.00088	0.00085	0.0200

Note: ICP-04 is an additional instrument, MDL is within 0.5 to 2.0 of existing MDL. Retain existing MDL.

EPA 6020 Dissolved



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
 REV 2.1
 072018

FIRST LEVEL REVIEW:

QC Batch Number: 113638
 ASSET #: N069445

Instrument ID: NV00922-ICP8
 Analyst: DBJ

Method: DISSOLVED
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 10/29/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.		X			X	
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?	X			X		
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

Mn is OLR in N069263-001B- PS/MS/MSD/ N069445-001B. For dilution.

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer NS 10/30/2024

Date: _____
 Date: _____



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 113638
ASSET #: N069445

Instrument ID: NV00922-ICP8
Analyst: DBJ

Method: DISSOLVED
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 10/30/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?	X		X	X		X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.			X			X
24. LCS compounds within control limits.			X			X
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:
Mn dilution

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
2nd Level Reviewer _____

Date: _____
Date: 11/1/2024

SAMPLE CALCULATION



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SAMPLE CALCULATION

METHOD: EPA 6020
TEST NAME: Heavy Metals by ICP-MS
MATRIX: Water

FORMULA:

Calculate the Manganese concentration, in ug/L in the original sample as follows:

$$\text{Manganese, ug/L} = A * DF * PF$$

where:

A = ug/L, calculated concentration
DF = Dilution Factor
PF = Final Volume of Digestate, mL / Amount of Sample, mL

For Sample **N069445-001B**, the concentration in ug/L is calculated as follows:


$$\text{Manganese, ug/L} = 57.5999 * 10 * (25 / 25)$$

$$\text{Manganese, ug/L} = 575.9992$$

Reporting results in two significant figures,

$$\text{Manganese, ug/L} = \mathbf{580}$$

Reviewed by:

 11/27/2024

% RSD SUMMARY



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PERCENT RSD SUMMARY: 241029A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.07	29.297	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.42	14.663	15	PASS
Std3-5/50 ppb	ICAL	1	4.7	2.259	15	PASS
Std4-10/100 ppb	ICAL	1	10.21	0.461	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.96	2.722	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	38.66	2.268	15	PASS
Std7-100/1000 ppb	ICAL	1	99.95	1.955	15	PASS
Std8-200/2000 ppb	ICAL	1	200.29	1.654	15	PASS
ICV	ICV	1	101.91	0.832	15	PASS
ICB	ICB	1	0.09	18.976	15	<PQL
LLCCV1	CCV1	1	0.17	25.078	20	<PQL
LLCCV2	CCV1	1	0.56	8.449	20	PASS
MLCCV1	CCV	1	19.34	2.317	15	PASS
ICSA1	ICSA	1	0.03	127.481	15	<PQL
ICSAB1	ICSAB	1	20.13	1.653	15	PASS
CCV1	CCV	1	19.07	3.147	15	PASS
CCV1	CCV	1	18.77	0.888	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL
CCV2	CCV	1	19.54	1.2	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	19.78	1.022	15	PASS
CCV3	CCV	1	18.61	1.552	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL
CCV4	CCV	1	19.25	2.14	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL
CCV5	CCV	1	18.74	5.623	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	18.94	3.216	15	PASS
MB-113638	MBLK	1	<0.000	N/A	15	<PQL
LCS-113638	LCS	1	96.23	3.201	15	PASS
N069263-001B	SAMP	1	441.81	0.41	15	PASS
N069263-001B	SAMP	5	94.68	1.264	15	PASS
N069263-001B-PS	PS	1	526.77	1.452	15	PASS
N069263-001B-MS	MS	1	524.5	1.222	15	PASS
N069263-001B-MSD	MSD	1	521.62	2.469	15	PASS
N069263-002B	SAMP	1	445.24	1.016	15	PASS
N069263-003B	SAMP	1	363.03	0.821	15	PASS
CCV6	CCV	1	19.24	2.067	15	PASS

PERCENT RSD SUMMARY: 241029A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment
CCB6	CCB	1	<0.000	N/A	15	<PQL
N069444-001B	SAMP	1	470.76	0.89	15	PASS
N069444-002B	SAMP	1	452.57	1.614	15	PASS
N069444-003B	SAMP	1	172.79	2.284	15	PASS
N069445-001B	SAMP	1	541.64	0.503	15	PASS
N069498-001B	SAMP	1	8.17	8.175	15	PASS
N069498-002B	SAMP	1	0.62	8.402	15	PASS
N069498-003B	SAMP	1	1439.09	1.633	15	PASS
N069498-005B	SAMP	1	5.46	4.72	15	PASS
N069498-006B	SAMP	1	6.03	3.943	15	PASS
CCV7	CCV	1	18.61	2.354	15	PASS
CCB7	CCB	1	<0.000	N/A	15	<PQL
N069498-007B	SAMP	1	15.61	1.733	15	PASS
N069498-008B	SAMP	1	8.36	1.724	15	PASS
CCV8	CCV	1	19.19	2.997	15	PASS
CCB8	CCB	1	<0.000	N/A	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	19.36	4.596	15	PASS
CCV9	CCV	1	18.81	1.465	15	PASS
CCB9	CCB	1	<0.000	N/A	15	<PQL
CCV10	CCV	1	18.76	0.927	15	PASS
CCB10	CCB	1	<0.000	N/A	15	<PQL
CCV11	CCV	1	18.71	2.723	15	PASS
CCB11	CCB	1	<0.000	N/A	15	<PQL
ICSA5	ICSA	1	<0.000	N/A	15	<PQL
ICSAB5	ICSAB	1	19.49	2.375	15	PASS

PERCENT RSD SUMMARY: 241030B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment
Std1-0.1/1 ppb	ICAL	1	0.07	31.685	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.45	4.792	15	PASS
Std3-5/50 ppb	ICAL	1	4.65	2.997	15	PASS
Std4-10/100 ppb	ICAL	1	9.38	1.882	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	18.87	1.57	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	37.97	1.277	15	PASS
Std7-100/1000 ppb	ICAL	1	97.63	1.355	15	PASS
Std8-200/2000 ppb	ICAL	1	201.75	1.963	15	PASS
ICV	ICV	1	95.75	2.102	15	PASS
ICB	ICB	1	0.01	106.067	15	<PQL
LLCCV1	CCV	1	0.1	3.352	20	PASS
LLCCV2	CCV	1	0.55	5.551	20	PASS
MLCCV1	CCV	1	18.77	0.622	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	19.4	1.995	15	PASS
CCV1	CCV	1	18.38	0.781	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL
CCV1	CCV	1	18.6	1.211	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	19.53	1.499	15	PASS
N069263-001B	SAMP	10	46.06	0.693	15	PASS
N069263-001B	SAMP	50	8.88	4.55	15	PASS
N069263-001B-PS	PS	10	135.27	1.193	15	PASS
N069263-001B-MS	MS	10	55.27	0.627	15	PASS
N069263-001B-MSD	MSD	10	57.1	1.645	15	PASS
N069263-002B	SAMP	10	47.05	1.701	15	PASS
N069263-003B	SAMP	10	37.57	0.328	15	PASS
N069444-001B	SAMP	10	49.32	1.025	15	PASS
N069444-002B	SAMP	10	48.31	1.863	15	PASS
N069445-001B	SAMP	10	57.6	1.046	15	PASS
CCV2	CCV	1	18.41	0.973	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL
N069498-001B	SAMP	1	8.11	4.209	15	PASS
N069498-001B	SAMP	10	0.85	7.278	15	PASS
N069498-002B	SAMP	1	0.73	12.612	15	PASS
N069498-002B	SAMP	5	0.09	30.191	15	<PQL
N069498-003B	SAMP	1	1462.86	0.634	15	PASS
N069498-003B	SAMP	10	143.81	0.435	15	PASS
N069498-005B	SAMP	1	5.55	0.7	15	PASS
N069498-005B	SAMP	10	0.62	3.518	15	PASS

PERCENT RSD SUMMARY: 241030B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment
CCV3	CCV	1	18.36	0.516	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL
N069498-006B	SAMP	1	6.11	6.775	15	PASS
N069498-007B	SAMP	1	15.83	1.394	15	PASS
N069498-008B	SAMP	1	8.34	3.089	15	PASS
CCV4	CCV	1	18.73	2.799	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL
CCV5	CCV	1	18.62	2.884	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	19.47	2.159	15	PASS
CCV6	CCV	1	18.84	2.01	15	PASS
CCB6	CCB	1	0	742.63	15	<PQL
CCV7	CCV	1	18.6	2.445	15	PASS
CCB7	CCB	1	<0.000	N/A	15	<PQL
CCV8	CCV	1	18.76	1.215	15	PASS
CCB8	CCB	1	0	542.479	15	<PQL
ICSA4	ICSA	1	0.03	176.405	15	<PQL
ICSAB4	ICSAB	1	19.78	3.194	15	PASS
N069498-001B	SAMP	1	8.6	3.466	15	PASS
N069498-002B	SAMP	1	0.8	16.222	15	NR!
N069498-003B	SAMP	1	1413.21	2.087	15	PASS
N069498-005B	SAMP	1	5.57	6.602	15	PASS
N069498-006B	SAMP	1	5.92	6.713	15	PASS
N069498-007B	SAMP	1	15.91	1.278	15	PASS
N069498-008B	SAMP	1	8.53	4.598	15	PASS
CCV9	CCV	1	18.69	1.924	15	PASS
CCB9	CCB	1	<0.000	N/A	15	<PQL
N069498-001B	SAMP	1	8.37	4.971	15	PASS
N069498-002B	SAMP	1	0.73	14.559	15	PASS
N069498-003B	SAMP	1	1410	3.156	15	PASS
N069498-005B	SAMP	1	5.91	3.998	15	PASS
N069498-006B	SAMP	1	6	4.402	15	PASS
N069498-007B	SAMP	1	15.04	3.621	15	PASS
N069498-008B	SAMP	1	8.78	3.333	15	PASS
CCV10	CCV	1	18.8	2.297	15	PASS
CCB10	CCB	1	0.02	147.12	15	<PQL
ICSA5	ICSA	1	0.02	155.026	15	<PQL
ICSAB5	ICSAB	1	19.22	2.635	15	PASS

ANALYSIS RUN LOG



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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“Serving Clients with Passion and Professionalism”

INJECTION LOG: 241029A

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1029001.d	RINSE	ICAL	1	10/29/24 1:11 PM
A1029002.d	RINSE	ICAL	1	10/29/24 1:17 PM
A1029003.d	Cal Blk	IBLK	1	10/29/24 1:23 PM
A1029004.d	Std1-0.1/1 ppb	ICAL	1	10/29/24 1:29 PM
A1029005.d	Std2-0.5/5 ppb	ICAL	1	10/29/24 1:35 PM
A1029006.d	Std3-5/50 ppb	ICAL	1	10/29/24 1:41 PM
A1029007.d	Std4-10/100 ppb	ICAL	1	10/29/24 1:47 PM
A1029008.d	Std5-4.0/20/200 ppb	ICAL	1	10/29/24 1:53 PM
A1029009.d	Std6-8.0/40/400 ppb	ICAL	1	10/29/24 1:59 PM
A1029010.d	Std7-100/1000 ppb	ICAL	1	10/29/24 2:05 PM
A1029011.d	Std8-200/2000 ppb	ICAL	1	10/29/24 2:11 PM
A1029012.d	ICV	ICV	1	10/29/24 2:17 PM
A1029013.d	ICB	ICB	1	10/29/24 2:23 PM
A1029014.d	LLCCV1	CCV1	1	10/29/24 2:29 PM
A1029015.d	LLCCV2	CCV1	1	10/29/24 2:35 PM
A1029016.d	MLCCV1	CCV	1	10/29/24 2:41 PM
A1029017.d	ICSA1	ICSA	1	10/29/24 2:47 PM
A1029018.d	ICSAB1	ICSAB	1	10/29/24 2:53 PM
A1029019.d	MB-113637	MBLK	1	10/29/24 3:02 PM
A1029020.d	LCS-113637	LCS	1	10/29/24 3:16 PM
A1029021.d	N069266-007E	SAMP	1	10/29/24 3:22 PM
A1029022.d	N069266-007E	SAMP	5	10/29/24 3:28 PM
A1029023.d	N069266-007E-PS	PS	1	10/29/24 3:33 PM
A1029024.d	N069266-007E-MS	MS	1	10/29/24 3:39 PM
A1029025.d	N069266-007E-MSD	MSD	1	10/29/24 3:45 PM
A1029026.d	N069266-029F	SAMP	1	10/29/24 3:51 PM
A1029027.d	N069319-001E	SAMP	1	10/29/24 3:57 PM
A1029028.d	CCV1	CCV	1	10/29/24 4:03 PM
A1029029.d	CCV1	CCV	1	10/29/24 4:09 PM
A1029030.d	CCB1	CCB	1	10/29/24 4:15 PM
A1029031.d	N069233-009A	SAMP	1	10/29/24 4:21 PM
A1029032.d	N069233-009C	SAMP	1	10/29/24 4:26 PM
A1029033.d	N069233-015A	SAMP	1	10/29/24 4:32 PM
A1029034.d	N069233-015E	SAMP	1	10/29/24 4:38 PM
A1029035.d	CCV2	CCV	1	10/29/24 4:44 PM
A1029036.d	CCB2	CCB	1	10/29/24 4:50 PM
A1029037.d	ICSA2	ICSA	1	10/29/24 4:56 PM
A1029038.d	ICSAB2	ICSAB	1	10/29/24 5:02 PM
A1029039.d	N068846-001B	SAMP	1	10/29/24 5:07 PM
A1029040.d	N068846-001B	SAMP	5	10/29/24 5:13 PM
A1029041.d	N068846-001B-PS	PS	1	10/29/24 5:19 PM
A1029042.d	N068846-001B-MS	MS	1	10/29/24 5:25 PM

INJECTION LOG: 241029A

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1029043.d	N068846-001B-MSD	MSD	1	10/29/24 5:31 PM
A1029044.d	N069146-013C-MS	MS	1	10/29/24 5:37 PM
A1029045.d	N069146-013C-MS	MS	10	10/29/24 5:43 PM
A1029046.d	N069146-013C-MSD	MSD	1	10/29/24 5:49 PM
A1029047.d	N069146-013C-MSD	MSD	10	10/29/24 5:55 PM
A1029048.d	CCV3	CCV	1	10/29/24 6:00 PM
A1029049.d	CCB3	CCB	1	10/29/24 6:06 PM
A1029050.d	MB-113639	MBLK	1	10/29/24 6:12 PM
A1029051.d	LCS-113639	LCS	1	10/29/24 6:18 PM
A1029052.d	N069392-001A	SAMP	1	10/29/24 6:24 PM
A1029053.d	N069392-001A	SAMP	5	10/29/24 6:30 PM
A1029054.d	N069392-001A	SAMP	10	10/29/24 6:36 PM
A1029055.d	N069392-001A	SAMP	50	10/29/24 6:41 PM
A1029056.d	N069392-001A-PS	PS	1	10/29/24 6:47 PM
A1029057.d	N069392-001A-PS	PS	10	10/29/24 6:53 PM
A1029058.d	N069392-001A-MS	MS	1	10/29/24 6:59 PM
A1029059.d	N069392-001A-MS	MS	10	10/29/24 7:05 PM
A1029060.d	CCV4	CCV	1	10/29/24 7:11 PM
A1029061.d	CCB4	CCB	1	10/29/24 7:17 PM
A1029062.d	N069392-001A-MSD	MSD	1	10/29/24 7:23 PM
A1029063.d	N069392-001A-MSD	MSD	10	10/29/24 7:28 PM
A1029064.d	N069392-002A	SAMP	1	10/29/24 7:34 PM
A1029065.d	N069392-002A	SAMP	10	10/29/24 7:40 PM
A1029066.d	N069392-003A	SAMP	1	10/29/24 7:46 PM
A1029067.d	N069392-003A	SAMP	10	10/29/24 7:52 PM
A1029068.d	N069392-004A	SAMP	1	10/29/24 7:58 PM
A1029069.d	N069392-004A	SAMP	10	10/29/24 8:04 PM
A1029070.d	N069392-005A	SAMP	1	10/29/24 8:10 PM
A1029071.d	N069392-005A	SAMP	10	10/29/24 8:15 PM
A1029072.d	CCV5	CCV	1	10/29/24 8:21 PM
A1029073.d	CCB5	CCB	1	10/29/24 8:27 PM
A1029074.d	ICSA3	ICSA	1	10/29/24 8:33 PM
A1029075.d	ICSAB3	ICSAB	1	10/29/24 8:39 PM
A1029076.d	MB-113638	MBLK	1	10/29/24 8:45 PM
A1029077.d	LCS-113638	LCS	1	10/29/24 8:51 PM
A1029078.d	N069263-001B	SAMP	1	10/29/24 8:56 PM
A1029079.d	N069263-001B	SAMP	5	10/29/24 9:02 PM
A1029080.d	N069263-001B-PS	PS	1	10/29/24 9:08 PM
A1029081.d	N069263-001B-MS	MS	1	10/29/24 9:14 PM
A1029082.d	N069263-001B-MSD	MSD	1	10/29/24 9:20 PM
A1029083.d	N069263-002B	SAMP	1	10/29/24 9:26 PM
A1029084.d	N069263-003B	SAMP	1	10/29/24 9:32 PM

INJECTION LOG: 241029A

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1029085.d	RINSE	ICAL	1	10/29/24 9:38 PM
A1029086.d	CCV6	CCV	1	10/29/24 9:44 PM
A1029087.d	CCB6	CCB	1	10/29/24 9:49 PM
A1029088.d	N069444-001B	SAMP	1	10/29/24 9:55 PM
A1029089.d	N069444-002B	SAMP	1	10/29/24 10:01 PM
A1029090.d	N069444-003B	SAMP	1	10/29/24 10:07 PM
A1029091.d	N069445-001B	SAMP	1	10/29/24 10:13 PM
A1029092.d	N069498-001B	SAMP	1	10/29/24 10:19 PM
A1029093.d	N069498-002B	SAMP	1	10/29/24 10:25 PM
A1029094.d	N069498-003B	SAMP	1	10/29/24 10:31 PM
A1029095.d	N069498-005B	SAMP	1	10/29/24 10:37 PM
A1029096.d	N069498-006B	SAMP	1	10/29/24 10:43 PM
A1029097.d	RINSE	ICAL	1	10/29/24 10:49 PM
A1029098.d	CCV7	CCV	1	10/29/24 10:55 PM
A1029099.d	CCB7	CCB	1	10/29/24 11:00 PM
A1029100.d	N069498-007B	SAMP	1	10/29/24 11:06 PM
A1029101.d	N069498-008B	SAMP	1	10/29/24 11:12 PM
A1029102.d	RINSE	ICAL	1	10/29/24 11:18 PM
A1029103.d	CCV8	CCV	1	10/29/24 11:24 PM
A1029104.d	CCB8	CCB	1	10/29/24 11:30 PM
A1029105.d	ICSA4	ICSA	1	10/29/24 11:36 PM
A1029106.d	ICSAB4	ICSAB	1	10/29/24 11:41 PM
A1029107.d	MB-113640	MBLK	1	10/29/24 11:47 PM
A1029108.d	LCS-113640	LCS	1	10/29/24 11:53 PM
A1029109.d	N069263-001C	SAMP	1	10/29/24 11:59 PM
A1029110.d	N069263-001C	SAMP	5	10/30/24 12:05 AM
A1029111.d	N069263-001C-PS	PS	1	10/30/24 12:11 AM
A1029112.d	N069263-001C-MS	MS	1	10/30/24 12:17 AM
A1029113.d	N069263-001C-MSD	MSD	1	10/30/24 12:23 AM
A1029114.d	N069263-002C	SAMP	1	10/30/24 12:29 AM
A1029115.d	N069263-003C	SAMP	1	10/30/24 12:35 AM
A1029116.d	RINSE	ICAL	1	10/30/24 12:40 AM
A1029117.d	CCV9	CCV	1	10/30/24 12:46 AM
A1029118.d	CCB9	CCB	1	10/30/24 12:52 AM
A1029119.d	N069444-001C	SAMP	1	10/30/24 12:58 AM
A1029120.d	N069444-002C	SAMP	1	10/30/24 1:04 AM
A1029121.d	N069444-003C	SAMP	1	10/30/24 1:10 AM
A1029122.d	N069445-001C	SAMP	1	10/30/24 1:16 AM
A1029123.d	RINSE	ICAL	1	10/30/24 1:22 AM
A1029124.d	CCV10	CCV	1	10/30/24 1:28 AM
A1029125.d	CCB10	CCB	1	10/30/24 1:33 AM
A1029126.d	MB-113690	MBLK	1	10/30/24 1:39 AM

INJECTION LOG: 241029A**Instrument ID: NV00922-ICP8**

Data File	Sample Name	Type	DF	Acq. Date-Time
A1029127.d	LCS-113690	LCS	1	10/30/24 1:45 AM
A1029128.d	N069510-001A	SAMP	1	10/30/24 1:51 AM
A1029129.d	N069510-001A	SAMP	5	10/30/24 1:57 AM
A1029130.d	N069510-001A-PS	PS	1	10/30/24 2:03 AM
A1029131.d	N069510-001A-MS	MS	1	10/30/24 2:09 AM
A1029132.d	N069510-001A-MSD	MSD	1	10/30/24 2:14 AM
A1029133.d	RINSE	ICAL	1	10/30/24 2:20 AM
A1029134.d	CCV11	CCV	1	10/30/24 2:26 AM
A1029135.d	CCB11	CCB	1	10/30/24 2:32 AM
A1029136.d	ICSA5	ICSA	1	10/30/24 2:38 AM
A1029137.d	ICSAB5	ICSAB	1	10/30/24 2:44 AM
A1029138.d	RINSE	ICAL	1	10/30/24 2:49 AM
A1029139.d	RINSE	ICAL	1	10/30/24 2:55 AM
A1029140.d	RINSE	ICAL	1	10/30/24 3:01 AM

INJECTION LOG: 241030B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1030001.d	RINSE	ICAL	1	10/30/24 6:15 PM
B1030002.d	RINSE	ICAL	1	10/30/24 6:20 PM
B1030003.d	Cal Blk	IBLK	1	10/30/24 6:26 PM
B1030004.d	Std1-0.1/1 ppb	ICAL	1	10/30/24 6:32 PM
B1030005.d	Std2-0.5/5 ppb	ICAL	1	10/30/24 6:39 PM
B1030006.d	Std3-5/50 ppb	ICAL	1	10/30/24 6:45 PM
B1030007.d	Std4-10/100 ppb	ICAL	1	10/30/24 6:51 PM
B1030008.d	Std5-4.0/20/200 ppb	ICAL	1	10/30/24 6:57 PM
B1030009.d	Std6-8.0/40/400 ppb	ICAL	1	10/30/24 7:03 PM
B1030010.d	Std7-100/1000 ppb	ICAL	1	10/30/24 7:09 PM
B1030011.d	Std8-200/2000 ppb	ICAL	1	10/30/24 7:15 PM
B1030012.d	ICV	ICV	1	10/30/24 7:24 PM
B1030013.d	ICB	ICB	1	10/30/24 7:29 PM
B1030014.d	LLCCV1	CCV	1	10/30/24 7:35 PM
B1030015.d	LLCCV2	CCV	1	10/30/24 7:41 PM
B1030016.d	MLCCV1	CCV	1	10/30/24 7:50 PM
B1030017.d	ICSA1	ICSA	1	10/30/24 7:56 PM
B1030018.d	ICSAB1	ICSAB	1	10/30/24 8:01 PM
B1030019.d	N069392-003A	SAMP	1	10/30/24 8:07 PM
B1030020.d	N069392-005A	SAMP	1	10/30/24 8:13 PM
B1030021.d	N069233-004E	SAMP	5	10/30/24 8:19 PM
B1030022.d	N069146-013C	SAMP	1	10/30/24 8:25 PM
B1030023.d	RINSE	ICAL	1	10/30/24 8:31 PM
B1030024.d	CCV1	CCV	1	10/30/24 8:37 PM
B1030025.d	CCB1	CCB	1	10/30/24 8:43 PM
B1030026.d	CCV1	CCV	1	10/30/24 8:48 PM
B1030027.d	CCB1	CCB	1	10/30/24 8:54 PM
B1030028.d	ICSA2	ICSA	1	10/30/24 9:00 PM
B1030029.d	ICSAB2	ICSAB	1	10/30/24 9:06 PM
B1030030.d	N069263-001B	SAMP	10	10/30/24 9:12 PM
B1030031.d	N069263-001B	SAMP	50	10/30/24 9:18 PM
B1030032.d	N069263-001B-PS	PS	10	10/30/24 9:24 PM
B1030033.d	N069263-001B-MS	MS	10	10/30/24 9:30 PM
B1030034.d	N069263-001B-MSD	MSD	10	10/30/24 9:35 PM
B1030035.d	N069263-002B	SAMP	10	10/30/24 9:41 PM
B1030036.d	N069263-003B	SAMP	10	10/30/24 9:47 PM
B1030037.d	N069444-001B	SAMP	10	10/30/24 9:53 PM
B1030038.d	N069444-002B	SAMP	10	10/30/24 9:59 PM
B1030039.d	N069445-001B	SAMP	10	10/30/24 10:05 PM
B1030040.d	CCV2	CCV	1	10/30/24 10:11 PM
B1030041.d	CCB2	CCB	1	10/30/24 10:17 PM
B1030042.d	N069498-001B	SAMP	1	10/30/24 10:36 PM

INJECTION LOG: 241030B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1030043.d	N069498-001B	SAMP	10	10/30/24 10:42 PM
B1030044.d	N069498-002B	SAMP	1	10/30/24 10:48 PM
B1030045.d	N069498-002B	SAMP	5	10/30/24 10:54 PM
B1030046.d	N069498-003B	SAMP	1	10/30/24 11:00 PM
B1030047.d	N069498-003B	SAMP	10	10/30/24 11:06 PM
B1030048.d	N069498-005B	SAMP	1	10/30/24 11:12 PM
B1030049.d	N069498-005B	SAMP	10	10/30/24 11:18 PM
B1030050.d	CCV3	CCV	1	10/30/24 11:23 PM
B1030051.d	CCB3	CCB	1	10/30/24 11:29 PM
B1030052.d	N069498-006B	SAMP	1	10/30/24 11:35 PM
B1030053.d	N069498-007B	SAMP	1	10/30/24 11:41 PM
B1030054.d	N069498-008B	SAMP	1	10/30/24 11:47 PM
B1030055.d	RINSE	ICAL	1	10/30/24 11:53 PM
B1030056.d	CCV4	CCV	1	10/30/24 11:59 PM
B1030057.d	CCB4	CCB	1	10/31/24 12:05 AM
B1030058.d	MB-113640	MBLK	1	10/31/24 12:10 AM
B1030059.d	LCS-113640	LCS	1	10/31/24 12:16 AM
B1030060.d	N069263-001C	SAMP	10	10/31/24 12:22 AM
B1030061.d	N069263-001C	SAMP	50	10/31/24 12:28 AM
B1030062.d	N069263-001C-PS	PS	10	10/31/24 12:34 AM
B1030063.d	N069263-001C-MS	MS	10	10/31/24 12:40 AM
B1030064.d	N069263-001C-MSD	MSD	10	10/31/24 12:46 AM
B1030065.d	N069445-001C	SAMP	10	10/31/24 12:52 AM
B1030066.d	CCV5	CCV	1	10/31/24 12:58 AM
B1030067.d	CCB5	CCB	1	10/31/24 1:03 AM
B1030068.d	ICSA3	ICSA	1	10/31/24 1:09 AM
B1030069.d	ICSAB3	ICSAB	1	10/31/24 1:15 AM
B1030070.d	MB-113718	MBLK	1	10/31/24 1:21 AM
B1030071.d	LCS-113718	LCS	1	10/31/24 1:27 AM
B1030072.d	N069543-001B	SAMP	1	10/31/24 1:33 AM
B1030073.d	N069543-002B	SAMP	1	10/31/24 1:39 AM
B1030074.d	N069543-002B	SAMP	5	10/31/24 1:45 AM
B1030075.d	N069543-002B-PS	PS	1	10/31/24 1:51 AM
B1030076.d	N069543-002B-MS	MS	1	10/31/24 1:57 AM
B1030077.d	N069543-002B-MSD	MSD	1	10/31/24 2:02 AM
B1030078.d	N069543-003B	SAMP	1	10/31/24 2:08 AM
B1030079.d	RINSE	ICAL	1	10/31/24 2:14 AM
B1030080.d	CCV6	CCV	1	10/31/24 2:20 AM
B1030081.d	CCB6	CCB	1	10/31/24 2:26 AM
B1030082.d	N069543-004B	SAMP	1	10/31/24 2:32 AM
B1030083.d	N069543-005B	SAMP	1	10/31/24 2:38 AM
B1030084.d	N069543-006B	SAMP	1	10/31/24 2:44 AM

INJECTION LOG: 241030B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1030085.d	N069543-007B	SAMP	1	10/31/24 2:50 AM
B1030086.d	N069543-008B	SAMP	1	10/31/24 2:56 AM
B1030087.d	N069543-009B	SAMP	1	10/31/24 3:02 AM
B1030088.d	N069543-010B	SAMP	1	10/31/24 3:08 AM
B1030089.d	N069543-011B	SAMP	1	10/31/24 3:13 AM
B1030090.d	N069543-012B	SAMP	1	10/31/24 3:19 AM
B1030091.d	RINSE	ICAL	1	10/31/24 3:25 AM
B1030092.d	CCV7	CCV	1	10/31/24 3:31 AM
B1030093.d	CCB7	CCB	1	10/31/24 3:37 AM
B1030094.d	N069543-013B	SAMP	1	10/31/24 3:43 AM
B1030095.d	N069543-014B	SAMP	1	10/31/24 3:49 AM
B1030096.d	N069543-015B	SAMP	1	10/31/24 3:55 AM
B1030097.d	N069543-016B	SAMP	1	10/31/24 4:01 AM
B1030098.d	N069543-017B	SAMP	1	10/31/24 4:06 AM
B1030099.d	N069543-019B	SAMP	1	10/31/24 4:12 AM
B1030100.d	N069543-020B	SAMP	1	10/31/24 4:18 AM
B1030101.d	RINSE	ICAL	1	10/31/24 4:24 AM
B1030102.d	CCV8	CCV	1	10/31/24 4:30 AM
B1030103.d	CCB8	CCB	1	10/31/24 4:36 AM
B1030104.d	ICSA4	ICSA	1	10/31/24 4:42 AM
B1030105.d	ICSAB4	ICSAB	1	10/31/24 4:48 AM
B1030106.d	N069498-001B	SAMP	1	10/31/24 4:54 AM
B1030107.d	N069498-002B	SAMP	1	10/31/24 5:00 AM
B1030108.d	N069498-003B	SAMP	1	10/31/24 5:06 AM
B1030109.d	N069498-005B	SAMP	1	10/31/24 5:11 AM
B1030110.d	N069498-006B	SAMP	1	10/31/24 5:17 AM
B1030111.d	N069498-007B	SAMP	1	10/31/24 5:23 AM
B1030112.d	N069498-008B	SAMP	1	10/31/24 5:29 AM
B1030113.d	RINSE	ICAL	1	10/31/24 5:35 AM
B1030114.d	CCV9	CCV	1	10/31/24 5:41 AM
B1030115.d	CCB9	CCB	1	10/31/24 5:47 AM
B1030116.d	N069498-001B	SAMP	1	10/31/24 5:53 AM
B1030117.d	N069498-002B	SAMP	1	10/31/24 5:59 AM
B1030118.d	N069498-003B	SAMP	1	10/31/24 6:05 AM
B1030119.d	N069498-005B	SAMP	1	10/31/24 6:10 AM
B1030120.d	N069498-006B	SAMP	1	10/31/24 6:16 AM
B1030121.d	N069498-007B	SAMP	1	10/31/24 6:22 AM
B1030122.d	N069498-008B	SAMP	1	10/31/24 6:28 AM
B1030123.d	RINSE	ICAL	1	10/31/24 6:34 AM
B1030124.d	CCV10	CCV	1	10/31/24 6:40 AM
B1030125.d	CCB10	CCB	1	10/31/24 6:46 AM
B1030126.d	ICSA5	ICSA	1	10/31/24 6:52 AM

INJECTION LOG: 241030B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1030127.d	ICSAB5	ICSAB	1	10/31/24 6:57 AM
B1030128.d	RINSE	ICAL	1	10/31/24 7:03 AM
B1030129.d	RINSE	ICAL	1	10/31/24 7:09 AM
B1030130.d	RINSE	ICAL	1	10/31/24 7:15 AM

SAMPLE PREPARATION LOG



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

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ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 10/29/2024 9:00:00 AM

Prep End Date: 10/29/2024 1:00:00 PM

Prep Batch 113638 Prep Code:3010_W_MSDISS_TPK

Reviewed/ Date: *JRB* 11/8/2024

Initials/ Date: *fo*

Technician: Diane Jetajobe

Page: 1 of 2

Prep Factor Units: mL / mL Temp. (°C): 94.9 Location: DB-4-35

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-113638	Aqueous		25	<input type="checkbox"/>	25	1.000		
50ML LOT# J96406-5447								
MB-113638	Aqueous		25	<input type="checkbox"/>	25	1.000		
THERMOMETER ID: DIGESTION 7								
N069263-001B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069263-001B-MS	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069263-001B-MSD	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069263-002B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069263-003B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069444-001B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069444-002B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069444-003B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069445-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069498-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17140	NITRIC ACID
17147	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-240815C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-240815D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-240815E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-240815F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: **10/29/2024 9:00:00 AM**

Prep End Date: **10/29/2024 1:00:00 PM**

Prep Batch **113638** Prep Code:**3010_W_MSDISS_TPK**

Reviewed/ Date: JRB 11/8/2024

Initials/ Date: for _____

Technician: **Diane Jetajobe**

Page: 2 of 2

Prep Factor Units: mL / mL Temp. (°C): **94.9** Location: **DB-4-35**

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N069498-002B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069498-003B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069498-005B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069498-006B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069498-007B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069498-008B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17140	NITRIC ACID
17147	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-240815C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-240815D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-240815E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-240815F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

INSTRUMENT TUNING CHECK



ASSET LABORATORIES
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CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\241026A.b
Acq. Date-Time 2024-10-29 13:05:42
Report Comment —
Instrument Name G8421A SG19193757

[No Gas]

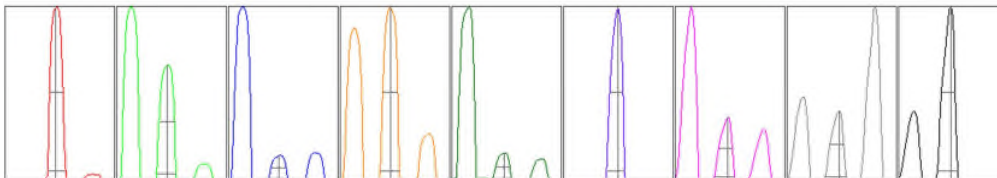
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	9399	93987.85	500.00		1.433	5.000
24	10.00	20512	205115.94	500.00		2.200	5.000
25	10.00	2715	27145.35	500.00		2.874	5.000
26	10.00	3156	31562.95	500.00		2.837	5.000
59	10.00	26510	265103.39	500.00		2.343	5.000
115	10.00	33834	338338.75	500.00		1.956	5.000
206	10.00	8347	83470.09	500.00		1.737	5.000
207	10.00	6620	66204.92	500.00		1.815	5.000
208	10.00	16536	165361.42	500.00		1.731	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.476 %
Doubly Charged 70 / 140 1.100 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	9356.56	8.90	8.90 - 9.10	
24	20330.90	23.90	23.90 - 24.10	
25	2765.32	24.90	24.90 - 25.10	
26	3141.98	25.90	25.90 - 26.10	
59	25661.69	58.95	58.90 - 59.10	
115	32431.06	115.00	114.90 - 115.10	
206	8419.50	205.95	205.90 - 206.10	
207	6909.01	206.95	206.90 - 207.10	
208	17569.19	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.37	0.486	0.900	
24	0.43	0.537	0.900	
25	0.42	0.522	0.900	
26	0.42	0.535	0.900	
59	0.39	0.496	0.900	
115	0.37	0.490	0.900	
206	0.38	0.566	0.900	
207	0.38	0.584	0.900	
208	0.38	0.575	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.00000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.07 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	2.0 mm	Torch V	1.6 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2631 V Pulse HV 1855 V

[H2]

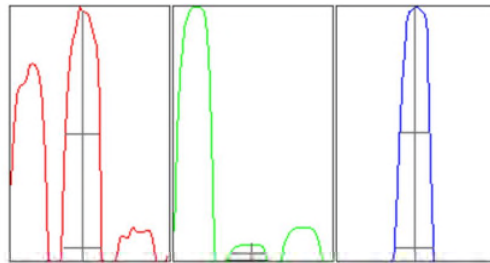
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		151	1510.87			7.910	
59		2572	25721.87			2.444	
115		24801	248007.43			1.906	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.373 %
 Doubly Charged 70 / 140 0.323 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	160.76	25.90	25.90 - 26.10	
59	2609.38	59.00	58.90 - 59.10	
115	25686.72	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.64	0.742	0.900	
59	0.64	0.774	0.900	
115	0.57	0.733	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.07 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	--	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	—	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0007	QP Bias	-15.0 V
Mass Offset	126	Axis Offset	-0.07		

Hardware Settings

Torch

Torch H	2.0 mm	Torch V	1.6 mm
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EM

Discriminator	4.5 mV	Analog HV	2631 V	Pulse HV	1855 V
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[He]

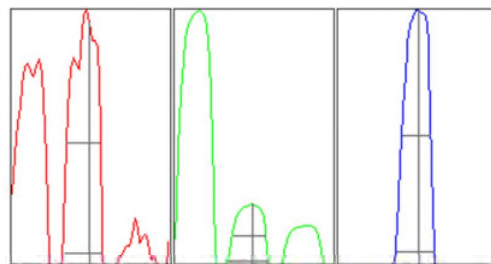
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		66	658.61			12.197	
59		4831	48305.40			1.819	
115		4182	41819.14			2.310	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.152 %
 Doubly Charged 70 / 140 1.104 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	73.00	26.00	25.90 - 26.10	
59	4929.73	59.00	58.90 - 59.10	
115	4326.51	115.05	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.63	0.741	0.900	
59	0.63	0.770	0.900	
115	0.56	0.731	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.07 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0007	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	-0.07		

Hardware Settings

Torch

Torch H	2.0 mm	Torch V	1.6 mm
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EM

Discriminator	4.5 mV	Analog HV	2631 V	Pulse HV	1855 V
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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\241029A.b
Acq. Date-Time 2024-10-30 11:32:42
Report Comment —
Instrument Name G8421A SG19193757

[No Gas]

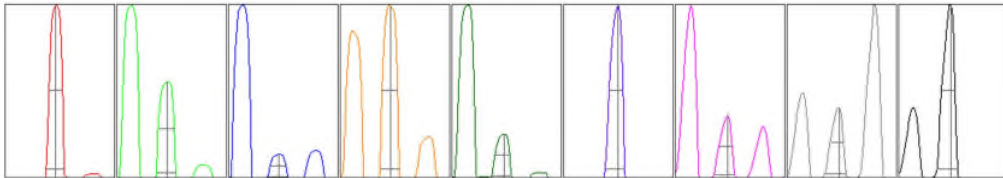
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	14718	147182.52	500.00		1.880	5.000
24	10.00	30724	307240.74	500.00		2.558	5.000
25	10.00	4034	40338.57	500.00		2.808	5.000
26	10.00	4605	46053.25	500.00		3.076	5.000
59	10.00	38189	381893.25	500.00		3.007	5.000
115	10.00	46885	468854.57	500.00		2.623	5.000
206	10.00	10271	102707.30	500.00		1.950	5.000
207	10.00	8019	80190.23	500.00		2.486	5.000
208	10.00	20223	202231.10	500.00		2.308	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.964 %
Doubly Charged 70 / 140 1.064 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	15037.83	8.90	8.90 - 9.10	
24	30065.80	23.90	23.90 - 24.10	
25	3951.19	24.90	24.90 - 25.10	
26	4635.20	25.90	25.90 - 26.10	
59	36696.04	58.95	58.90 - 59.10	
115	44691.17	115.00	114.90 - 115.10	
206	10373.15	205.95	205.90 - 206.10	
207	8481.76	206.95	206.90 - 207.10	
208	21120.23	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.38	0.489	0.900	
24	0.45	0.541	0.900	
25	0.44	0.544	0.900	
26	0.43	0.540	0.900	
59	0.41	0.535	0.900	
115	0.38	0.528	0.900	
206	0.37	0.580	0.900	
207	0.37	0.593	0.900	
208	0.38	0.583	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.00000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.07 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.8 mm	Torch V	1.5 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2628 V Pulse HV 1853 V

[H2]

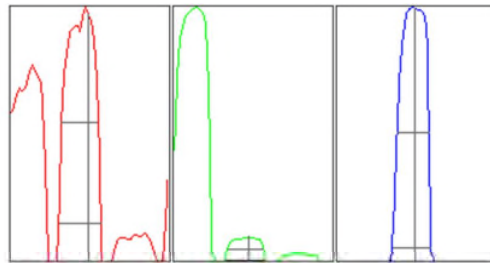
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		231	2309.76			7.634	
59		3389	33894.49			2.902	
115		36414	364137.90			2.148	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.762 %
 Doubly Charged 70 / 140 0.352 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	252.78	26.00	25.90 - 26.10	
59	3554.41	58.95	58.90 - 59.10	
115	37563.66	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.68	0.804	0.900	
59	0.66	0.746	0.900	
115	0.61	0.734	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.07 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	--	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	—	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	132	Axis Gain	1.0007	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	-0.09		

Hardware Settings

Torch

Torch H	1.8 mm	Torch V	1.5 mm
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EM

Discriminator	4.5 mV	Analog HV	2628 V	Pulse HV	1853 V
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[He]

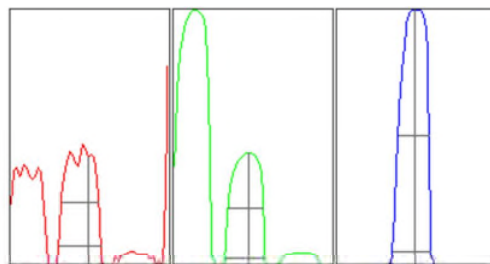
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		101	1011.03			10.946	
59		7478	74782.43			1.944	
115		6284	62841.32			2.413	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.307 %
Doubly Charged	70 / 140 1.135 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	95.26	26.00	25.90 - 26.10	
59	7663.12	58.95	58.90 - 59.10	
115	6364.13	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.69	0.801	0.900	
59	0.66	0.746	0.900	
115	0.59	0.732	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.07 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	132	Axis Gain	1.0007	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.09		

Hardware Settings

Torch

Torch H	1.8 mm	Torch V	1.5 mm
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EM

Discriminator	4.5 mV	Analog HV	2628 V	Pulse HV	1853 V
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INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

INITIAL CALIBRATION SUMMARY: 241029A

Instrument ID: NV00922-ICP8

Analyte	Data File	A1029003.d	A1029005.d	A1029006.d	A1029007.d	A1029008.d	A1029009.d	A1029010.d	A1029011.d	R
	Acq. Date-Time	10/29/2024 01:23 PM	10/29/2024 01:35 PM	10/29/2024 01:41 PM	10/29/2024 01:47 PM	10/29/2024 01:53 PM	10/29/2024 01:59 PM	10/29/2024 02:05 PM	10/29/2024 02:11 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
	Concentration	0.00	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	
45 Sc (ISTD) [2]	CPS	14215	14245	14513	14023.7	14574.2	14664.3	14527.5	14595.3	
55 Mn [2]	CPS	80	288.9	2488	5127.5	10338.8	20066.6	51263.3	103155.2	1.0000

Standard Code
ICAL: 2MSST-240311B
ICAL: 2MSST-240311C
ICAL: 2MWST-240815K
ICV: 2MWST-240815G
LLICV: 2MWST-240815J
IS Mix: 2MWST-240815A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION SUMMARY: 241030B

Instrument ID: NV00922-ICP8

Analyte	Data File	B1030003.d	B1030005.d	B1030006.d	B1030007.d	B1030008.d	B1030009.d	B1030010.d	B1030011.d	R
	Acq. Date-Time	10/30/2024 06:26 PM	10/30/2024 06:39 PM	10/30/2024 06:45 PM	10/30/2024 06:51 PM	10/30/2024 06:57 PM	10/30/2024 07:03 PM	10/30/2024 07:09 PM	10/30/2024 07:15 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
	Concentration	0.00	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	
45 Sc (ISTD) [2]	CPS	30470	29535	29740.9	29404.8	29631.8	29061.9	28853.8	28188.2	
55 Mn [2]	CPS	96.7	572.2	5038.6	9970.8	20101.1	39587.2	100889.6	203596.1	0.9999

Standard Code
ICAL: 2MSST-240311B
ICAL: 2MSST-240311C
ICAL: 2MWST-240815K
ICV: 2MWST-240815G
LLICV: 2MWST-240815J
IS Mix: 2MWST-240815A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: ICV	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6273980							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	101.907	0.50	100.0	0	102	90	110				

Sample ID: LLCCV2	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: ZZZZZ	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6273983							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	0.564	0.50	0.5000	0	113	80	120				

Sample ID: MLCCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: CCV	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6273984							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	19.340	0.50	20.00	0	96.7	90	110				

Sample ID: CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: CCV	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6273997							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	18.768	0.50	20.00	0	93.8	90	110				

Sample ID: CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: CCV	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274003							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	19.544	0.50	20.00	0	97.7	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972
Client ID: CCV	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274016	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese 18.607 0.50 20.00 0 93.0 90 110

Sample ID: CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972
Client ID: CCV	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274028	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese 19.250 0.50 20.00 0 96.2 90 110

Sample ID: CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972
Client ID: CCV	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274040	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese 18.745 0.50 20.00 0 93.7 90 110

Sample ID: CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972
Client ID: CCV	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274053	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese 19.238 0.50 20.00 0 96.2 90 110

Sample ID: CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972
Client ID: CCV	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274064	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese 18.612 0.50 20.00 0 93.1 90 110

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV8	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: CCV	Batch ID: R194972	TestNo: EPA 6020		Analysis Date: 10/29/2024	SeqNo: 6274068						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	19.185	0.50	20.00	0	95.9	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: ICV	Batch ID: R195051	TestNo: EPA 6020		Analysis Date: 10/30/2024	SeqNo: 6278620						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	95.755	0.50	100.0	0	95.8	90	110				
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Sample ID: LLCCV2	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: ZZZZZ	Batch ID: R195051	TestNo: EPA 6020		Analysis Date: 10/30/2024	SeqNo: 6278623						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	0.552	0.50	0.5000	0	110	80	120				
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Sample ID: MLCCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: CCV	Batch ID: R195051	TestNo: EPA 6020		Analysis Date: 10/30/2024	SeqNo: 6278624						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	18.765	0.50	20.00	0	93.8	90	110				
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Sample ID: CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: CCV	Batch ID: R195051	TestNo: EPA 6020		Analysis Date: 10/30/2024	SeqNo: 6278633						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	18.604	0.50	20.00	0	93.0	90	110				
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Sample ID: CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: CCV	Batch ID: R195051	TestNo: EPA 6020		Analysis Date: 10/30/2024	SeqNo: 6278647						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	18.413	0.50	20.00	0	92.1	90	110				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: CCV	Batch ID: R195051	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6278657							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	18.360	0.50	20.00	0	91.8	90	110				

Sample ID: CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: CCV	Batch ID: R195051	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6278662							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	18.731	0.50	20.00	0	93.7	90	110				

Sample ID: CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: CCV	Batch ID: R195051	TestNo: EPA 6020	Analysis Date: 10/31/2024	SeqNo: 6278672							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	18.623	0.50	20.00	0	93.1	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: ICB	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6273981							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese 0.088 0.50

Sample ID: CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: CCB	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6273998							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.50

Sample ID: CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: CCB	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274004							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.50

Sample ID: CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: CCB	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274017							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.50

Sample ID: CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: CCB	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274029							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.50

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972
Client ID: CCB	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274041	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese	ND	0.50
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Sample ID: CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972
Client ID: CCB	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274054	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese	ND	0.50
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Sample ID: CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972
Client ID: CCB	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274065	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese	ND	0.50
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Sample ID: CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972
Client ID: CCB	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274069	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese	ND	0.50
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051
Client ID: ICB	Batch ID: R195051	TestNo: EPA 6020		Analysis Date: 10/30/2024	SeqNo: 6278621
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese ND 0.50

Sample ID: CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051
Client ID: CCB	Batch ID: R195051	TestNo: EPA 6020		Analysis Date: 10/30/2024	SeqNo: 6278634
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese ND 0.50

Sample ID: CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051
Client ID: CCB	Batch ID: R195051	TestNo: EPA 6020		Analysis Date: 10/30/2024	SeqNo: 6278648
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese ND 0.50

Sample ID: CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051
Client ID: CCB	Batch ID: R195051	TestNo: EPA 6020		Analysis Date: 10/30/2024	SeqNo: 6278658
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese ND 0.50

Sample ID: CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051
Client ID: CCB	Batch ID: R195051	TestNo: EPA 6020		Analysis Date: 10/31/2024	SeqNo: 6278663
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese ND 0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: CCB	Batch ID: R195051	TestNo: EPA 6020		Analysis Date: 10/31/2024	SeqNo: 6278673						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	ND	0.50									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out

E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values

H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
(M) Test is modified

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972
Client ID: ICSA	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6273985	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese	ND	0.50									
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Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972
Client ID: ICSA	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6273986	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese	20.133	0.50	20.00	0	101	80	120				
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Sample ID: ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972
Client ID: ICSA	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274005	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese	ND	0.50									
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Sample ID: ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972
Client ID: ICSA	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274006	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese	19.780	0.50	20.00	0	98.9	80	120				
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Sample ID: ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972
Client ID: ICSA	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274042	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese	ND	0.50									
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSAB3	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: ICSAB	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274043							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	18.942	0.50	20.00	0	94.7	80	120				

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: ICSA	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274070							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	ND	0.50									

Sample ID: ICSAB4	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: ICSAB	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274071							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	19.356	0.50	20.00	0	96.8	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: ICSA	Batch ID: R195051	TestNo: EPA 6020		Analysis Date: 10/30/2024	SeqNo: 6278625						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.50

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: ICSA	Batch ID: R195051	TestNo: EPA 6020		Analysis Date: 10/30/2024	SeqNo: 6278625						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese 19.401 0.50 20.00 0 97.0 80 120

Sample ID: ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: ICSA	Batch ID: R195051	TestNo: EPA 6020		Analysis Date: 10/30/2024	SeqNo: 6278635						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.50

Sample ID: ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: ICSA	Batch ID: R195051	TestNo: EPA 6020		Analysis Date: 10/30/2024	SeqNo: 6278636						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese 19.533 0.50 20.00 0 97.7 80 120

Sample ID: ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: ICSA	Batch ID: R195051	TestNo: EPA 6020		Analysis Date: 10/31/2024	SeqNo: 6278674						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSAB3	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: ICSAB	Batch ID: R195051	TestNo: EPA 6020		Analysis Date: 10/31/2024	SeqNo: 6278675						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	19.465	0.50	20.00	0	97.3	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

INTERNAL STANDARD SUMMARY



ASSET LABORATORIES
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INTERNAL STANDARD: 241029A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	14215	14215	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	14513	14215	102.1	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	14245	14215	100.21	PASS	30-150
Std3-5/50 ppb	ICAL	1	14513	14215	102.1	PASS	30-150
Std4-10/100 ppb	ICAL	1	14023.7	14215	98.65	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	14574.2	14215	102.53	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	14664.3	14215	103.16	PASS	30-150
Std7-100/1000 ppb	ICAL	1	14527.5	14215	102.2	PASS	30-150
Std8-200/2000 ppb	ICAL	1	14595.3	14215	102.68	PASS	30-150
ICV	ICV	1	14243.9	14215	100.2	PASS	30-150
ICB	ICB	1	14258.3	14215	100.3	PASS	30-150
LLCCV1	CCV1	1	14037	14215	98.75	PASS	30-150
LLCCV2	CCV1	1	14411.8	14215	101.38	PASS	30-150
MLCCV1	CCV	1	14434.1	14215	101.54	PASS	30-150
ICSA1	ICSA	1	14409.6	14215	101.37	PASS	30-150
ICSAB1	ICSAB	1	14285	14215	100.49	PASS	30-150
CCV1	CCV	1	16495.9	14215	116.05	PASS	30-150
CCV1	CCV	1	16583.8	14215	116.66	PASS	30-150
CCB1	CCB	1	16073.3	14215	113.07	PASS	30-150
CCV2	CCV	1	16263.5	14215	114.41	PASS	30-150
CCB2	CCB	1	16083.4	14215	113.14	PASS	30-150
ICSA2	ICSA	1	16015.5	14215	112.67	PASS	30-150
ICSAB2	ICSAB	1	16095.6	14215	113.23	PASS	30-150
CCV3	CCV	1	16341.4	14215	114.96	PASS	30-150
CCB3	CCB	1	16022.2	14215	112.71	PASS	30-150
CCV4	CCV	1	16191.2	14215	113.9	PASS	30-150
CCB4	CCB	1	15852	14215	111.52	PASS	30-150
CCV5	CCV	1	16245.7	14215	114.29	PASS	30-150
CCB5	CCB	1	15894.3	14215	111.81	PASS	30-150
ICSA3	ICSA	1	15943.2	14215	112.16	PASS	30-150
ICSAB3	ICSAB	1	16445.9	14215	115.69	PASS	30-150
MB-113638	MBLK	1	15543.9	14215	109.35	PASS	30-150
LCS-113638	LCS	1	15918.7	14215	111.99	PASS	30-150
N069263-001B	SAMP	1	14174.9	14215	99.72	PASS	30-150
N069263-001B	SAMP	5	14925.6	14215	105	PASS	30-150
N069263-001B-PS	PS	1	13871.3	14215	97.58	PASS	30-150
N069263-001B-MS	MS	1	14166.1	14215	99.66	PASS	30-150
N069263-001B-MSD	MSD	1	14203.9	14215	99.92	PASS	30-150
N069263-002B	SAMP	1	13957	14215	98.19	PASS	30-150
N069263-003B	SAMP	1	14014.8	14215	98.59	PASS	30-150
CCV6	CCV	1	15690.7	14215	110.38	PASS	30-150

INTERNAL STANDARD: 241029A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
CCB6	CCB	1	15486.1	14215	108.94	PASS	30-150
N069444-001B	SAMP	1	13543.3	14215	95.27	PASS	30-150
N069444-002B	SAMP	1	13656.7	14215	96.07	PASS	30-150
N069444-003B	SAMP	1	13399.9	14215	94.27	PASS	30-150
N069445-001B	SAMP	1	13503.3	14215	94.99	PASS	30-150
N069498-001B	SAMP	1	13610	14215	95.74	PASS	30-150
N069498-002B	SAMP	1	12205.6	14215	85.86	PASS	30-150
N069498-003B	SAMP	1	12823.9	14215	90.21	PASS	30-150
N069498-005B	SAMP	1	13344.3	14215	93.87	PASS	30-150
N069498-006B	SAMP	1	13299.8	14215	93.56	PASS	30-150
CCV7	CCV	1	15793.1	14215	111.1	PASS	30-150
CCB7	CCB	1	15089.1	14215	106.15	PASS	30-150
N069498-007B	SAMP	1	13288.7	14215	93.48	PASS	30-150
N069498-008B	SAMP	1	12714.9	14215	89.45	PASS	30-150
CCV8	CCV	1	15133.6	14215	106.46	PASS	30-150
CCB8	CCB	1	14799.9	14215	104.11	PASS	30-150
ICSA4	ICSA	1	15133.6	14215	106.46	PASS	30-150
ICSAB4	ICSAB	1	15274.8	14215	107.46	PASS	30-150
CCV9	CCV	1	14701	14215	103.42	PASS	30-150
CCB9	CCB	1	14499.7	14215	102	PASS	30-150
CCV10	CCV	1	14903.3	14215	104.84	PASS	30-150
CCB10	CCB	1	14568.6	14215	102.49	PASS	30-150
CCV11	CCV	1	14947.8	14215	105.16	PASS	30-150
CCB11	CCB	1	14355.1	14215	100.99	PASS	30-150
ICSA5	ICSA	1	14657.6	14215	103.11	PASS	30-150
ICSAB5	ICSAB	1	14584.2	14215	102.6	PASS	30-150

INTERNAL STANDARD: 241030B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	30470	30470	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	29605.1	30470	97.16	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	29535	30470	96.93	PASS	30-150
Std3-5/50 ppb	ICAL	1	29740.9	30470	97.61	PASS	30-150
Std4-10/100 ppb	ICAL	1	29404.8	30470	96.5	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	29631.8	30470	97.25	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	29061.9	30470	95.38	PASS	30-150
Std7-100/1000 ppb	ICAL	1	28853.8	30470	94.7	PASS	30-150
Std8-200/2000 ppb	ICAL	1	28188.2	30470	92.51	PASS	30-150
ICV	ICV	1	29010.8	30470	95.21	PASS	30-150
ICB	ICB	1	28961.8	30470	95.05	PASS	30-150
LLCCV1	CCV	1	28843.8	30470	94.66	PASS	30-150
LLCCV2	CCV	1	28430.8	30470	93.31	PASS	30-150
MLCCV1	CCV	1	28877.2	30470	94.77	PASS	30-150
ICSA1	ICSA	1	28813.7	30470	94.56	PASS	30-150
ICSAB1	ICSAB	1	28944	30470	94.99	PASS	30-150
CCV1	CCV	1	27996.8	30470	91.88	PASS	30-150
CCB1	CCB	1	27681.8	30470	90.85	PASS	30-150
CCV1	CCV	1	27263.4	30470	89.48	PASS	30-150
CCB1	CCB	1	26863.8	30470	88.16	PASS	30-150
ICSA2	ICSA	1	26250.6	30470	86.15	PASS	30-150
ICSAB2	ICSAB	1	26853.9	30470	88.13	PASS	30-150
N069263-001B	SAMP	10	25994.7	30470	85.31	PASS	30-150
N069263-001B	SAMP	50	25929	30470	85.1	PASS	30-150
N069263-001B-PS	PS	10	25782.1	30470	84.61	PASS	30-150
N069263-001B-MS	MS	10	25818.9	30470	84.74	PASS	30-150
N069263-001B-MSD	MSD	10	23257.4	30470	76.33	PASS	30-150
N069263-002B	SAMP	10	23643.4	30470	77.6	PASS	30-150
N069263-003B	SAMP	10	23690.2	30470	77.75	PASS	30-150
N069444-001B	SAMP	10	23242.9	30470	76.28	PASS	30-150
N069444-002B	SAMP	10	22656.5	30470	74.36	PASS	30-150
N069445-001B	SAMP	10	22033.4	30470	72.31	PASS	30-150
CCV2	CCV	1	25085.5	30470	82.33	PASS	30-150
CCB2	CCB	1	25554	30470	83.87	PASS	30-150
N069498-001B	SAMP	1	24213.1	30470	79.47	PASS	30-150
N069498-001B	SAMP	10	26535.5	30470	87.09	PASS	30-150
N069498-002B	SAMP	1	17911.9	30470	58.79	PASS	30-150
N069498-002B	SAMP	5	21409.3	30470	70.26	PASS	30-150
N069498-003B	SAMP	1	17866.2	30470	58.64	PASS	30-150
N069498-003B	SAMP	10	24086.3	30470	79.05	PASS	30-150
N069498-005B	SAMP	1	21215.7	30470	69.63	PASS	30-150

INTERNAL STANDARD: 241030B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
N069498-005B	SAMP	10	22257	30470	73.05	PASS	30-150
CCV3	CCV	1	25244.6	30470	82.85	PASS	30-150
CCB3	CCB	1	25606.3	30470	84.04	PASS	30-150
N069498-006B	SAMP	1	17058.8	30470	55.99	PASS	30-150
N069498-007B	SAMP	1	18222.2	30470	59.8	PASS	30-150
N069498-008B	SAMP	1	14819.9	30470	48.64	PASS	30-150
CCV4	CCV	1	18946.3	30470	62.18	PASS	30-150
CCB4	CCB	1	19428	30470	63.76	PASS	30-150
CCV5	CCV	1	18781.7	30470	61.64	PASS	30-150
CCB5	CCB	1	19584.8	30470	64.28	PASS	30-150
ICSA3	ICSA	1	19928.6	30470	65.4	PASS	30-150
ICSAB3	ICSAB	1	20028.7	30470	65.73	PASS	30-150
CCV6	CCV	1	18192.2	30470	59.71	PASS	30-150
CCB6	CCB	1	18911.8	30470	62.07	PASS	30-150
CCV7	CCV	1	12252.3	30470	40.21	PASS	30-150
CCB7	CCB	1	12368	30470	40.59	PASS	30-150
CCV8	CCV	1	11810.9	30470	38.76	PASS	30-150
CCB8	CCB	1	11687.5	30470	38.36	PASS	30-150
ICSA4	ICSA	1	11810.9	30470	38.76	PASS	30-150
ICSAB4	ICSAB	1	12098.9	30470	39.71	PASS	30-150
N069498-001B	SAMP	1	10542.3	30470	34.6	PASS	30-150
N069498-002B	SAMP	1	7321.6	30470	24.03	NR!	30-150
N069498-003B	SAMP	1	7042.6	30470	23.11	NR!	30-150
N069498-005B	SAMP	1	7687.4	30470	25.23	NR!	30-150
N069498-006B	SAMP	1	7450.6	30470	24.45	NR!	30-150
N069498-007B	SAMP	1	9082.5	30470	29.81	NR!	30-150
N069498-008B	SAMP	1	7077.1	30470	23.23	NR!	30-150
CCV9	CCV	1	10225.4	30470	33.56	PASS	30-150
CCB9	CCB	1	10009.7	30470	32.85	PASS	30-150
N069498-001B	SAMP	1	7881.9	30470	25.87	NR!	30-150
N069498-002B	SAMP	1	5967.8	30470	19.59	NR!	30-150
N069498-003B	SAMP	1	5625.4	30470	18.46	NR!	30-150
N069498-005B	SAMP	1	6015.6	30470	19.74	NR!	30-150
N069498-006B	SAMP	1	6162.3	30470	20.22	NR!	30-150
N069498-007B	SAMP	1	7476.2	30470	24.54	NR!	30-150
N069498-008B	SAMP	1	5765.5	30470	18.92	NR!	30-150
CCV10	CCV	1	7748.5	30470	25.43	NR!	30-150
CCB10	CCB	1	7823	30470	25.67	NR!	30-150
ICSA5	ICSA	1	7837.4	30470	25.72	NR!	30-150
ICSAB5	ICSAB	1	8082	30470	26.52	NR!	30-150

SERIAL DILUTION/ POST DIGESTION SPIKE



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ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N069445
Test Method: EPA 6020
Analysis Date: 10/30/2024

Dilution Test Summary

Matrix: Water
Batch No.: 113638


Instrument ID: NV00922-ICP8 (ICPMS-03)
Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069263-001B DT 50x	Manganese	Mn	µg/L	443.7973	PASS	460.5615	3.64%	10

Reviewed by:

 11/27/2024

Note: NA - Not Applicable

11/25/24 18:18

N069445_6020_113638_DT

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: N069263-001B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: ZZZZZZ	Batch ID: 113638	TestNo: EPA 6020 EPA 3010A	Analysis Date: 10/30/2024	SeqNo: 6278639							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	1352.698	5.0	1000	460.6	89.2	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

MDL STUDY



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Method Detection Limit

Analytical Method: **EPA 6020B**
 Digestion Method: **3010**
 Date of Analysis: **2/15-2/19/2024**
 Digestion Date: **2/15-2/19/2024**
 Instrument Name: **NV0922-ICP8**
 Analysts: **DJ**

Matrix: **Water**
 Unit: **ug/L**

Analyte	1	2	3	4	5	6	7	AMT SPIKED, ppb	SD	MDLs	PQL	MDL
ANTIMONY	0.543	0.521	0.559	0.527	0.573	0.559	0.572	0.50	0.0208	0.0653	0.50	0.0653
ARSENIC	0.102	0.123	0.107	0.116	0.096	0.161	0.115	0.10	0.0212	0.0668	0.10	0.0668
BARIUM	1.103	1.065	1.083	1.081	1.094	1.066	1.060	1.00	0.0159	0.0499	1.00	0.0499
BERYLLIUM	0.533	0.524	0.557	0.541	0.564	0.565	0.502	0.50	0.0233	0.0733	0.50	0.0733
CADMIUM	0.523	0.562	0.529	0.559	0.491	0.544	0.533	0.50	0.0243	0.0763	0.50	0.0763
CHROMIUM	1.015	0.996	1.000	1.100	1.030	1.081	1.052	1.00	0.0402	0.1264	1.00	0.1264
COBALT	0.524	0.523	0.541	0.559	0.528	0.534	0.551	0.50	0.0138	0.0433	0.50	0.0433
COPPER	1.043	1.028	1.026	1.016	1.068	1.098	1.021	1.00	0.0301	0.0947	1.00	0.0947
IRON	11.041	10.660	10.783	11.168	10.989	10.919	10.802	10.00	0.1734	0.5449	10.00	0.5449
LEAD	1.076	1.068	1.091	1.077	1.083	1.040	1.040	1.00	0.0203	0.0637	1.00	0.0637
MANGANESE	0.558	0.529	0.519	0.541	0.532	0.525	0.554	0.50	0.0148	0.0465	0.50	0.0465
MOLYBDENUM	0.564	0.571	0.574	0.537	0.518	0.554	0.550	0.50	0.0200	0.0629	0.50	0.0629
NICKEL	1.025	1.059	1.057	0.947	0.974	1.069	1.036	1.00	0.0465	0.1461	1.00	0.1461
SELENIUM	0.679	0.622	0.547	0.429	0.439	0.552	0.506	0.50	0.0911	0.2863	0.50	0.2863
SILVER	0.525	0.538	0.555	0.545	0.551	0.530	0.518	0.50	0.0140	0.0439	0.50	0.0439
THALLIUM	0.503	0.493	0.491	0.555	0.525	0.504	0.499	0.50	0.0227	0.0713	0.50	0.0713
URANIUM	0.517	0.513	0.528	0.542	0.526	0.533	0.523	0.50	0.0097	0.0306	0.50	0.0306
VANADIUM	1.081	1.076	1.027	1.054	1.069	1.043	1.080	1.00	0.0209	0.0658	1.00	0.0658
ZINC	10.646	10.643	10.661	10.514	10.927	10.516	10.419	10.00	0.1631	0.5126	10.00	0.7534
ALUMINUM	10.305	10.064	10.146	10.336	10.592	10.459	10.670	10.00	0.2224	0.6990	10.00	0.6990



Method Detection Limit (Blanks)

Analyte	1	2	3	4	5	6	7	Mean	SD	MDLb
ANTIMONY	0.011	0.009	0.001	0.001	0.003	0.018	0.012	0.0080	0.0065	0.0285
ARSENIC	0.021	0.013	0.004	0.008	0.000	0.001	0.000	0.0067	0.0079	0.0316
BARIUM	0.000	0.018	0.014	0.000	0.003	0.001	0.003	0.0054	0.0072	0.0280
BERYLLIUM	0.003	0.005	0.007	0.002	0.005	0.014	0.003	0.0057	0.0039	0.0179
CADMIUM	0.000	0.002	0.000	0.000	0.000	0.001	0.000	0.0004	0.0007	0.0026
CHROMIUM	0.000	0.000	0.000	0.000	0.000	0.001	0.004	0.0008	0.0016	0.0059
COBALT	0.000	0.000	0.000	0.000	0.000	0.003	0.001	0.0006	0.0012	0.0042
COPPER	0.000	0.000	0.069	0.000	0.010	0.000	0.000	0.0113	0.0258	0.0924
IRON	0.000	0.000	0.000	0.236	0.187	0.020	0.112	0.0792	0.0996	0.3922
LEAD	0.001	0.000	0.000	0.002	0.001	0.001	0.001	0.0011	0.0009	0.0037
MANGANESE	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.0008	0.0020	0.0071
MOLYBDENUM	0.017	0.013	0.007	0.015	0.004	0.022	0.009	0.0126	0.0062	0.0321
NICKEL	0.000	0.000	0.062	0.000	0.000	0.017	0.013	0.0132	0.0228	0.0849
SELENIUM	0.007	0.027	0.000	0.000	0.019	0.000	0.013	0.0093	0.0107	0.0428
SILVER	0.004	0.002	0.002	0.000	0.000	0.001	0.000	0.0012	0.0014	0.0057
THALLIUM	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.0003	0.0008	0.0028
URANIUM	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.0001	0.0004	0.0013
VANADIUM	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.0003	0.0004	0.0016
ZINC	0.000	0.000	0.257	0.175	0.513	0.000	0.000	0.1350	0.1968	0.7534
ALUMINUM	0.000	0.000	0.106	0.000	0.000	0.170	0.295	0.0816	0.1160	0.4460

Note: Higher value between **MDLs** and **MDLb** will be used.



LOD PQL VERIFICATION 2024

Analytical Method: EPA 6020 / 200.8
Digestion Method: EPA 3010A
Date of Analysis: 1/20/2024
Digestion Date: 1/20/2024
Instrument Name: ICPMS3
Analysts: DBJ

Matrix: Water
Units: ug/L

N062388

Analyte	MDLs	LOD	ACTUAL LOD	PQL	ACTUAL PQL	% RECOVERY
ANTIMONY	0.0652	0.025	0.288	0.50	0.552	110
ARSENIC	0.0667	0.050	0.055	0.10	0.107	107
BARIUM	0.0498	0.500	0.547	1.00	1.049	105
BERYLLIUM	0.0732	0.250	0.253	0.50	0.502	100
CADMIUM	0.0763	0.250	0.255	0.50	0.498	100
CHROMIUM	0.1263	0.500	0.536	1.00	1.048	105
COBALT	0.0433	0.250	0.261	0.50	0.518	104
COPPER	0.0946	0.100	0.620	1.00	0.941	94
IRON	0.5444	5.000	5.219	10.00	10.531	105
LEAD	0.0636	0.500	0.513	1.00	1.035	104
MANGANESE	0.0464	0.250	0.261	0.50	0.602	120
MOLYBDENUM	0.0628	0.250	0.275	0.50	0.534	107
NICKEL	0.1460	0.500	0.492	1.00	1.184	118
SELENIUM	0.2861	0.250	0.272	0.50	0.536	107
SILVER	0.0438	0.250	0.277	0.50	0.534	107
THALLIUM	0.0712	0.250	0.264	0.50	0.508	102
URANIUM	0.0306	0.250	0.261	0.50	0.523	105
VANADIUM	0.0657	0.500	0.557	1.00	1.063	106
ZINC	0.5121	5.000	5.394	10.00	10.481	105
ALUMINUM	0.6983	5.000	5.519	10.00	10.395	104

EPA 6020 Total



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 113640
ASSET #: N069445

Instrument ID: NV00922-ICP8
Analyst: DBJ

Method: _____ TOTAL _____
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 10/30/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MMS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?	X			X		
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer NS 11/1/2024

Date: _____
 Date: _____

SAMPLE CALCULATION



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SAMPLE CALCULATION

METHOD: EPA 6020
TEST NAME: Heavy Metals by ICP-MS
MATRIX: Groundwater

FORMULA:

Calculate the Manganese concentration, in ug/L in the original sample as follows:

$$\text{Manganese, ug/L} = A * DF * PF$$

where:

A = ug/L, calculated concentration
DF = Dilution Factor
PF = Final Volume of Digestate, mL / Amount of Sample, mL

For Sample **N069445-001C**, the concentration in ug/L is calculated as follows:


$$\text{Manganese, ug/L} = 58.5824 * 10 * (25 / 25)$$

$$\text{Manganese, ug/L} = 585.8241$$

Reporting results in two significant figures,

$$\text{Manganese, ug/L} = 590$$

Reviewed by:

 11/27/2024

% RSD SUMMARY



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PERCENT RSD SUMMARY: 241030B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.07	31.685	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.45	4.792	15	PASS
Std3-5/50 ppb	ICAL	1	4.65	2.997	15	PASS
Std4-10/100 ppb	ICAL	1	9.38	1.882	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	18.87	1.57	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	37.97	1.277	15	PASS
Std7-100/1000 ppb	ICAL	1	97.63	1.355	15	PASS
Std8-200/2000 ppb	ICAL	1	201.75	1.963	15	PASS
ICV	ICV	1	95.75	2.102	15	PASS
ICB	ICB	1	0.01	106.067	15	<PQL
LLCCV1	CCV	1	0.1	3.352	20	PASS
LLCCV2	CCV	1	0.55	5.551	20	PASS
MLCCV1	CCV	1	18.77	0.622	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	19.4	1.995	15	PASS
CCV1	CCV	1	18.38	0.781	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL
CCV1	CCV	1	18.6	1.211	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	19.53	1.499	15	PASS
CCV2	CCV	1	18.41	0.973	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL
CCV3	CCV	1	18.36	0.516	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL
CCV4	CCV	1	18.73	2.799	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL
MB-113640	MBLK	1	<0.000	N/A	15	<PQL
LCS-113640	LCS	1	94	1.252	15	PASS
N069263-001C	SAMP	10	48.43	2.559	15	PASS
N069263-001C	SAMP	50	9.89	3.795	15	PASS
N069263-001C-PS	PS	10	137.23	2.453	15	PASS
N069263-001C-MS	MS	10	56.99	0.667	15	PASS
N069263-001C-MSD	MSD	10	57.31	2.693	15	PASS
N069445-001C	SAMP	10	58.58	3.817	15	PASS
CCV5	CCV	1	18.62	2.884	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	19.47	2.159	15	PASS
CCV6	CCV	1	18.84	2.01	15	PASS

PERCENT RSD SUMMARY: 241030B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment
CCB6	CCB	1	0	742.63	15	<PQL
CCV7	CCV	1	18.6	2.445	15	PASS
CCB7	CCB	1	<0.000	N/A	15	<PQL
CCV8	CCV	1	18.76	1.215	15	PASS
CCB8	CCB	1	0	542.479	15	<PQL
ICSA4	ICSA	1	0.03	176.405	15	<PQL
ICSAB4	ICSAB	1	19.78	3.194	15	PASS
CCV9	CCV	1	18.69	1.924	15	PASS
CCB9	CCB	1	<0.000	N/A	15	<PQL
CCV10	CCV	1	18.8	2.297	15	PASS
CCB10	CCB	1	0.02	147.12	15	<PQL
ICSA5	ICSA	1	0.02	155.026	15	<PQL
ICSAB5	ICSAB	1	19.22	2.635	15	PASS

ANALYSIS RUN LOG



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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INJECTION LOG: 241030B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1030001.d	RINSE	ICAL	1	10/30/24 6:15 PM
B1030002.d	RINSE	ICAL	1	10/30/24 6:20 PM
B1030003.d	Cal Blk	IBLK	1	10/30/24 6:26 PM
B1030004.d	Std1-0.1/1 ppb	ICAL	1	10/30/24 6:32 PM
B1030005.d	Std2-0.5/5 ppb	ICAL	1	10/30/24 6:39 PM
B1030006.d	Std3-5/50 ppb	ICAL	1	10/30/24 6:45 PM
B1030007.d	Std4-10/100 ppb	ICAL	1	10/30/24 6:51 PM
B1030008.d	Std5-4.0/20/200 ppb	ICAL	1	10/30/24 6:57 PM
B1030009.d	Std6-8.0/40/400 ppb	ICAL	1	10/30/24 7:03 PM
B1030010.d	Std7-100/1000 ppb	ICAL	1	10/30/24 7:09 PM
B1030011.d	Std8-200/2000 ppb	ICAL	1	10/30/24 7:15 PM
B1030012.d	ICV	ICV	1	10/30/24 7:24 PM
B1030013.d	ICB	ICB	1	10/30/24 7:29 PM
B1030014.d	LLCCV1	CCV	1	10/30/24 7:35 PM
B1030015.d	LLCCV2	CCV	1	10/30/24 7:41 PM
B1030016.d	MLCCV1	CCV	1	10/30/24 7:50 PM
B1030017.d	ICSA1	ICSA	1	10/30/24 7:56 PM
B1030018.d	ICSAB1	ICSAB	1	10/30/24 8:01 PM
B1030019.d	N069392-003A	SAMP	1	10/30/24 8:07 PM
B1030020.d	N069392-005A	SAMP	1	10/30/24 8:13 PM
B1030021.d	N069233-004E	SAMP	5	10/30/24 8:19 PM
B1030022.d	N069146-013C	SAMP	1	10/30/24 8:25 PM
B1030023.d	RINSE	ICAL	1	10/30/24 8:31 PM
B1030024.d	CCV1	CCV	1	10/30/24 8:37 PM
B1030025.d	CCB1	CCB	1	10/30/24 8:43 PM
B1030026.d	CCV1	CCV	1	10/30/24 8:48 PM
B1030027.d	CCB1	CCB	1	10/30/24 8:54 PM
B1030028.d	ICSA2	ICSA	1	10/30/24 9:00 PM
B1030029.d	ICSAB2	ICSAB	1	10/30/24 9:06 PM
B1030030.d	N069263-001B	SAMP	10	10/30/24 9:12 PM
B1030031.d	N069263-001B	SAMP	50	10/30/24 9:18 PM
B1030032.d	N069263-001B-PS	PS	10	10/30/24 9:24 PM
B1030033.d	N069263-001B-MS	MS	10	10/30/24 9:30 PM
B1030034.d	N069263-001B-MSD	MSD	10	10/30/24 9:35 PM
B1030035.d	N069263-002B	SAMP	10	10/30/24 9:41 PM
B1030036.d	N069263-003B	SAMP	10	10/30/24 9:47 PM
B1030037.d	N069444-001B	SAMP	10	10/30/24 9:53 PM
B1030038.d	N069444-002B	SAMP	10	10/30/24 9:59 PM
B1030039.d	N069445-001B	SAMP	10	10/30/24 10:05 PM
B1030040.d	CCV2	CCV	1	10/30/24 10:11 PM
B1030041.d	CCB2	CCB	1	10/30/24 10:17 PM
B1030042.d	N069498-001B	SAMP	1	10/30/24 10:36 PM

INJECTION LOG: 241030B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1030043.d	N069498-001B	SAMP	10	10/30/24 10:42 PM
B1030044.d	N069498-002B	SAMP	1	10/30/24 10:48 PM
B1030045.d	N069498-002B	SAMP	5	10/30/24 10:54 PM
B1030046.d	N069498-003B	SAMP	1	10/30/24 11:00 PM
B1030047.d	N069498-003B	SAMP	10	10/30/24 11:06 PM
B1030048.d	N069498-005B	SAMP	1	10/30/24 11:12 PM
B1030049.d	N069498-005B	SAMP	10	10/30/24 11:18 PM
B1030050.d	CCV3	CCV	1	10/30/24 11:23 PM
B1030051.d	CCB3	CCB	1	10/30/24 11:29 PM
B1030052.d	N069498-006B	SAMP	1	10/30/24 11:35 PM
B1030053.d	N069498-007B	SAMP	1	10/30/24 11:41 PM
B1030054.d	N069498-008B	SAMP	1	10/30/24 11:47 PM
B1030055.d	RINSE	ICAL	1	10/30/24 11:53 PM
B1030056.d	CCV4	CCV	1	10/30/24 11:59 PM
B1030057.d	CCB4	CCB	1	10/31/24 12:05 AM
B1030058.d	MB-113640	MBLK	1	10/31/24 12:10 AM
B1030059.d	LCS-113640	LCS	1	10/31/24 12:16 AM
B1030060.d	N069263-001C	SAMP	10	10/31/24 12:22 AM
B1030061.d	N069263-001C	SAMP	50	10/31/24 12:28 AM
B1030062.d	N069263-001C-PS	PS	10	10/31/24 12:34 AM
B1030063.d	N069263-001C-MS	MS	10	10/31/24 12:40 AM
B1030064.d	N069263-001C-MSD	MSD	10	10/31/24 12:46 AM
B1030065.d	N069445-001C	SAMP	10	10/31/24 12:52 AM
B1030066.d	CCV5	CCV	1	10/31/24 12:58 AM
B1030067.d	CCB5	CCB	1	10/31/24 1:03 AM
B1030068.d	ICSA3	ICSA	1	10/31/24 1:09 AM
B1030069.d	ICSAB3	ICSAB	1	10/31/24 1:15 AM
B1030070.d	MB-113718	MBLK	1	10/31/24 1:21 AM
B1030071.d	LCS-113718	LCS	1	10/31/24 1:27 AM
B1030072.d	N069543-001B	SAMP	1	10/31/24 1:33 AM
B1030073.d	N069543-002B	SAMP	1	10/31/24 1:39 AM
B1030074.d	N069543-002B	SAMP	5	10/31/24 1:45 AM
B1030075.d	N069543-002B-PS	PS	1	10/31/24 1:51 AM
B1030076.d	N069543-002B-MS	MS	1	10/31/24 1:57 AM
B1030077.d	N069543-002B-MSD	MSD	1	10/31/24 2:02 AM
B1030078.d	N069543-003B	SAMP	1	10/31/24 2:08 AM
B1030079.d	RINSE	ICAL	1	10/31/24 2:14 AM
B1030080.d	CCV6	CCV	1	10/31/24 2:20 AM
B1030081.d	CCB6	CCB	1	10/31/24 2:26 AM
B1030082.d	N069543-004B	SAMP	1	10/31/24 2:32 AM
B1030083.d	N069543-005B	SAMP	1	10/31/24 2:38 AM
B1030084.d	N069543-006B	SAMP	1	10/31/24 2:44 AM

INJECTION LOG: 241030B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1030085.d	N069543-007B	SAMP	1	10/31/24 2:50 AM
B1030086.d	N069543-008B	SAMP	1	10/31/24 2:56 AM
B1030087.d	N069543-009B	SAMP	1	10/31/24 3:02 AM
B1030088.d	N069543-010B	SAMP	1	10/31/24 3:08 AM
B1030089.d	N069543-011B	SAMP	1	10/31/24 3:13 AM
B1030090.d	N069543-012B	SAMP	1	10/31/24 3:19 AM
B1030091.d	RINSE	ICAL	1	10/31/24 3:25 AM
B1030092.d	CCV7	CCV	1	10/31/24 3:31 AM
B1030093.d	CCB7	CCB	1	10/31/24 3:37 AM
B1030094.d	N069543-013B	SAMP	1	10/31/24 3:43 AM
B1030095.d	N069543-014B	SAMP	1	10/31/24 3:49 AM
B1030096.d	N069543-015B	SAMP	1	10/31/24 3:55 AM
B1030097.d	N069543-016B	SAMP	1	10/31/24 4:01 AM
B1030098.d	N069543-017B	SAMP	1	10/31/24 4:06 AM
B1030099.d	N069543-019B	SAMP	1	10/31/24 4:12 AM
B1030100.d	N069543-020B	SAMP	1	10/31/24 4:18 AM
B1030101.d	RINSE	ICAL	1	10/31/24 4:24 AM
B1030102.d	CCV8	CCV	1	10/31/24 4:30 AM
B1030103.d	CCB8	CCB	1	10/31/24 4:36 AM
B1030104.d	ICSA4	ICSA	1	10/31/24 4:42 AM
B1030105.d	ICSAB4	ICSAB	1	10/31/24 4:48 AM
B1030106.d	N069498-001B	SAMP	1	10/31/24 4:54 AM
B1030107.d	N069498-002B	SAMP	1	10/31/24 5:00 AM
B1030108.d	N069498-003B	SAMP	1	10/31/24 5:06 AM
B1030109.d	N069498-005B	SAMP	1	10/31/24 5:11 AM
B1030110.d	N069498-006B	SAMP	1	10/31/24 5:17 AM
B1030111.d	N069498-007B	SAMP	1	10/31/24 5:23 AM
B1030112.d	N069498-008B	SAMP	1	10/31/24 5:29 AM
B1030113.d	RINSE	ICAL	1	10/31/24 5:35 AM
B1030114.d	CCV9	CCV	1	10/31/24 5:41 AM
B1030115.d	CCB9	CCB	1	10/31/24 5:47 AM
B1030116.d	N069498-001B	SAMP	1	10/31/24 5:53 AM
B1030117.d	N069498-002B	SAMP	1	10/31/24 5:59 AM
B1030118.d	N069498-003B	SAMP	1	10/31/24 6:05 AM
B1030119.d	N069498-005B	SAMP	1	10/31/24 6:10 AM
B1030120.d	N069498-006B	SAMP	1	10/31/24 6:16 AM
B1030121.d	N069498-007B	SAMP	1	10/31/24 6:22 AM
B1030122.d	N069498-008B	SAMP	1	10/31/24 6:28 AM
B1030123.d	RINSE	ICAL	1	10/31/24 6:34 AM
B1030124.d	CCV10	CCV	1	10/31/24 6:40 AM
B1030125.d	CCB10	CCB	1	10/31/24 6:46 AM
B1030126.d	ICSA5	ICSA	1	10/31/24 6:52 AM

INJECTION LOG: 241030B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1030127.d	ICSAB5	ICSAB	1	10/31/24 6:57 AM
B1030128.d	RINSE	ICAL	1	10/31/24 7:03 AM
B1030129.d	RINSE	ICAL	1	10/31/24 7:09 AM
B1030130.d	RINSE	ICAL	1	10/31/24 7:15 AM

SAMPLE PREPARATION LOG



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
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ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: **10/28/2024 9:00:00 AM**

Reviewed/ Date: JRB 11/8/2024

Page: 1 of 1

Prep End Date: **10/28/2024 1:00:00 PM**

Initials/ Date: for

Prep Factor Units Temp. (°C): Location:

Prep Batch **113640** Prep Code: **3010_W_MS_TPK**

Technician: **Diane Jetajobe**

mL / mL **94.9 DB-4-35**

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-113640 50ML LOT# J96406-5447	Aqueous		25	<input type="checkbox"/>	25	1.000		
MB-113640 THERMOMETER ID: DIGESTION 7	Aqueous		25	<input type="checkbox"/>	25	1.000		
N069263-001C	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069263-001C-MS	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069263-001C-MSD	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069263-002C	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069263-003C	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069444-001C	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069444-002C	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069444-003C	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069445-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17140	NITRIC ACID
17147	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-240815C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-240815D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-240815E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-240815F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

INSTRUMENT TUNING CHECK



ASSET LABORATORIES
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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\241029A.b
Acq. Date-Time 2024-10-30 11:32:42
Report Comment --
Instrument Name G8421A SG19193757

[No Gas]

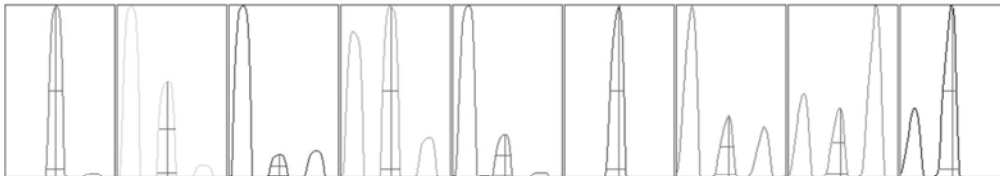
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	14718	147182.52	500.00		1.880	5.000
24	10.00	30724	307240.74	500.00		2.558	5.000
25	10.00	4034	40338.57	500.00		2.808	5.000
26	10.00	4605	46053.25	500.00		3.076	5.000
59	10.00	38189	381893.25	500.00		3.007	5.000
115	10.00	46885	468854.57	500.00		2.623	5.000
206	10.00	10271	102707.30	500.00		1.950	5.000
207	10.00	8019	80190.23	500.00		2.486	5.000
208	10.00	20223	202231.10	500.00		2.308	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.964 %
Doubly Charged 70 / 140 1.064 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	15037.83	8.90	8.90 - 9.10	
24	30065.80	23.90	23.90 - 24.10	
25	3951.19	24.90	24.90 - 25.10	
26	4635.20	25.90	25.90 - 26.10	
59	36696.04	58.95	58.90 - 59.10	
115	44691.17	115.00	114.90 - 115.10	
206	10373.15	205.95	205.90 - 206.10	
207	8481.76	206.95	206.90 - 207.10	
208	21120.23	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.38	0.489	0.900	
24	0.45	0.541	0.900	
25	0.44	0.544	0.900	
26	0.43	0.540	0.900	
59	0.41	0.535	0.900	
115	0.38	0.528	0.900	
206	0.37	0.580	0.900	
207	0.37	0.593	0.900	
208	0.38	0.583	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.07 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.8 mm	Torch V	1.5 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2628 V Pulse HV 1853 V

[H2]

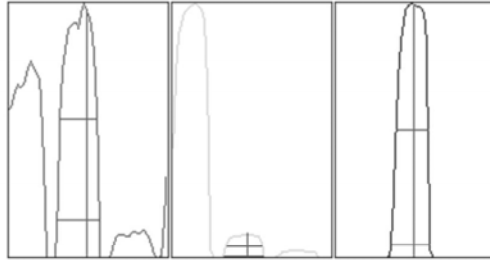
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		231	2309.76			7.634	
59		3389	33894.49			2.902	
115		36414	364137.90			2.148	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.762 %
 Doubly Charged 70 / 140 0.352 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	252.78	26.00	25.90 - 26.10	
59	3554.41	58.95	58.90 - 59.10	
115	37563.66	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.68	0.804	0.900	
59	0.66	0.746	0.900	
115	0.61	0.734	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.07 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	132	Axis Gain	1.0007	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	-0.09		

Hardware Settings

Torch

Torch H	1.8 mm	Torch V	1.5 mm
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EM

Discriminator	4.5 mV	Analog HV	2628 V	Pulse HV	1853 V
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[He]

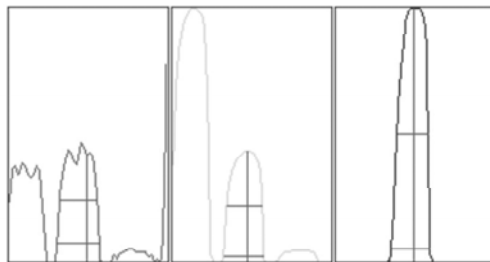
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		101	1011.03			10.946	
59		7478	74782.43			1.944	
115		6284	62841.32			2.413	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.307 %
Doubly Charged	70 / 140 1.135 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	95.26	26.00	25.90 - 26.10	
59	7663.12	58.95	58.90 - 59.10	
115	6364.13	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.69	0.801	0.900	
59	0.66	0.746	0.900	
115	0.59	0.732	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.07 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	132	Axis Gain	1.0007	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.09		

Hardware Settings

Torch

Torch H	1.8 mm	Torch V	1.5 mm
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EM

Discriminator	4.5 mV	Analog HV	2628 V	Pulse HV	1853 V
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INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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INITIAL CALIBRATION SUMMARY: 241030B

Instrument ID: NV00922-ICP8

Analyte	Data File	B1030003.d	B1030005.d	B1030006.d	B1030007.d	B1030008.d	B1030009.d	B1030010.d	B1030011.d	R
	Acq. Date-Time	10/30/2024 06:26 PM	10/30/2024 06:39 PM	10/30/2024 06:45 PM	10/30/2024 06:51 PM	10/30/2024 06:57 PM	10/30/2024 07:03 PM	10/30/2024 07:09 PM	10/30/2024 07:15 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
	Concentration	0.00	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	
45 Sc (ISTD) [2]	CPS	30470	29535	29740.9	29404.8	29631.8	29061.9	28853.8	28188.2	
55 Mn [2]	CPS	96.7	572.2	5038.6	9970.8	20101.1	39587.2	100889.6	203596.1	0.9999

Standard Code
ICAL: 2MSST-240311B
ICAL: 2MSST-240311C
ICAL: 2MWST-240815K
ICV: 2MWST-240815G
LLICV: 2MWST-240815J
IS Mix: 2MWST-240815A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 195057						
Client ID: ICV	Batch ID: R195057	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6279035							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	95.755	0.50	100.0	0	95.8	90	110				

Sample ID LLCCV2	SampType: CCV1	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 195057						
Client ID: ZZZZZ	Batch ID: R195057	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6279038							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	0.552	0.50	0.5000	0	110	80	120				

Sample ID MLCCV1	SampType: CCV	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 195057						
Client ID: CCV	Batch ID: R195057	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6279039							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	18.765	0.50	20.00	0	93.8	90	110				

Sample ID CCV1	SampType: CCV	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 195057						
Client ID: CCV	Batch ID: R195057	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6279048							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	18.604	0.50	20.00	0	93.0	90	110				

Sample ID CCV2	SampType: CCV	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 195057						
Client ID: CCV	Batch ID: R195057	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6279062							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	18.413	0.50	20.00	0	92.1	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W_TPK

Sample ID CCV3	SampType: CCV	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 195057						
Client ID: CCV	Batch ID: R195057	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6279072							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	18.360	0.50	20.00	0	91.8	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 195057						
Client ID: CCV	Batch ID: R195057	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6279077							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	18.731	0.50	20.00	0	93.7	90	110				

Sample ID CCV5	SampType: CCV	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 195057						
Client ID: CCV	Batch ID: R195057	TestNo: EPA 6020	Analysis Date: 10/31/2024	SeqNo: 6279087							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	18.623	0.50	20.00	0	93.1	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 195057						
Client ID: ICB	Batch ID: R195057	TestNo: EPA 6020		Analysis Date: 10/30/2024	SeqNo: 6279036						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.50

Sample ID CCB1	SampType: CCB	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 195057						
Client ID: CCB	Batch ID: R195057	TestNo: EPA 6020		Analysis Date: 10/30/2024	SeqNo: 6279049						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.50

Sample ID CCB2	SampType: CCB	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 195057						
Client ID: CCB	Batch ID: R195057	TestNo: EPA 6020		Analysis Date: 10/30/2024	SeqNo: 6279063						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.50

Sample ID CCB3	SampType: CCB	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 195057						
Client ID: CCB	Batch ID: R195057	TestNo: EPA 6020		Analysis Date: 10/30/2024	SeqNo: 6279073						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.50

Sample ID CCB4	SampType: CCB	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 195057						
Client ID: CCB	Batch ID: R195057	TestNo: EPA 6020		Analysis Date: 10/31/2024	SeqNo: 6279078						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.50

Qualifiers:

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- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W_TPK

Sample ID CCB5	SampType: CCB	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 195057						
Client ID: CCB	Batch ID: R195057	TestNo: EPA 6020		Analysis Date: 10/31/2024	SeqNo: 6279088						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 195057
Client ID: ICSA	Batch ID: R195057	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6279040	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese	ND	0.50			
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Sample ID ICSA1	SampType: ICSA	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 195057
Client ID: ICSA	Batch ID: R195057	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6279041	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese	19.401	0.50	20.00	0	97.0 80 120
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Sample ID ICSA2	SampType: ICSA	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 195057
Client ID: ICSA	Batch ID: R195057	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6279050	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese	ND	0.50			
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Sample ID ICSA2	SampType: ICSA	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 195057
Client ID: ICSA	Batch ID: R195057	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6279051	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese	19.533	0.50	20.00	0	97.7 80 120
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Sample ID ICSA3	SampType: ICSA	TestCode: 6020_W_TPK	Units: µg/L	Prep Date:	RunNo: 195057
Client ID: ICSA	Batch ID: R195057	TestNo: EPA 6020	Analysis Date: 10/31/2024	SeqNo: 6279089	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese	ND	0.50			
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W_TPK

Sample ID	ICSAB3	SampType:	ICSAB	TestCode:	6020_W_TPK			Units:	µg/L		Prep Date:	RunNo: 195057	
Client ID:	ICSAB	Batch ID:	R195057	TestNo:	EPA 6020					Analysis Date:	10/31/2024		SeqNo: 6279090
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese		19.465		0.50	20.00	0	97.3	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

INTERNAL STANDARD SUMMARY



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INTERNAL STANDARD: 241030B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	30470	30470	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	29605.1	30470	97.16	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	29535	30470	96.93	PASS	30-150
Std3-5/50 ppb	ICAL	1	29740.9	30470	97.61	PASS	30-150
Std4-10/100 ppb	ICAL	1	29404.8	30470	96.5	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	29631.8	30470	97.25	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	29061.9	30470	95.38	PASS	30-150
Std7-100/1000 ppb	ICAL	1	28853.8	30470	94.7	PASS	30-150
Std8-200/2000 ppb	ICAL	1	28188.2	30470	92.51	PASS	30-150
ICV	ICV	1	29010.8	30470	95.21	PASS	30-150
ICB	ICB	1	28961.8	30470	95.05	PASS	30-150
LLCCV1	CCV	1	28843.8	30470	94.66	PASS	30-150
LLCCV2	CCV	1	28430.8	30470	93.31	PASS	30-150
MLCCV1	CCV	1	28877.2	30470	94.77	PASS	30-150
ICSA1	ICSA	1	28813.7	30470	94.56	PASS	30-150
ICSAB1	ICSAB	1	28944	30470	94.99	PASS	30-150
CCV1	CCV	1	27996.8	30470	91.88	PASS	30-150
CCB1	CCB	1	27681.8	30470	90.85	PASS	30-150
CCV1	CCV	1	27263.4	30470	89.48	PASS	30-150
CCB1	CCB	1	26863.8	30470	88.16	PASS	30-150
ICSA2	ICSA	1	26250.6	30470	86.15	PASS	30-150
ICSAB2	ICSAB	1	26853.9	30470	88.13	PASS	30-150
CCV2	CCV	1	25085.5	30470	82.33	PASS	30-150
CCB2	CCB	1	25554	30470	83.87	PASS	30-150
CCV3	CCV	1	25244.6	30470	82.85	PASS	30-150
CCB3	CCB	1	25606.3	30470	84.04	PASS	30-150
CCV4	CCV	1	18946.3	30470	62.18	PASS	30-150
CCB4	CCB	1	19428	30470	63.76	PASS	30-150
MB-113640	MBLK	1	19230	30470	63.11	PASS	30-150
LCS-113640	LCS	1	20089.9	30470	65.93	PASS	30-150
N069263-001C	SAMP	10	16861.9	30470	55.34	PASS	30-150
N069263-001C	SAMP	50	19175.5	30470	62.93	PASS	30-150
N069263-001C-PS	PS	10	16767.3	30470	55.03	PASS	30-150
N069263-001C-MS	MS	10	17487	30470	57.39	PASS	30-150
N069263-001C-MSD	MSD	10	16313.5	30470	53.54	PASS	30-150
N069445-001C	SAMP	10	16870.8	30470	55.37	PASS	30-150
CCV5	CCV	1	18781.7	30470	61.64	PASS	30-150
CCB5	CCB	1	19584.8	30470	64.28	PASS	30-150
ICSA3	ICSA	1	19928.6	30470	65.4	PASS	30-150
ICSAB3	ICSAB	1	20028.7	30470	65.73	PASS	30-150
CCV6	CCV	1	18192.2	30470	59.71	PASS	30-150

INTERNAL STANDARD: 241030B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
CCB6	CCB	1	18911.8	30470	62.07	PASS	30-150
CCV7	CCV	1	12252.3	30470	40.21	PASS	30-150
CCB7	CCB	1	12368	30470	40.59	PASS	30-150
CCV8	CCV	1	11810.9	30470	38.76	PASS	30-150
CCB8	CCB	1	11687.5	30470	38.36	PASS	30-150
ICSA4	ICSA	1	11810.9	30470	38.76	PASS	30-150
ICSAB4	ICSAB	1	12098.9	30470	39.71	PASS	30-150
CCV9	CCV	1	10225.4	30470	33.56	PASS	30-150
CCB9	CCB	1	10009.7	30470	32.85	PASS	30-150
CCV10	CCV	1	7748.5	30470	25.43	NR!	30-150
CCB10	CCB	1	7823	30470	25.67	NR!	30-150
ICSA5	ICSA	1	7837.4	30470	25.72	NR!	30-150
ICSAB5	ICSAB	1	8082	30470	26.52	NR!	30-150

SERIAL DILUTION/ POST DIGESTION SPIKE



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ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N069445
Test Method: EPA 6020
Analysis Date: 10/31/2024

Dilution Test Summary


Matrix: Groundwater
Batch No.: 113640

Instrument ID: NV00922-ICP8 (ICPMS-03)
Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069263-001C DT 50x	Manganese	Mn	µg/L	494.5205	PASS	484.2531	2.12%	10

 11/27/2024

Note: NA - Not Applicable

11/27/24 21:56

N069445_6020_113640_DT

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069445
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W_TPK

Sample ID N069263-001C-PS	SampType: PS	TestCode: 6020_W_TPK		Units: µg/L	Prep Date:			RunNo: 195057			
Client ID: ZZZZZZ	Batch ID: 113640	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/31/2024			SeqNo: 6279083				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	1372.314	5.0	1000	484.3	88.8	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
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- (M) Test is modified

MDL STUDY



ASSET LABORATORIES
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Method Detection Limit

Analytical Method: **EPA 6020B**
 Digestion Method: **3010**
 Date of Analysis: **2/15-2/19/2024**
 Digestion Date: **2/15-2/19/2024**
 Instrument Name: **NV0922-ICP8**
 Analysts: **DJ**

Matrix: **Water**
 Unit: **ug/L**

Analyte	1	2	3	4	5	6	7	AMT SPIKED, ppb	SD	MDLs	PQL	MDL
ANTIMONY	0.543	0.521	0.559	0.527	0.573	0.559	0.572	0.50	0.0208	0.0653	0.50	0.0653
ARSENIC	0.102	0.123	0.107	0.116	0.096	0.161	0.115	0.10	0.0212	0.0668	0.10	0.0668
BARIUM	1.103	1.065	1.083	1.081	1.094	1.066	1.060	1.00	0.0159	0.0499	1.00	0.0499
BERYLLIUM	0.533	0.524	0.557	0.541	0.564	0.565	0.502	0.50	0.0233	0.0733	0.50	0.0733
CADMIUM	0.523	0.562	0.529	0.559	0.491	0.544	0.533	0.50	0.0243	0.0763	0.50	0.0763
CHROMIUM	1.015	0.996	1.000	1.100	1.030	1.081	1.052	1.00	0.0402	0.1264	1.00	0.1264
COBALT	0.524	0.523	0.541	0.559	0.528	0.534	0.551	0.50	0.0138	0.0433	0.50	0.0433
COPPER	1.043	1.028	1.026	1.016	1.068	1.098	1.021	1.00	0.0301	0.0947	1.00	0.0947
IRON	11.041	10.660	10.783	11.168	10.989	10.919	10.802	10.00	0.1734	0.5449	10.00	0.5449
LEAD	1.076	1.068	1.091	1.077	1.083	1.040	1.040	1.00	0.0203	0.0637	1.00	0.0637
MANGANESE	0.558	0.529	0.519	0.541	0.532	0.525	0.554	0.50	0.0148	0.0465	0.50	0.0465
MOLYBDENUM	0.564	0.571	0.574	0.537	0.518	0.554	0.550	0.50	0.0200	0.0629	0.50	0.0629
NICKEL	1.025	1.059	1.057	0.947	0.974	1.069	1.036	1.00	0.0465	0.1461	1.00	0.1461
SELENIUM	0.679	0.622	0.547	0.429	0.439	0.552	0.506	0.50	0.0911	0.2863	0.50	0.2863
SILVER	0.525	0.538	0.555	0.545	0.551	0.530	0.518	0.50	0.0140	0.0439	0.50	0.0439
THALLIUM	0.503	0.493	0.491	0.555	0.525	0.504	0.499	0.50	0.0227	0.0713	0.50	0.0713
URANIUM	0.517	0.513	0.528	0.542	0.526	0.533	0.523	0.50	0.0097	0.0306	0.50	0.0306
VANADIUM	1.081	1.076	1.027	1.054	1.069	1.043	1.080	1.00	0.0209	0.0658	1.00	0.0658
ZINC	10.646	10.643	10.661	10.514	10.927	10.516	10.419	10.00	0.1631	0.5126	10.00	0.7534
ALUMINUM	10.305	10.064	10.146	10.336	10.592	10.459	10.670	10.00	0.2224	0.6990	10.00	0.6990



Method Detection Limit (Blanks)

Analyte	1	2	3	4	5	6	7	Mean	SD	MDLb
ANTIMONY	0.011	0.009	0.001	0.001	0.003	0.018	0.012	0.0080	0.0065	0.0285
ARSENIC	0.021	0.013	0.004	0.008	0.000	0.001	0.000	0.0067	0.0079	0.0316
BARIUM	0.000	0.018	0.014	0.000	0.003	0.001	0.003	0.0054	0.0072	0.0280
BERYLLIUM	0.003	0.005	0.007	0.002	0.005	0.014	0.003	0.0057	0.0039	0.0179
CADMIUM	0.000	0.002	0.000	0.000	0.000	0.001	0.000	0.0004	0.0007	0.0026
CHROMIUM	0.000	0.000	0.000	0.000	0.000	0.001	0.004	0.0008	0.0016	0.0059
COBALT	0.000	0.000	0.000	0.000	0.000	0.003	0.001	0.0006	0.0012	0.0042
COPPER	0.000	0.000	0.069	0.000	0.010	0.000	0.000	0.0113	0.0258	0.0924
IRON	0.000	0.000	0.000	0.236	0.187	0.020	0.112	0.0792	0.0996	0.3922
LEAD	0.001	0.000	0.000	0.002	0.001	0.001	0.001	0.0011	0.0009	0.0037
MANGANESE	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.0008	0.0020	0.0071
MOLYBDENUM	0.017	0.013	0.007	0.015	0.004	0.022	0.009	0.0126	0.0062	0.0321
NICKEL	0.000	0.000	0.062	0.000	0.000	0.017	0.013	0.0132	0.0228	0.0849
SELENIUM	0.007	0.027	0.000	0.000	0.019	0.000	0.013	0.0093	0.0107	0.0428
SILVER	0.004	0.002	0.002	0.000	0.000	0.001	0.000	0.0012	0.0014	0.0057
THALLIUM	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.0003	0.0008	0.0028
URANIUM	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.0001	0.0004	0.0013
VANADIUM	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.0003	0.0004	0.0016
ZINC	0.000	0.000	0.257	0.175	0.513	0.000	0.000	0.1350	0.1968	0.7534
ALUMINUM	0.000	0.000	0.106	0.000	0.000	0.170	0.295	0.0816	0.1160	0.4460

Note: Higher value between MDLs and MDLb will be used.



LOD PQL VERIFICATION 2024

Analytical Method: EPA 6020 / 200.8
Digestion Method: EPA 3010A
Date of Analysis: 1/20/2024
Digestion Date: 1/20/2024
Instrument Name: ICPMS3
Analysts: DBJ

Matrix: Water
Units: ug/L

N062388

Analyte	MDLs	LOD	ACTUAL LOD	PQL	ACTUAL PQL	% RECOVERY
ANTIMONY	0.0652	0.025	0.288	0.50	0.552	110
ARSENIC	0.0667	0.050	0.055	0.10	0.107	107
BARIUM	0.0498	0.500	0.547	1.00	1.049	105
BERYLLIUM	0.0732	0.250	0.253	0.50	0.502	100
CADMIUM	0.0763	0.250	0.255	0.50	0.498	100
CHROMIUM	0.1263	0.500	0.536	1.00	1.048	105
COBALT	0.0433	0.250	0.261	0.50	0.518	104
COPPER	0.0946	0.100	0.620	1.00	0.941	94
IRON	0.5444	5.000	5.219	10.00	10.531	105
LEAD	0.0636	0.500	0.513	1.00	1.035	104
MANGANESE	0.0464	0.250	0.261	0.50	0.602	120
MOLYBDENUM	0.0628	0.250	0.275	0.50	0.534	107
NICKEL	0.1460	0.500	0.492	1.00	1.184	118
SELENIUM	0.2861	0.250	0.272	0.50	0.536	107
SILVER	0.0438	0.250	0.277	0.50	0.534	107
THALLIUM	0.0712	0.250	0.264	0.50	0.508	102
URANIUM	0.0306	0.250	0.261	0.50	0.523	105
VANADIUM	0.0657	0.500	0.557	1.00	1.063	106
ZINC	0.5121	5.000	5.394	10.00	10.481	105
ALUMINUM	0.6983	5.000	5.519	10.00	10.395	104

ARCADIS

Project: PG&E Topock - RCM

Project No.: 30211191

ASSET Laboratories Work Order:

N069498

ANALYTICAL and QC RESULTS SAMPLE RECEIVING ITEMS

PRIVILEGED AND CONFIDENTIAL



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November 12, 2024

Laura Madsen
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661
TEL: 1 720 344 3771
FAX:

Workorder No.: N069498

RE: PG&E Topock - RCM, 30211191

Attention: Laura Madsen

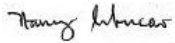
Enclosed are the results for sample(s) received on October 28, 2024 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

The reported results relate only to the samples as received and parameters tested by the laboratory.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,



Nancy Sibucio
Laboratory Director

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CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - RCM, 30211191
Lab Order: N069498

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 218.6:

Dilution was necessary for sample N069498-003 due to matrix interference. Sample was analyzed at lower dilution however matrix spike recovery and/or retention time criteria were not met indicating possible matrix interference. Sample was reported at dilution that meets matrix spike recovery limit and the detected peak within retention time window.

Analytical Comments for EPA 300.0:

Dilution was necessary due to precipitation of samples upon the addition of eluent.



ASSET Laboratories

Date: 12-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - RCM, 30211191
Lab Order: N069498
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N069498-001A	MW-60-125-Q424	Groundwater	10/28/2024 12:54:00 PM	10/28/2024	11/12/2024
N069498-001B	MW-60-125-Q424	Groundwater	10/28/2024 12:54:00 PM	10/28/2024	11/12/2024
N069498-001C	MW-60-125-Q424	Groundwater	10/28/2024 12:54:00 PM	10/28/2024	11/12/2024
N069498-002A	MW-60BR-245-Q424	Groundwater	10/28/2024 1:34:00 PM	10/28/2024	11/12/2024
N069498-002B	MW-60BR-245-Q424	Groundwater	10/28/2024 1:34:00 PM	10/28/2024	11/12/2024
N069498-003A	MW-64BR-Q424	Groundwater	10/28/2024 2:18:00 PM	10/28/2024	11/12/2024
N069498-003B	MW-64BR-Q424	Groundwater	10/28/2024 2:18:00 PM	10/28/2024	11/12/2024
N069498-003C	MW-64BR-Q424	Groundwater	10/28/2024 2:18:00 PM	10/28/2024	11/12/2024
N069498-004A	EB-709-Q424	Groundwater	10/28/2024 3:00:00 PM	10/28/2024	11/12/2024
N069498-005A	MW-62-065-Q424	Groundwater	10/28/2024 12:35:00 PM	10/28/2024	11/12/2024
N069498-005B	MW-62-065-Q424	Groundwater	10/28/2024 12:35:00 PM	10/28/2024	11/12/2024
N069498-005C	MW-62-065-Q424	Groundwater	10/28/2024 12:35:00 PM	10/28/2024	11/12/2024
N069498-006A	MW-63-065-Q424	Groundwater	10/28/2024 1:11:00 PM	10/28/2024	11/12/2024
N069498-006B	MW-63-065-Q424	Groundwater	10/28/2024 1:11:00 PM	10/28/2024	11/12/2024
N069498-006C	MW-63-065-Q424	Groundwater	10/28/2024 1:11:00 PM	10/28/2024	11/12/2024
N069498-007A	MW-35-060-Q424	Groundwater	10/28/2024 2:01:00 PM	10/28/2024	11/12/2024
N069498-007B	MW-35-060-Q424	Groundwater	10/28/2024 2:01:00 PM	10/28/2024	11/12/2024
N069498-007C	MW-35-060-Q424	Groundwater	10/28/2024 2:01:00 PM	10/28/2024	11/12/2024
N069498-008A	MW-35-135-Q424	Groundwater	10/28/2024 2:50:00 PM	10/28/2024	11/12/2024
N069498-008B	MW-35-135-Q424	Groundwater	10/28/2024 2:50:00 PM	10/28/2024	11/12/2024
N069498-008C	MW-35-135-Q424	Groundwater	10/28/2024 2:50:00 PM	10/28/2024	11/12/2024
N069498-009A	EB-710-Q424	Groundwater	10/28/2024 3:30:00 PM	10/28/2024	11/12/2024



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069498
Project: PG&E Topock - RCM, 30211191
Lab ID: N069498-001

Client Sample ID: MW-60-125-Q424
Collection Date: 10/28/2024 12:54:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
				EPA 218.6			
RunID: NV00922-IC7_241030A	QC Batch: R195027	PrepDate: Analyst: RAB					
Hexavalent Chromium	340	1.9	10		µg/L	50	10/30/2024 10:15 AM
DISSOLVED METALS BY ICP-MS							
				EPA 3010A			
				EPA 6020			
RunID: NV00922-ICP8_241030F	QC Batch: 113638	PrepDate: 10/29/2024 Analyst: DJ					
Chromium	360	1.3	10		µg/L	10	10/30/2024 10:42 PM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069498
Project: PG&E Topock - RCM, 30211191
Lab ID: N069498-002

Client Sample ID: MW-60BR-245-Q424
Collection Date: 10/28/2024 1:34:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
				EPA 218.6			
RunID: NV00922-IC7_241029A	QC Batch: R194965			PrepDate:	Analyst: RAB		
Hexavalent Chromium	44	0.19	1.0	µg/L	5	10/29/2024 12:14 PM	
DISSOLVED METALS BY ICP-MS							
				EPA 6020			
RunID: NV00922-ICP8_241029E	QC Batch: 113638			PrepDate: 10/29/2024	Analyst: DJ		
Chromium	45	0.13	1.0	µg/L	1	10/29/2024 10:25 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069498
Project: PG&E Topock - RCM, 30211191
Lab ID: N069498-003

Client Sample ID: MW-64BR-Q424
Collection Date: 10/28/2024 2:18:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
				EPA 218.6			
RunID: NV00922-IC7_241029A	QC Batch: R194965			PrepDate:	Analyst: RAB		
Hexavalent Chromium	ND	0.19	1.0	µg/L	5	10/29/2024 01:30 PM	
DISSOLVED METALS BY ICP-MS							
				EPA 6020			
RunID: NV00922-ICP8_241029E	QC Batch: 113638			PrepDate: 10/29/2024	Analyst: DJ		
Chromium	ND	0.13	1.0	µg/L	1	10/29/2024 10:31 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 12-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069498
Project: PG&E Topock - RCM, 30211191
Lab ID: N069498-004

Client Sample ID: EB-709-Q424
Collection Date: 10/28/2024 3:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241029A	QC Batch: R194965			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	10/29/2024 02:08 PM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069498
Project: PG&E Topock - RCM, 30211191
Lab ID: N069498-005

Client Sample ID: MW-62-065-Q424
Collection Date: 10/28/2024 12:35:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
				EPA 218.6			
RunID: NV00922-IC7_241029A	QC Batch: R194965				PrepDate:	Analyst: RAB	
Hexavalent Chromium	530	3.9	20		µg/L	100	10/29/2024 04:01 PM
DISSOLVED METALS BY ICP-MS							
				EPA 6020			
		EPA 3010A					
RunID: NV00922-ICP8_241030F	QC Batch: 113638				PrepDate: 10/29/2024	Analyst: DJ	
Chromium	530	1.3	10		µg/L	10	10/30/2024 11:18 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL SERVICES

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ANALYTICAL RESULTS

Print Date: 12-Nov-24

CLIENT: ARCADIS U.S., Inc. - California	Client Sample ID: MW-63-065-Q424
Lab Order: N069498	
Project: PG&E Topock - RCM, 30211191	Collection Date: 10/28/2024 1:11:00 PM
Lab ID: N069498-006	Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
				EPA 218.6			
RunID: NV00922-IC7_241029A	QC Batch: R194965			PrepDate:	Analyst: RAB		
Hexavalent Chromium	1.1	0.039	0.20		µg/L	1	10/29/2024 10:59 AM
DISSOLVED METALS BY ICP-MS							
				EPA 6020			
RunID: NV00922-ICP8_241029E	QC Batch: 113638			PrepDate:	10/29/2024	Analyst: DJ	
Chromium	1.5	0.13	1.0		µg/L	1	10/29/2024 10:43 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069498
Project: PG&E Topock - RCM, 30211191
Lab ID: N069498-007

Client Sample ID: MW-35-060-Q424
Collection Date: 10/28/2024 2:01:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
				EPA 218.6			
RunID: NV00922-IC7_241029A	QC Batch: R194965			PrepDate:	Analyst: RAB		
Hexavalent Chromium	15	0.19	1.0	µg/L	5	10/29/2024 12:33 PM	
DISSOLVED METALS BY ICP-MS							
				EPA 6020			
RunID: NV00922-ICP8_241029E	QC Batch: 113638			PrepDate: 10/29/2024	Analyst: DJ		
Chromium	16	0.13	1.0	µg/L	1	10/29/2024 11:06 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069498
Project: PG&E Topock - RCM, 30211191
Lab ID: N069498-008

Client Sample ID: MW-35-135-Q424
Collection Date: 10/28/2024 2:50:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
				EPA 218.6			
RunID: NV00922-IC7_241029A	QC Batch: R194965		PrepDate:		Analyst: RAB		
Hexavalent Chromium	21	0.19	1.0	µg/L	5	10/29/2024 12:52 PM	
DISSOLVED METALS BY ICP-MS							
				EPA 6020			
EPA 3010A							
RunID: NV00922-ICP8_241029E	QC Batch: 113638		PrepDate: 10/29/2024		Analyst: DJ		
Chromium	22	0.13	1.0	µg/L	1	10/29/2024 11:12 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 12-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069498
Project: PG&E Topock - RCM, 30211191
Lab ID: N069498-009

Client Sample ID: EB-710-Q424
Collection Date: 10/28/2024 3:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241029A	QC Batch: R194965			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	10/29/2024 02:27 PM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: MB-R194965	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194965						
Client ID: PBW	Batch ID: R194965	TestNo: EPA 218.6		Analysis Date: 10/29/2024	SeqNo: 6273730						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: LCS-R194965	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194965						
Client ID: LCSW	Batch ID: R194965	TestNo: EPA 218.6		Analysis Date: 10/29/2024	SeqNo: 6273731						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.685	0.20	5.000	0	93.7	90	110				

Sample ID: N069498-006AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194965						
Client ID: ZZZZZ	Batch ID: R194965	TestNo: EPA 218.6		Analysis Date: 10/29/2024	SeqNo: 6273733						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.066	0.20	1.000	1.113	95.3	90	110				

Sample ID: N069498-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194965						
Client ID: ZZZZZ	Batch ID: R194965	TestNo: EPA 218.6		Analysis Date: 10/29/2024	SeqNo: 6273737						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	68.567	1.0	25.00	44.39	96.7	90	110				

Sample ID: N069498-007AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194965						
Client ID: ZZZZZ	Batch ID: R194965	TestNo: EPA 218.6		Analysis Date: 10/29/2024	SeqNo: 6273739						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	38.994	1.0	25.00	15.46	94.2	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N069498-008AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194965						
Client ID: ZZZZZ	Batch ID: R194965	TestNo: EPA 218.6		Analysis Date: 10/29/2024	SeqNo: 6273741						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	45.005	1.0	25.00	21.02	95.9	90	110
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Sample ID: N069498-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194965						
Client ID: ZZZZZ	Batch ID: R194965	TestNo: EPA 218.6		Analysis Date: 10/29/2024	SeqNo: 6273745						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.287	1.0	5.000	0	106	90	110
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Sample ID: N069498-004AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194965						
Client ID: ZZZZZ	Batch ID: R194965	TestNo: EPA 218.6		Analysis Date: 10/29/2024	SeqNo: 6273749						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	0.998	0.20	1.000	0	99.8	90	110
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Sample ID: N069498-009AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194965						
Client ID: ZZZZZ	Batch ID: R194965	TestNo: EPA 218.6		Analysis Date: 10/29/2024	SeqNo: 6273751						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	0.998	0.20	1.000	0.07840	92.0	90	110
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Sample ID: N069498-005ADUP	SampType: DUP	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194965						
Client ID: ZZZZZ	Batch ID: R194965	TestNo: EPA 218.6		Analysis Date: 10/29/2024	SeqNo: 6273755						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	535.180	20				525.4	1.85	20
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N069498-005AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194965						
Client ID: ZZZZZ	Batch ID: R194965	TestNo: EPA 218.6	Analysis Date: 10/29/2024	SeqNo: 6273756							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1014.820	20	500.0	525.4	97.9	90	110				

Sample ID: N069498-005AMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194965						
Client ID: ZZZZZ	Batch ID: R194965	TestNo: EPA 218.6	Analysis Date: 10/29/2024	SeqNo: 6273757							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1009.600	20	500.0	525.4	96.8	90	110	1015	0.516	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: MB-R195027	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: PBW	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277493						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID: LCS-R195027	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: LCSW	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277494						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 4.712 0.20 5.000 0 94.2 90 110

Sample ID: N069498-001ADUP	SampType: DUP	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: ZZZZZ	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277496						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 344.785 10 340.7 1.18 20

Sample ID: N069498-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: ZZZZZ	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277497						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 583.290 10 250.0 340.7 97.0 90 110

Sample ID: N069543-004AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: ZZZZZ	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277501						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 100.424 2.0 50.00 49.31 102 90 110

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N069543-004AMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: ZZZZZZ	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277502						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	99.909	2.0	50.00	49.31	101	90	110	100.4	0.514	20	

Sample ID: N069543-010AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: ZZZZZZ	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277506						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	58.876	1.0	25.00	32.39	106	90	110				

Sample ID: N069543-016AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: ZZZZZZ	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277507						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	35.361	1.0	25.00	9.564	103	90	110				

Sample ID: N069543-012AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: ZZZZZZ	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277510						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	7.458	0.20	5.000	2.046	108	90	110				

Sample ID: N069543-013AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: ZZZZZZ	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277512						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	7.854	0.20	5.000	2.650	104	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N069543-007AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: ZZZZZ	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277513						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.335	0.20	1.000	0.3601	97.5	90	110				

Sample ID: N069543-015AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: ZZZZZ	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277517						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	8.156	0.20	5.000	2.932	104	90	110				

Sample ID: N069543-006AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: ZZZZZ	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277521						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	42.003	1.0	25.00	16.47	102	90	110				

Sample ID: N069543-017AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: ZZZZZ	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277525						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	35.115	1.0	25.00	9.498	102	90	110				

Sample ID: N069542-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: ZZZZZ	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277527						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.174	1.0	5.000	0	103	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N069542-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: ZZZZZ	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277529						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.015	1.0	5.000	0	100	90	110				

Sample ID: N069542-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: ZZZZZ	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277533						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.411	1.0	5.000	0	108	90	110				

Sample ID: N069543-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: ZZZZZ	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277535						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.156	1.0	5.000	0	103	90	110				

Sample ID: N069543-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: ZZZZZ	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277537						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	6.349	1.0	5.000	1.084	105	90	110				

Sample ID: N069543-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: ZZZZZ	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277539						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	6.028	1.0	5.000	1.244	95.7	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N069543-005AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: ZZZZZ	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277541						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	13.243	1.0	5.000	8.224	100	90	110				

Sample ID: N069543-008AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: ZZZZZ	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277545						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	12.809	1.0	5.000	7.971	96.8	90	110				

Sample ID: N069543-009AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: ZZZZZ	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277547						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	12.661	1.0	5.000	7.705	99.1	90	110				

Sample ID: N069543-014AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: ZZZZZ	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277549						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.088	1.0	5.000	0	102	90	110				

Sample ID: N069543-011AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: ZZZZZ	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277550						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.900	0.20	1.000	0.8599	104	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: MB-113638	SampType: MBLK	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 10/29/2024	RunNo: 194971						
Client ID: PBW	Batch ID: 113638	TestNo: EPA 6020	EPA 3010A	Analysis Date: 10/29/2024	SeqNo: 6273901						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: LCS-113638	SampType: LCS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 10/29/2024	RunNo: 194971						
Client ID: LCSW	Batch ID: 113638	TestNo: EPA 6020	EPA 3010A	Analysis Date: 10/29/2024	SeqNo: 6273902						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	10.537	1.0	10.00	0	105	85	115				
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Sample ID: N069263-001B-MS	SampType: MS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 10/29/2024	RunNo: 194971						
Client ID: ZZZZZ	Batch ID: 113638	TestNo: EPA 6020	EPA 3010A	Analysis Date: 10/29/2024	SeqNo: 6273906						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	9.695	1.0	10.00	0.5639	91.3	75	125				
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Sample ID: N069263-001B-MSD	SampType: MSD	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 10/29/2024	RunNo: 194971						
Client ID: ZZZZZ	Batch ID: 113638	TestNo: EPA 6020	EPA 3010A	Analysis Date: 10/29/2024	SeqNo: 6273907						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	9.700	1.0	10.00	0.5639	91.4	75	125	9.695	0.0498	20	
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: N069263-001B-PS	SampType: PS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194971						
Client ID: ZZZZZ	Batch ID: 113638	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/29/2024	SeqNo: 6273905						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.802	1.0	10.00	0.5639	92.4	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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ICP-MS-Metals in Water

Work Order No.: N069498
 Test Method: EPA 6020
 Analysis Date: 10/29/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 113638

Instrument ID: NV00922-ICP8 (ICPMS-03)
 Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Cr & Se. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069263-001B DT 5x	Chromium	Cr	µg/L	0	NA	0.5638568	100.00%	10
N069263-001B DT 5x	Arsenic	As	µg/L	11.44407	PASS	12.59956	9.17%	10
N069263-001B DT 5x	Molybdenum	Mo	µg/L	24.71785	PASS	24.13066	2.43%	10
N069263-001B DT 5x	Selenium	Se	µg/L	0	NA	1.225642	100.00%	10

Note: NA - Not Applicable

11/12/24 13:19



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ANALYTICAL RESULTS

Print Date: 12-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069498
Project: PG&E Topock - RCM, 30211191
Lab ID: N069498-001

Client Sample ID: MW-60-125-Q424
Collection Date: 10/28/2024 12:54:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241029A	QC Batch: R194932	PrepDate:	Analyst: RAB
Nitrate as N	4.2 0.12 0.25	mg/L	5 10/29/2024 10:06 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 12-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069498
Project: PG&E Topock - RCM, 30211191
Lab ID: N069498-003

Client Sample ID: MW-64BR-Q424
Collection Date: 10/28/2024 2:18:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241029A	QC Batch: R194932			PrepDate:		Analyst: RAB
Nitrate as N	ND	0.12	0.25	mg/L	5	10/29/2024 10:22 AM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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ANALYTICAL RESULTS

Print Date: 12-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069498
Project: PG&E Topock - RCM, 30211191
Lab ID: N069498-005

Client Sample ID: MW-62-065-Q424
Collection Date: 10/28/2024 12:35:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241029A	QC Batch: R194932	PrepDate:	Analyst: RAB
Nitrate as N	4.8 0.12 0.25	mg/L	5 10/29/2024 10:38 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 12-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069498
Project: PG&E Topock - RCM, 30211191
Lab ID: N069498-006

Client Sample ID: MW-63-065-Q424
Collection Date: 10/28/2024 1:11:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241029A	QC Batch: R194932			PrepDate:		Analyst: RAB
Nitrate as N	0.99	0.12	0.25	mg/L	5	10/29/2024 10:54 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 12-Nov-24

CLIENT:	ARCADIS U.S., Inc. - California	Client Sample ID:	MW-35-060-Q424
Lab Order:	N069498		
Project:	PG&E Topock - RCM, 30211191	Collection Date:	10/28/2024 2:01:00 PM
Lab ID:	N069498-007	Matrix:	GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241029A	QC Batch: R194932	PrepDate:	Analyst: RAB
Nitrate as N	1.9 0.24	0.50	mg/L 10 10/29/2024 11:10 AM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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ANALYTICAL RESULTS

Print Date: 12-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069498
Project: PG&E Topock - RCM, 30211191
Lab ID: N069498-008

Client Sample ID: MW-35-135-Q424
Collection Date: 10/28/2024 2:50:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241029A	QC Batch: R194932	PrepDate:	Analyst: RAB
Nitrate as N	2.6 0.24	0.50	mg/L 10 10/29/2024 11:26 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: MB-R194932_NO3	SampType: MBLK	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194932						
Client ID: PBW	Batch ID: R194932	TestNo: EPA 300.0		Analysis Date: 10/29/2024	SeqNo: 6271947						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	ND	0.050									

Sample ID: LCS-R194932_NO3	SampType: LCS	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194932						
Client ID: LCSW	Batch ID: R194932	TestNo: EPA 300.0		Analysis Date: 10/29/2024	SeqNo: 6271948						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.323	0.050	1.250	0	106	90	110				

Sample ID: N069498-006CMS	SampType: MS	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194932						
Client ID: ZZZZZ	Batch ID: R194932	TestNo: EPA 300.0		Analysis Date: 10/29/2024	SeqNo: 6271955						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	7.401	0.25	6.250	0.9855	103	80	120				

Sample ID: N069498-006CMSD	SampType: MSD	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194932						
Client ID: ZZZZZ	Batch ID: R194932	TestNo: EPA 300.0		Analysis Date: 10/29/2024	SeqNo: 6271956						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	7.347	0.25	6.250	0.9855	102	80	120	7.400	0.732	20	

Sample ID: N069498-001CDUP	SampType: DUP	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194932						
Client ID: ZZZZZ	Batch ID: R194932	TestNo: EPA 300.0		Analysis Date: 10/29/2024	SeqNo: 6271959						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	4.114	0.25						4.214	2.40	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 12-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069498
Project: PG&E Topock - RCM, 30211191
Lab ID: N069498-007

Client Sample ID: MW-35-060-Q424
Collection Date: 10/28/2024 2:01:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP4_241030D	QC Batch: 113723			PrepDate:	10/30/2024	Analyst: DJ	
Iron	ND	5.8	20		µg/L	1	10/30/2024 04:31 PM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID: MB-113723	SampType: MBLK	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 10/30/2024	RunNo: 195005
Client ID: PBW	Batch ID: 113723	TestNo: EPA 6010B EPA 3010A		Analysis Date: 10/30/2024	SeqNo: 6276178
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	ND	20			

Sample ID: LCS-113723	SampType: LCS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 10/30/2024	RunNo: 195005
Client ID: LCSW	Batch ID: 113723	TestNo: EPA 6010B EPA 3010A		Analysis Date: 10/30/2024	SeqNo: 6276179
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	112.430	20	100.0	0	112 85 115

Sample ID: N069445-001B-MS	SampType: MS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 10/30/2024	RunNo: 195005
Client ID: ZZZZZ	Batch ID: 113723	TestNo: EPA 6010B EPA 3010A		Analysis Date: 10/30/2024	SeqNo: 6276183
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	214.800	20	100.0	91.98	123 75 125

Sample ID: N069445-001B-MSD	SampType: MSD	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 10/30/2024	RunNo: 195005
Client ID: ZZZZZ	Batch ID: 113723	TestNo: EPA 6010B EPA 3010A		Analysis Date: 10/30/2024	SeqNo: 6276184
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Iron	204.750	20	100.0	91.98	113 75 125 214.8 4.79 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID: N069445-001B-PS	SampType: PS	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005						
Client ID: ZZZZZ	Batch ID: 113723	TestNo: EPA 6010B EPA 3010A		Analysis Date: 10/30/2024	SeqNo: 6276182						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	209.600	20	100.0	91.98	118	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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ICP-Metals in Water

Work Order No.: N069498
Test Method: EPA 6010B
Analysis Date: 10/30/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 113723

Instrument ID: NV00922-ICP4
Instrument Description: Agilent 5800VDV

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Fe. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069445-001B DT 5x	Iron	Fe	µg/L	86.2	NA	91.98	6.28%	10

Note: NA - Not Applicable

11/12/24 13:26

N069498_6010B_113723_DT

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 12-Nov-24

CLIENT: ARCADIS U.S., Inc. - California	Client Sample ID: MW-60-125-Q424
Lab Order: N069498	
Project: PG&E Topock - RCM, 30211191	Collection Date: 10/28/2024 12:54:00 PM
Lab ID: N069498-001	Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A		EPA 6020		PrepDate:	10/29/2024	Analyst:	DJ
RunID: NV00922-ICP8_241029F	QC Batch: 113638						
Arsenic	1.7	0.067	0.10		µg/L	1	10/29/2024 10:19 PM
Manganese	8.2	0.046	0.50		µg/L	1	10/29/2024 10:19 PM
Molybdenum	16	0.063	0.50		µg/L	1	10/29/2024 10:19 PM
Selenium	5.9	0.29	0.50		µg/L	1	10/29/2024 10:19 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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ANALYTICAL RESULTS

Print Date: 12-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069498
Project: PG&E Topock - RCM, 30211191
Lab ID: N069498-002

Client Sample ID: MW-60BR-245-Q424
Collection Date: 10/28/2024 1:34:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241030D	QC Batch: 113638			PrepDate: 10/29/2024		Analyst: DJ
Arsenic	2.5	0.067	0.10	µg/L	1	10/30/2024 10:48 PM
Manganese	0.62	0.046	0.50	µg/L	1	10/29/2024 10:25 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 12-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069498
Project: PG&E Topock - RCM, 30211191
Lab ID: N069498-003

Client Sample ID: MW-64BR-Q424
Collection Date: 10/28/2024 2:18:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241101C	QC Batch:	113638	PrepDate:	10/29/2024	Analyst:	DJ
Arsenic	0.54	0.067	0.10	µg/L	1	11/1/2024 11:31 PM	
Manganese	1400	0.46	5.0	µg/L	10	10/30/2024 11:06 PM	
Molybdenum	29	0.063	0.50	µg/L	1	10/29/2024 10:31 PM	
Selenium	ND	0.29	0.50	µg/L	1	10/29/2024 10:31 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 12-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069498
Project: PG&E Topock - RCM, 30211191
Lab ID: N069498-005

Client Sample ID: MW-62-065-Q424
Collection Date: 10/28/2024 12:35:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241030D	QC Batch:	113638	PrepDate:	10/29/2024	Analyst:	DJ
Arsenic	1.7	0.067	0.10	µg/L	1	10/30/2024	11:12 PM
Manganese	5.5	0.046	0.50	µg/L	1	10/29/2024	10:37 PM
Molybdenum	11	0.063	0.50	µg/L	1	10/29/2024	10:37 PM
Selenium	4.1	0.29	0.50	µg/L	1	10/29/2024	10:37 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 12-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069498
Project: PG&E Topock - RCM, 30211191
Lab ID: N069498-006

Client Sample ID: MW-63-065-Q424
Collection Date: 10/28/2024 1:11:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241101C	QC Batch:	113638	PrepDate:	10/29/2024	Analyst:	DJ
Arsenic	1.4	0.067	0.10	µg/L	1	11/1/2024 11:37 PM	
Manganese	6.0	0.046	0.50	µg/L	1	10/29/2024 10:43 PM	
Molybdenum	16	0.063	0.50	µg/L	1	10/29/2024 10:43 PM	
Selenium	0.80	0.29	0.50	µg/L	1	10/29/2024 10:43 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 12-Nov-24

CLIENT:	ARCADIS U.S., Inc. - California	Client Sample ID:	MW-35-060-Q424
Lab Order:	N069498		
Project:	PG&E Topock - RCM, 30211191	Collection Date:	10/28/2024 2:01:00 PM
Lab ID:	N069498-007	Matrix:	GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241029F	QC Batch: 113638			PrepDate: 10/29/2024		Analyst: DJ
Molybdenum	8.9	0.063	0.50	µg/L	1	10/29/2024 11:06 PM
Selenium	1.1	0.29	0.50	µg/L	1	10/30/2024 11:41 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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ANALYTICAL RESULTS

Print Date: 12-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069498
Project: PG&E Topock - RCM, 30211191
Lab ID: N069498-008

Client Sample ID: MW-35-135-Q424
Collection Date: 10/28/2024 2:50:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241029F	QC Batch: 113638			PrepDate: 10/29/2024		Analyst: DJ
Molybdenum	18	0.063	0.50	µg/L	1	10/29/2024 11:12 PM
Selenium	1.0	0.29	0.50	µg/L	1	11/1/2024 11:43 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: MB-113638	SampType: MBLK	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/29/2024	RunNo: 194972
Client ID: PBW	Batch ID: 113638	TestNo: EPA 6020	EPA 3010A	Analysis Date: 10/29/2024	SeqNo: 6274044
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Manganese	ND	0.50			
Molybdenum	ND	0.50			
Selenium	ND	0.50			

Sample ID: LCS-113638	SampType: LCS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/29/2024	RunNo: 194972
Client ID: LCSW	Batch ID: 113638	TestNo: EPA 6020	EPA 3010A	Analysis Date: 10/29/2024	SeqNo: 6274045
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	9.804	0.10	10.00	0	98.0 85 115
Manganese	96.234	0.50	100.0	0	96.2 85 115
Molybdenum	9.578	0.50	10.00	0	95.8 85 115
Selenium	9.554	0.50	10.00	0	95.5 85 115

Sample ID: N069263-001B-MS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/29/2024	RunNo: 194972
Client ID: ZZZZZ	Batch ID: 113638	TestNo: EPA 6020	EPA 3010A	Analysis Date: 10/29/2024	SeqNo: 6274049
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	22.443	0.10	10.00	12.60	98.4 75 125
Molybdenum	33.990	0.50	10.00	24.13	98.6 75 125

Sample ID: N069263-001B-MSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/29/2024	RunNo: 194972
Client ID: ZZZZZ	Batch ID: 113638	TestNo: EPA 6020	EPA 3010A	Analysis Date: 10/29/2024	SeqNo: 6274050
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	21.162	0.10	10.00	12.60	85.6 75 125 22.44 5.87 20
Molybdenum	33.516	0.50	10.00	24.13	93.9 75 125 33.99 1.41 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: N069263-001B-MS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/29/2024	RunNo: 195051						
Client ID: ZZZZZZ	Batch ID: 113638	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/30/2024	SeqNo: 6278640						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	552.697	5.0	100.0	460.6	92.1	75	125				

Sample ID: N069263-001B-MSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/29/2024	RunNo: 195051						
Client ID: ZZZZZZ	Batch ID: 113638	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/30/2024	SeqNo: 6278641						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	570.970	5.0	100.0	460.6	110	75	125	552.7	3.25	20	

Sample ID: N069263-001B-MS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/29/2024	RunNo: 194972						
Client ID: ZZZZZZ	Batch ID: 113638	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/29/2024	SeqNo: 6306090						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	10.376	0.50	10.00	1.226	91.5	75	125				

Sample ID: N069263-001B-MSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/29/2024	RunNo: 194972						
Client ID: ZZZZZZ	Batch ID: 113638	TestNo: EPA 6020 EPA 3010A		Analysis Date: 10/29/2024	SeqNo: 6306091						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	10.473	0.50	10.00	1.226	92.5	75	125	10.38	0.932	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: N069263-001B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: ZZZZZ	Batch ID: 113638	TestNo: EPA 6020	EPA 3010A	Analysis Date: 10/29/2024	SeqNo: 6274048						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	21.373	0.10	10.00	12.60	87.7	80	120				
Molybdenum	34.223	0.50	10.00	24.13	101	80	120				

Sample ID: N069263-001B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: ZZZZZ	Batch ID: 113638	TestNo: EPA 6020	EPA 3010A	Analysis Date: 10/30/2024	SeqNo: 6278639						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	1352.698	5.0	1000	460.6	89.2	80	120				

Sample ID: N069263-001B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: ZZZZZ	Batch ID: 113638	TestNo: EPA 6020	EPA 3010A	Analysis Date: 10/29/2024	SeqNo: 6306089						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	10.407	0.50	10.00	1.226	91.8	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N069498
 Test Method: EPA 6020
 Analysis Date: 10/29/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 113638

Instrument ID: NV00922-ICP8 (ICPMS-03)
 Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Cr & Se. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069263-001B DT 5x	Chromium	Cr	µg/L	0	NA	0.5638568	100.00%	10
N069263-001B DT 5x	Arsenic	As	µg/L	11.44407	PASS	12.59956	9.17%	10
N069263-001B DT 5x	Molybdenum	Mo	µg/L	24.71785	PASS	24.13066	2.43%	10
N069263-001B DT 5x	Selenium	Se	µg/L	0	NA	1.225642	100.00%	10

Note: NA - Not Applicable

11/12/24 13:19



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ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N069498
Test Method: EPA 6020
Analysis Date: 10/30/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 113638

Instrument ID: NV00922-ICP8 (ICPMS-03)
Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069263-001B DT 50x	Manganese	Mn	µg/L	443.7973	PASS	460.5615	3.64%	10

Note: NA - Not Applicable

11/12/24 13:24

N069498_6020_113638_DT

SAMPLE RECEIVING ITEMS



ASSET LABORATORIES
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Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On: 10/28/2024 Workorder: N069498
 Rep sample Temp (Deg C): 1.8 IR Gun ID: 4
 Temp Blank: Yes No
 Carrier name: ASSET
 Last 4 digits of Tracking No.: NA Packing Material Used: None
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

- | | | | |
|---|---|-----------------------------|---|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 14. Water - pH acceptable upon receipt?
Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 15. Did the bottle labels indicate correct preservatives used? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 16. Were there Non-Conformance issues at login?
Was Client notified? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

Comments:

Checklist Completed By: EF *Efanegof* 10/29/2024

Reviewed By: for: *for: [Signature]*
MBC11/05/2024

ASSET Laboratories

WORK ORDER Summary

29-Oct-24

WorkOrder: N069498

Client ID: ARCUS02

Project: PG&E Topock - RCM, 30211191

QC Level: Level IV

Date Received: 10/28/2024 6:31 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N069498-001A	MW-60-125-Q424	10/28/2024 12:54:00 PM	11/12/2024	Groundwater	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069498-001B			11/12/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/12/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/12/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069498-001C			11/12/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069498-002A	MW-60BR-245-Q424	10/28/2024 1:34:00 PM	11/12/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069498-002B			11/12/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/12/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/12/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069498-003A	MW-64BR-Q424	10/28/2024 2:18:00 PM	11/12/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069498-003B			11/12/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/12/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/12/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069498-003C			11/12/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069498-004A	EB-709-Q424	10/28/2024 3:00:00 PM	11/12/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069498-005A	MW-62-065-Q424	10/28/2024 12:35:00 PM	11/12/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069498-005B			11/12/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/12/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/12/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069498-005C			11/12/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069498-006A	MW-63-065-Q424	10/28/2024 1:11:00 PM	11/12/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069498-006B			11/12/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

29-Oct-24

WorkOrder: N069498

Client ID: ARCUS02

Project: PG&E Topock - RCM, 30211191

QC Level: Level IV

Date Received: 10/28/2024 6:31 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N069498-006B	MW-63-065-Q424	10/28/2024 1:11:00 PM	11/12/2024	Groundwater	EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/12/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069498-006C			11/12/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069498-007A	MW-35-060-Q424	10/28/2024 2:01:00 PM	11/12/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069498-007B			11/12/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/12/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/12/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/12/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/12/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069498-007C			11/12/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069498-008A	MW-35-135-Q424	10/28/2024 2:50:00 PM	11/12/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069498-008B			11/12/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/12/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/12/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069498-008C			11/12/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069498-009A	EB-710-Q424	10/28/2024 3:30:00 PM	11/12/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069498-010A	FOLDER	11/12/2024	11/12/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			11/12/2024		Folder	Level IV Report	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			11/12/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

List of Analysts

ASSET Laboratories Work Order: N069498

NAME	TEST METHOD
Ria Abes	EPA 218.6, EPA 300.0
Diane Jetajobe	EPA 6010B_Dissolved, EPA 6020_Dissolved



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EPA 218.6



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IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
 REV 2.0
 011416

QC Batch Number: R194965
 ASSET #: N069498

Instrument ID: NV00922-IC7
 Analyst: RBA
 Date Analyzed: 10/29/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria? (r = 0.995, r = 0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)	X			X		
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?	X			X		
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?	X			X		
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)	X			X		
14. For Hinkley DOM samples, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?	X			X		
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?	X			X		
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)	X			X		
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments: **Dilution was necessary for sample N069498-003 due to matrix interference**

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA
 2nd Level Reviewer M Rocha 11/11/2024

Date: _____
 Date: _____



IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
 REV 2.0
 011416

QC Batch Number: R195027
 ASSET #: N069498

Instrument ID: NV00922-IC7
 Analyst: RBA
 Date Analyzed: 10/30/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria? (r = 0.995, r = 0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)	X			X		
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?	X			X		
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?	X			X		
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)	X			X		
14. For Hinkley DOM samples, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?	X			X		X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)	X			X		
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA
 2nd Level Reviewer d/Recha 11/11/2024

Date: _____
 Date: _____

SAMPLE CALCULATION



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Sample Calculation

METHOD: EPA 218.6
TEST NAME: HEXAVALENT CHROMIUM BY IC
MATRIX: Groundwater

FORMULA:

Calculate the Hexavalent Chromium concentration, in $\mu\text{g/L}$, in the original sample as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = A * \text{DF}$$

where:

A = $\mu\text{g/L}$, IC Cr+6 calculated concentration
DF = dilution factor

For Sample **N069498-002A** , the concentration in $\mu\text{g/L}$ is calculated as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = 8.8777 * 5$$

$$\text{Cr}^{+6}, \mu\text{g/L} = 44.3885$$

Reporting results in two significant figures,

$$\text{Cr}^{+6}, \mu\text{g/L} = 44$$

Reviewed by:

d/Rocha 11/26/2024

ANALYSIS RUN LOG



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INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	ICV	ICV	1	Hexavalent Chromium	10/28/24 10:49 AM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/28/24 10:59 AM	Reported
11	ICB	ICB	1	Hexavalent Chromium	10/28/24 11:08 AM	Reported
12	MB-R194895	MBLK	1	Hexavalent Chromium	10/28/24 11:17 AM	Reported
13	LCS-R194895	LCS	1	Hexavalent Chromium	10/28/24 11:27 AM	Reported
14	N069445-001A	SAMP	1	Hexavalent Chromium	10/28/24 11:36 AM	Reported
15	N069445-001AMS	MS	1	Hexavalent Chromium	10/28/24 11:46 AM	Reported
16	N069445-001AMSD	MSD	1	Hexavalent Chromium	10/28/24 11:55 AM	Reported
17	N069445-001ADUP	DUP	1	Hexavalent Chromium	10/28/24 12:05 PM	Reported
18	N069453-001A	SAMP	1	Hexavalent Chromium	10/28/24 12:14 PM	Reported
19	N069453-002A	SAMP	1	Hexavalent Chromium	10/28/24 12:24 PM	Reported
20	N069453-003A	SAMP	1	Hexavalent Chromium	10/28/24 12:33 PM	Reported
21	N069453-004A	SAMP	1	Hexavalent Chromium	10/28/24 12:43 PM	Reported
22	CCV-1	CCV1	1	Hexavalent Chromium	10/28/24 12:52 PM	Reported
23	CCB-1	CCB	1	Hexavalent Chromium	10/28/24 1:02 PM	Reported
24	N069444-001A	SAMP	1	Hexavalent Chromium	10/28/24 1:11 PM	Reported
25	N069444-001AMS	MS	1	Hexavalent Chromium	10/28/24 1:20 PM	Reported
26	N069444-002A	SAMP	1	Hexavalent Chromium	10/28/24 1:30 PM	Reported
27	N069444-002AMS	MS	1	Hexavalent Chromium	10/28/24 1:39 PM	Reported
28	N069444-003A	SAMP	1	Hexavalent Chromium	10/28/24 1:49 PM	Not Reported
29	N069444-003AMS	MS	1	Hexavalent Chromium	10/28/24 1:58 PM	Not Reported
30	N069444-001A	SAMP	5	Hexavalent Chromium	10/28/24 2:08 PM	Not Reported
31	N069444-001AMS	MS	5	Hexavalent Chromium	10/28/24 2:17 PM	Not Reported
32	N069444-002A	SAMP	5	Hexavalent Chromium	10/28/24 2:27 PM	Not Reported
33	N069444-002AMS	MS	5	Hexavalent Chromium	10/28/24 2:36 PM	Not Reported
34	CCV-2	CCV	1	Hexavalent Chromium	10/28/24 2:46 PM	Reported
35	CCB-2	CCB	1	Hexavalent Chromium	10/28/24 2:55 PM	Reported
36	N069444-003A	SAMP	5	Hexavalent Chromium	10/28/24 3:04 PM	Reported
37	N069444-003AMS	MS	5	Hexavalent Chromium	10/28/24 3:14 PM	Reported
38	N069233-009A	SAMP	5	Hexavalent Chromium	10/28/24 3:23 PM	Not Reported
39	N069233-009AMS	MS	5	Hexavalent Chromium	10/28/24 3:33 PM	Not Reported
40	N069233-015A	SAMP	5	Hexavalent Chromium	10/28/24 3:42 PM	Not Reported
41	N069233-015AMS	MS	5	Hexavalent Chromium	10/28/24 3:52 PM	Not Reported
42	CCV-3	CCV1	1	Hexavalent Chromium	10/28/24 4:01 PM	Reported

INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	CCB-3	CCB	1	Hexavalent Chromium	10/28/24 4:11 PM	Reported
44	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 4:20 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241028A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	28/Oct/24 16:50:54
No. of Injections:	47	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	ICV,ICV,1,	9	1000	Unknown		10/28/2024 10:49	Finished	ICV @5ppb, IWST-240729B
10	PQL @0.2ppb,CCV2,	10	1000	Unknown		10/28/2024 10:59	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		10/28/2024 11:08	Finished	ICB R240926A
12	MB-H2O,MBLK,1,	12	1000	Unknown		10/28/2024 11:17	Finished	MB R240926A
13	LCS-H2O,LCS,1,	13	1000	Unknown		10/28/2024 11:27	Finished	LCS @5ppb, IWST-240729B
14	N069445-001A,SAMP	14	1000	Unknown		10/28/2024 11:36	Finished	SAMP,10 mL
15	N069445-001AMS,MS	15	1000	Unknown		10/28/2024 11:46	Finished	MS (1ppb), IWST-240729B,10r
16	N069445-001AMSD,N	16	1000	Unknown		10/28/2024 11:55	Finished	MSD (1ppb), IWST-240729B,1
17	N069445-001ADUP,D	17	1000	Unknown		10/28/2024 12:05	Finished	DUP,10 mL
18	N069453-001A,SAMP	18	1000	Unknown		10/28/2024 12:14	Finished	SAMP,10 mL
19	N069453-002A,SAMP	19	1000	Unknown		10/28/2024 12:24	Finished	SAMP,10 mL
20	N069453-003A,SAMP	20	1000	Unknown		10/28/2024 12:33	Finished	SAMP,10 mL
21	N069453-004A,SAMP	21	1000	Unknown		10/28/2024 12:43	Finished	SAMP,10 mL
22	CCV-1,CCV1,1,	22	1000	Unknown		10/28/2024 12:52	Finished	CCV @10ppb, IWST-240729A
23	CCB-1,CCB,1,	23	1000	Unknown		10/28/2024 13:02	Finished	CCB R240926A
24	N069444-001A,SAMP	24	1000	Unknown		10/28/2024 13:11	Finished	SAMP,10 mL
25	N069444-001AMS,MS	25	1000	Unknown		10/28/2024 13:20	Finished	MS (1ppb), IWST-240729B,10r
26	N069444-002A,SAMP	26	1000	Unknown		10/28/2024 13:30	Finished	SAMP,10 mL
27	N069444-002AMS,MS	27	1000	Unknown		10/28/2024 13:39	Finished	MS (1ppb), IWST-240729B,10r
28	N069444-003A,SAMP	28	1000	Unknown		10/28/2024 13:49	Finished	SAMP,10 mL
29	N069444-003AMS,MS	29	1000	Unknown		10/28/2024 13:58	Finished	MS (1ppb), IWST-240729B,10r
30	N069444-001A,SAMP	30	1000	Unknown		10/28/2024 14:08	Finished	SAMP,2>10 mL
31	N069444-001AMS,MS	31	1000	Unknown		10/28/2024 14:17	Finished	MS (1ppb), IWST-240729B,2>
32	N069444-002A,SAMP	32	1000	Unknown		10/28/2024 14:27	Finished	SAMP,2>10 mL
33	N069444-002AMS,MS	33	1000	Unknown		10/28/2024 14:36	Finished	MS (1ppb), IWST-240729B,2>
34	CCV-2,CCV,1,	34	1000	Unknown		10/28/2024 14:46	Finished	CCV @5ppb, IWST-240729A
35	CCB-2,CCB,1,	35	1000	Unknown		10/28/2024 14:55	Finished	CCB R240926A
36	N069444-003A,SAMP	36	1000	Unknown		10/28/2024 15:04	Finished	SAMP,2>10 mL
37	N069444-003AMS,MS	37	1000	Unknown		10/28/2024 15:14	Finished	MS (1ppb), IWST-240729B,2>
38	N069233-009A,SAMP	38	1000	Unknown		10/28/2024 15:23	Finished	SAMP,2>10 mL
39	N069233-009AMS,MS	39	1000	Unknown		10/28/2024 15:33	Finished	MS (1ppb), IWST-240729B,2>
40	N069233-015A,SAMP	40	1000	Unknown		10/28/2024 15:42	Finished	SAMP,2>10 mL
41	N069233-015AMS,MS	41	1000	Unknown		10/28/2024 15:52	Finished	MS (1ppb), IWST-240729B,2>
42	CCV-3,CCV1,1,	42	1000	Unknown		10/28/2024 16:01	Finished	CCV @10ppb, IWST-240729A
43	CCB-3,CCB,1,	43	1000	Unknown		10/28/2024 16:11	Finished	CCB R240926A
44	BLANK	44	1000	Unknown		10/28/2024 16:20	Finished	BLANK
45	SHUTDOWN	45	1000	Unknown		10/28/2024 16:30	Finished	
46	Eluent: R241025A	46	1000	Unknown		n.a.	Finished	
47	PCR: R241025B	47	1000	Unknown		n.a.	Finished	

INJECTION LOG: 241029A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	10/29/24 9:26 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	10/29/24 9:38 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/29/24 9:48 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	10/29/24 9:57 AM	Reported
13	MB-R194965	MBLK	1	Hexavalent Chromium	10/29/24 10:07 AM	Reported
14	LCS-R194965	LCS	1	Hexavalent Chromium	10/29/24 10:16 AM	Reported
15	N069498-005A	SAMP	100	Hexavalent Chromium	10/29/24 10:37 AM	Not Reported
16	N069498-005ADUP	DUP	100	Hexavalent Chromium	10/29/24 10:49 AM	Not Reported
17	N069498-006A	SAMP	1	Hexavalent Chromium	10/29/24 10:59 AM	Reported
18	N069498-006AMS	MS	1	Hexavalent Chromium	10/29/24 11:08 AM	Reported
19	N069498-001A	SAMP	5	Hexavalent Chromium	10/29/24 11:17 AM	Not Reported
20	N069498-001AMS	MS	5	Hexavalent Chromium	10/29/24 11:27 AM	Not Reported
21	N069498-005AMS	MS	100	Hexavalent Chromium	10/29/24 11:36 AM	Not Reported
22	N069498-005AMSD	MSD	100	Hexavalent Chromium	10/29/24 11:46 AM	Not Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	10/29/24 11:55 AM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	10/29/24 12:05 PM	Reported
25	N069498-002A	SAMP	5	Hexavalent Chromium	10/29/24 12:14 PM	Reported
26	N069498-002AMS	MS	5	Hexavalent Chromium	10/29/24 12:24 PM	Reported
27	N069498-007A	SAMP	5	Hexavalent Chromium	10/29/24 12:33 PM	Reported
28	N069498-007AMS	MS	5	Hexavalent Chromium	10/29/24 12:43 PM	Reported
29	N069498-008A	SAMP	5	Hexavalent Chromium	10/29/24 12:52 PM	Reported
30	N069498-008AMS	MS	5	Hexavalent Chromium	10/29/24 1:01 PM	Reported
31	N069509-001A	SAMP	1	Hexavalent Chromium	10/29/24 1:11 PM	Reported
32	N069510-001B	SAMP	1	Hexavalent Chromium	10/29/24 1:20 PM	Reported
33	N069498-003A	SAMP	5	Hexavalent Chromium	10/29/24 1:30 PM	Reported
34	N069498-003AMS	MS	5	Hexavalent Chromium	10/29/24 1:39 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	10/29/24 1:49 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	10/29/24 1:58 PM	Reported
37	N069498-004A	SAMP	1	Hexavalent Chromium	10/29/24 2:08 PM	Reported
38	N069498-004AMS	MS	1	Hexavalent Chromium	10/29/24 2:17 PM	Reported
39	N069498-009A	SAMP	1	Hexavalent Chromium	10/29/24 2:27 PM	Reported
40	N069498-009AMS	MS	1	Hexavalent Chromium	10/29/24 2:36 PM	Reported
41	N069498-003A	SAMP	1	Hexavalent Chromium	10/29/24 2:46 PM	Not Reported
42	N069498-003AMS	MS	1	Hexavalent Chromium	10/29/24 2:55 PM	Not Reported

INJECTION LOG: 241029A**Instrument ID: NV00922-IC7**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069498-006A	SAMP	5	Hexavalent Chromium	10/29/24 3:04 PM	Not Reported
44	N069498-006AMS	MS	5	Hexavalent Chromium	10/29/24 3:14 PM	Not Reported
45	N069498-001A	SAMP	20	Hexavalent Chromium	10/29/24 3:23 PM	Not Reported
46	N069498-001AMS	MS	20	Hexavalent Chromium	10/29/24 3:33 PM	Not Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	10/29/24 3:42 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	10/29/24 3:52 PM	Reported
49	N069498-005A	SAMP	100	Hexavalent Chromium	10/29/24 4:01 PM	Reported
50	N069498-005ADUP	DUP	100	Hexavalent Chromium	10/29/24 4:11 PM	Reported
51	N069498-005AMS	MS	100	Hexavalent Chromium	10/29/24 4:20 PM	Reported
52	N069498-005AMSD	MSD	100	Hexavalent Chromium	10/29/24 4:30 PM	Reported
53	CCV-5	CCV	1	Hexavalent Chromium	10/29/24 4:39 PM	Reported
54	CCB-5	CCB	1	Hexavalent Chromium	10/29/24 4:49 PM	Reported
55	BLANK	BLANK	1	Hexavalent Chromium	10/29/24 4:58 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241029A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	29/Oct/24 17:28:46
No. of Injections:	58	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	BLANK	1	1000	Unknown		10/29/2024 09:26	Finished	BLANK
10	CCV-1.CCV,1,	2	1000	Unknown		10/29/2024 09:38	Finished	CCV @5ppb, IWST-240729A
11	PQL@0.2ppb,CCV2,	3	1000	Unknown		10/29/2024 09:48	Finished	PQL @ 0.2ppb
12	CCB-1.CCB,1,	4	1000	Unknown		10/29/2024 09:57	Finished	CCB R241001A
13	MB-H2O,MBLK,1,	5	1000	Unknown		10/29/2024 10:07	Finished	MB R241001A
14	LCS-H2O,LCS,1,	6	1000	Unknown		10/29/2024 10:16	Finished	LCS @5ppb, IWST-240729B
15	N069498-005A,SAMP	1	1000	Unknown		10/29/2024 10:37	Finished	SAMP,0.1>10 mL
16	N069498-005ADUP,D	2	1000	Unknown		10/29/2024 10:49	Finished	DUP,0.1>10 mL
17	N069498-006A,SAMP	3	1000	Unknown		10/29/2024 10:59	Finished	SAMP,10 mL
18	N069498-006AMS,MS	4	1000	Unknown		10/29/2024 11:08	Finished	MS (1ppb), IWST-240729B,10r
19	N069498-001A,SAMP	5	1000	Unknown		10/29/2024 11:17	Finished	SAMP,2>10 mL
20	N069498-001AMS,MS	6	1000	Unknown		10/29/2024 11:27	Finished	MS (5ppb), IWST-240729B,0.1
21	N069498-005AMS,MS	7	1000	Unknown		10/29/2024 11:36	Finished	MSD (5ppb), IWST-240729B,0
22	N069498-005AMSD,N	8	1000	Unknown		10/29/2024 11:46	Finished	DUP,10 mL
23	CCV-2.CCV1,1,	9	1000	Unknown		10/29/2024 11:55	Finished	CCV @10ppb, IWST-240729A
24	CCB-2.CCB,1,	10	1000	Unknown		10/29/2024 12:05	Finished	CCB R241001A
25	N069498-002A,SAMP	11	1000	Unknown		10/29/2024 12:14	Finished	SAMP,2>10 mL
26	N069498-002AMS,MS	12	1000	Unknown		10/29/2024 12:24	Finished	MS (5ppb), IWST-240729B,2>
27	N069498-007A,SAMP	13	1000	Unknown		10/29/2024 12:33	Finished	SAMP,2>10 mL
28	N069498-007AMS,MS	14	1000	Unknown		10/29/2024 12:43	Finished	MS (5ppb), IWST-240729B,2>
29	N069498-008A,SAMP	15	1000	Unknown		10/29/2024 12:52	Finished	SAMP,2>10 mL
30	N069498-008AMS,MS	16	1000	Unknown		10/29/2024 13:01	Finished	MS (5ppb), IWST-240729B,2>
31	N069509-001A,SAMP	17	1000	Unknown		10/29/2024 13:11	Finished	SAMP,10 mL
32	N069510-001B,SAMP	18	1000	Unknown		10/29/2024 13:20	Finished	SAMP,10 mL
33	N069498-003A,SAMP	19	1000	Unknown		10/29/2024 13:30	Finished	SAMP,2>10 mL
34	N069498-003AMS,MS	20	1000	Unknown		10/29/2024 13:39	Finished	MS (1ppb), IWST-240729B,2>
35	CCV-3.CCV,1,	21	1000	Unknown		10/29/2024 13:49	Finished	CCV @5ppb, IWST-240729A
36	CCB-3.CCB,1,	22	1000	Unknown		10/29/2024 13:58	Finished	CCB R241001A
37	N069498-004A,SAMP	23	1000	Unknown		10/29/2024 14:08	Finished	SAMP,10 mL
38	N069498-004AMS,MS	24	1000	Unknown		10/29/2024 14:17	Finished	MS (1ppb), IWST-240729B,10r
39	N069498-009A,SAMP	25	1000	Unknown		10/29/2024 14:27	Finished	SAMP,10 mL
40	N069498-009AMS,MS	26	1000	Unknown		10/29/2024 14:36	Finished	MS (1ppb), IWST-240729B,10r
41	N069498-003A,SAMP	27	1000	Unknown		10/29/2024 14:46	Finished	SAMP,10 mL
42	N069498-003AMS,MS	28	1000	Unknown		10/29/2024 14:55	Finished	MS (1ppb), IWST-240729B,10r
43	N069498-006A,SAMP	29	1000	Unknown		10/29/2024 15:04	Finished	SAMP,2>10 mL
44	N069498-006AMS,MS	30	1000	Unknown		10/29/2024 15:14	Finished	MS (1ppb), IWST-240729B,2>
45	N069498-001A,SAMP	31	1000	Unknown		10/29/2024 15:23	Finished	SAMP,0.5>10 mL
46	N069498-001AMS,MS	32	1000	Unknown		10/29/2024 15:33	Finished	MS (5ppb), IWST-240729B,0.5
47	CCV-4.CCV1,1,	33	1000	Unknown		10/29/2024 15:42	Finished	CCV @10ppb, IWST-240729A
48	CCB-4.CCB,1,	34	1000	Unknown		10/29/2024 15:52	Finished	CCB R241001A
49	N069498-005A,SAMP	35	1000	Unknown		10/29/2024 16:01	Finished	SAMP,0.1>10 mL
50	N069498-005ADUP,D	36	1000	Unknown		10/29/2024 16:11	Finished	DUP,0.1>10 mL
51	N069498-005AMS,MS	37	1000	Unknown		10/29/2024 16:20	Finished	MS (5ppb), IWST-240729B,0.1
52	N069498-005AMSD,N	38	1000	Unknown		10/29/2024 16:30	Finished	MSD (5ppb), IWST-240729B,0
53	CCV-5.CCV,1,	39	1000	Unknown		10/29/2024 16:39	Finished	CCV @5ppb, IWST-240729A
54	CCB-5.CCB,1,	40	1000	Unknown		10/29/2024 16:49	Finished	CCB R241001A
55	BLANK	41	1000	Unknown		10/29/2024 16:58	Finished	BLANK
56	SHUTDOWN	42	1000	Unknown		10/29/2024 17:07	Finished	
57	Eluent: R241029A	43	1000	Unknown		n.a.	Finished	
58	PCR: R241029B	44	1000	Unknown		n.a.	Finished	

INJECTION LOG: 241030A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	10/30/24 9:17 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	10/30/24 9:28 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/30/24 9:37 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	10/30/24 9:46 AM	Reported
13	MB-R195027	MBLK	1	Hexavalent Chromium	10/30/24 9:56 AM	Reported
14	LCS-R195027	LCS	1	Hexavalent Chromium	10/30/24 10:05 AM	Reported
15	N069498-001A	SAMP	50	Hexavalent Chromium	10/30/24 10:15 AM	Reported
16	N069498-001ADUP	DUP	50	Hexavalent Chromium	10/30/24 10:24 AM	Reported
17	N069498-001AMS	MS	50	Hexavalent Chromium	10/30/24 10:34 AM	Reported
18	N069543-004A	SAMP	10	Hexavalent Chromium	10/30/24 11:08 AM	Reported
19	N069543-010A	SAMP	5	Hexavalent Chromium	10/30/24 11:19 AM	Reported
20	N069543-016A	SAMP	5	Hexavalent Chromium	10/30/24 11:29 AM	Reported
21	N069543-004AMS	MS	10	Hexavalent Chromium	10/30/24 11:38 AM	Reported
22	N069543-004AMSD	MSD	10	Hexavalent Chromium	10/30/24 11:48 AM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	10/30/24 11:57 AM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	10/30/24 12:06 PM	Reported
25	N069543-007A	SAMP	1	Hexavalent Chromium	10/30/24 12:16 PM	Reported
26	N069543-010AMS	MS	5	Hexavalent Chromium	10/30/24 12:25 PM	Reported
27	N069543-016AMS	MS	5	Hexavalent Chromium	10/30/24 12:35 PM	Reported
28	N069543-011A	SAMP	1	Hexavalent Chromium	10/30/24 12:44 PM	Reported
29	N069543-011AMS	MS	1	Hexavalent Chromium	10/30/24 12:54 PM	Not Reported
30	N069543-012A	SAMP	1	Hexavalent Chromium	10/30/24 1:03 PM	Reported
31	N069543-012AMS	MS	1	Hexavalent Chromium	10/30/24 1:13 PM	Reported
32	N069543-013A	SAMP	1	Hexavalent Chromium	10/30/24 1:22 PM	Reported
33	N069543-013AMS	MS	1	Hexavalent Chromium	10/30/24 1:32 PM	Reported
34	N069543-007AMS	MS	1	Hexavalent Chromium	10/30/24 1:41 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	10/30/24 1:50 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	10/30/24 2:00 PM	Reported
37	N069543-015A	SAMP	1	Hexavalent Chromium	10/30/24 2:09 PM	Reported
38	N069543-015AMS	MS	1	Hexavalent Chromium	10/30/24 2:19 PM	Reported
39	N069542-001A	SAMP	1	Hexavalent Chromium	10/30/24 2:28 PM	Not Reported
40	N069542-001AMS	MS	1	Hexavalent Chromium	10/30/24 2:38 PM	Not Reported
41	N069542-002A	SAMP	1	Hexavalent Chromium	10/30/24 2:47 PM	Not Reported
42	N069542-002AMS	MS	1	Hexavalent Chromium	10/30/24 2:57 PM	Not Reported

INJECTION LOG: 241030A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069542-003A	SAMP	1	Hexavalent Chromium	10/30/24 3:06 PM	Not Reported
44	N069542-003AMS	MS	1	Hexavalent Chromium	10/30/24 3:16 PM	Not Reported
45	N069543-001A	SAMP	1	Hexavalent Chromium	10/30/24 3:26 PM	Not Reported
46	N069543-001AMS	MS	1	Hexavalent Chromium	10/30/24 3:37 PM	Not Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	10/30/24 3:46 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	10/30/24 3:56 PM	Reported
49	N069543-002A	SAMP	1	Hexavalent Chromium	10/30/24 4:05 PM	Not Reported
50	N069543-002AMS	MS	1	Hexavalent Chromium	10/30/24 4:14 PM	Not Reported
51	N069543-003A	SAMP	1	Hexavalent Chromium	10/30/24 4:24 PM	Not Reported
52	N069543-003AMS	MS	1	Hexavalent Chromium	10/30/24 4:33 PM	Not Reported
53	N069543-005A	SAMP	1	Hexavalent Chromium	10/30/24 4:43 PM	Not Reported
54	N069543-005AMS	MS	1	Hexavalent Chromium	10/30/24 4:52 PM	Not Reported
55	N069543-006A	SAMP	5	Hexavalent Chromium	10/30/24 5:02 PM	Reported
56	N069543-006AMS	MS	5	Hexavalent Chromium	10/30/24 5:11 PM	Reported
57	N069543-008A	SAMP	1	Hexavalent Chromium	10/30/24 5:21 PM	Not Reported
58	N069543-008AMS	MS	1	Hexavalent Chromium	10/30/24 5:30 PM	Not Reported
59	CCV-5	CCV	1	Hexavalent Chromium	10/30/24 5:40 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	10/30/24 5:49 PM	Reported
61	N069543-009A	SAMP	1	Hexavalent Chromium	10/30/24 5:59 PM	Not Reported
62	N069543-009AMS	MS	1	Hexavalent Chromium	10/30/24 6:08 PM	Not Reported
63	N069543-014A	SAMP	1	Hexavalent Chromium	10/30/24 6:17 PM	Not Reported
64	N069543-014AMS	MS	1	Hexavalent Chromium	10/30/24 6:27 PM	Not Reported
65	N069543-017A	SAMP	5	Hexavalent Chromium	10/30/24 6:36 PM	Reported
66	N069543-017AMS	MS	5	Hexavalent Chromium	10/30/24 6:46 PM	Reported
67	N069542-001A	SAMP	5	Hexavalent Chromium	10/30/24 6:55 PM	Reported
68	N069542-001AMS	MS	5	Hexavalent Chromium	10/30/24 7:05 PM	Reported
69	N069542-002A	SAMP	5	Hexavalent Chromium	10/30/24 7:14 PM	Reported
70	N069542-002AMS	MS	5	Hexavalent Chromium	10/30/24 7:24 PM	Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	10/30/24 7:33 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	10/30/24 7:43 PM	Reported
73	N069542-003A	SAMP	5	Hexavalent Chromium	10/30/24 7:52 PM	Reported
74	N069542-003AMS	MS	5	Hexavalent Chromium	10/30/24 8:01 PM	Reported
75	N069543-001A	SAMP	5	Hexavalent Chromium	10/30/24 8:11 PM	Reported
76	N069543-001AMS	MS	5	Hexavalent Chromium	10/30/24 8:20 PM	Reported
77	N069543-002A	SAMP	5	Hexavalent Chromium	10/30/24 8:30 PM	Reported
78	N069543-002AMS	MS	5	Hexavalent Chromium	10/30/24 8:39 PM	Reported
79	N069543-003A	SAMP	5	Hexavalent Chromium	10/30/24 8:49 PM	Not Reported
80	N069543-003AMS	MS	5	Hexavalent Chromium	10/30/24 8:58 PM	Not Reported
81	N069543-005A	SAMP	5	Hexavalent Chromium	10/30/24 9:08 PM	Reported
82	N069543-005AMS	MS	5	Hexavalent Chromium	10/30/24 9:17 PM	Reported
83	CCV-7	CCV	1	Hexavalent Chromium	10/30/24 9:27 PM	Reported
84	CCB-7	CCB	1	Hexavalent Chromium	10/30/24 9:36 PM	Reported

For RBA

jm 11/18/2024 **68**

INJECTION LOG: 241030A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N069543-008A	SAMP	5	Hexavalent Chromium	10/30/24 9:45 PM	Reported
86	N069543-008AMS	MS	5	Hexavalent Chromium	10/30/24 9:55 PM	Reported
87	N069543-009A	SAMP	5	Hexavalent Chromium	10/30/24 10:04 PM	Reported
88	N069543-009AMS	MS	5	Hexavalent Chromium	10/30/24 10:14 PM	Reported
89	N069543-014A	SAMP	5	Hexavalent Chromium	10/30/24 10:23 PM	Reported
90	N069543-014AMS	MS	5	Hexavalent Chromium	10/30/24 10:33 PM	Reported
91	N069543-011AMS	MS	1	Hexavalent Chromium	10/30/24 10:42 PM	Reported
92	CCV-8	CCV1	1	Hexavalent Chromium	10/30/24 10:52 PM	Reported
93	CCB-8	CCB	1	Hexavalent Chromium	10/30/24 11:01 PM	Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241030A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	30/Oct/24 23:31:55
No. of Injections:	96	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	BLANK	1	1000	Unknown		10/30/2024 09:17	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		10/30/2024 09:28	Finished	CCV @5ppb, IWST-240729A
11	PQL @0.2ppb,CCV2,	3	1000	Unknown		10/30/2024 09:37	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		10/30/2024 09:46	Finished	CCB R241001A
13	MB-H2O,MBLK,1,	5	1000	Unknown		10/30/2024 09:56	Finished	MB R241001A
14	LCS-H2O,LCS,1,	6	1000	Unknown		10/30/2024 10:05	Finished	LCS @5ppb, IWST-240729B
15	N069498-001A,SAMP	7	1000	Unknown		10/30/2024 10:15	Finished	SAMP,0.2>10 mL
16	N069498-001ADUP,D	8	1000	Unknown		10/30/2024 10:24	Finished	DUP,0.2>10 mL
17	N069498-001AMS,MS	9	1000	Unknown		10/30/2024 10:34	Finished	MS (5ppb), IWST-240729B,0.2
18	N069543-004A,SAMP	1	1000	Unknown		10/30/2024 11:08	Finished	SAMP,1>10 mL
19	N069543-010A,SAMP	2	1000	Unknown		10/30/2024 11:19	Finished	SAMP,2>10 mL
20	N069543-016A,SAMP	3	1000	Unknown		10/30/2024 11:29	Finished	SAMP,2>10 mL
21	N069543-004AMS,MS	4	1000	Unknown		10/30/2024 11:38	Finished	MS (5ppb), IWST-240729B,1>
22	N069543-004AMSD,N	5	1000	Unknown		10/30/2024 11:48	Finished	MSD (5ppb), IWST-240729B,1
23	CCV-2,CCV1,1,	6	1000	Unknown		10/30/2024 11:57	Finished	CCV @10ppb, IWST-240729A
24	CCB-2,CCB,1,	7	1000	Unknown		10/30/2024 12:06	Finished	CCB R241001A
25	N069543-007A,SAMP	8	1000	Unknown		10/30/2024 12:16	Finished	SAMP,10 mL
26	N069543-010AMS,MS	9	1000	Unknown		10/30/2024 12:25	Finished	MS (5ppb), IWST-240729B,2>
27	N069543-016AMS,MS	10	1000	Unknown		10/30/2024 12:35	Finished	MS (5ppb), IWST-240729B,2>
28	N069543-011A,SAMP	11	1000	Unknown		10/30/2024 12:44	Finished	SAMP,10 mL
29	N069543-011AMS,MS	12	1000	Unknown		10/30/2024 12:54	Finished	MS (5ppb), IWST-240729B,10r
30	N069543-012A,SAMP	13	1000	Unknown		10/30/2024 13:03	Finished	SAMP,10 mL
31	N069543-012AMS,MS	14	1000	Unknown		10/30/2024 13:13	Finished	MS (5ppb), IWST-240729B,10r
32	N069543-013A,SAMP	15	1000	Unknown		10/30/2024 13:22	Finished	SAMP,10 mL
33	N069543-013AMS,MS	16	1000	Unknown		10/30/2024 13:32	Finished	MS (5ppb), IWST-240729B,10r
34	N069543-007AMS,MS	17	1000	Unknown		10/30/2024 13:41	Finished	MS (1ppb), IWST-240729B,2> 10mL
35	CCV-3,CCV,1,	18	1000	Unknown		10/30/2024 13:50	Finished	CCV @5ppb, IWST-240729A
36	CCB-3,CCB,1,	19	1000	Unknown		10/30/2024 14:00	Finished	CCB R241001A
37	N069543-015A,SAMP	20	1000	Unknown		10/30/2024 14:09	Finished	SAMP,10 mL
38	N069543-015AMS,MS	21	1000	Unknown		10/30/2024 14:19	Finished	MS (5ppb), IWST-240729B,10r
39	N069542-001A,SAMP	22	1000	Unknown		10/30/2024 14:28	Finished	SAMP,10 mL
40	N069542-001AMS,MS	23	1000	Unknown		10/30/2024 14:38	Finished	MS (1ppb), IWST-240729B,10r
41	N069542-002A,SAMP	24	1000	Unknown		10/30/2024 14:47	Finished	SAMP,10 mL
42	N069542-002AMS,MS	25	1000	Unknown		10/30/2024 14:57	Finished	MS (1ppb), IWST-240729B,10r
43	N069542-003A,SAMP	26	1000	Unknown		10/30/2024 15:06	Finished	SAMP,10 mL
44	N069542-003AMS,MS	27	1000	Unknown		10/30/2024 15:16	Finished	MS (1ppb), IWST-240729B,10r
45	N069543-001A,SAMP	1	1000	Unknown		10/30/2024 15:26	Finished	SAMP,10 mL
46	N069543-001AMS,MS	2	1000	Unknown		10/30/2024 15:37	Finished	MS (1ppb), IWST-240729B,10r
47	CCV-4,CCV1,1,	3	1000	Unknown		10/30/2024 15:46	Finished	CCV @10ppb, IWST-240729A
48	CCB-4,CCB,1,	4	1000	Unknown		10/30/2024 15:56	Finished	CCB R241001A
49	N069543-002A,SAMP	5	1000	Unknown		10/30/2024 16:05	Finished	SAMP,10 mL
50	N069543-002AMS,MS	6	1000	Unknown		10/30/2024 16:14	Finished	MS (1ppb), IWST-240729B,10r
51	N069543-003A,SAMP	7	1000	Unknown		10/30/2024 16:24	Finished	SAMP,10 mL
52	N069543-003AMS,MS	8	1000	Unknown		10/30/2024 16:33	Finished	MS (1ppb), IWST-240729B,10r
53	N069543-005A,SAMP	9	1000	Unknown		10/30/2024 16:43	Finished	SAMP,10 mL
54	N069543-005AMS,MS	10	1000	Unknown		10/30/2024 16:52	Finished	MS (5ppb), IWST-240729B,10r
55	N069543-006A,SAMP	11	1000	Unknown		10/30/2024 17:02	Finished	SAMP,2>10 mL
56	N069543-006AMS,MS	12	1000	Unknown		10/30/2024 17:11	Finished	MS (5ppb), IWST-240729B,2>
57	N069543-008A,SAMP	13	1000	Unknown		10/30/2024 17:21	Finished	SAMP,10 mL
58	N069543-008AMS,MS	14	1000	Unknown		10/30/2024 17:30	Finished	MS (1ppb), IWST-240729B,10r
59	CCV-5,CCV,1,	15	1000	Unknown		10/30/2024 17:40	Finished	CCV @5ppb, IWST-240729A
60	CCB-5,CCB,1,	16	1000	Unknown		10/30/2024 17:49	Finished	CCB R241001A

61	N069543-009A,SAMP	17	1000	Unknown	10/30/2024 17:59	Finished	SAMP,10 mL
62	N069543-009AMS,M\$	18	1000	Unknown	10/30/2024 18:08	Finished	MS (1ppb), IWST-240729B,10
63	N069543-014A,SAMP	19	1000	Unknown	10/30/2024 18:17	Finished	SAMP,10 mL
64	N069543-014AMS,M\$	20	1000	Unknown	10/30/2024 18:27	Finished	MS (5ppb), IWST-240729B,10
65	N069543-017A,SAMP	21	1000	Unknown	10/30/2024 18:36	Finished	SAMP,2>10 mL
66	N069543-017AMS,M\$	22	1000	Unknown	10/30/2024 18:46	Finished	MS (5ppb), IWST-240729B,2>
67	N069542-001A,SAMP	23	1000	Unknown	10/30/2024 18:55	Finished	SAMP,2>10 mL
68	N069542-001AMS,M\$	24	1000	Unknown	10/30/2024 19:05	Finished	MS (1ppb), IWST-240729B,2>
69	N069542-002A,SAMP	25	1000	Unknown	10/30/2024 19:14	Finished	SAMP,2>10 mL
70	N069542-002AMS,M\$	26	1000	Unknown	10/30/2024 19:24	Finished	MS (1ppb), IWST-240729B,2>
71	CCV-6,CCV1,1,	27	1000	Unknown	10/30/2024 19:33	Finished	CCV @10ppb, IWST-240729A
72	CCB-6,CCB,1,	28	1000	Unknown	10/30/2024 19:43	Finished	CCB R241001A
73	N069542-003A,SAMP	29	1000	Unknown	10/30/2024 19:52	Finished	SAMP,2>10 mL
74	N069542-003AMS,M\$	30	1000	Unknown	10/30/2024 20:01	Finished	MS (1ppb), IWST-240729B,2>
75	N069543-001A,SAMP	31	1000	Unknown	10/30/2024 20:11	Finished	SAMP,2>10 mL
76	N069543-001AMS,M\$	32	1000	Unknown	10/30/2024 20:20	Finished	MS (1ppb), IWST-240729B,2>
77	N069543-002A,SAMP	33	1000	Unknown	10/30/2024 20:30	Finished	SAMP,2>10 mL
78	N069543-002AMS,M\$	34	1000	Unknown	10/30/2024 20:39	Finished	MS (1ppb), IWST-240729B,2>
79	N069543-003A,SAMP	35	1000	Unknown	10/30/2024 20:49	Finished	SAMP,2>10 mL
80	N069543-003AMS,M\$	36	1000	Unknown	10/30/2024 20:58	Finished	MS (1ppb), IWST-240729B,2>
81	N069543-005A,SAMP	37	1000	Unknown	10/30/2024 21:08	Finished	SAMP,2>10 mL
82	N069543-005AMS,M\$	38	1000	Unknown	10/30/2024 21:17	Finished	MS (1ppb), IWST-240729B,2>
83	CCV-7,CCV,1,	39	1000	Unknown	10/30/2024 21:27	Finished	CCV @5ppb, IWST-240729A
84	CCB-7,CCB,1,	40	1000	Unknown	10/30/2024 21:36	Finished	CCB R241001A
85	N069543-008A,SAMP	41	1000	Unknown	10/30/2024 21:45	Finished	SAMP,2>10 mL
86	N069543-008AMS,M\$	42	1000	Unknown	10/30/2024 21:55	Finished	MS (1ppb), IWST-240729B,2>
87	N069543-009A,SAMP	43	1000	Unknown	10/30/2024 22:04	Finished	SAMP,2>10 mL
88	N069543-009AMS,M\$	44	1000	Unknown	10/30/2024 22:14	Finished	MS (1ppb), IWST-240729B,2>
89	N069543-014A,SAMP	45	1000	Unknown	10/30/2024 22:23	Finished	SAMP,2>10 mL
90	N069543-014AMS,M\$	46	1000	Unknown	10/30/2024 22:33	Finished	MS (1ppb), IWST-240729B,2>
91	N069543-011AMS,M\$	47	1000	Unknown	10/30/2024 22:42	Finished	MS (1ppb), IWST-240729B,10
92	CCV-8,CCV1,1,	48	1000	Unknown	10/30/2024 22:52	Finished	CCV @10ppb, IWST-240729A
93	CCB-8,CCB,1,	49	1000	Unknown	10/30/2024 23:01	Finished	CCB R241001A
94	SHUTDOWN	50	1000	Unknown	10/30/2024 23:11	Finished	
95	Eluent: R241029A	51	1000	Unknown	n.a.	Finished	
96	PCR: R241029B	CurrentVia	1000	Unknown	n.a.	Finished	



SAMPLE PREPARATION LOG



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL TECHNOLOGIES

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"Serving Clients with Passion and Professionalism"

Hexavalent Chromium Preparation and Runlog

Sample Preparation

Date Prepared: 10/19/24
 Time Prepared: 1206H
 Prepared By: NA

Reagent ID: _____
 Sulfuric Acid: 16020 pH meter ID: pH-01
 Diphenylcarbazide: 16810
 NH4OH + NH4SO4 eluent: N241018A
 NH4OH + NH4SO4 buffer: N240926A

	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	N069320-11A	9.33	-	-250ml	-250ml		
2)	12A	9.36	-				
3)	13A	9.40	-				
4)	14A	9.43	-				
5)	15A	9.47	-				
6)	16A	9.38	-				
7)	17A	9.36	-				
8)	18A	9.50	-				
9)	19A	9.48	-				
10)	20A	9.41	-				
11)	21A	9.44	-				
12)	22A	9.65	-				
13)	23A	9.66	-				
14)							
15)							

Sample Preparation

Date Prepared: 10/29/24
 Time Prepared: 1010H
 Prepared By: NA

Reagent ID: _____
 Sulfuric Acid: 16020 pH meter ID: 01
 Diphenylcarbazide: 16810
 NH4OH + NH4SO4 eluent: N241025A N241029A
 NH4OH + NH4SO4 buffer: N241001A

	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	N069498-1A	9.35	-	-250ml	-250ml		
2)	2A	9.46	-				
3)	3A	9.31	-				
4)	4A	9.67	-				
5)	5A	9.48	-				
6)	6A	9.35	-				
7)	7A	9.39	-				
8)	8A	9.40	-				
9)	9A	9.68	-				
10)							
11)							
12)							
13)							
14)							
15)							

Logbook No. 26



INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
INTEGRATION OF SURVEILLANCE, ENVIRONMENTAL, & FORENSIC

CALIFORNIA
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"Serving Clients with Passion and Professionalism"

(EPA 218.6) - INITIAL CALIBRATION

Instrument ID: NV00922-IC7
Date Calibrated: 10/28/2024

Initial Calibration:

Hexavalent Chromium	STD1	STD2	STD3	STD4	STD5	STD6	
COMPOUND, in ug/L	0.2	1	5	10	15	20	R ²
Area,mAU*min	0.0527	0.2779	1.4196	2.8235	4.2553	5.6829	1.0000
Measured, in ug/L	0.185700	0.979400	5.002800	9.950700	14.996600	20.027700	
Relative Error (%RE)	-7.2%		0.1%				

	Stock	Working
Standard Concentration:	1,000,000 PPB	1,000 PPB
Standard ID:	ISST-240705H	IWST-240729A

Calibration Acceptance Criteria: > 0.999 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
INTEGRATION • INNOVATION • IMPROVEMENT

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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194965						
Client ID: ICV	Batch ID: R194965	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6273724							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.730	0.20	5.000	0	94.6	90	110				

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194965						
Client ID: ZZZZZ	Batch ID: R194965	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6273725							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.211	0.20	0.2000	0	106	80	120				

Sample ID CCV-1	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194965						
Client ID: CCV	Batch ID: R194965	TestNo: EPA 218.6	Analysis Date: 10/29/2024	SeqNo: 6273727							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.928	0.20	5.000	0	98.6	95	105				

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194965						
Client ID: ZZZZZ	Batch ID: R194965	TestNo: EPA 218.6	Analysis Date: 10/29/2024	SeqNo: 6273728							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.187	0.20	0.2000	0	93.7	80	120				

Sample ID CCV-2	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194965						
Client ID: ZZZZZ	Batch ID: R194965	TestNo: EPA 218.6	Analysis Date: 10/29/2024	SeqNo: 6273734							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.832	0.20	10.00	0	98.3	95	105				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCV-3	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194965						
Client ID: CCV	Batch ID: R194965	TestNo: EPA 218.6	Analysis Date: 10/29/2024	SeqNo: 6273746							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.834	0.20	5.000	0	96.7	95	105				

Sample ID CCV-4	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194965						
Client ID: ZZZZZ	Batch ID: R194965	TestNo: EPA 218.6	Analysis Date: 10/29/2024	SeqNo: 6273752							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.862	0.20	10.00	0	98.6	95	105				

Sample ID CCV-5	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194965						
Client ID: CCV	Batch ID: R194965	TestNo: EPA 218.6	Analysis Date: 10/29/2024	SeqNo: 6273758							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.013	0.20	5.000	0	100	95	105				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027
Client ID: ICV	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6277487	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	4.730	0.20	5.000	0	94.6 90 110

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027
Client ID: ZZZZZ	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6277488	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	0.211	0.20	0.2000	0	106 80 120

Sample ID CCV-1	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027
Client ID: CCV	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277490	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	5.008	0.20	5.000	0	100 95 105

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027
Client ID: ZZZZZ	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277491	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	0.204	0.20	0.2000	0	102 80 120

Sample ID CCV-2	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027
Client ID: ZZZZZ	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277503	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	9.744	0.20	10.00	0	97.4 95 105

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCV-3	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027
Client ID: CCV	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277514	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	5.062	0.20	5.000	0	101 95 105

Sample ID CCV-4	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027
Client ID: ZZZZZ	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277518	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	10.007	0.20	10.00	0	100 95 105

Sample ID CCV-5	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027
Client ID: CCV	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277522	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	5.012	0.20	5.000	0	100 95 105

Sample ID CCV-6	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027
Client ID: ZZZZZ	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277530	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	9.838	0.20	10.00	0	98.4 95 105

Sample ID CCV-7	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027
Client ID: CCV	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277542	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	4.929	0.20	5.000	0	98.6 95 105

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCV-8	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: ZZZZZZ	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277551						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.895	0.20	10.00	0	99.0	95	105				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL INSTRUMENTATION

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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194965
Client ID: ICB	Batch ID: R194965	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6273726	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-1	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194965
Client ID: CCB	Batch ID: R194965	TestNo: EPA 218.6	Analysis Date: 10/29/2024	SeqNo: 6273729	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-2	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194965
Client ID: CCB	Batch ID: R194965	TestNo: EPA 218.6	Analysis Date: 10/29/2024	SeqNo: 6273735	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-3	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194965
Client ID: CCB	Batch ID: R194965	TestNo: EPA 218.6	Analysis Date: 10/29/2024	SeqNo: 6273747	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-4	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194965
Client ID: CCB	Batch ID: R194965	TestNo: EPA 218.6	Analysis Date: 10/29/2024	SeqNo: 6273753	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCB-5	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 194965						
Client ID: CCB	Batch ID: R194965	TestNo: EPA 218.6		Analysis Date: 10/29/2024	SeqNo: 6273759						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027
Client ID: ICB	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6277489	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-1	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027
Client ID: CCB	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277489	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-2	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027
Client ID: CCB	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277504	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-3	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027
Client ID: CCB	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277515	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-4	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027
Client ID: CCB	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277519	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCB-5	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027
Client ID: CCB	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277523	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-6	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027
Client ID: CCB	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277531	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-7	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027
Client ID: CCB	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277543	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-8	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027
Client ID: CCB	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277552	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

RETENTION TIME SUMMARY



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL TECHNOLOGIES

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"Serving Clients with Passion and Professionalism"

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/29/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.731	
CCV-2	5.731	
CCV-3	5.731	
CCV-4	5.731	
CCV-5	5.723	

Average 5.729
Actual RT Window 5.649 - 5.809
Applied RT Window 5.529 - 5.929

MB-R194965	N.A.	N.A.
LCS-R194965	5.740	PASS
N069498-005A	5.731	PASS
N069498-005ADUP	5.731	PASS
N069498-006A	5.631	PASS
N069498-006AMS	5.623	PASS
N069498-001A	5.715	PASS
N069498-001AMS	5.706	PASS
N069498-005AMS	5.731	PASS
N069498-005AMSD	5.731	PASS
N069498-002A	5.673	PASS
N069498-002AMS	5.673	PASS
N069498-007A	5.715	PASS
N069498-007AMS	5.715	PASS
N069498-008A	5.698	PASS
N069498-008AMS	5.698	PASS
N069509-001A	5.698	PASS
N069510-001B	5.723	PASS
N069498-003A	N.A.	N.A.
N069498-003AMS	5.690	PASS
N069498-004A	N.A.	N.A.
N069498-004AMS	5.731	PASS
N069498-009A	5.723	PASS

Reviewed by:

MRecha 11/11/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/29/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.731	
CCV-2	5.731	
CCV-3	5.731	
CCV-4	5.731	
CCV-5	5.723	

Average 5.729
Actual RT Window 5.649 - 5.809
Applied RT Window 5.529 - 5.929

N069498-009AMS	5.723	PASS
N069498-003A	N.A.	N.A.
N069498-006A	5.715	PASS
N069498-006AMS	5.706	PASS
N069498-001A	5.723	PASS
N069498-001AMS	5.723	PASS
N069498-005A	5.731	PASS
N069498-005ADUP	5.731	PASS
N069498-005AMS	5.723	PASS
N069498-005AMSD	5.731	PASS

Reviewed by:

M. Rocha 11/11/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/30/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.723	
CCV-2	5.731	
CCV-3	5.731	
CCV-4	5.731	
CCV-5	5.731	
CCV-6	5.731	
CCV-7	5.731	
CCV-8	5.731	

Average 5.730
Actual RT Window 5.650 - 5.810
Applied RT Window 5.530 - 5.930

MB-R195027	N.A.	N.A.
LCS-R195027	5.731	PASS
N069498-001A	5.731	PASS
N069498-001ADUP	5.731	PASS
N069498-001AMS	5.723	PASS
N069543-004A	5.723	PASS
N069543-010A	5.723	PASS
N069543-016A	5.706	PASS
N069543-004AMS	5.731	PASS
N069543-004AMSD	5.723	PASS
N069543-007A	5.715	PASS
N069543-010AMS	5.723	PASS
N069543-016AMS	5.706	PASS
N069543-011A	5.640	PASS
N069543-011AMS	5.631	PASS
N069543-012A	5.590	PASS
N069543-012AMS	5.598	PASS
N069543-013A	5.581	PASS
N069543-013AMS	5.581	PASS
N069543-007AMS	5.731	PASS

Reviewed by:

M. Rocha 11/11/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/30/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.723	
CCV-2	5.731	
CCV-3	5.731	
CCV-4	5.731	
CCV-5	5.731	
CCV-6	5.731	
CCV-7	5.731	
CCV-8	5.731	

Average 5.730
Actual RT Window 5.650 - 5.810
Applied RT Window 5.530 - 5.930

N069543-015A	5.548	PASS
N069543-015AMS	5.548	PASS
N069542-001A	N.A.	N.A.
N069542-001AMS	5.540	PASS
N069542-002A	N.A.	N.A.
N069542-002AMS	5.573	PASS
N069542-003A	N.A.	N.A.
N069542-003AMS	5.573	PASS
N069543-001A	N.A.	N.A.
N069543-002A	N.A.	N.A.
N069543-002AMS	N.A.	N.A.
N069543-003A	N.A.	N.A.
N069543-003AMS	N.A.	N.A.
N069543-006A	5.681	PASS
N069543-006AMS	5.681	PASS
N069543-008A	N.A.	N.A.
N069543-008AMS	N.A.	N.A.
N069543-009A	N.A.	N.A.
N069543-014A	N.A.	N.A.
N069543-017A	5.706	PASS

Reviewed by:

MRecha 11/11/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/30/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.723	
CCV-2	5.731	
CCV-3	5.731	
CCV-4	5.731	
CCV-5	5.731	
CCV-6	5.731	
CCV-7	5.731	
CCV-8	5.731	

Average 5.730
Actual RT Window 5.650 - 5.810
Applied RT Window 5.530 - 5.930

N069543-017AMS	5.706	PASS
N069542-001A	N.A.	N.A.
N069542-001AMS	5.706	PASS
N069542-002A	N.A.	N.A.
N069542-002AMS	5.706	PASS
N069542-003A	N.A.	N.A.
N069542-003AMS	5.706	PASS
N069543-001A	N.A.	N.A.
N069543-001AMS	5.690	PASS
N069543-002A	5.656	PASS
N069543-002AMS	5.665	PASS
N069543-003A	5.665	PASS
N069543-003AMS	5.665	PASS
N069543-005A	5.690	PASS
N069543-005AMS	5.698	PASS
N069543-008A	5.648	PASS
N069543-008AMS	5.656	PASS
N069543-009A	5.665	PASS
N069543-009AMS	5.656	PASS
N069543-014A	N.A.	N.A.

Reviewed by:

M. Rocha 11/11/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/30/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.723	
CCV-2	5.731	
CCV-3	5.731	
CCV-4	5.731	
CCV-5	5.731	
CCV-6	5.731	
CCV-7	5.731	
CCV-8	5.731	

Average 5.730
Actual RT Window 5.650 - 5.810
Applied RT Window 5.530 - 5.930

N069543-014AMS	5.690	PASS
N069543-011AMS	5.631	PASS

Reviewed by:

MRecha 11/11/2024

MDL STUDY



ASSET LABORATORIES
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11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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METHOD DETECTION LIMIT (Spiked)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): 10/4/2022, 11/15/2022, 1/4/2023, 3/1/2023, 4/4/2023, 5/16/2023, 7/10/2023, 8/2/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: ug/L

Instrument Name: **IC-07**

Datafile 221004A D12 221115A D12 230104A D11 230301C D14 230404A D11 230516A D11 230710A D12 230802A D11

Analyte	#1	#2	#3	#4	#5	#6	#7	#8	Spike Conc., ug/L	SD	t _(n-1) value	MDLs	PQL
Hexavalent Chromium	0.199	0.194	0.169	0.190	0.167	0.194	0.201	0.185	0.20	0.0129	2.998	0.0387	0.20

METHOD DETECTION LIMIT (Blanks)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Instrument Name: **IC-07**

Analyte	MDLb	#of Records
Hexavalent Chromium	0.00	166

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

RAW DATA



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INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	ICV	ICV	1	Hexavalent Chromium	10/28/24 10:49 AM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/28/24 10:59 AM	Reported
11	ICB	ICB	1	Hexavalent Chromium	10/28/24 11:08 AM	Reported
12	MB-R194895	MBLK	1	Hexavalent Chromium	10/28/24 11:17 AM	Reported
13	LCS-R194895	LCS	1	Hexavalent Chromium	10/28/24 11:27 AM	Reported
14	N069445-001A	SAMP	1	Hexavalent Chromium	10/28/24 11:36 AM	Reported
15	N069445-001AMS	MS	1	Hexavalent Chromium	10/28/24 11:46 AM	Reported
16	N069445-001AMSD	MSD	1	Hexavalent Chromium	10/28/24 11:55 AM	Reported
17	N069445-001ADUP	DUP	1	Hexavalent Chromium	10/28/24 12:05 PM	Reported
18	N069453-001A	SAMP	1	Hexavalent Chromium	10/28/24 12:14 PM	Reported
19	N069453-002A	SAMP	1	Hexavalent Chromium	10/28/24 12:24 PM	Reported
20	N069453-003A	SAMP	1	Hexavalent Chromium	10/28/24 12:33 PM	Reported
21	N069453-004A	SAMP	1	Hexavalent Chromium	10/28/24 12:43 PM	Reported
22	CCV-1	CCV1	1	Hexavalent Chromium	10/28/24 12:52 PM	Reported
23	CCB-1	CCB	1	Hexavalent Chromium	10/28/24 1:02 PM	Reported
24	N069444-001A	SAMP	1	Hexavalent Chromium	10/28/24 1:11 PM	Reported
25	N069444-001AMS	MS	1	Hexavalent Chromium	10/28/24 1:20 PM	Reported
26	N069444-002A	SAMP	1	Hexavalent Chromium	10/28/24 1:30 PM	Reported
27	N069444-002AMS	MS	1	Hexavalent Chromium	10/28/24 1:39 PM	Reported
28	N069444-003A	SAMP	1	Hexavalent Chromium	10/28/24 1:49 PM	Not Reported
29	N069444-003AMS	MS	1	Hexavalent Chromium	10/28/24 1:58 PM	Not Reported
30	N069444-001A	SAMP	5	Hexavalent Chromium	10/28/24 2:08 PM	Not Reported
31	N069444-001AMS	MS	5	Hexavalent Chromium	10/28/24 2:17 PM	Not Reported
32	N069444-002A	SAMP	5	Hexavalent Chromium	10/28/24 2:27 PM	Not Reported
33	N069444-002AMS	MS	5	Hexavalent Chromium	10/28/24 2:36 PM	Not Reported
34	CCV-2	CCV	1	Hexavalent Chromium	10/28/24 2:46 PM	Reported
35	CCB-2	CCB	1	Hexavalent Chromium	10/28/24 2:55 PM	Reported
36	N069444-003A	SAMP	5	Hexavalent Chromium	10/28/24 3:04 PM	Reported
37	N069444-003AMS	MS	5	Hexavalent Chromium	10/28/24 3:14 PM	Reported
38	N069233-009A	SAMP	5	Hexavalent Chromium	10/28/24 3:23 PM	Not Reported
39	N069233-009AMS	MS	5	Hexavalent Chromium	10/28/24 3:33 PM	Not Reported
40	N069233-015A	SAMP	5	Hexavalent Chromium	10/28/24 3:42 PM	Not Reported
41	N069233-015AMS	MS	5	Hexavalent Chromium	10/28/24 3:52 PM	Not Reported
42	CCV-3	CCV1	1	Hexavalent Chromium	10/28/24 4:01 PM	Reported

INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	CCB-3	CCB	1	Hexavalent Chromium	10/28/24 4:11 PM	Reported
44	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 4:20 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241028A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	28/Oct/24 16:50:54
No. of Injections:	47	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	ICV,ICV,1,	9	1000	Unknown		10/28/2024 10:49	Finished	ICV @5ppb, IWST-240729B
10	PQL @0.2ppb,CCV2,	10	1000	Unknown		10/28/2024 10:59	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		10/28/2024 11:08	Finished	ICB R240926A
12	MB-H2O,MBLK,1,	12	1000	Unknown		10/28/2024 11:17	Finished	MB R240926A
13	LCS-H2O,LCS,1,	13	1000	Unknown		10/28/2024 11:27	Finished	LCS @5ppb, IWST-240729B
14	N069445-001A,SAMP	14	1000	Unknown		10/28/2024 11:36	Finished	SAMP,10 mL
15	N069445-001AMS,M	15	1000	Unknown		10/28/2024 11:46	Finished	MS (1ppb), IWST-240729B,10r
16	N069445-001AMSD,N	16	1000	Unknown		10/28/2024 11:55	Finished	MSD (1ppb), IWST-240729B,10r
17	N069445-001ADUP,D	17	1000	Unknown		10/28/2024 12:05	Finished	DUP,10 mL
18	N069453-001A,SAMP	18	1000	Unknown		10/28/2024 12:14	Finished	SAMP,10 mL
19	N069453-002A,SAMP	19	1000	Unknown		10/28/2024 12:24	Finished	SAMP,10 mL
20	N069453-003A,SAMP	20	1000	Unknown		10/28/2024 12:33	Finished	SAMP,10 mL
21	N069453-004A,SAMP	21	1000	Unknown		10/28/2024 12:43	Finished	SAMP,10 mL
22	CCV-1,CCV1,1,	22	1000	Unknown		10/28/2024 12:52	Finished	CCV @10ppb, IWST-240729A
23	CCB-1,CCB,1,	23	1000	Unknown		10/28/2024 13:02	Finished	CCB R240926A
24	N069444-001A,SAMP	24	1000	Unknown		10/28/2024 13:11	Finished	SAMP,10 mL
25	N069444-001AMS,M	25	1000	Unknown		10/28/2024 13:20	Finished	MS (1ppb), IWST-240729B,10r
26	N069444-002A,SAMP	26	1000	Unknown		10/28/2024 13:30	Finished	SAMP,10 mL
27	N069444-002AMS,M	27	1000	Unknown		10/28/2024 13:39	Finished	MS (1ppb), IWST-240729B,10r
28	N069444-003A,SAMP	28	1000	Unknown		10/28/2024 13:49	Finished	SAMP,10 mL
29	N069444-003AMS,M	29	1000	Unknown		10/28/2024 13:58	Finished	MS (1ppb), IWST-240729B,10r
30	N069444-001A,SAMP	30	1000	Unknown		10/28/2024 14:08	Finished	SAMP,2>10 mL
31	N069444-001AMS,M	31	1000	Unknown		10/28/2024 14:17	Finished	MS (1ppb), IWST-240729B,2>10
32	N069444-002A,SAMP	32	1000	Unknown		10/28/2024 14:27	Finished	SAMP,2>10 mL
33	N069444-002AMS,M	33	1000	Unknown		10/28/2024 14:36	Finished	MS (1ppb), IWST-240729B,2>10
34	CCV-2,CCV,1,	34	1000	Unknown		10/28/2024 14:46	Finished	CCV @5ppb, IWST-240729A
35	CCB-2,CCB,1,	35	1000	Unknown		10/28/2024 14:55	Finished	CCB R240926A
36	N069444-003A,SAMP	36	1000	Unknown		10/28/2024 15:04	Finished	SAMP,2>10 mL
37	N069444-003AMS,M	37	1000	Unknown		10/28/2024 15:14	Finished	MS (1ppb), IWST-240729B,2>10
38	N069233-009A,SAMP	38	1000	Unknown		10/28/2024 15:23	Finished	SAMP,2>10 mL
39	N069233-009AMS,M	39	1000	Unknown		10/28/2024 15:33	Finished	MS (1ppb), IWST-240729B,2>10
40	N069233-015A,SAMP	40	1000	Unknown		10/28/2024 15:42	Finished	SAMP,2>10 mL
41	N069233-015AMS,M	41	1000	Unknown		10/28/2024 15:52	Finished	MS (1ppb), IWST-240729B,2>10
42	CCV-3,CCV1,1,	42	1000	Unknown		10/28/2024 16:01	Finished	CCV @10ppb, IWST-240729A
43	CCB-3,CCB,1,	43	1000	Unknown		10/28/2024 16:11	Finished	CCB R240926A
44	BLANK	44	1000	Unknown		10/28/2024 16:20	Finished	BLANK
45	SHUTDOWN	45	1000	Unknown		10/28/2024 16:30	Finished	
46	Eluent: R241025A	46	1000	Unknown		n.a.	Finished	
47	PCR: R241025B	47	1000	Unknown		n.a.	Finished	

Reviewed by:

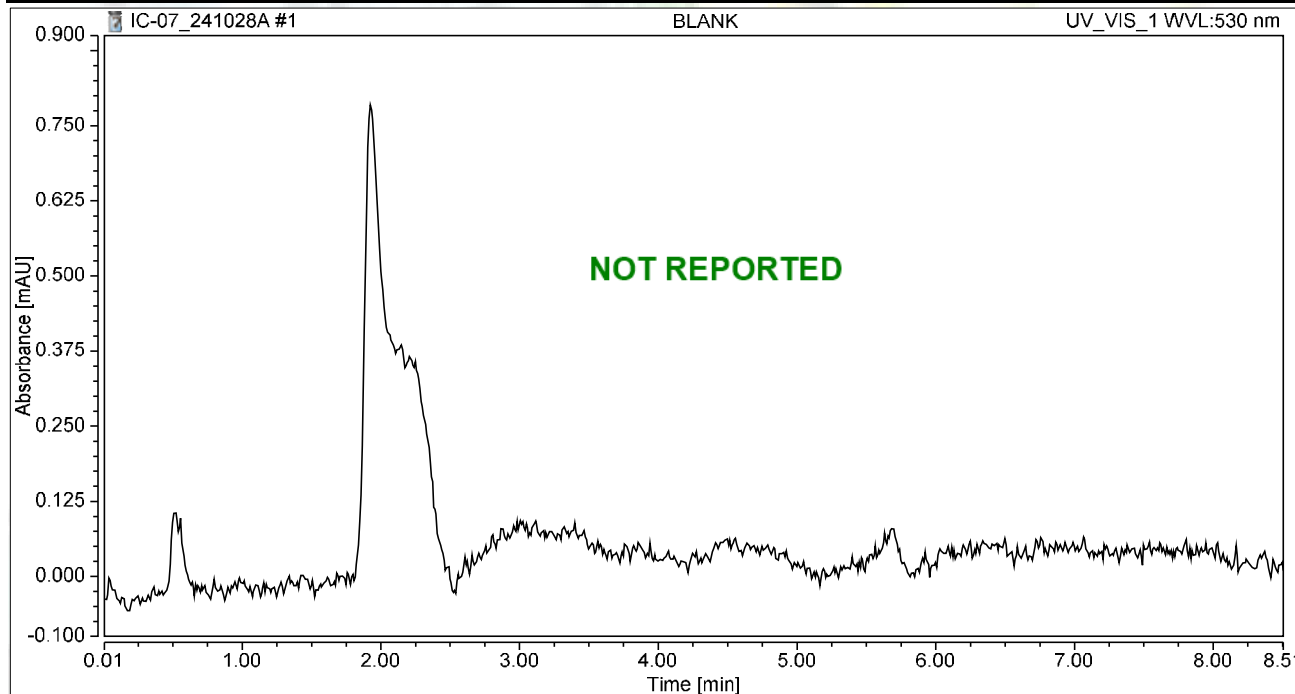
d/rocha 11/3/2024

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 09:30	Sample Weight:	1.0000

Chromatogram



Integration Results

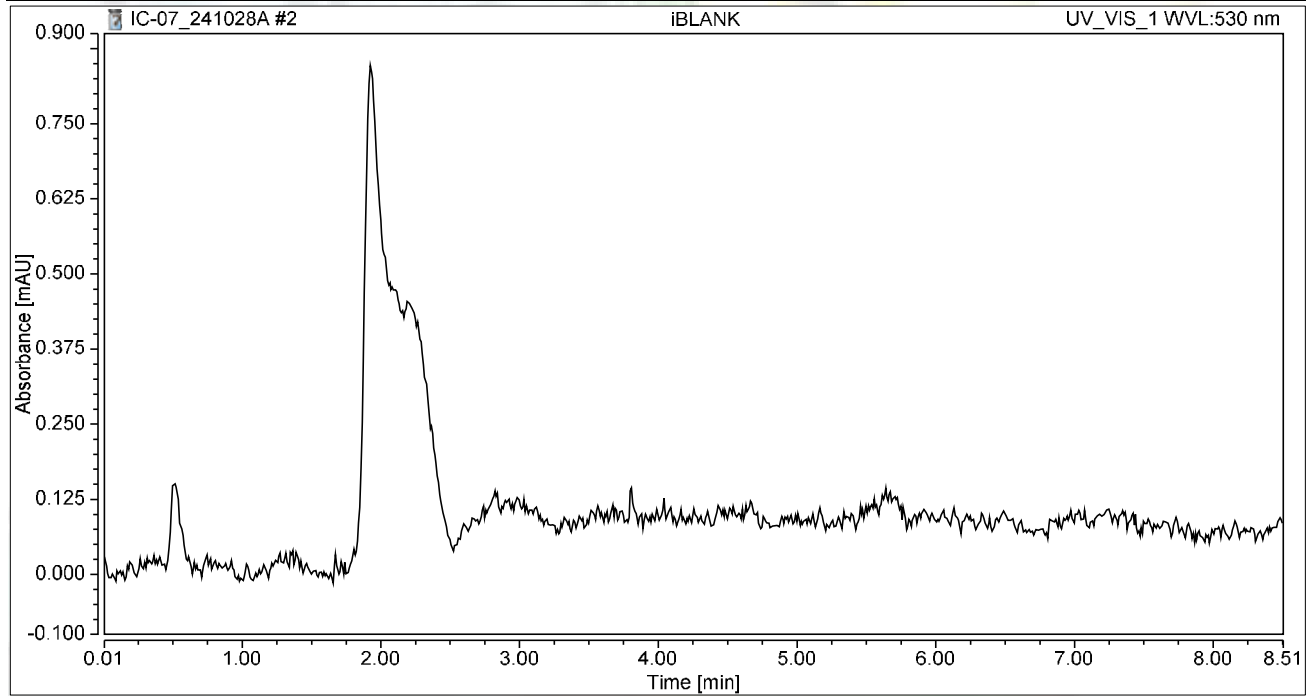
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	iBLANK	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 09:43	Sample Weight:	1.0000

Chromatogram



Integration Results

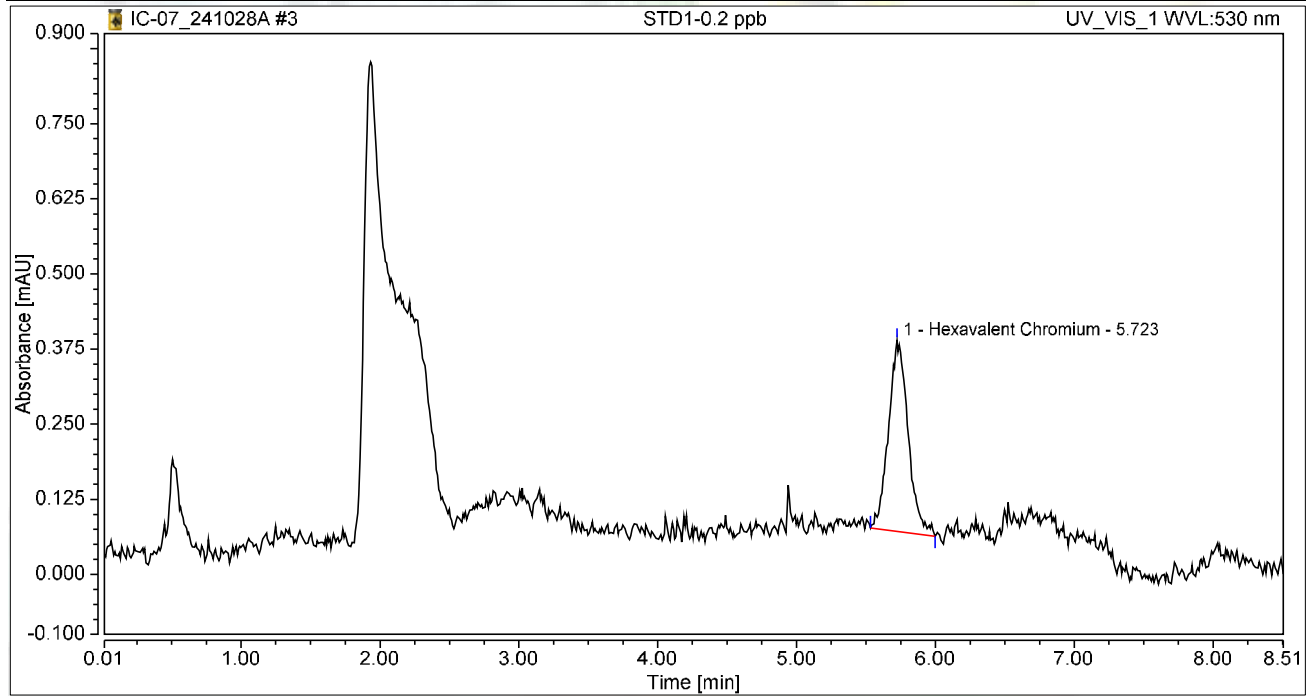
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	STD1-0.2 ppb	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	01	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 09:52	Sample Weight:	1.0000

Chromatogram



Integration Results

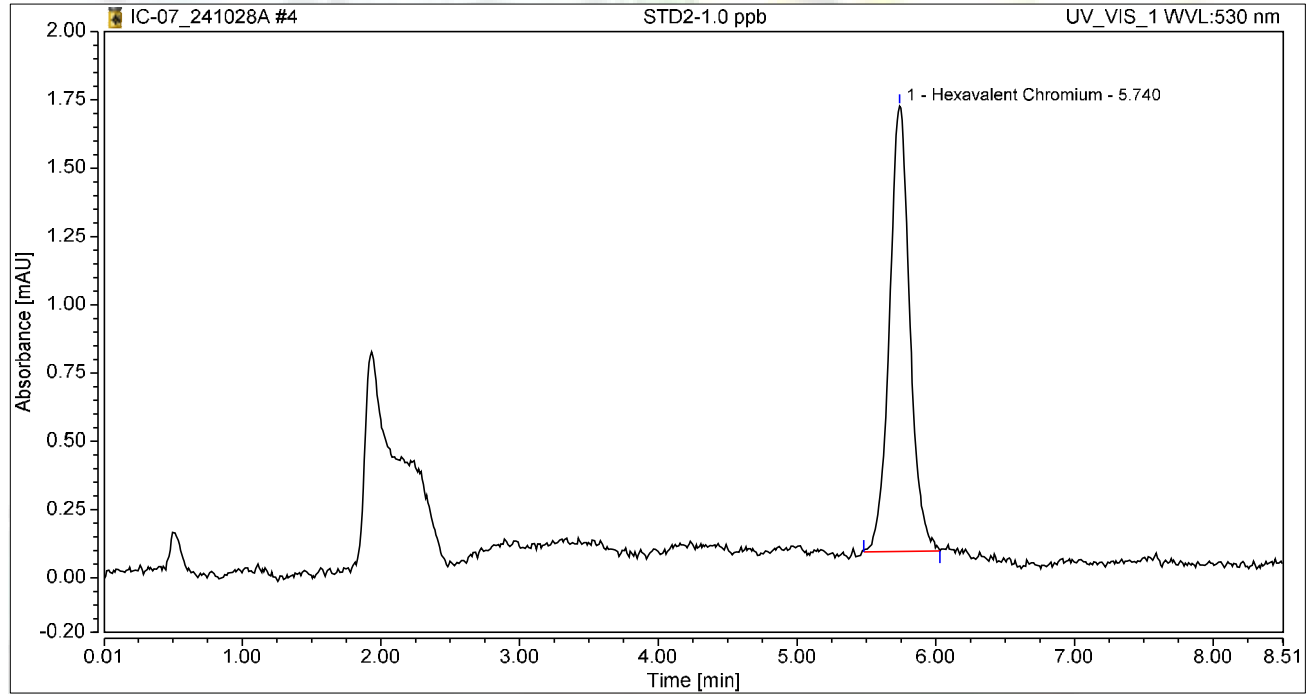
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.053	0.318	100.00	100.00	0.1857
Total:			0.053	0.318	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD2-1.0 ppb	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	02	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:02	Sample Weight:	1.0000

Chromatogram



Integration Results

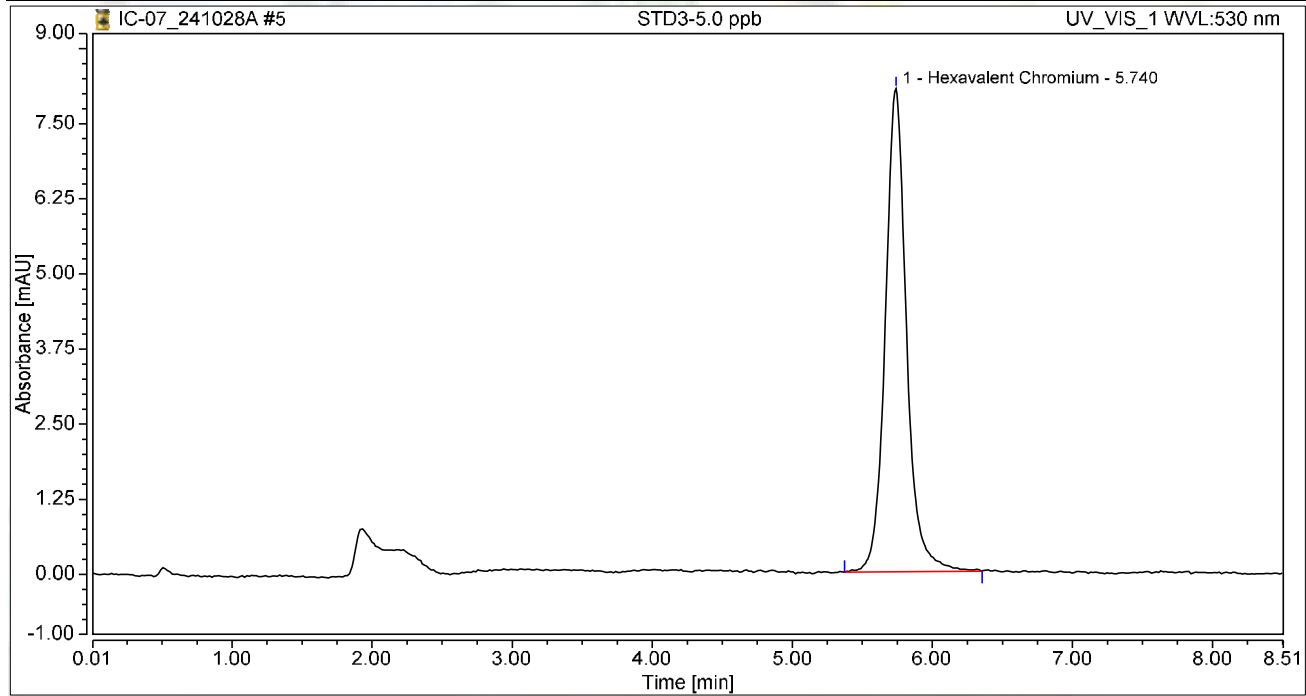
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	0.278	1.631	100.00	100.00	0.9794
Total:			0.278	1.631	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD3-5.0 ppb	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	03	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:11	Sample Weight:	1.0000

Chromatogram



Integration Results

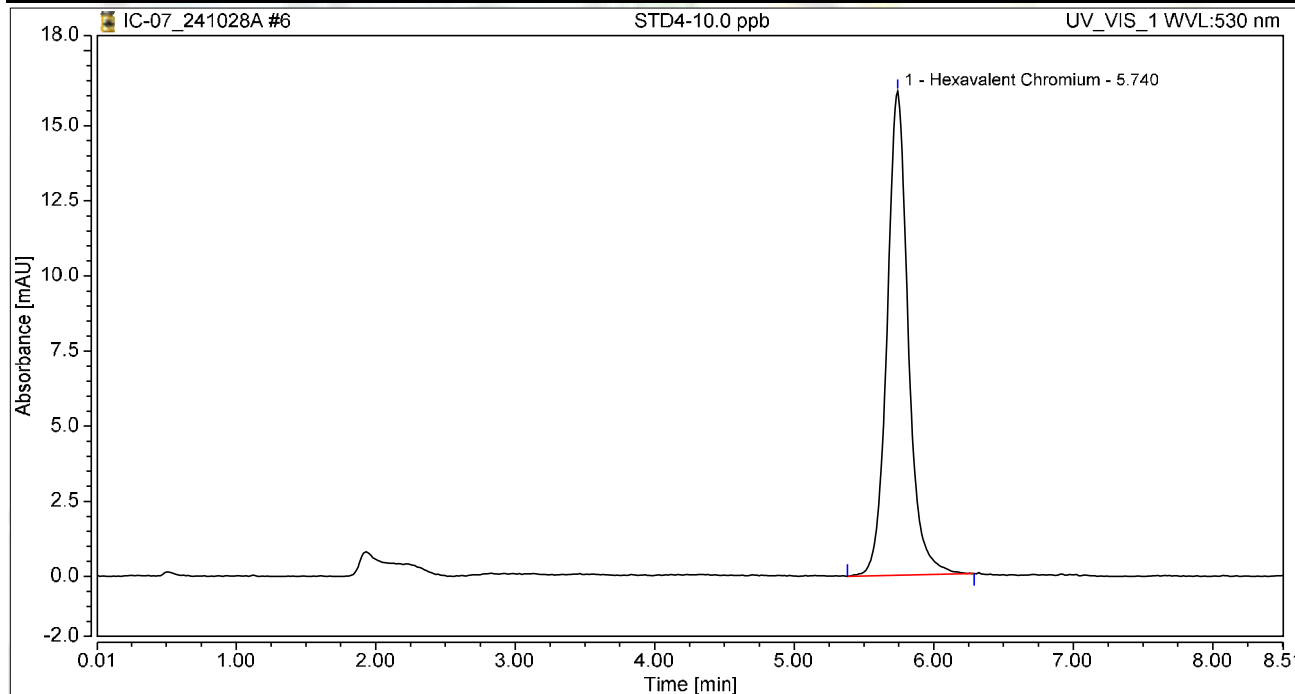
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	1.420	8.039	100.00	100.00	5.0028
Total:			1.420	8.039	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD4-10.0 ppb	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	04	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:21	Sample Weight:	1.0000

Chromatogram



Integration Results

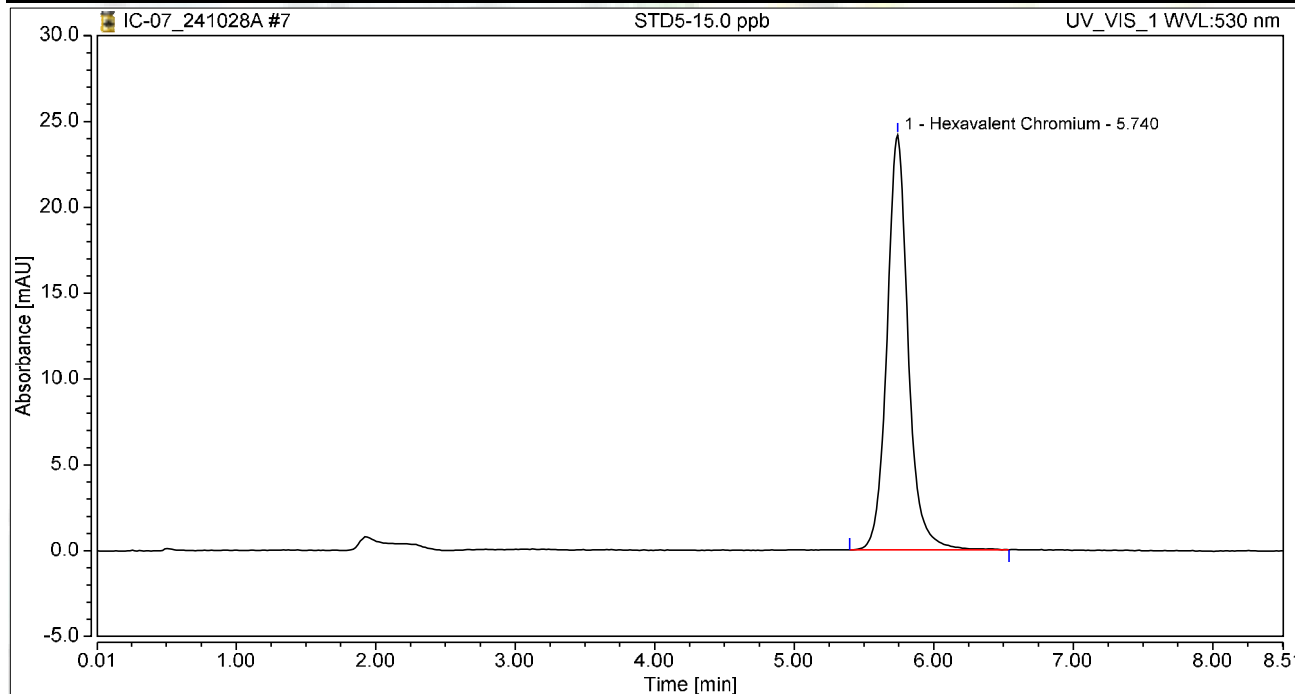
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	2.824	16.106	100.00	100.00	9.9507
Total:			2.824	16.106	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD5-15.0 ppb	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	05	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:30	Sample Weight:	1.0000

Chromatogram



Integration Results

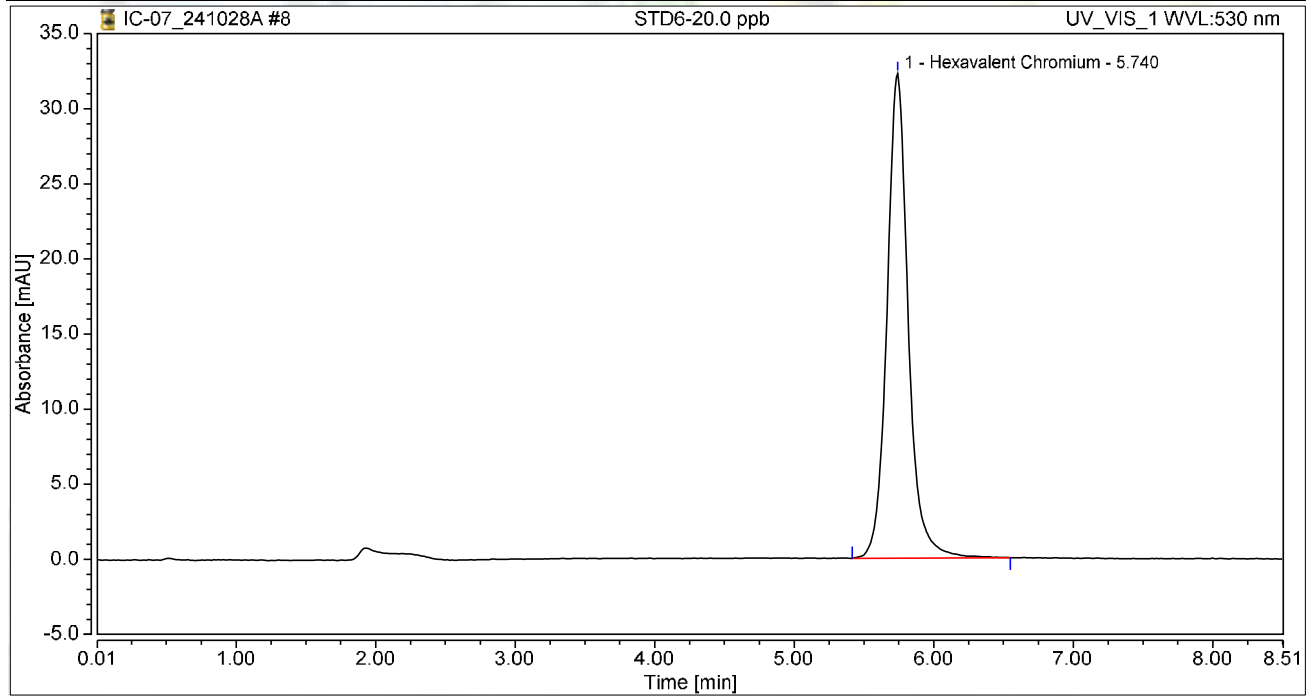
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	4.255	24.168	100.00	100.00	14.9966
Total:			4.255	24.168	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD6-20.0 ppb	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	06	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:40	Sample Weight:	1.0000

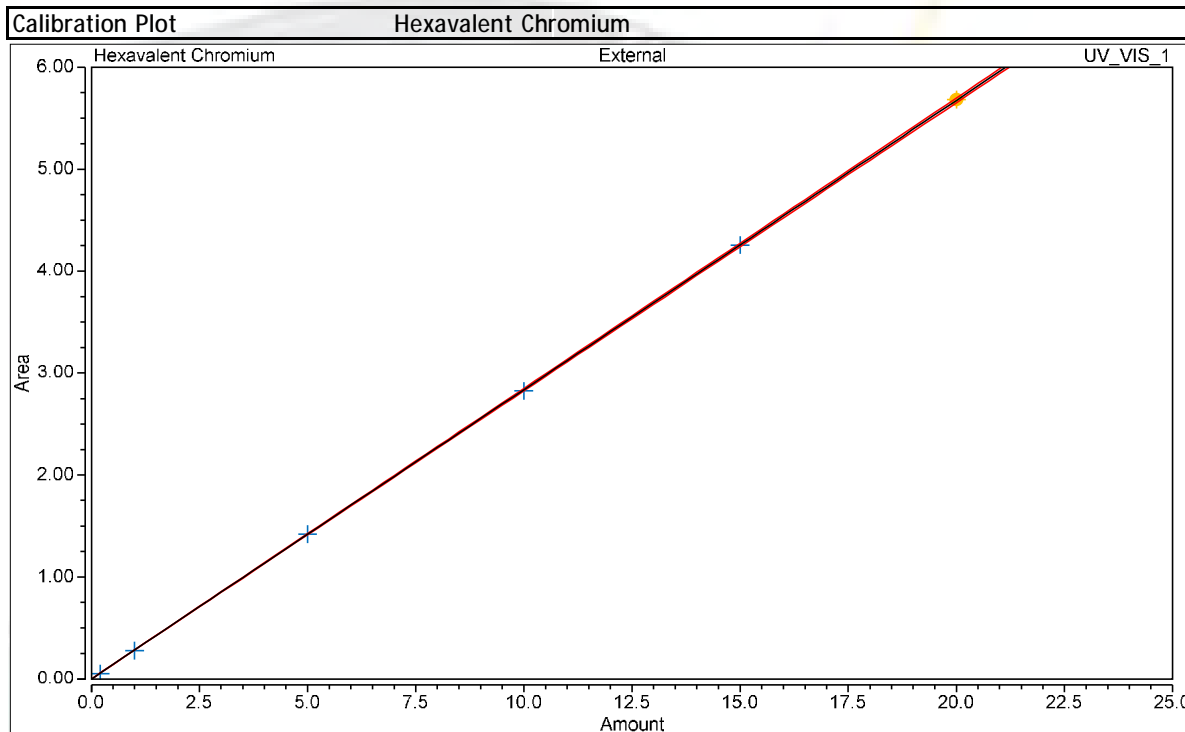
Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	5.683	32.257	100.00	100.00	20.0277
Total:			5.683	32.257	100.00	100.00	

Initial Calibration Summary			
Calibration Details		Hexavalent Chromium	
Calibration Type	Lin	Offset (C0)	0.0000
Evaluation Type	Area	Slope (C1)	0.2838
Number of Calibration Points	6	Curve (C2)	0.0000
Number of disabled Calibration Points	0	R-Square	0.99999



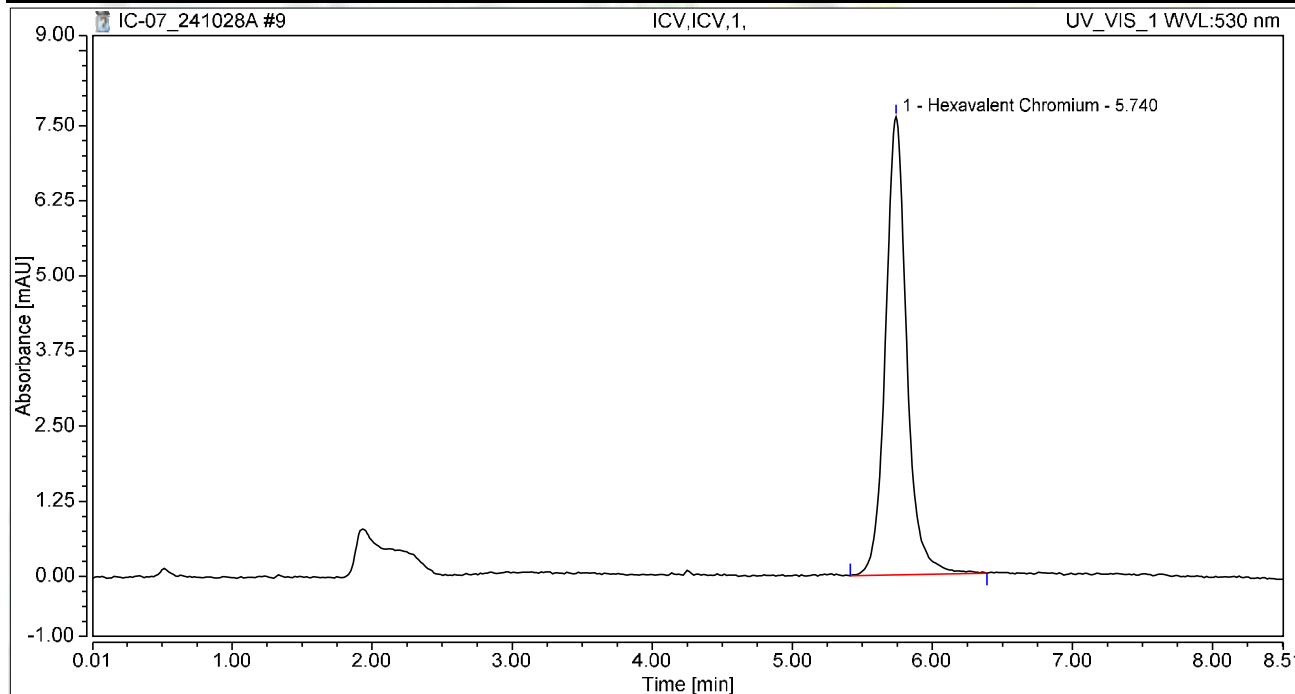
Calibration Results		Hexavalent Chromium				
No.	Injection Name	Calibration Level	X Value	Y Value	Area mAU*min	Height mAU
3	STD1-0.2 ppb	01	0.2000	0.0527	0.053	0.318
4	STD2-1.0 ppb	02	1.0000	0.2779	0.278	1.631
5	STD3-5.0 ppb	03	5.0000	1.4196	1.420	8.039
6	STD4-10.0 ppb	04	10.0000	2.8235	2.824	16.106
7	STD5-15.0 ppb	05	15.0000	4.2553	4.255	24.168
8	STD6-20.0 ppb	06	20.0000	5.6829	5.683	32.257

Chromatogram and Results

Injection Details

Injection Name:	ICV,ICV,1,	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:49	Sample Weight:	1.0000

Chromatogram



Integration Results

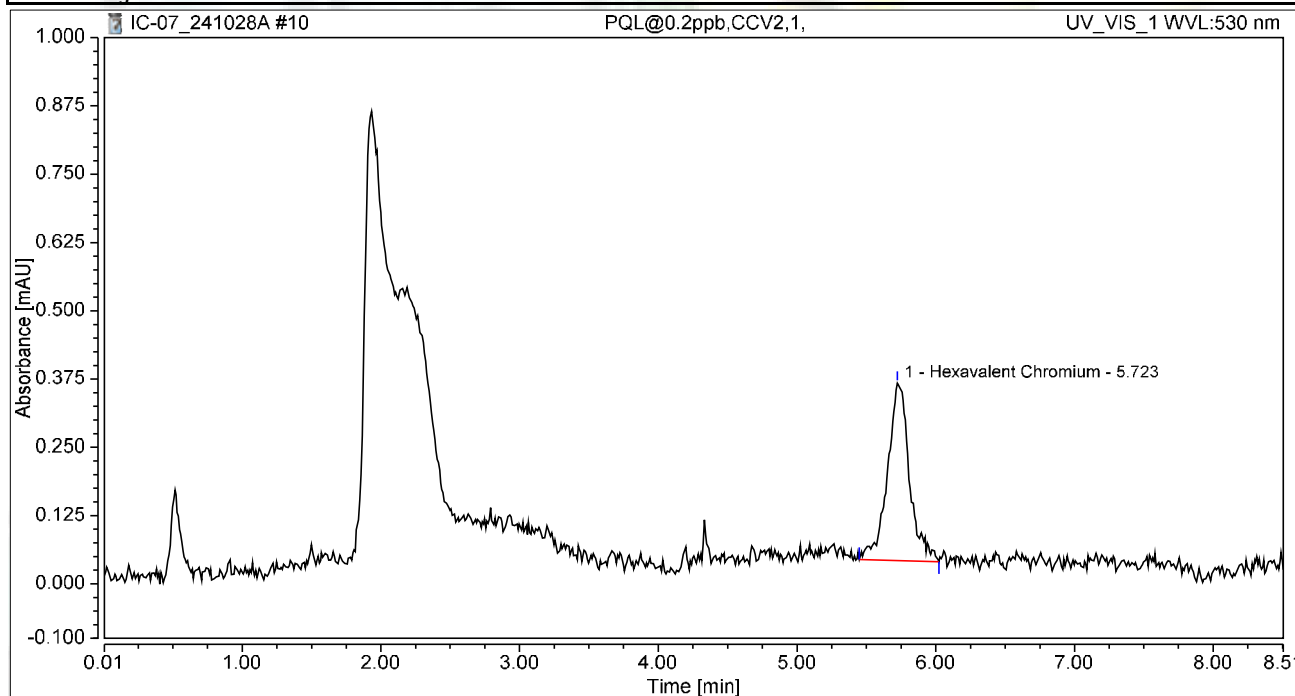
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	1.342	7.624	100.00	100.00	4.7300
Total:			1.342	7.624	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:59	Sample Weight:	1.0000

Chromatogram



Integration Results

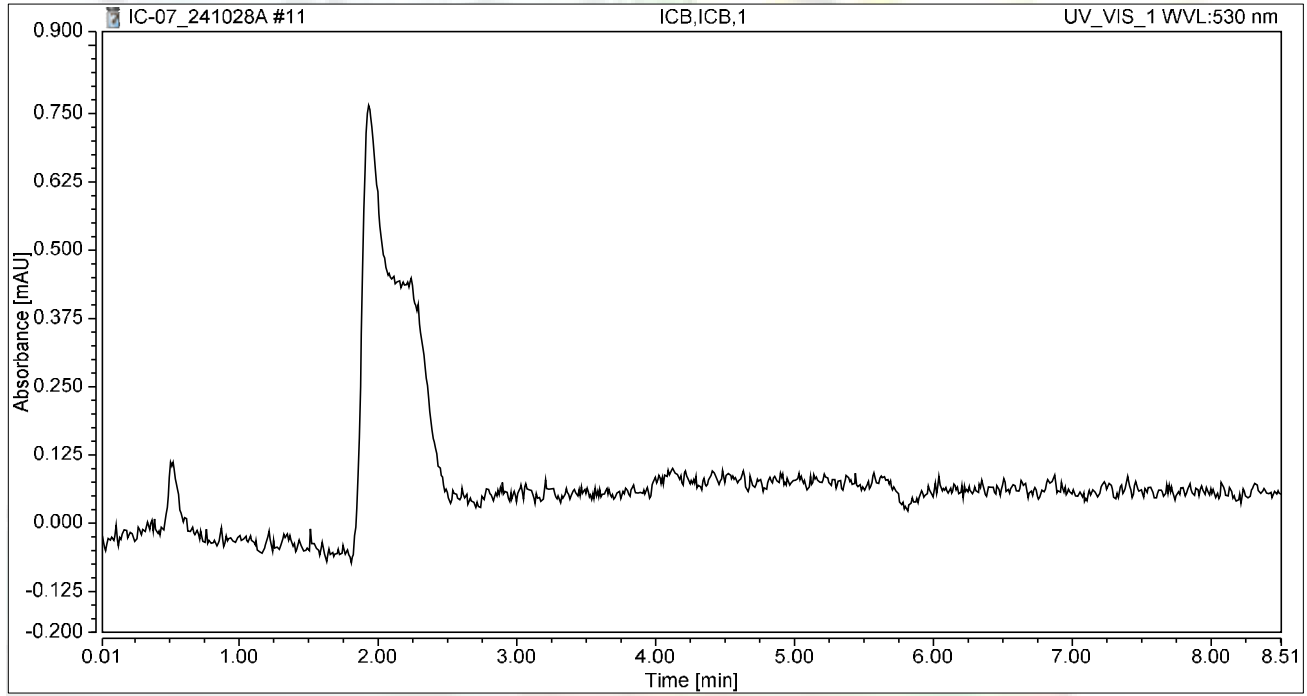
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.060	0.325	100.00	100.00	0.2110
Total:			0.060	0.325	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	ICB,ICB,1	Run Time (min):	8.49
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 11:08	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	



RAW DATA



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"Serving Clients with Passion and Professionalism"

INJECTION LOG: 241029A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	10/29/24 9:26 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	10/29/24 9:38 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/29/24 9:48 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	10/29/24 9:57 AM	Reported
13	MB-R194965	MBLK	1	Hexavalent Chromium	10/29/24 10:07 AM	Reported
14	LCS-R194965	LCS	1	Hexavalent Chromium	10/29/24 10:16 AM	Reported
15	N069498-005A	SAMP	100	Hexavalent Chromium	10/29/24 10:37 AM	Not Reported
16	N069498-005ADUP	DUP	100	Hexavalent Chromium	10/29/24 10:49 AM	Not Reported
17	N069498-006A	SAMP	1	Hexavalent Chromium	10/29/24 10:59 AM	Reported
18	N069498-006AMS	MS	1	Hexavalent Chromium	10/29/24 11:08 AM	Reported
19	N069498-001A	SAMP	5	Hexavalent Chromium	10/29/24 11:17 AM	Not Reported
20	N069498-001AMS	MS	5	Hexavalent Chromium	10/29/24 11:27 AM	Not Reported
21	N069498-005AMS	MS	100	Hexavalent Chromium	10/29/24 11:36 AM	Not Reported
22	N069498-005AMSD	MSD	100	Hexavalent Chromium	10/29/24 11:46 AM	Not Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	10/29/24 11:55 AM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	10/29/24 12:05 PM	Reported
25	N069498-002A	SAMP	5	Hexavalent Chromium	10/29/24 12:14 PM	Reported
26	N069498-002AMS	MS	5	Hexavalent Chromium	10/29/24 12:24 PM	Reported
27	N069498-007A	SAMP	5	Hexavalent Chromium	10/29/24 12:33 PM	Reported
28	N069498-007AMS	MS	5	Hexavalent Chromium	10/29/24 12:43 PM	Reported
29	N069498-008A	SAMP	5	Hexavalent Chromium	10/29/24 12:52 PM	Reported
30	N069498-008AMS	MS	5	Hexavalent Chromium	10/29/24 1:01 PM	Reported
31	N069509-001A	SAMP	1	Hexavalent Chromium	10/29/24 1:11 PM	Reported
32	N069510-001B	SAMP	1	Hexavalent Chromium	10/29/24 1:20 PM	Reported
33	N069498-003A	SAMP	5	Hexavalent Chromium	10/29/24 1:30 PM	Reported
34	N069498-003AMS	MS	5	Hexavalent Chromium	10/29/24 1:39 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	10/29/24 1:49 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	10/29/24 1:58 PM	Reported
37	N069498-004A	SAMP	1	Hexavalent Chromium	10/29/24 2:08 PM	Reported
38	N069498-004AMS	MS	1	Hexavalent Chromium	10/29/24 2:17 PM	Reported
39	N069498-009A	SAMP	1	Hexavalent Chromium	10/29/24 2:27 PM	Reported
40	N069498-009AMS	MS	1	Hexavalent Chromium	10/29/24 2:36 PM	Reported
41	N069498-003A	SAMP	1	Hexavalent Chromium	10/29/24 2:46 PM	Not Reported
42	N069498-003AMS	MS	1	Hexavalent Chromium	10/29/24 2:55 PM	Not Reported

INJECTION LOG: 241029A**Instrument ID: NV00922-IC7**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069498-006A	SAMP	5	Hexavalent Chromium	10/29/24 3:04 PM	Not Reported
44	N069498-006AMS	MS	5	Hexavalent Chromium	10/29/24 3:14 PM	Not Reported
45	N069498-001A	SAMP	20	Hexavalent Chromium	10/29/24 3:23 PM	Not Reported
46	N069498-001AMS	MS	20	Hexavalent Chromium	10/29/24 3:33 PM	Not Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	10/29/24 3:42 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	10/29/24 3:52 PM	Reported
49	N069498-005A	SAMP	100	Hexavalent Chromium	10/29/24 4:01 PM	Reported
50	N069498-005ADUP	DUP	100	Hexavalent Chromium	10/29/24 4:11 PM	Reported
51	N069498-005AMS	MS	100	Hexavalent Chromium	10/29/24 4:20 PM	Reported
52	N069498-005AMSD	MSD	100	Hexavalent Chromium	10/29/24 4:30 PM	Reported
53	CCV-5	CCV	1	Hexavalent Chromium	10/29/24 4:39 PM	Reported
54	CCB-5	CCB	1	Hexavalent Chromium	10/29/24 4:49 PM	Reported
55	BLANK	BLANK	1	Hexavalent Chromium	10/29/24 4:58 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241029A	Created On:	24Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	29/Oct/24 17:28:46
No. of Injections:	58	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	BLANK	1	1000	Unknown		10/29/2024 09:26	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		10/29/2024 09:38	Finished	CCV @5ppb, IWST-240729A
11	PQL@0.2ppb,CCV2,	3	1000	Unknown		10/29/2024 09:48	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		10/29/2024 09:57	Finished	CCB R241001A
13	MB-H2O,MBLK,1,	5	1000	Unknown		10/29/2024 10:07	Finished	MB R241001A
14	LCS-H2O,LCS,1,	6	1000	Unknown		10/29/2024 10:16	Finished	LCS @5ppb, IWST-240729B
15	N069498-005A,SAMP	1	1000	Unknown		10/29/2024 10:37	Finished	SAMP,0.1>10 mL
16	N069498-005ADUP,D	2	1000	Unknown		10/29/2024 10:49	Finished	DUP,0.1>10 mL
17	N069498-006A,SAMP	3	1000	Unknown		10/29/2024 10:59	Finished	SAMP,10 mL
18	N069498-006AMS,MS	4	1000	Unknown		10/29/2024 11:08	Finished	MS (1ppb), IWST-240729B,10r
19	N069498-001A,SAMP	5	1000	Unknown		10/29/2024 11:17	Finished	SAMP,2>10 mL
20	N069498-001AMS,MS	6	1000	Unknown		10/29/2024 11:27	Finished	MS (5ppb), IWST-240729B,0.1
21	N069498-005AMS,MS	7	1000	Unknown		10/29/2024 11:36	Finished	MSD (5ppb), IWST-240729B,0
22	N069498-005AMSD,N	8	1000	Unknown		10/29/2024 11:46	Finished	DUP,10 mL
23	CCV-2,CCV1,1,	9	1000	Unknown		10/29/2024 11:55	Finished	CCV @10ppb, IWST-240729A
24	CCB-2,CCB,1,	10	1000	Unknown		10/29/2024 12:05	Finished	CCB R241001A
25	N069498-002A,SAMP	11	1000	Unknown		10/29/2024 12:14	Finished	SAMP,2>10 mL
26	N069498-002AMS,MS	12	1000	Unknown		10/29/2024 12:24	Finished	MS (5ppb), IWST-240729B,2>
27	N069498-007A,SAMP	13	1000	Unknown		10/29/2024 12:33	Finished	SAMP,2>10 mL
28	N069498-007AMS,MS	14	1000	Unknown		10/29/2024 12:43	Finished	MS (5ppb), IWST-240729B,2>
29	N069498-008A,SAMP	15	1000	Unknown		10/29/2024 12:52	Finished	SAMP,2>10 mL
30	N069498-008AMS,MS	16	1000	Unknown		10/29/2024 13:01	Finished	MS (5ppb), IWST-240729B,2>
31	N069509-001A,SAMP	17	1000	Unknown		10/29/2024 13:11	Finished	SAMP,10 mL
32	N069510-001B,SAMP	18	1000	Unknown		10/29/2024 13:20	Finished	SAMP,10 mL
33	N069498-003A,SAMP	19	1000	Unknown		10/29/2024 13:30	Finished	SAMP,2>10 mL
34	N069498-003AMS,MS	20	1000	Unknown		10/29/2024 13:39	Finished	MS (1ppb), IWST-240729B,2>
35	CCV-3,CCV,1,	21	1000	Unknown		10/29/2024 13:49	Finished	CCV @5ppb, IWST-240729A
36	CCB-3,CCB,1,	22	1000	Unknown		10/29/2024 13:58	Finished	CCB R241001A
37	N069498-004A,SAMP	23	1000	Unknown		10/29/2024 14:08	Finished	SAMP,10 mL
38	N069498-004AMS,MS	24	1000	Unknown		10/29/2024 14:17	Finished	MS (1ppb), IWST-240729B,10r
39	N069498-009A,SAMP	25	1000	Unknown		10/29/2024 14:27	Finished	SAMP,10 mL
40	N069498-009AMS,MS	26	1000	Unknown		10/29/2024 14:36	Finished	MS (1ppb), IWST-240729B,10r
41	N069498-003A,SAMP	27	1000	Unknown		10/29/2024 14:46	Finished	SAMP,10 mL
42	N069498-003AMS,MS	28	1000	Unknown		10/29/2024 14:55	Finished	MS (1ppb), IWST-240729B,10r
43	N069498-006A,SAMP	29	1000	Unknown		10/29/2024 15:04	Finished	SAMP,2>10 mL
44	N069498-006AMS,MS	30	1000	Unknown		10/29/2024 15:14	Finished	MS (1ppb), IWST-240729B,2>
45	N069498-001A,SAMP	31	1000	Unknown		10/29/2024 15:23	Finished	SAMP,0.5>10 mL
46	N069498-001AMS,MS	32	1000	Unknown		10/29/2024 15:33	Finished	MS (5ppb), IWST-240729B,0.5
47	CCV-4,CCV1,1,	33	1000	Unknown		10/29/2024 15:42	Finished	CCV @10ppb, IWST-240729A
48	CCB-4,CCB,1,	34	1000	Unknown		10/29/2024 15:52	Finished	CCB R241001A
49	N069498-005A,SAMP	35	1000	Unknown		10/29/2024 16:01	Finished	SAMP,0.1>10 mL
50	N069498-005ADUP,D	36	1000	Unknown		10/29/2024 16:11	Finished	DUP,0.1>10 mL
51	N069498-005AMS,MS	37	1000	Unknown		10/29/2024 16:20	Finished	MS (5ppb), IWST-240729B,0.1
52	N069498-005AMSD,N	38	1000	Unknown		10/29/2024 16:30	Finished	MSD (5ppb), IWST-240729B,0
53	CCV-5,CCV,1,	39	1000	Unknown		10/29/2024 16:39	Finished	CCV @5ppb, IWST-240729A
54	CCB-5,CCB,1,	40	1000	Unknown		10/29/2024 16:49	Finished	CCB R241001A
55	BLANK	41	1000	Unknown		10/29/2024 16:58	Finished	BLANK
56	SHUTDOWN	42	1000	Unknown		10/29/2024 17:07	Finished	
57	Eluent: R241029A	43	1000	Unknown		n.a.	Finished	
58	PCR: R241029B	44	1000	Unknown		n.a.	Finished	

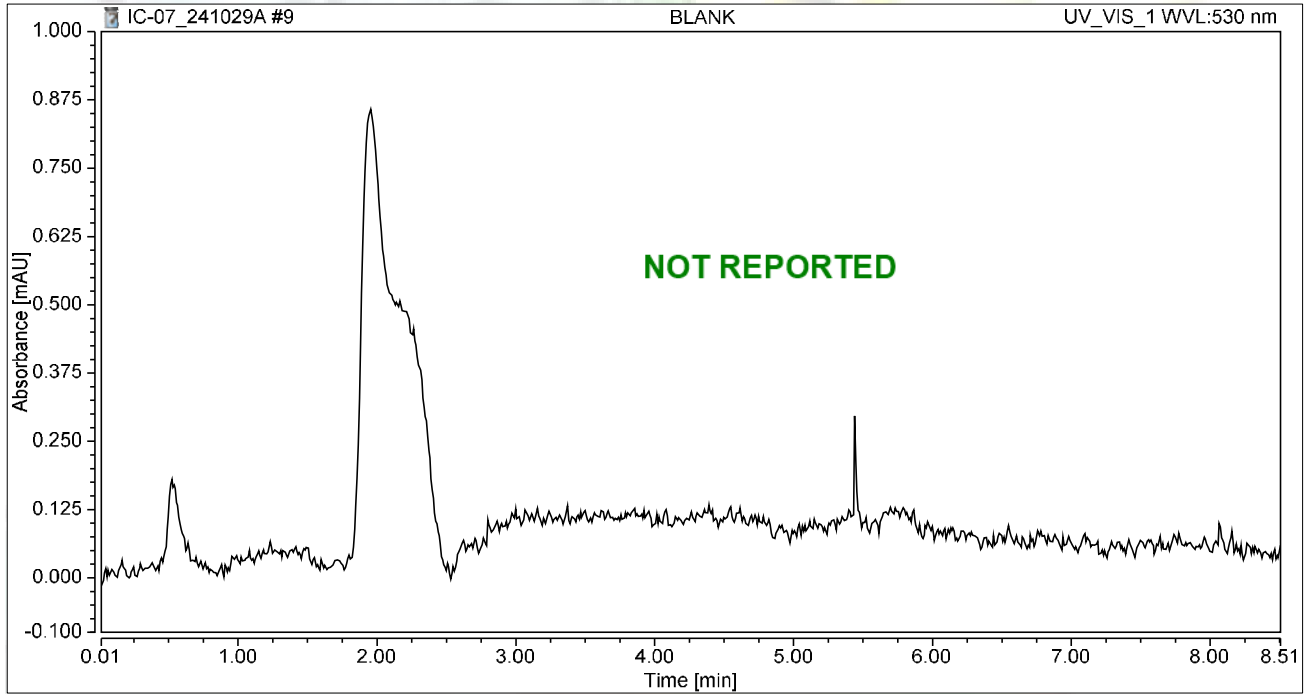
Reviewed by:

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 09:26	Sample Weight:	1.0000

Chromatogram



Integration Results

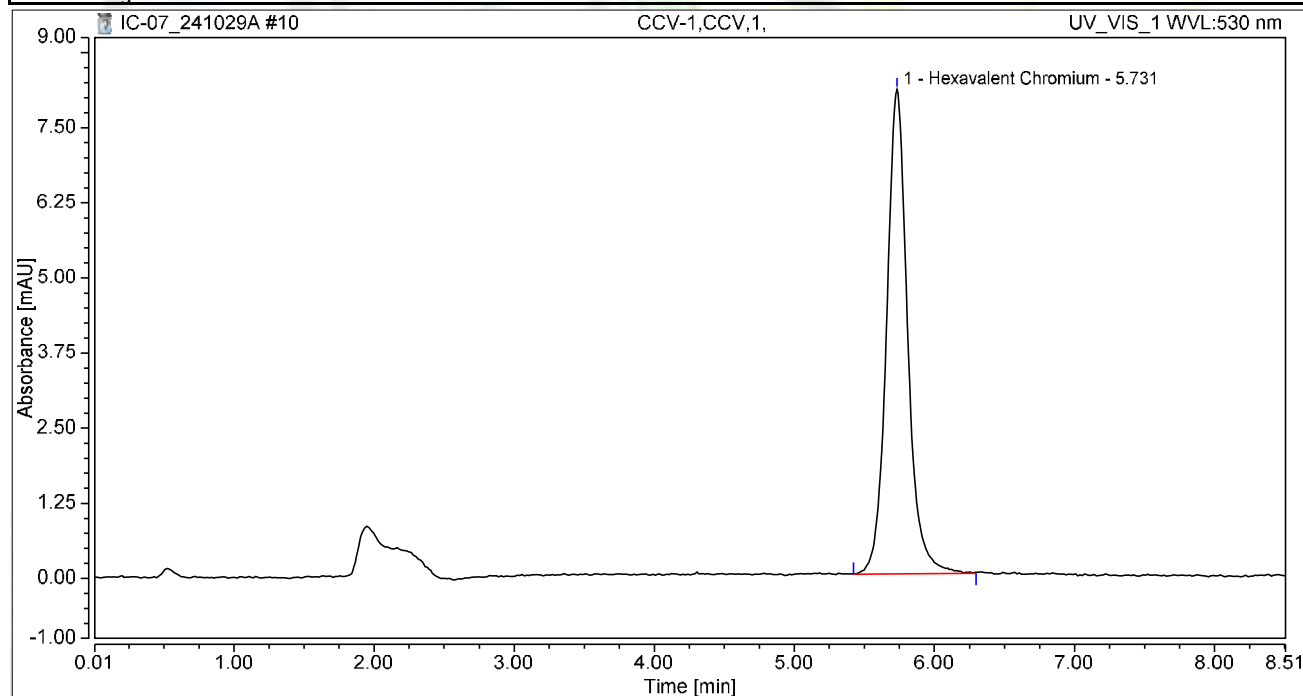
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-1,CCV,1,	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 09:38	Sample Weight:	1.0000

Chromatogram



Integration Results

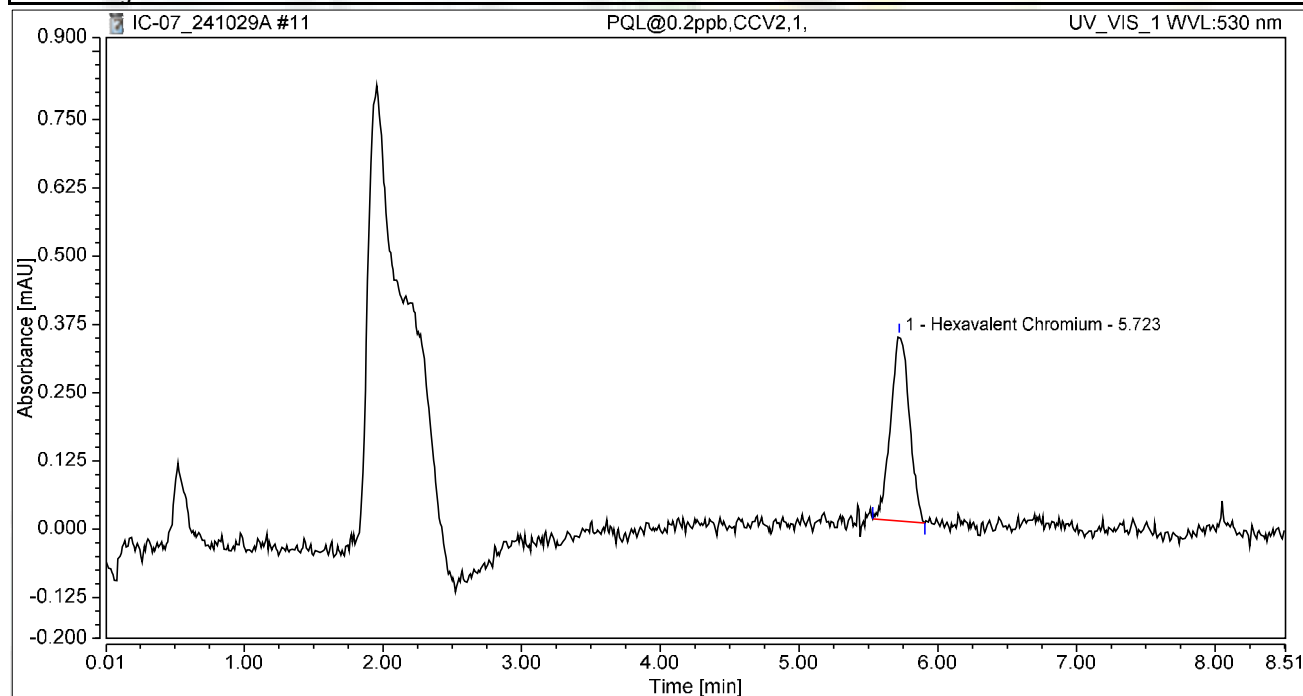
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	1.398	8.060	100.00	100.00	4.9283
Total:			1.398	8.060	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 09:48	Sample Weight:	1.0000

Chromatogram



Integration Results

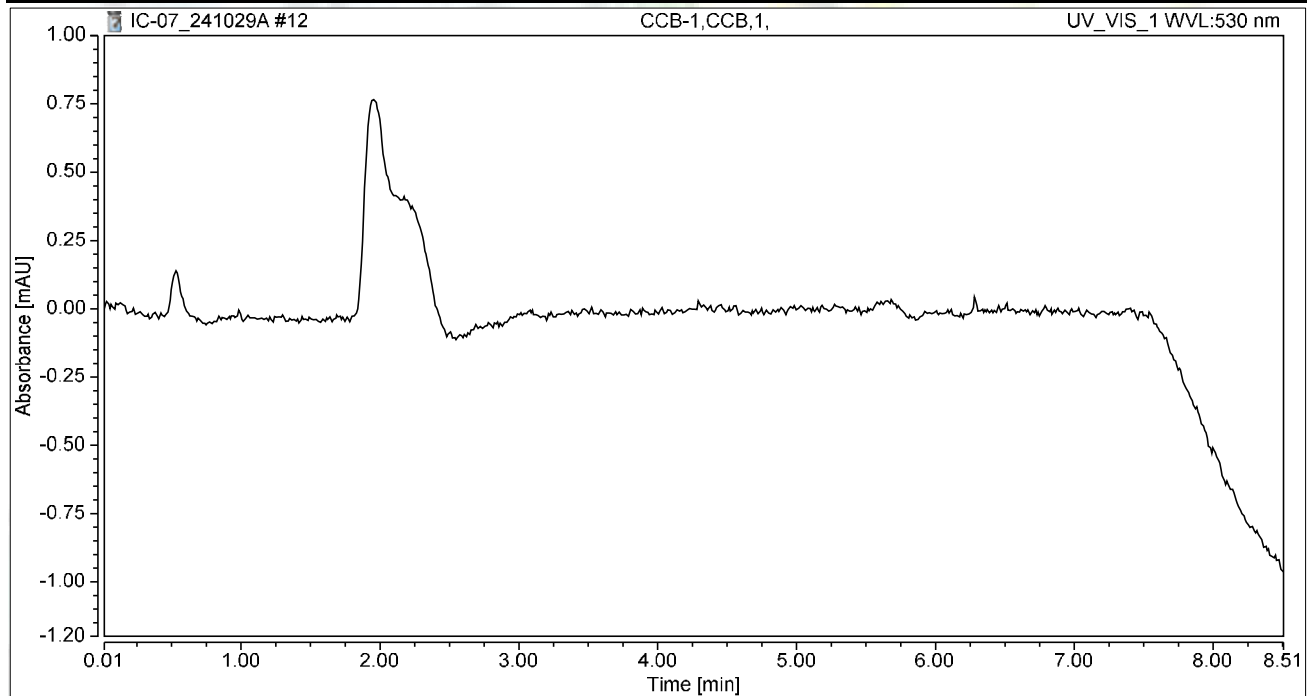
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.053	0.339	100.00	100.00	0.1874
Total:			0.053	0.339	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-1,CCB,1,	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 09:57	Sample Weight:	1.0000

Chromatogram



Integration Results

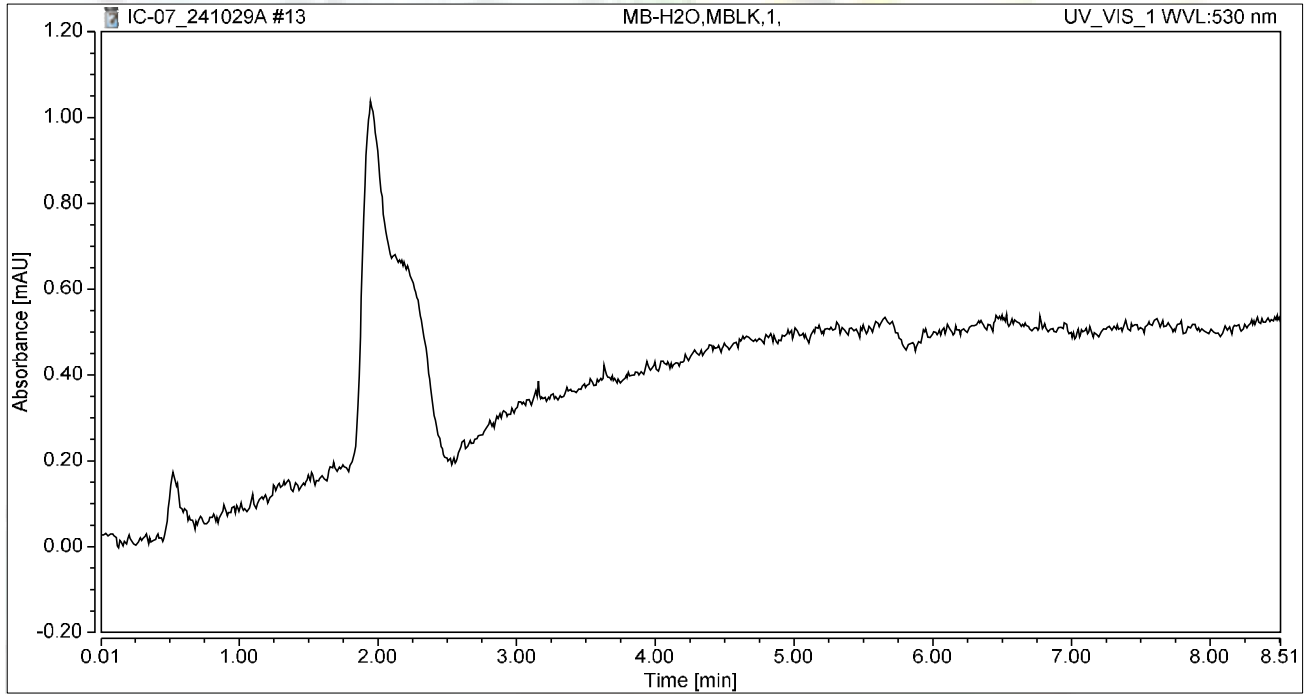
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	n.a.
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 10:07	Sample Weight:	1.0000

Chromatogram



Integration Results

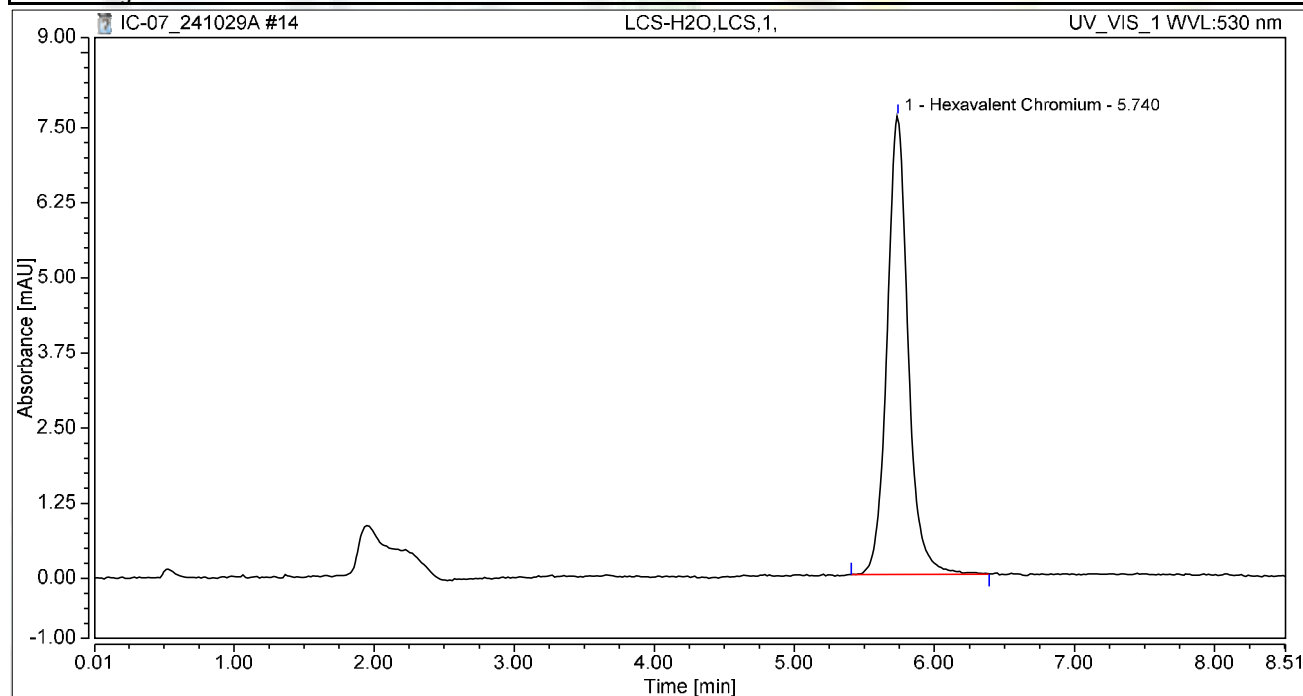
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-H2O,LCS,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	n.a.
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 10:16	Sample Weight:	1.0000

Chromatogram



Integration Results

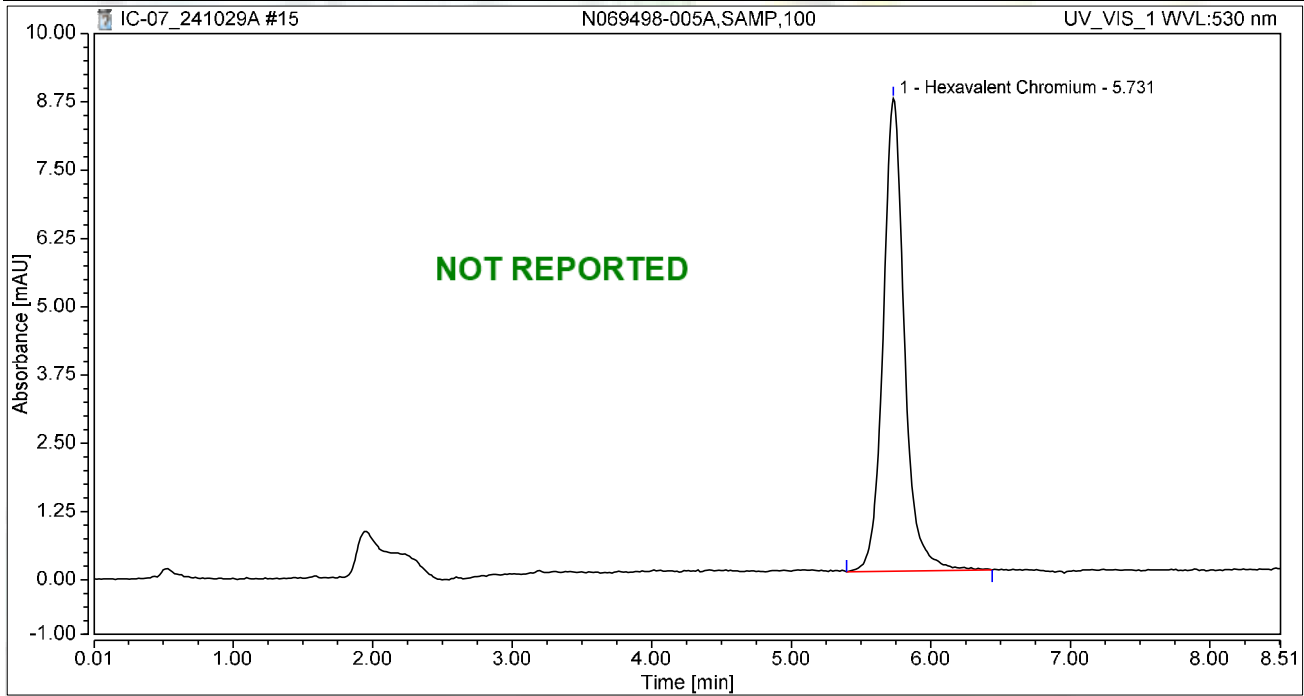
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	1.329	7.628	100.00	100.00	4.6846
Total:			1.329	7.628	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069498-005A,SAMP,100	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 10:37	Sample Weight:	1.0000

Chromatogram



Integration Results

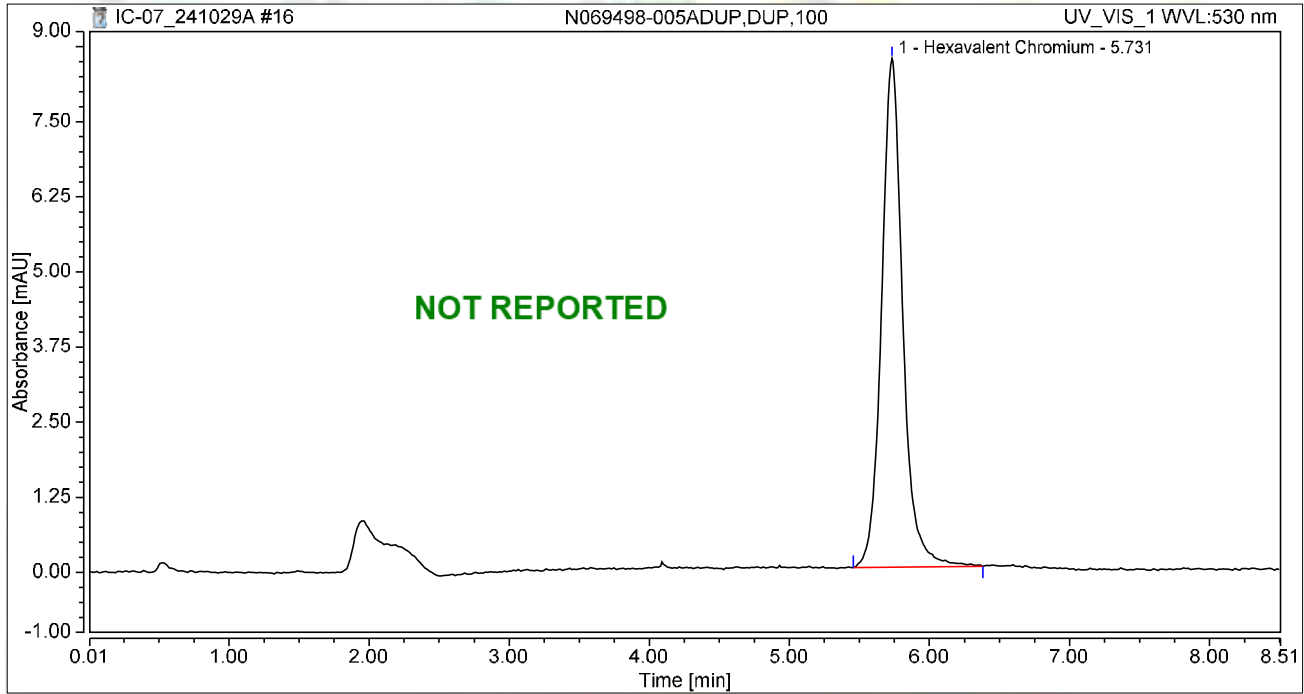
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	1.530	8.653	100.00	100.00	5.3930
Total:			1.530	8.653	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069498-005ADUP,DUP,100	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 10:49	Sample Weight:	1.0000

Chromatogram



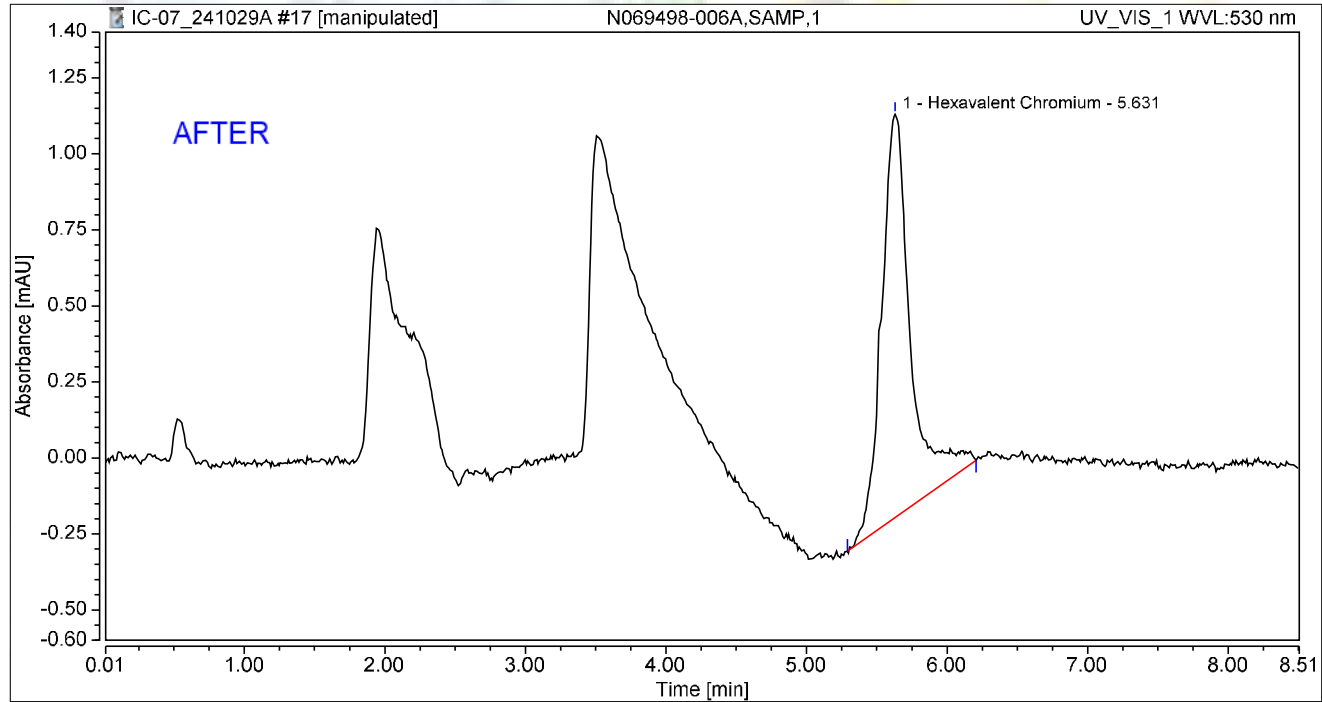
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	1.482	8.465	100.00	100.00	5.2214
Total:			1.482	8.465	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069498-006A,SAMP,1	Run Time (min): 8.49
Vial Number:	3	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	29/Oct/24 10:59	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.631	0.316	1.325	100.00	100.00	1.1129
Total:			0.316	1.325	100.00	100.00	

Reviewed by:

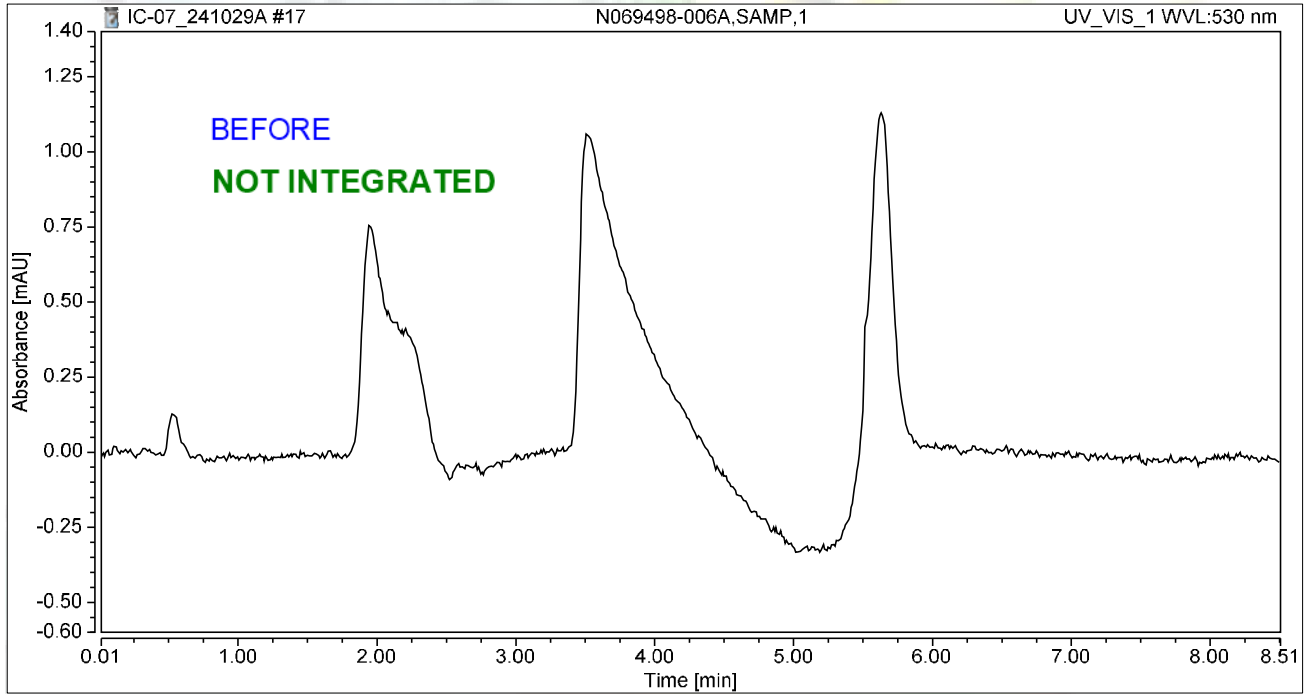
M. Rocha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069498-006A,SAMP,1	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 10:59	Sample Weight:	1.0000

Chromatogram



Integration Results

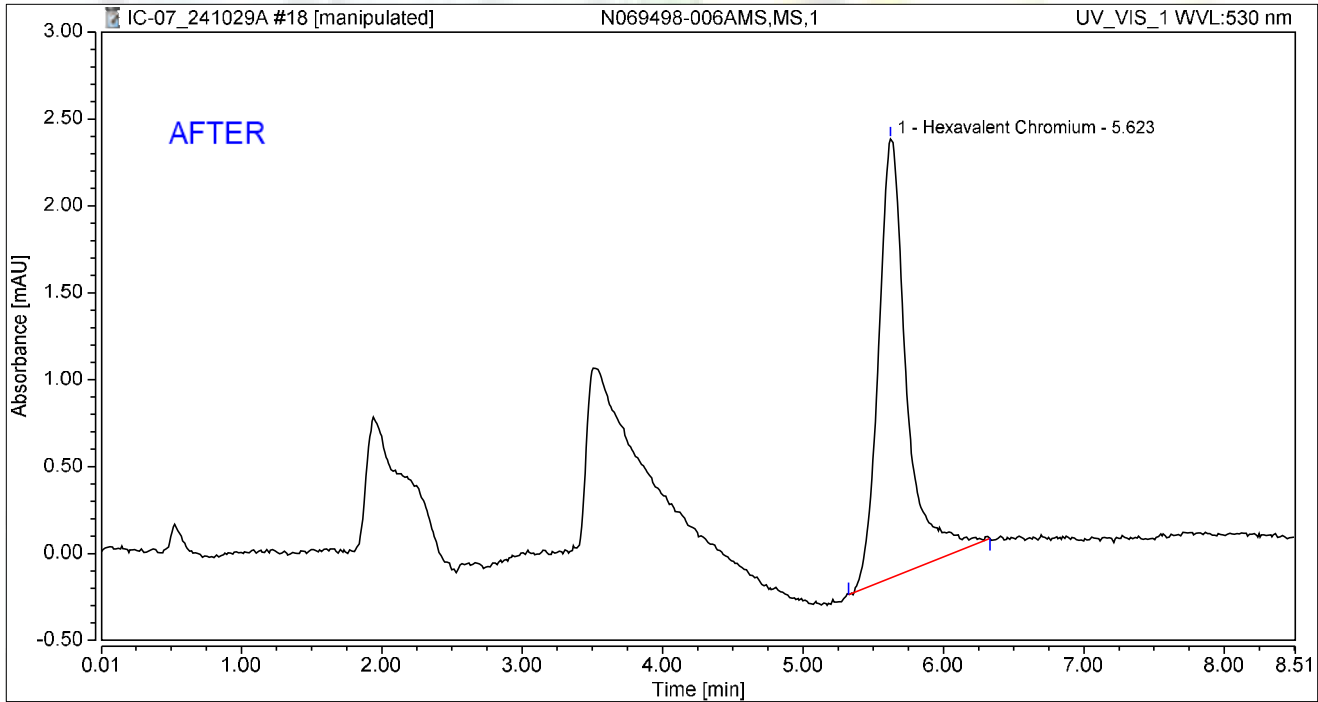
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069498-006AMS,MS,1	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 11:08	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.623	0.586	2.527	100.00	100.00	2.0661
Total:			0.586	2.527	100.00	100.00	

Reviewed by:

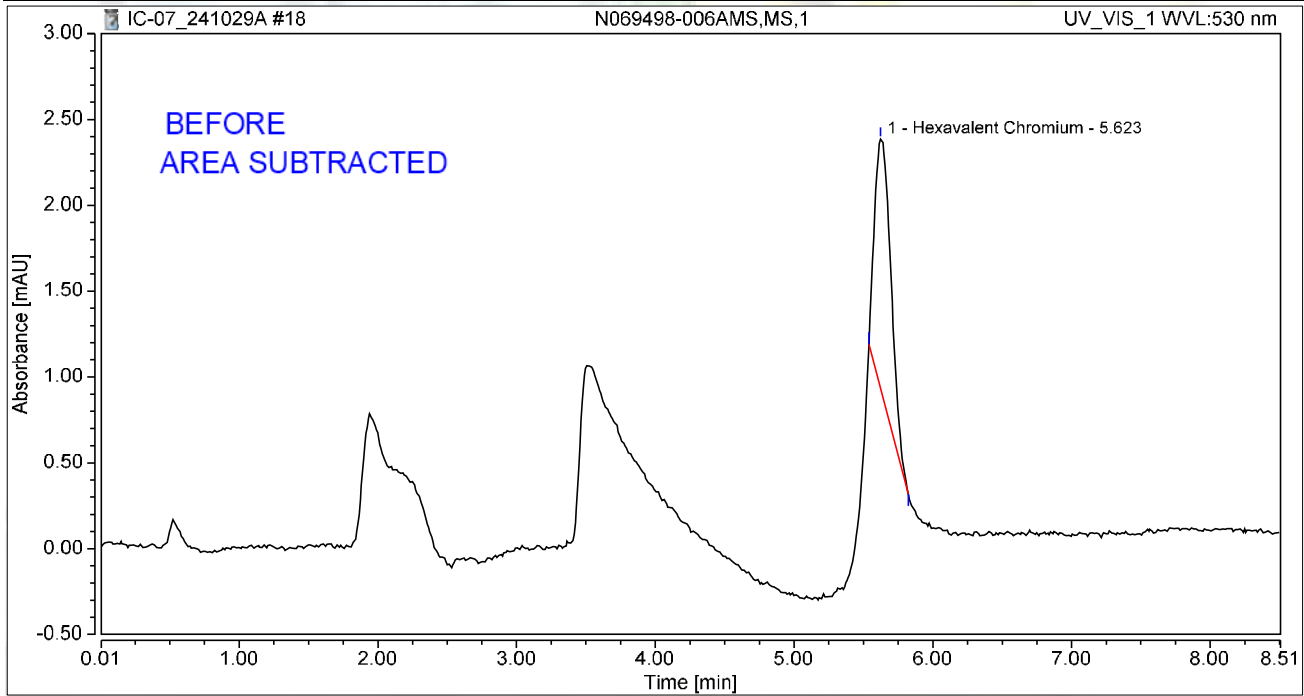
d/Rocha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069498-006AMS,MS,1	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 11:08	Sample Weight:	1.0000

Chromatogram



Integration Results

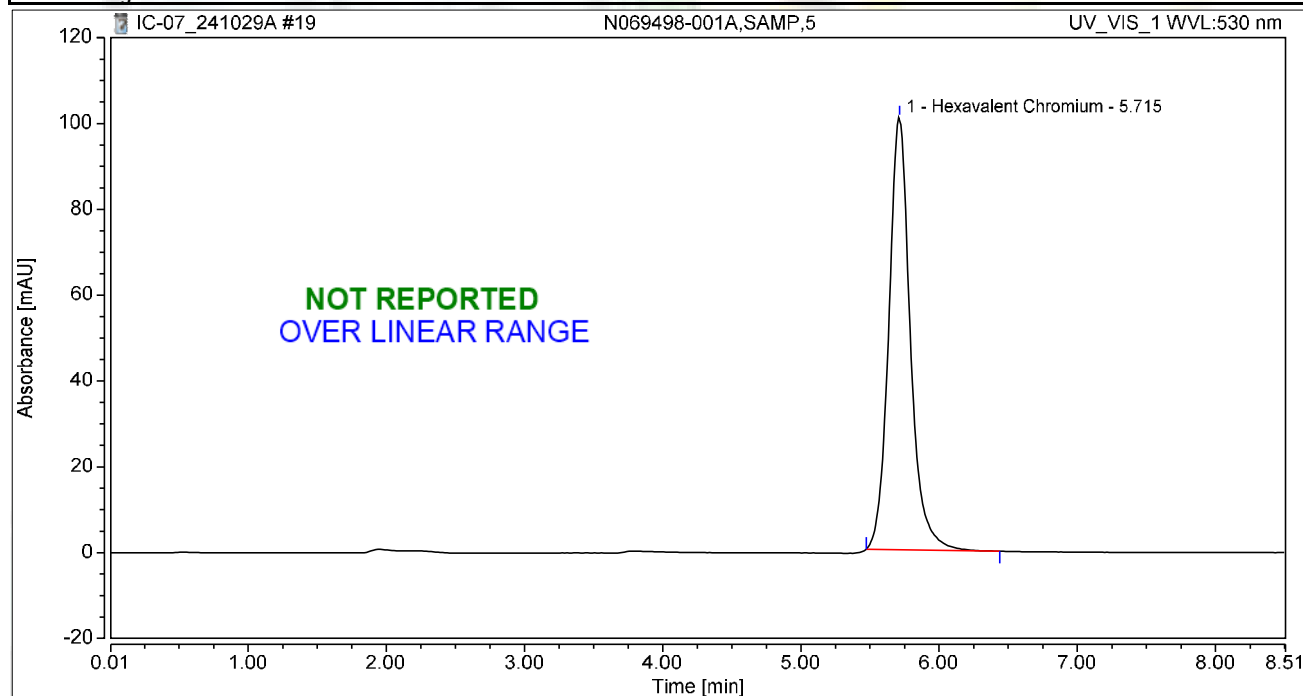
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.623	0.202	1.452	100.00	100.00	0.7108
Total:			0.202	1.452	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069498-001A,SAMP,5	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 11:17	Sample Weight:	1.0000

Chromatogram



Integration Results

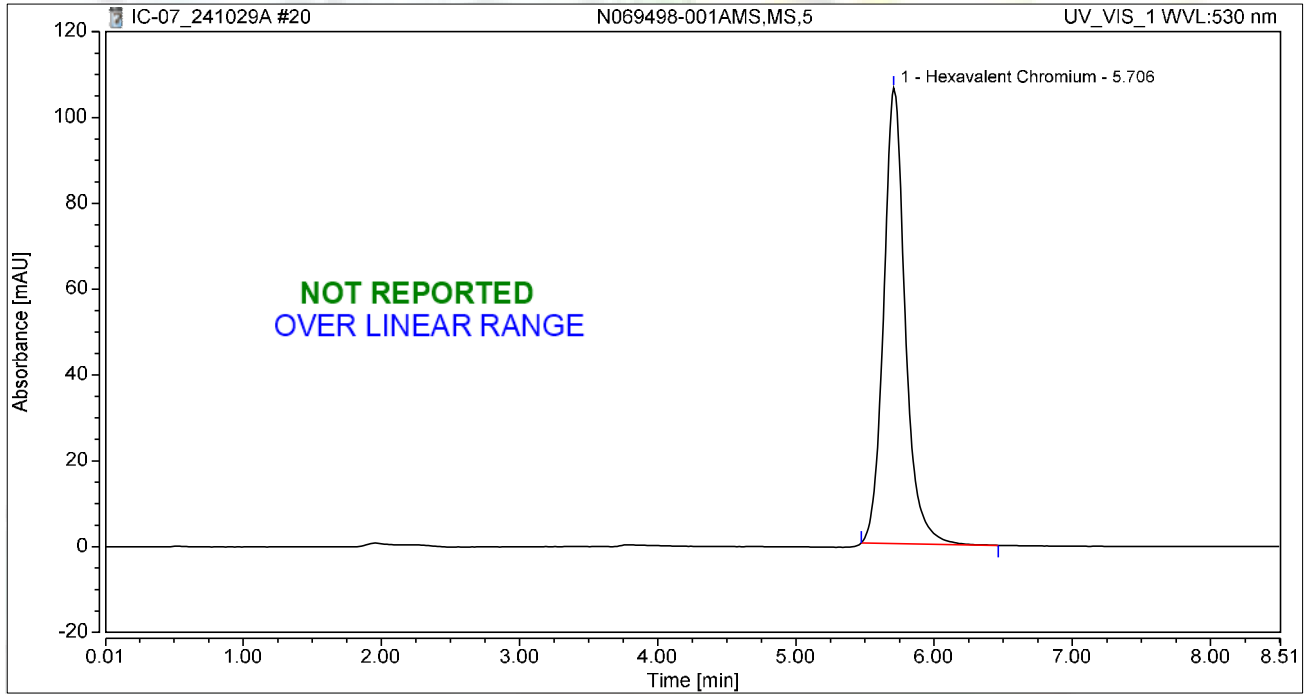
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	18.199	100.699	100.00	100.00	64.1387
Total:			18.199	100.699	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069498-001AMS,MS,5	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	n.a.
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 11:27	Sample Weight:	1.0000

Chromatogram



Integration Results

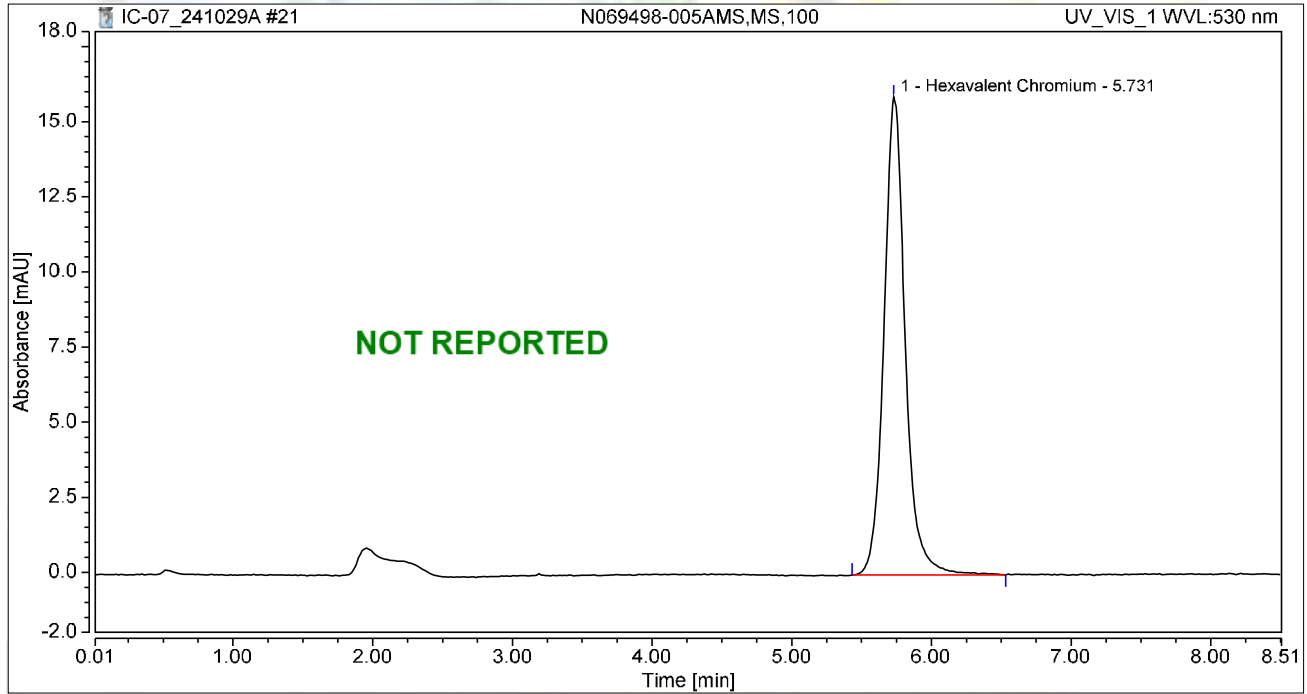
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	19.153	106.142	100.00	100.00	67.4981
Total:			19.153	106.142	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069498-005AMS,MS,100	Run Time (min):	8.49
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	n.a.
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 11:36	Sample Weight:	1.0000

Chromatogram



Integration Results

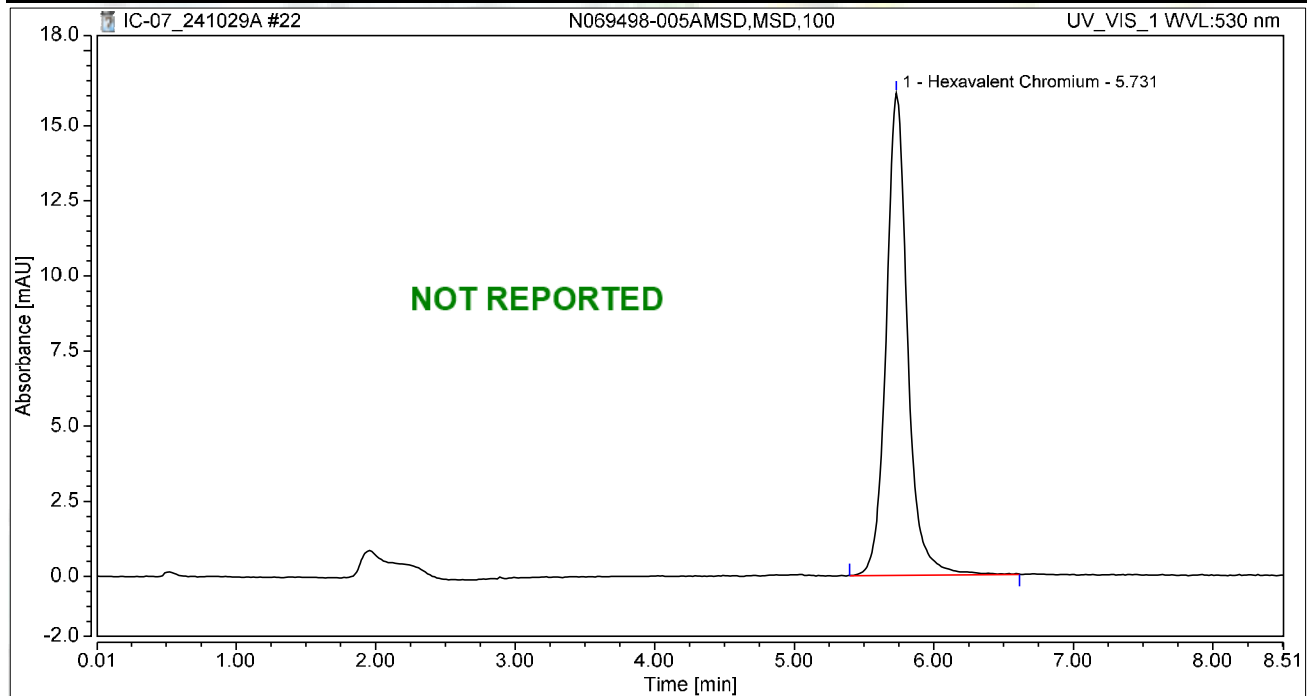
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	2.798	15.912	100.00	100.00	9.8604
Total:			2.798	15.912	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069498-005AMSD,MSD,100	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 11:46	Sample Weight:	1.0000

Chromatogram



Integration Results

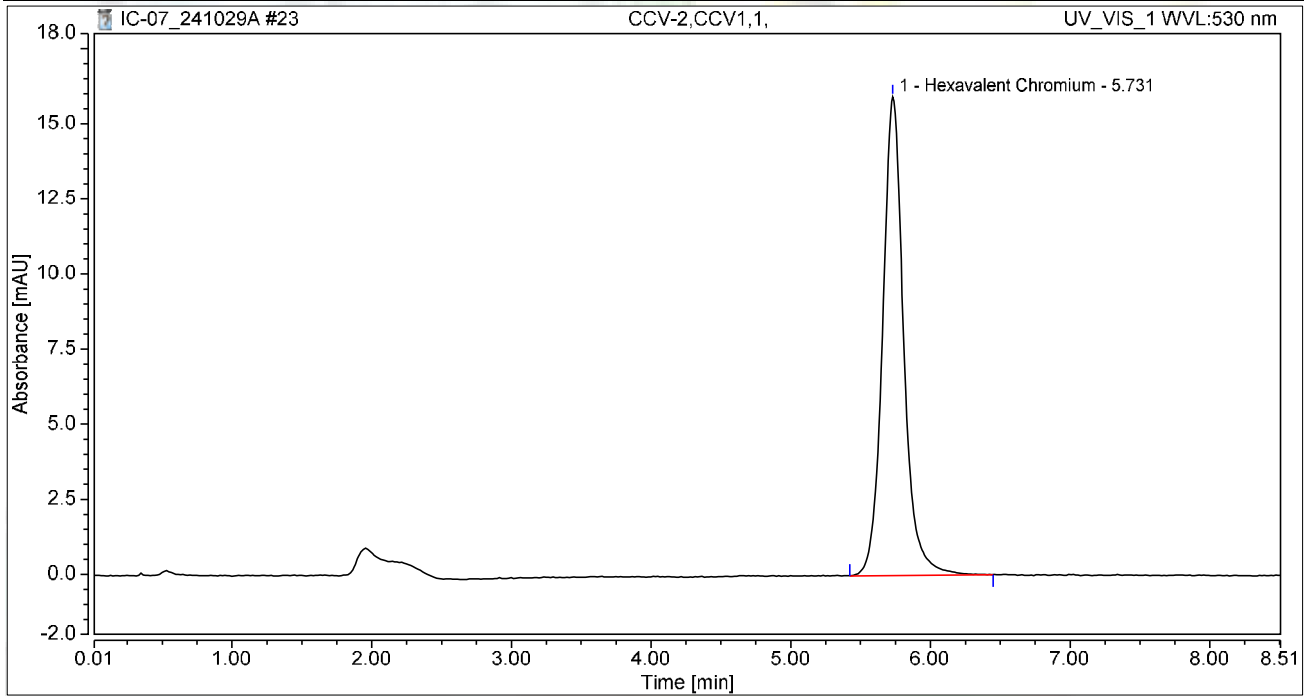
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	2.838	16.048	100.00	100.00	10.0014
Total:			2.838	16.048	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-2,CCV1,1,	Run Time (min):	8.49
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 11:55	Sample Weight:	1.0000

Chromatogram



Integration Results

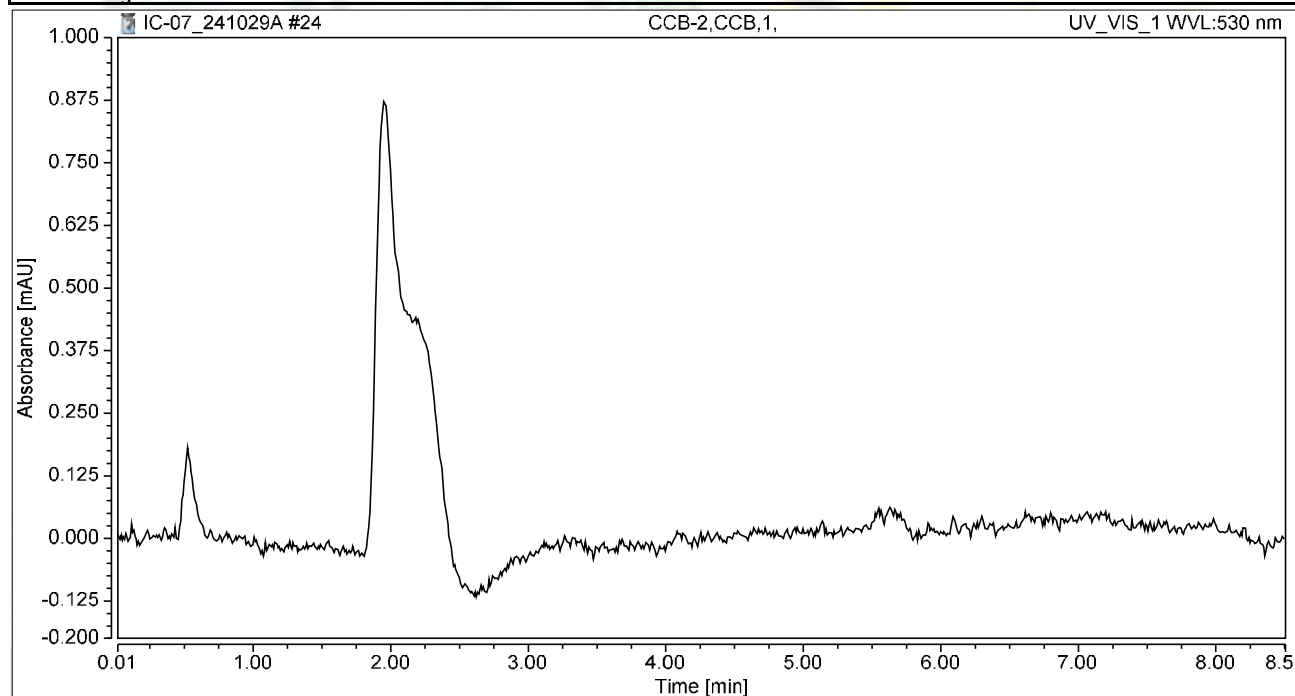
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	2.790	15.945	100.00	100.00	9.8324
Total:			2.790	15.945	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-2,CCB,1,	Run Time (min):	8.49
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 12:05	Sample Weight:	1.0000

Chromatogram



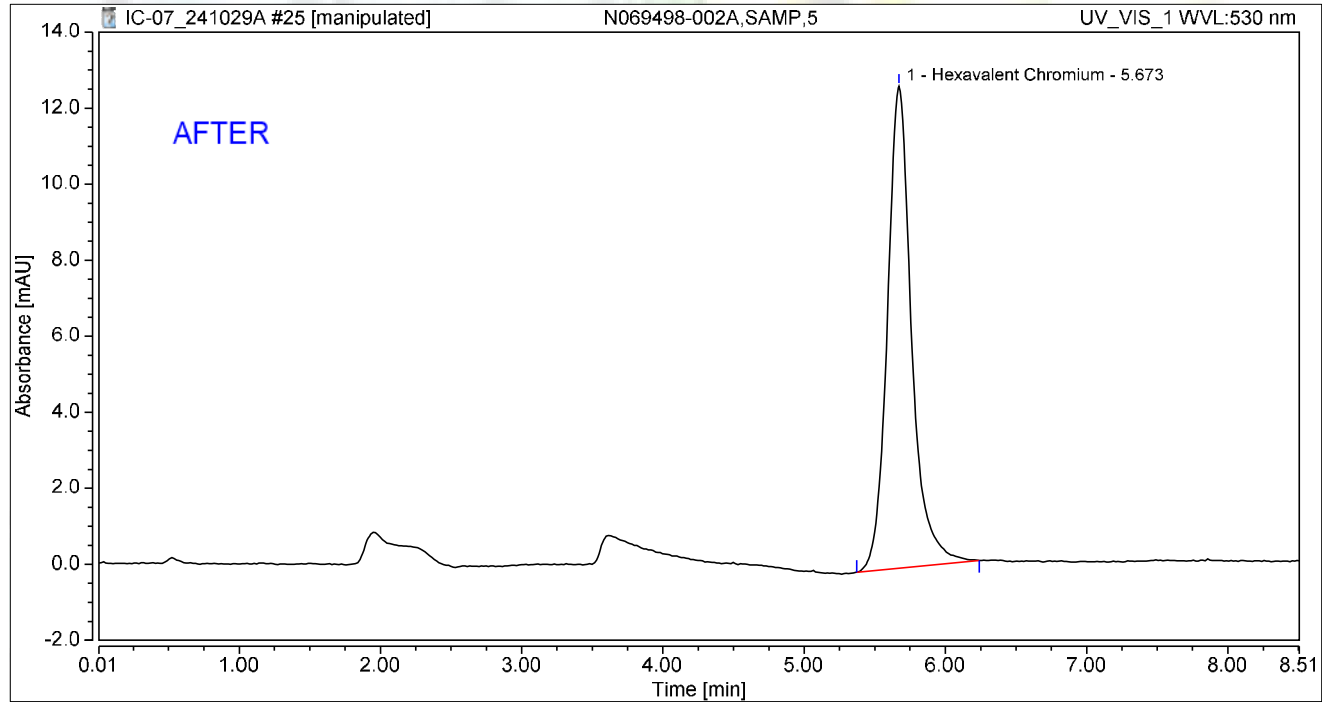
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069498-002A,SAMP,5	Run Time (min): 8.50
Vial Number:	11	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	29/Oct/24 12:14	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	2.519	12.685	100.00	100.00	8.8777
Total:			2.519	12.685	100.00	100.00	

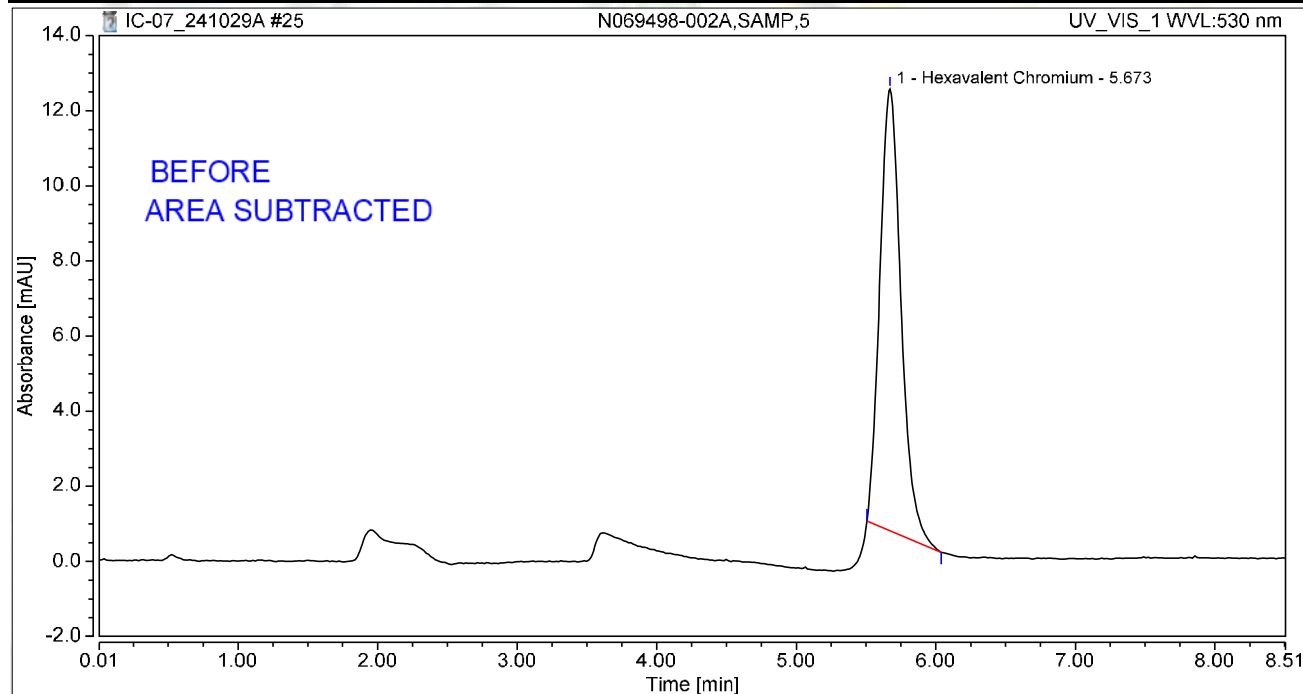
Reviewed by:

d/Recha 11/11/2024

Chromatogram and Results

Injection Details		
Injection Name:	N069498-002A,SAMP,5	Run Time (min): 8.50
Vial Number:	11	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	29/Oct/24 12:14	Sample Weight: 1.0000

Chromatogram

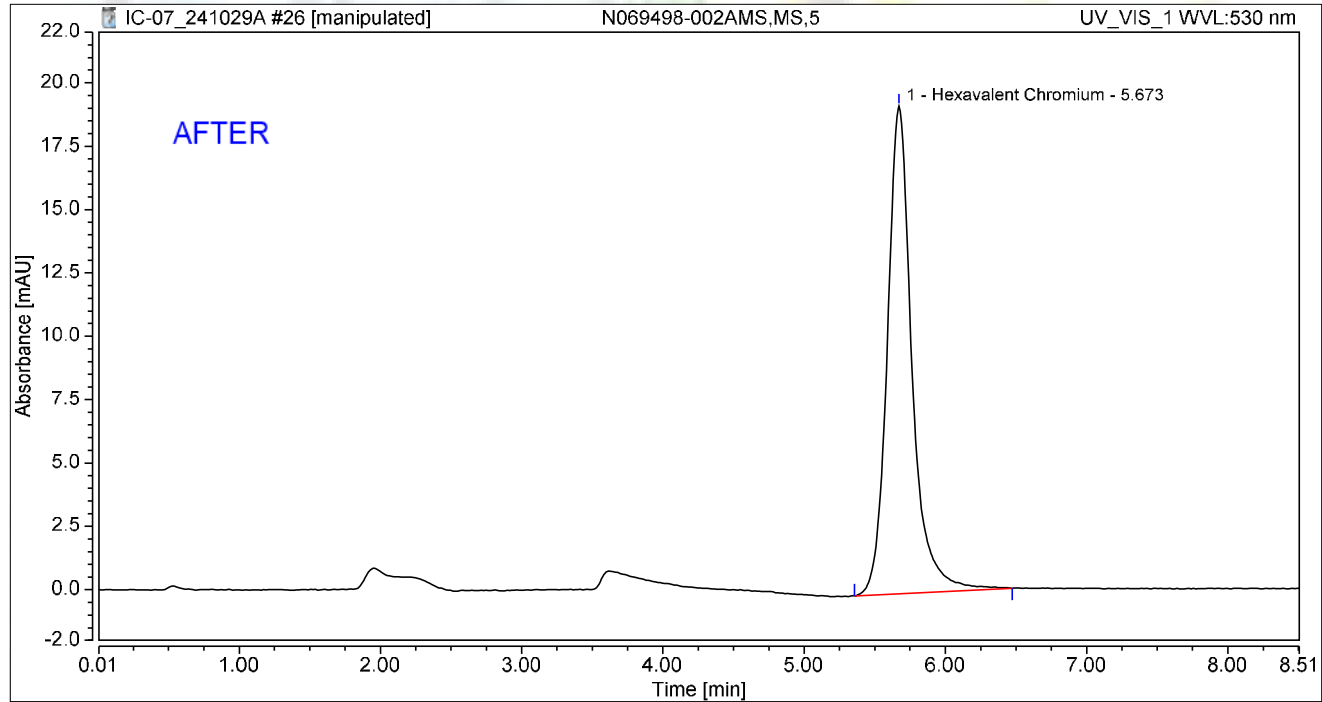


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	2.069	11.767	100.00	100.00	7.2900
Total:			2.069	11.767	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069498-002AMS,MS,5	Run Time (min): 8.50
Vial Number:	12	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	29/Oct/24 12:24	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	3.891	19.244	100.00	100.00	13.7133
Total:			3.891	19.244	100.00	100.00	

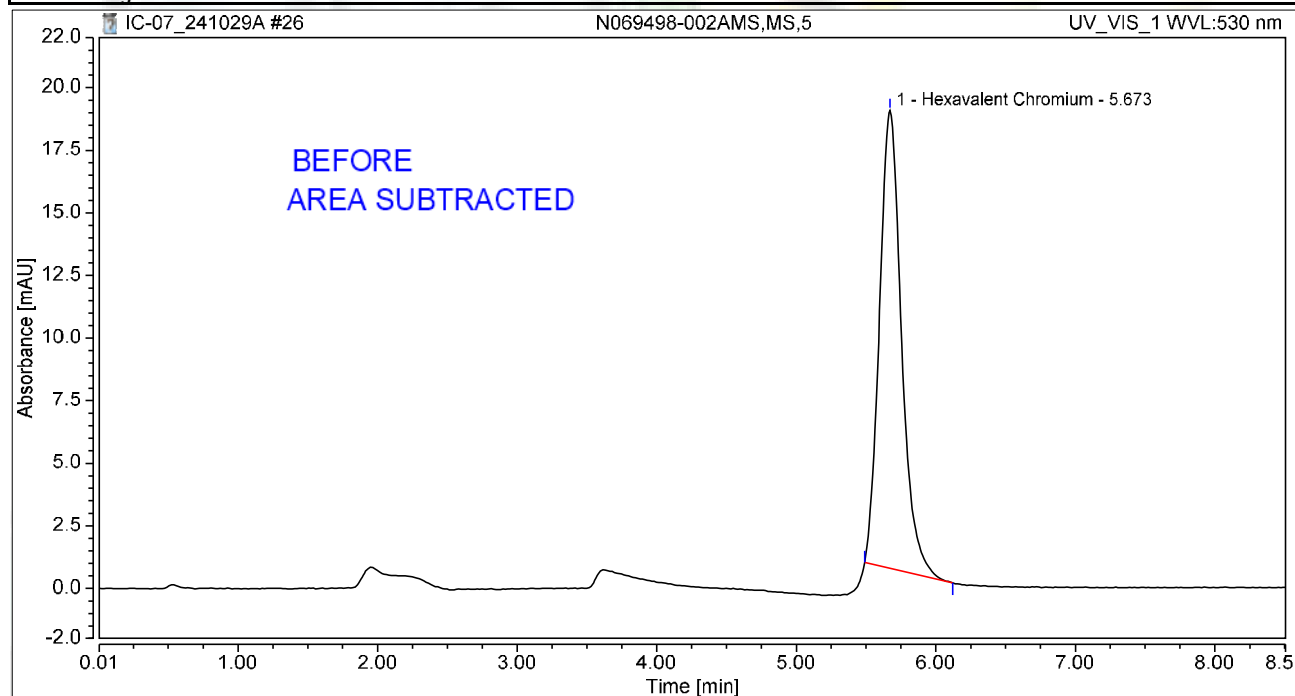
Reviewed by:

d/Rocha 11/11/2024

Chromatogram and Results

Injection Details		
Injection Name:	N069498-002AMS,MS,5	Run Time (min): 8.50
Vial Number:	12	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	29/Oct/24 12:24	Sample Weight: 1.0000

Chromatogram

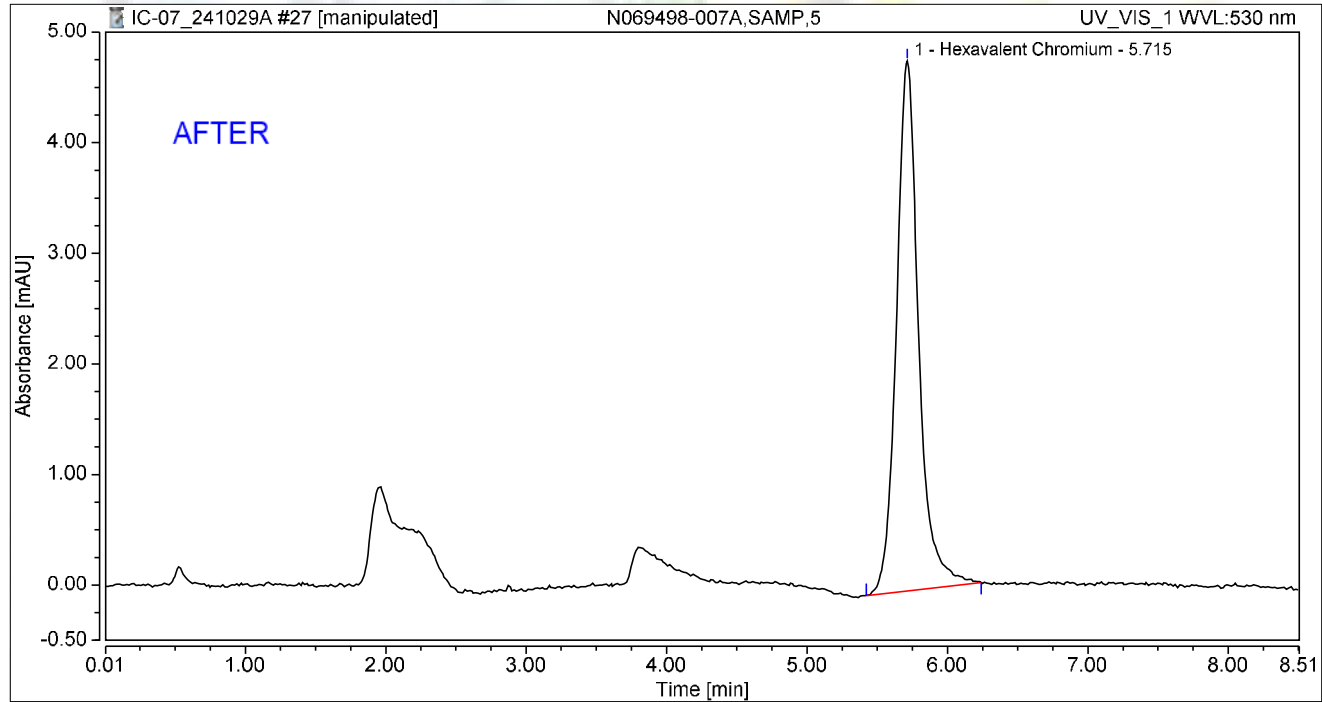


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	3.334	18.283	100.00	100.00	11.7492
Total:			3.334	18.283	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069498-007A,SAMP,5	Run Time (min): 8.50
Vial Number:	13	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	29/Oct/24 12:33	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.877	4.794	100.00	100.00	3.0912
Total:			0.877	4.794	100.00	100.00	

Reviewed by:

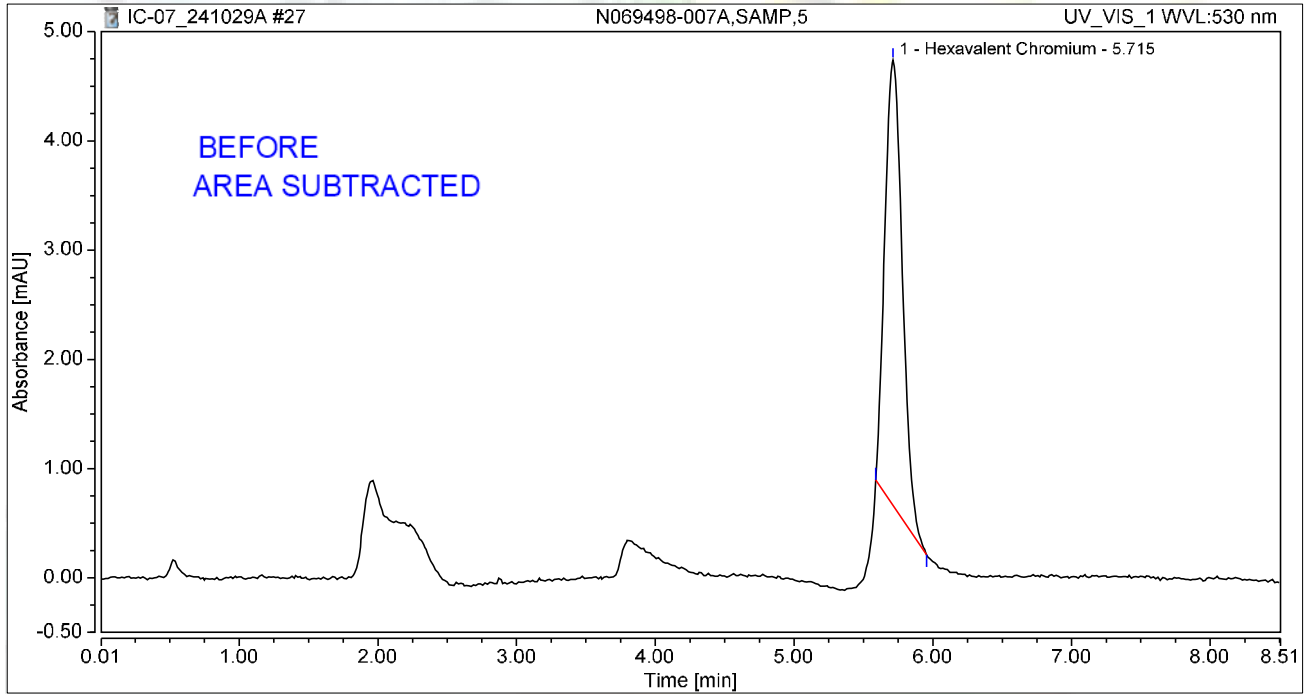
d/Rocha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069498-007A,SAMP,5	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	n.a.
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 12:33	Sample Weight:	1.0000

Chromatogram



Integration Results

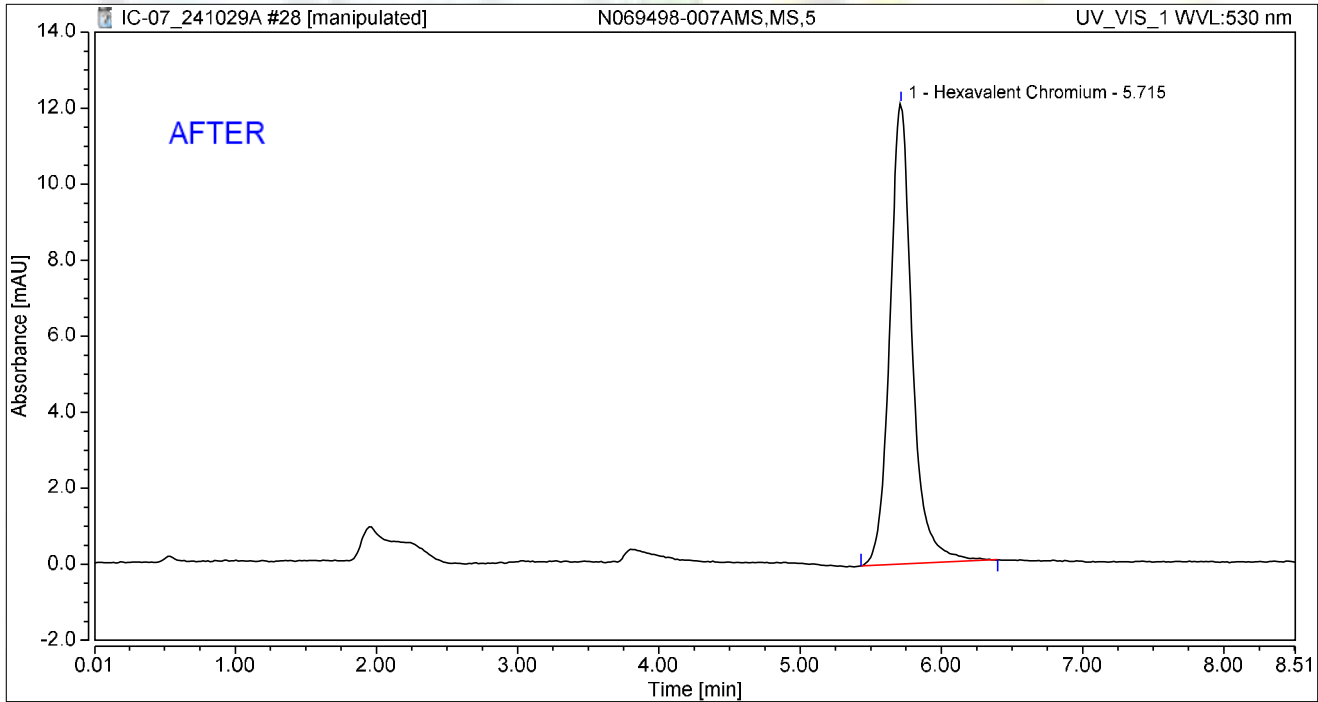
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.597	4.077	100.00	100.00	2.1048
Total:			0.597	4.077	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069498-007AMS,MS,5	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	n.a.
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 12:43	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.213	12.097	100.00	100.00	7.7987
Total:			2.213	12.097	100.00	100.00	

Reviewed by:

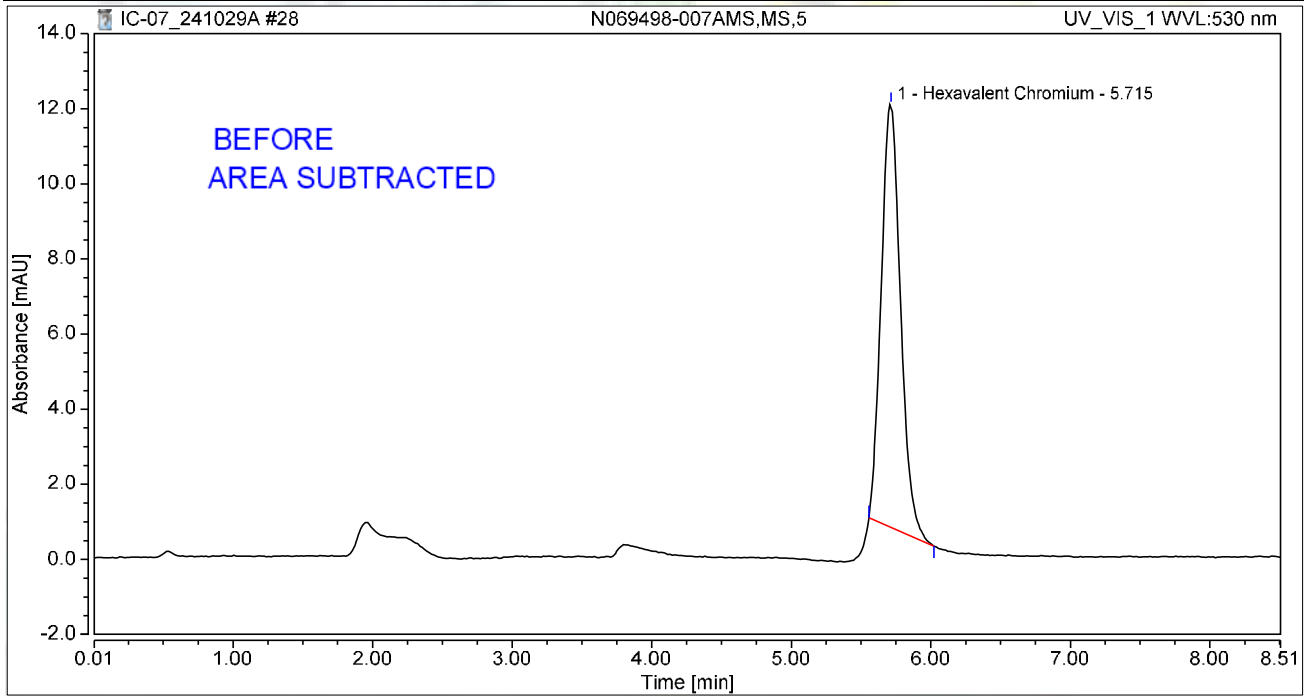
MRecha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069498-007AMS,MS,5	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	n.a.
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 12:43	Sample Weight:	1.0000

Chromatogram



Integration Results

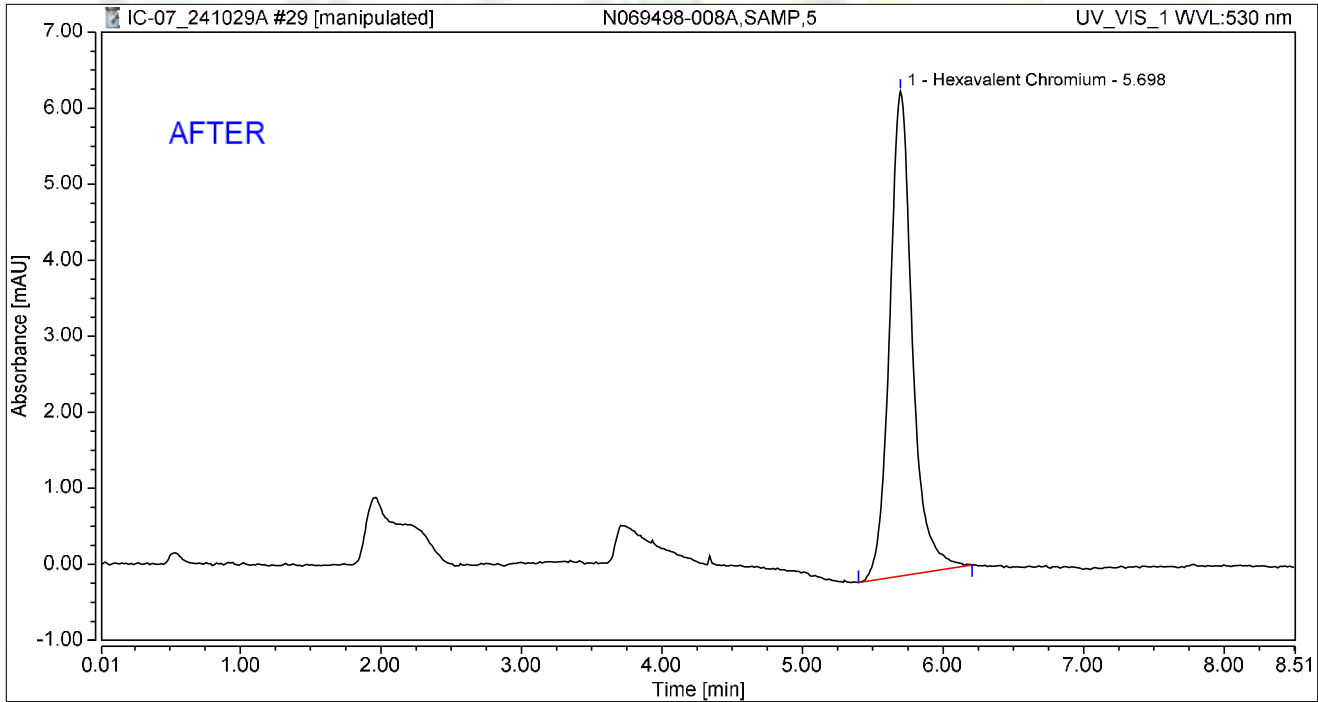
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	1.812	11.258	100.00	100.00	6.3842
Total:			1.812	11.258	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069498-008A,SAMP,5	Run Time (min):	8.49
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	n.a.
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 12:52	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	1.193	6.376	100.00	100.00	4.2045
Total:			1.193	6.376	100.00	100.00	

Reviewed by:

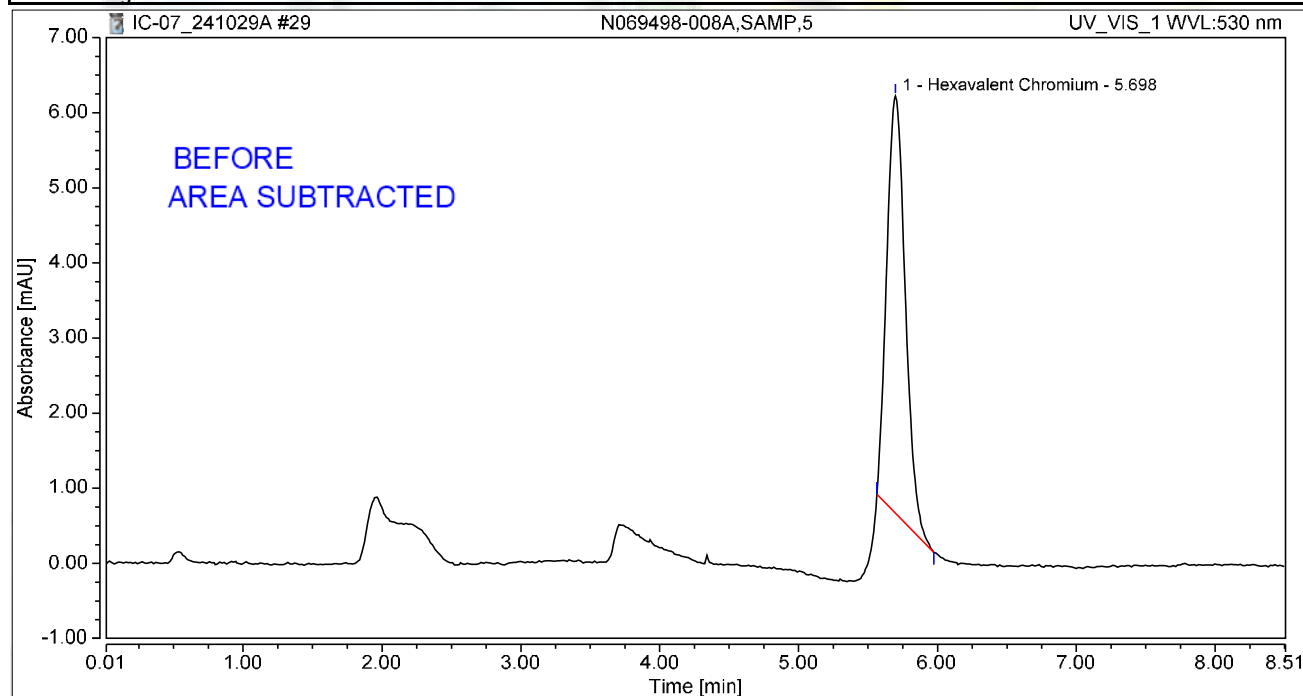
d/Rocha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069498-008A,SAMP,5	Run Time (min):	8.49
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 12:52	Sample Weight:	1.0000

Chromatogram



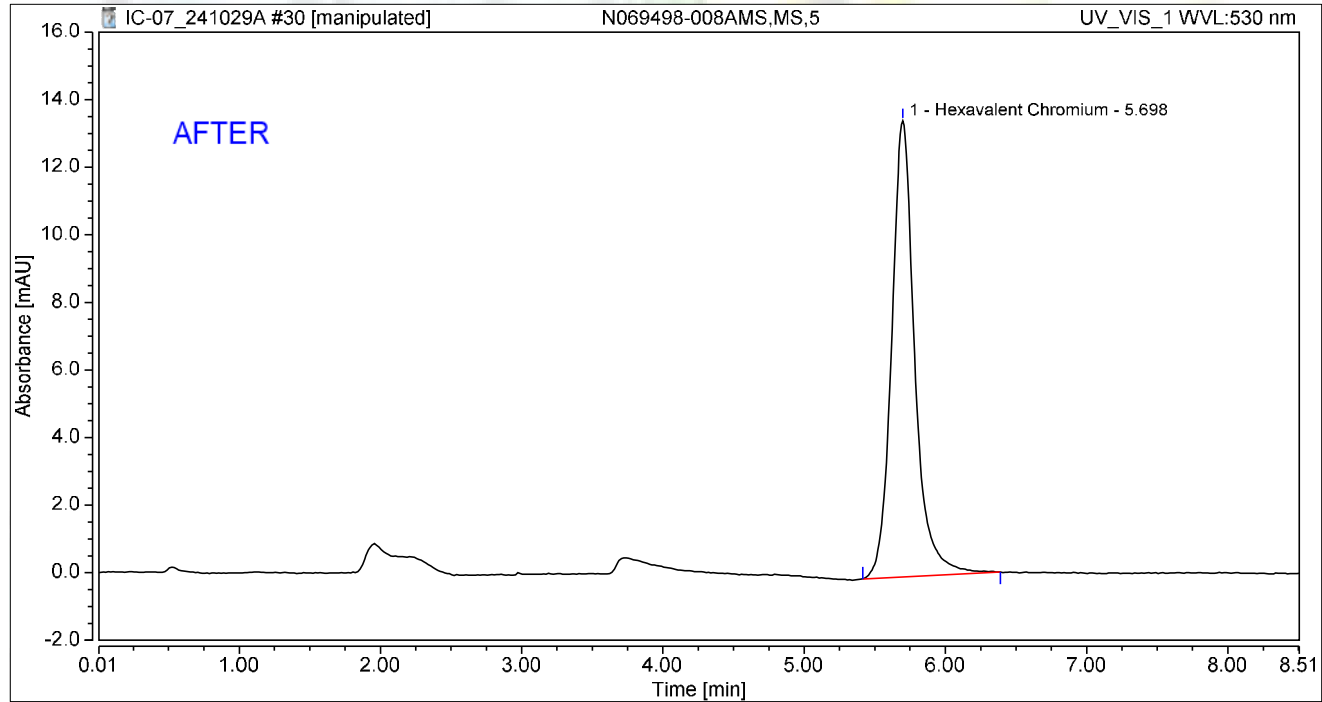
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	0.861	5.556	100.00	100.00	3.0329
Total:			0.861	5.556	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069498-008AMS,MS,5	Run Time (min): 8.50
Vial Number:	16	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	29/Oct/24 13:01	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	2.554	13.496	100.00	100.00	9.0009
Total:			2.554	13.496	100.00	100.00	

Reviewed by:

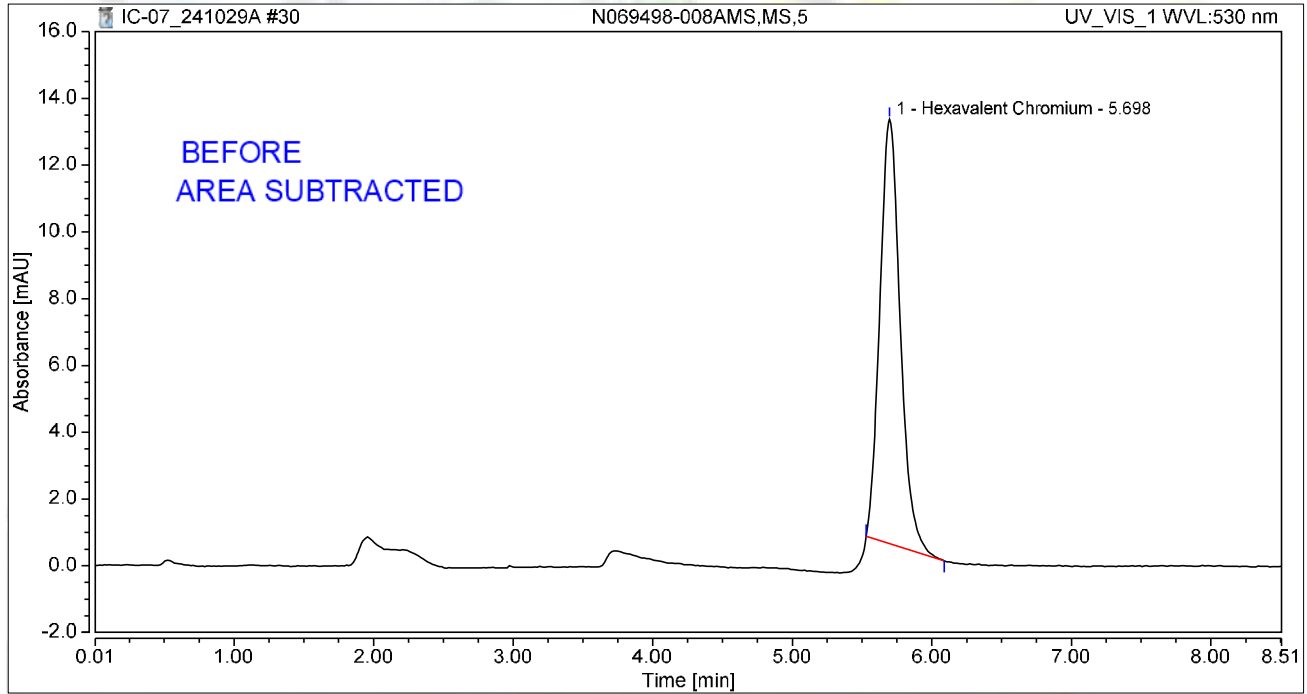
d/Recha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069498-008AMS,MS,5	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 13:01	Sample Weight:	1.0000

Chromatogram



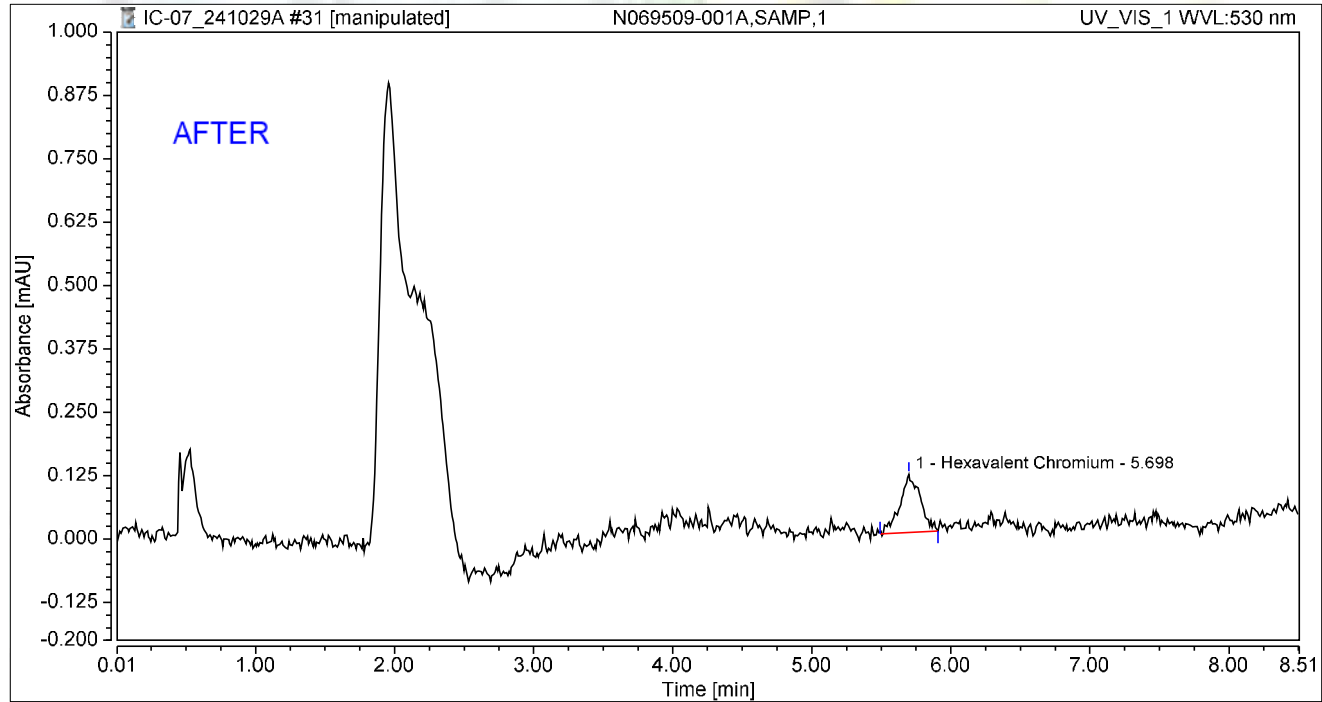
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	2.152	12.706	100.00	100.00	7.5824
Total:			2.152	12.706	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069509-001A,SAMP,1	Run Time (min): 8.50
Vial Number:	17	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	29/Oct/24 13:11	Sample Weight: 1.0000

Chromatogram



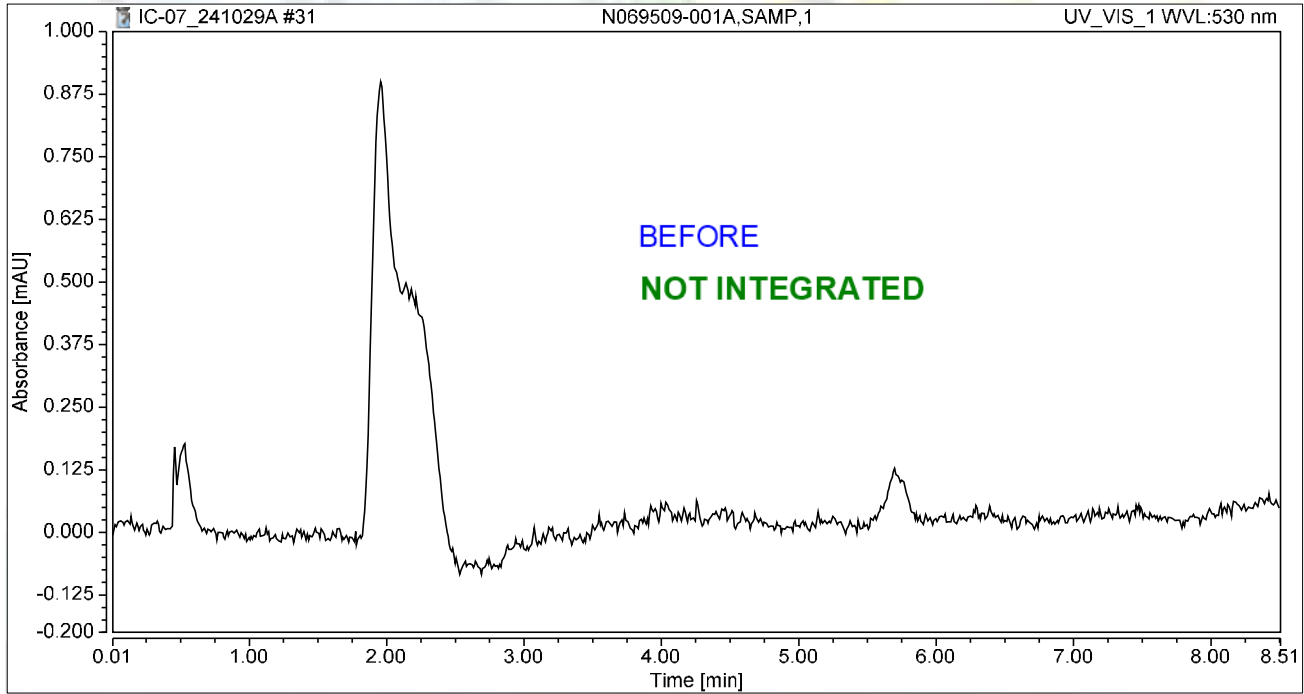
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	0.019	0.115	100.00	100.00	0.0684
Total:			0.019	0.115	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069509-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 13:11	Sample Weight:	1.0000

Chromatogram



Integration Results

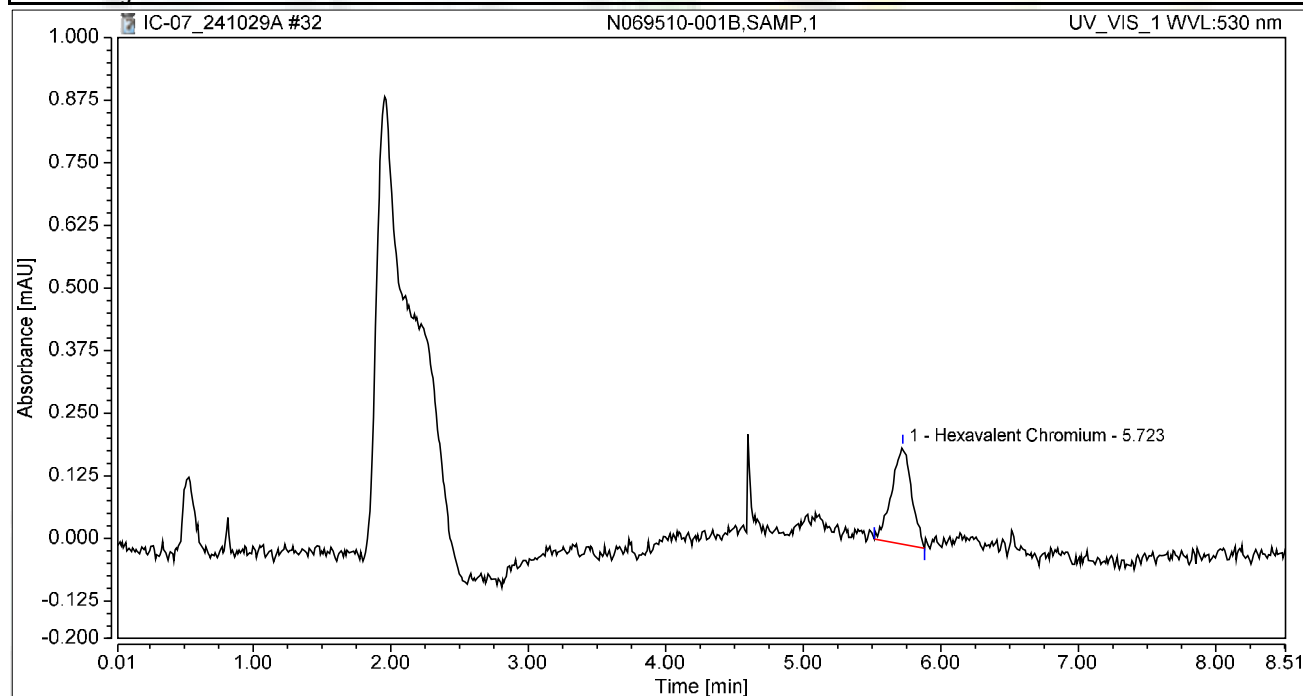
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069510-001B,SAMP,1	Run Time (min):	8.49
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 13:20	Sample Weight:	1.0000

Chromatogram



Integration Results

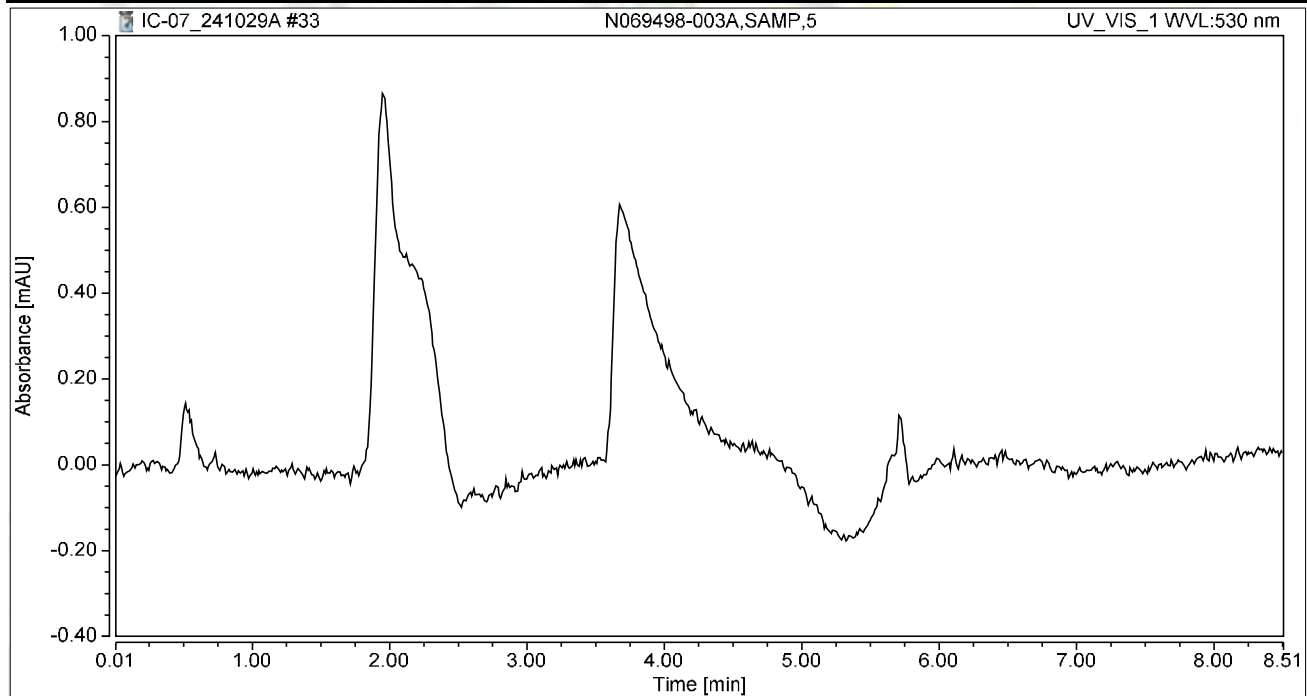
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.033	0.195	100.00	100.00	0.1148
Total:			0.033	0.195	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069498-003A,SAMP,5	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	n.a.
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 13:30	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Reviewed by:

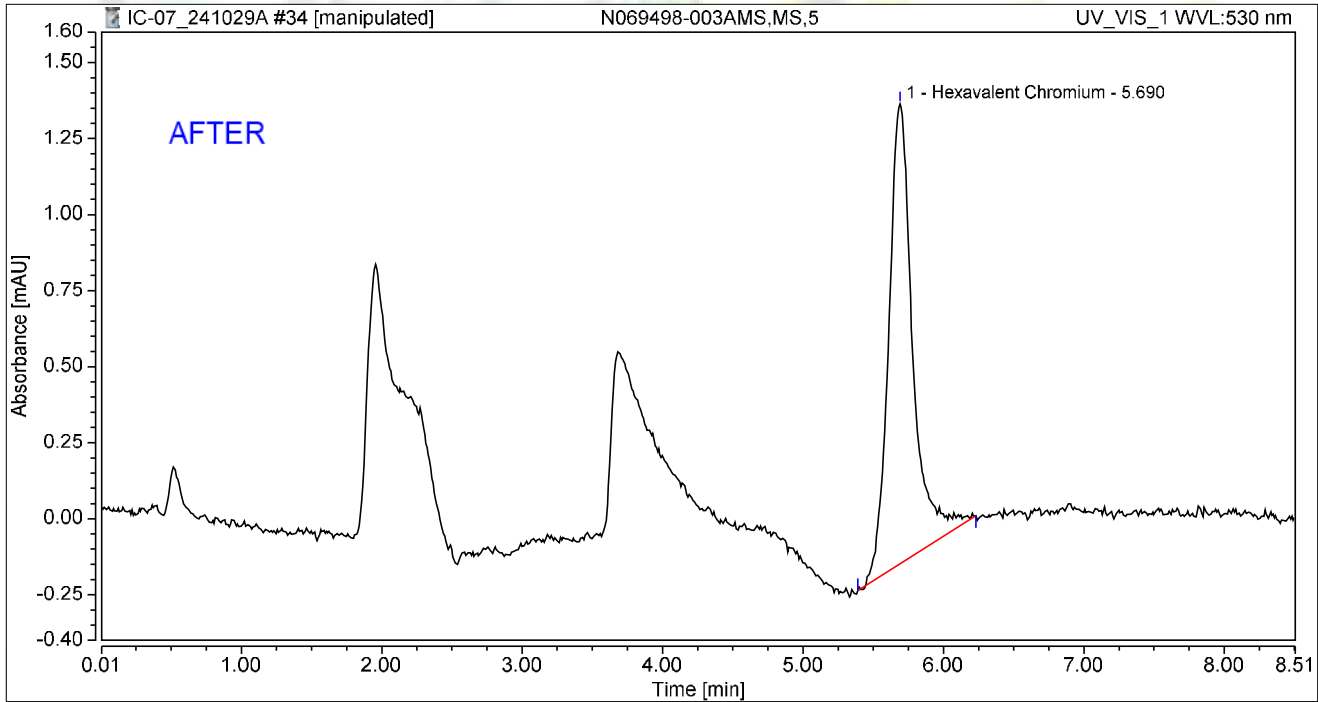
M. Rocha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069498-003AMS,MS,5	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 13:39	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.300	1.512	100.00	100.00	1.0574
Total:			0.300	1.512	100.00	100.00	

Reviewed by:

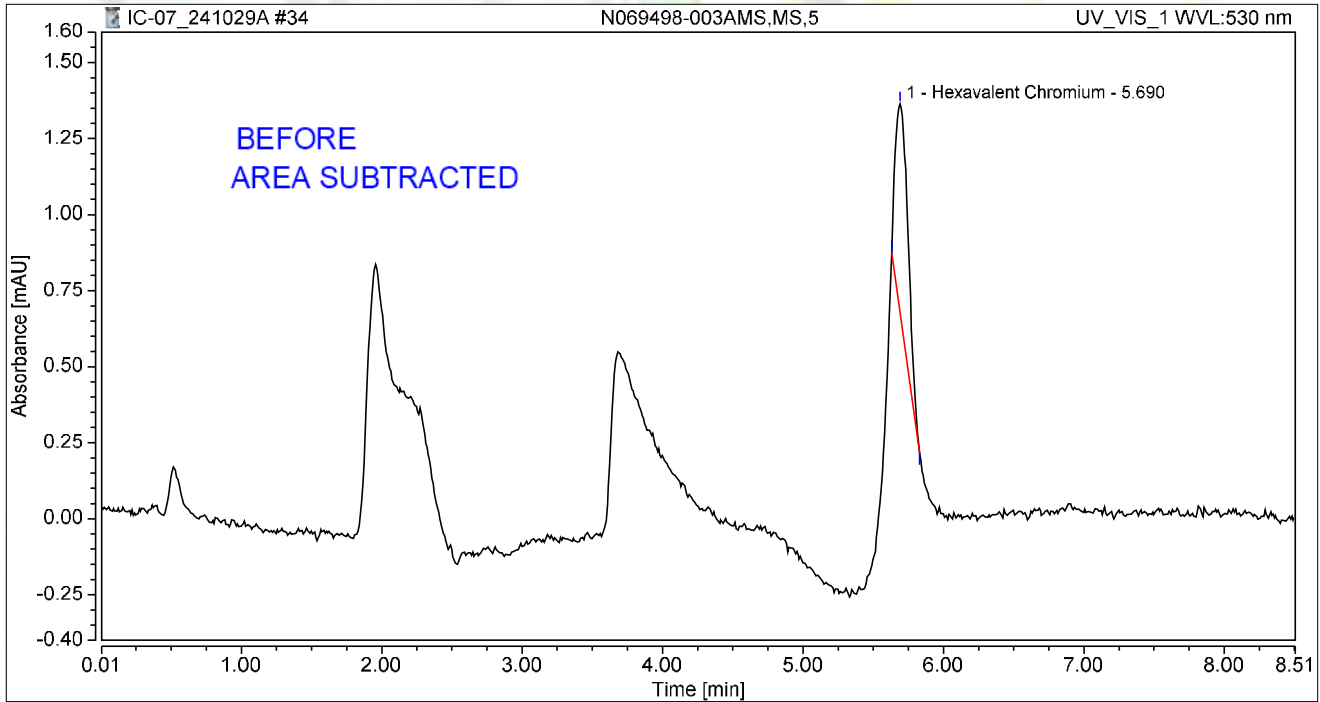
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Chromatogram and Results

Injection Details

Injection Name:	N069498-003AMS,MS,5	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 13:39	Sample Weight:	1.0000

Chromatogram



Integration Results

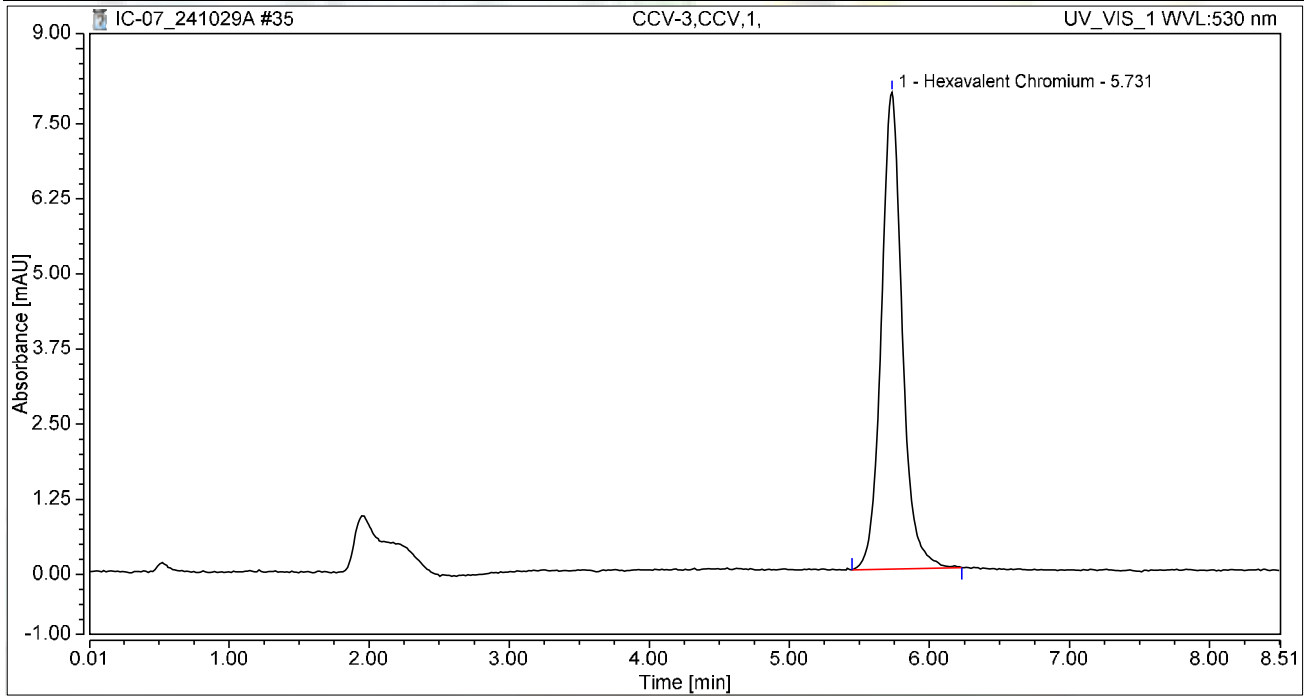
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.073	0.681	100.00	100.00	0.2585
Total:			0.073	0.681	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-3,CCV,1,	Run Time (min):	8.50
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 13:49	Sample Weight:	1.0000

Chromatogram



Integration Results

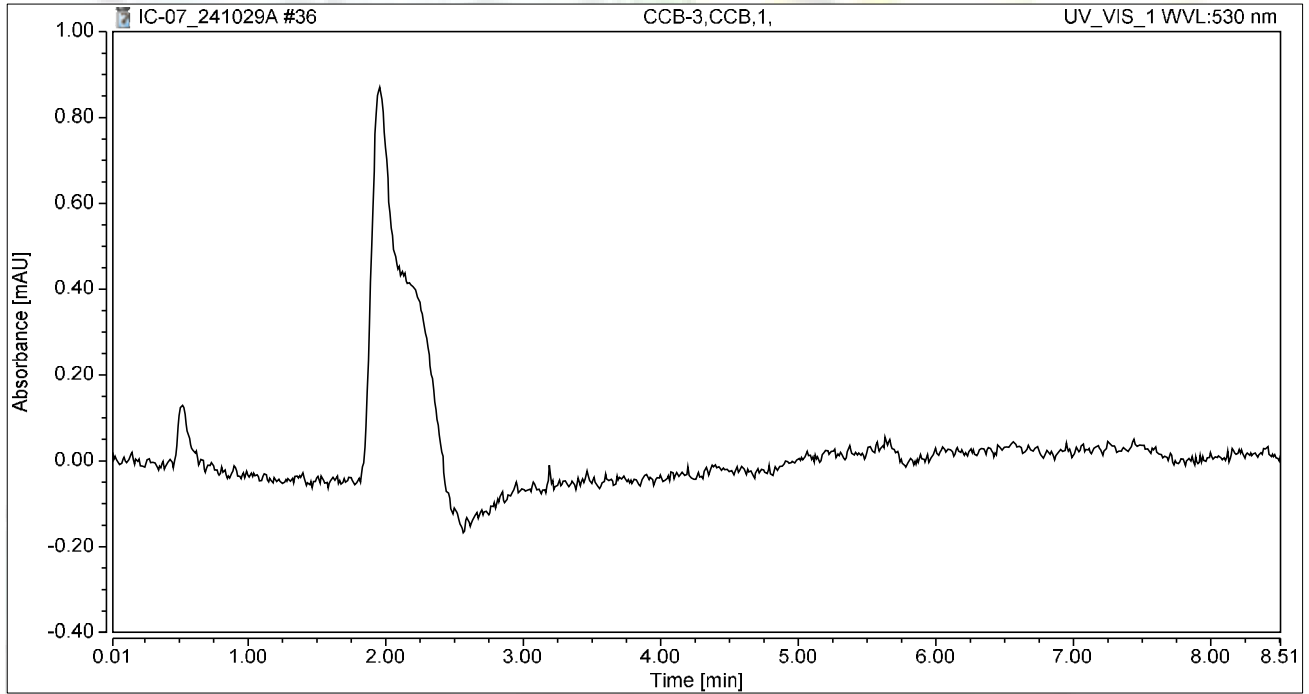
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	1.372	7.935	100.00	100.00	4.8343
Total:			1.372	7.935	100.00	100.00	

Chromatogram and Results

Injection Details

<i>Injection Name:</i>	CCB-3,CCB,1,	<i>Run Time (min):</i>	8.49
<i>Vial Number:</i>	22	<i>Injection Volume:</i>	1000.00
<i>Injection Type:</i>	Unknown	<i>Channel:</i>	UV_VIS_1
<i>Calibration Level:</i>		<i>Wavelength:</i>	530.0
<i>Instrument Method:</i>	Hex Chrom 4 mm	<i>Bandwidth:</i>	n.a.
<i>Processing Method:</i>	241028A_IC-07_Cr6_218_6_HIGH	<i>Dilution Factor:</i>	1.0000
<i>Injection Date/Time:</i>	29/Oct/24 13:58	<i>Sample Weight:</i>	1.0000

Chromatogram



Integration Results

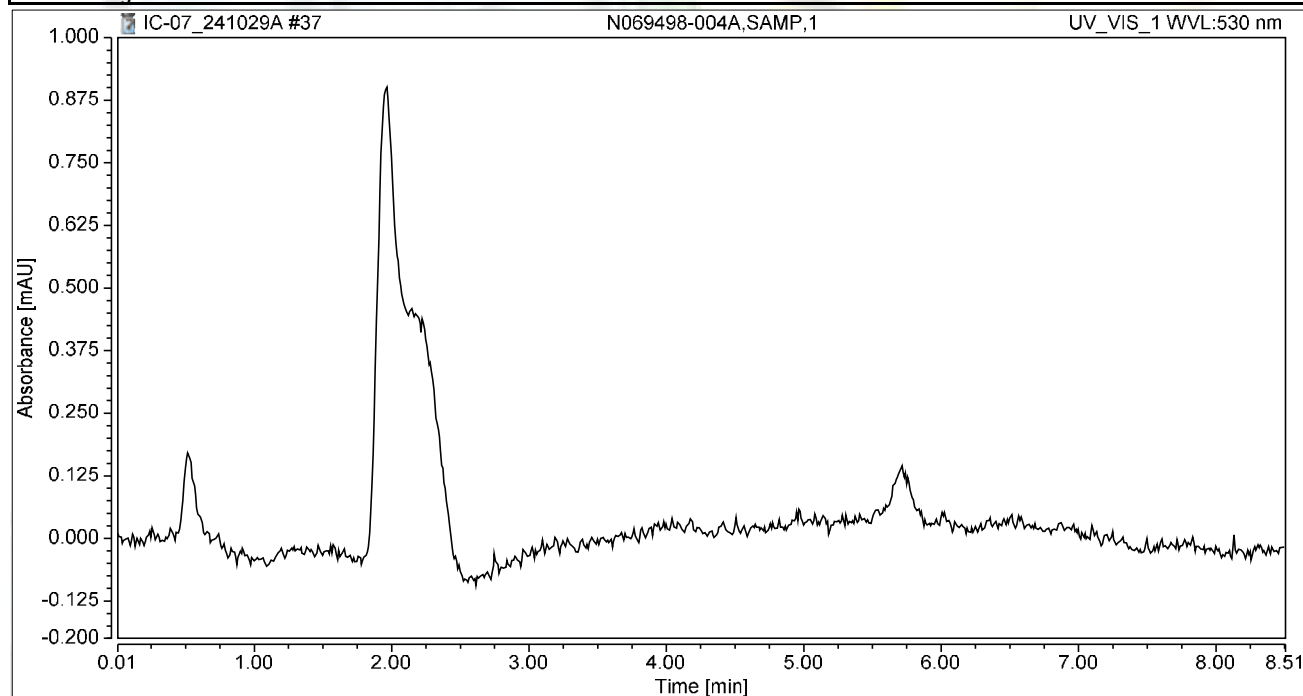
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069498-004A,SAMP,1	Run Time (min):	8.50
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 14:08	Sample Weight:	1.0000

Chromatogram



Integration Results

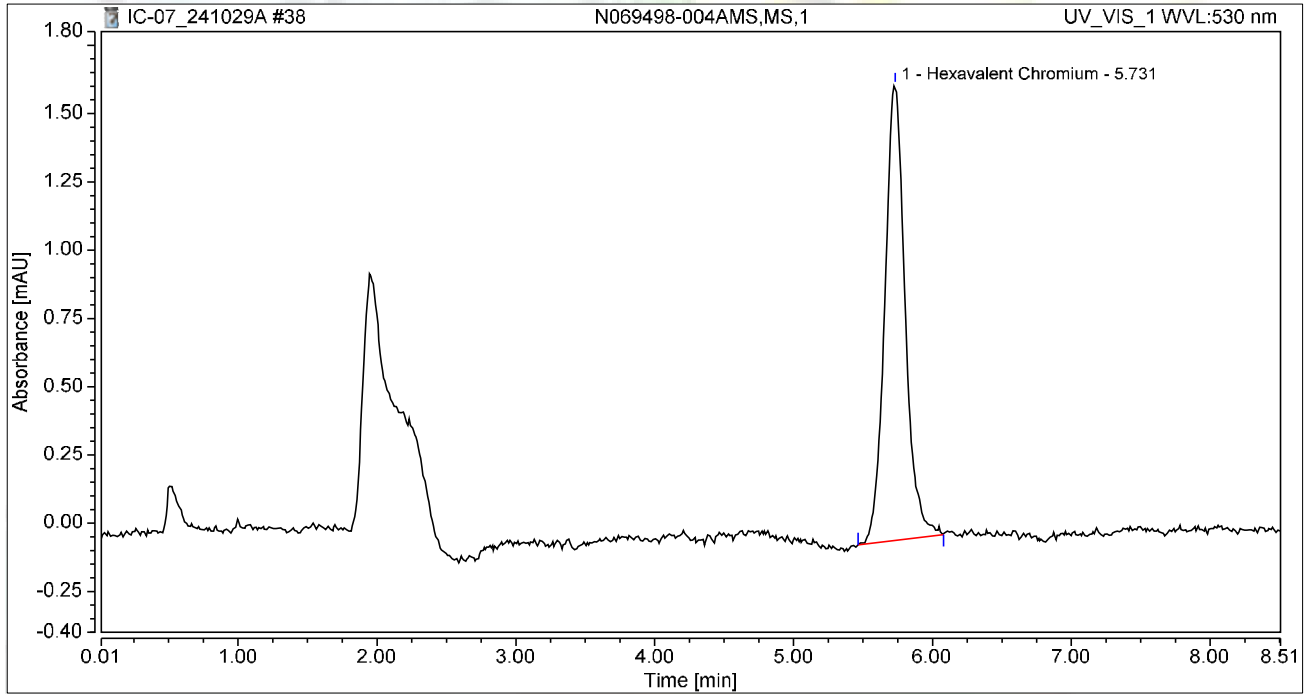
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069498-004AMS,MS,1	Run Time (min):	8.49
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 14:17	Sample Weight:	1.0000

Chromatogram



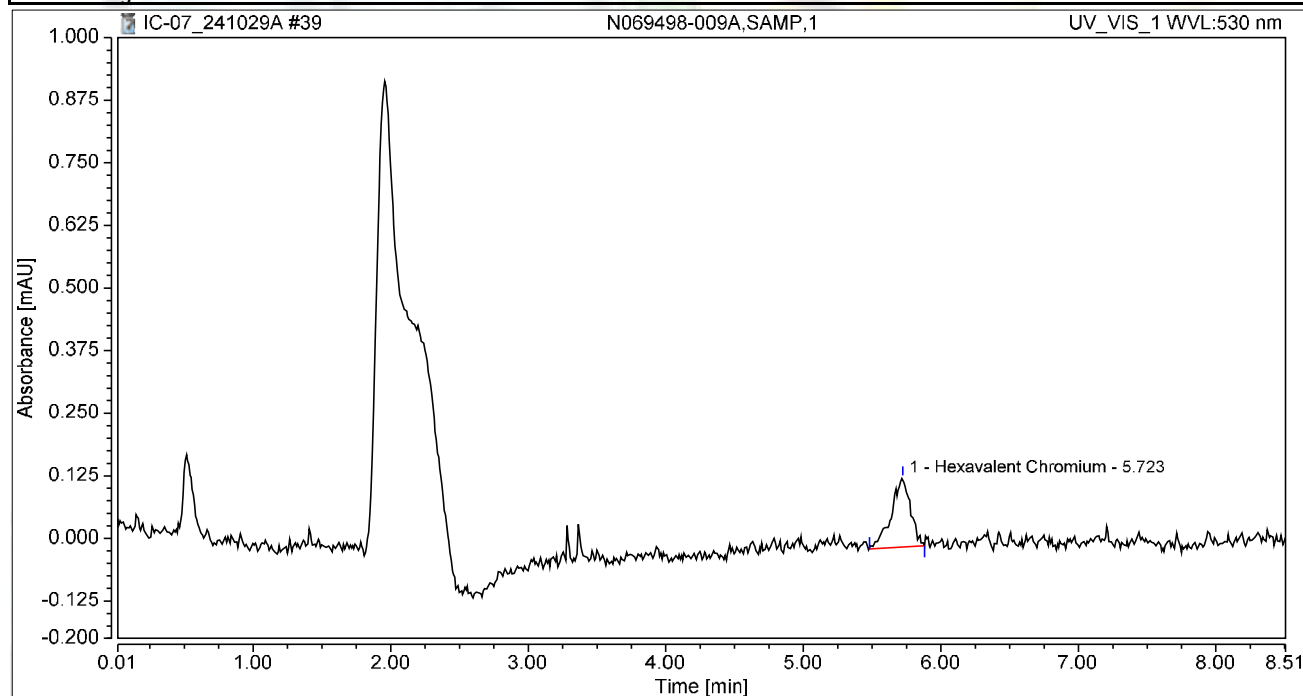
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	0.283	1.667	100.00	100.00	0.9981
Total:			0.283	1.667	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069498-009A,SAMP,1	Run Time (min): 8.49
Vial Number:	25	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: n.a.
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	29/Oct/24 14:27	Sample Weight: 1.0000

Chromatogram



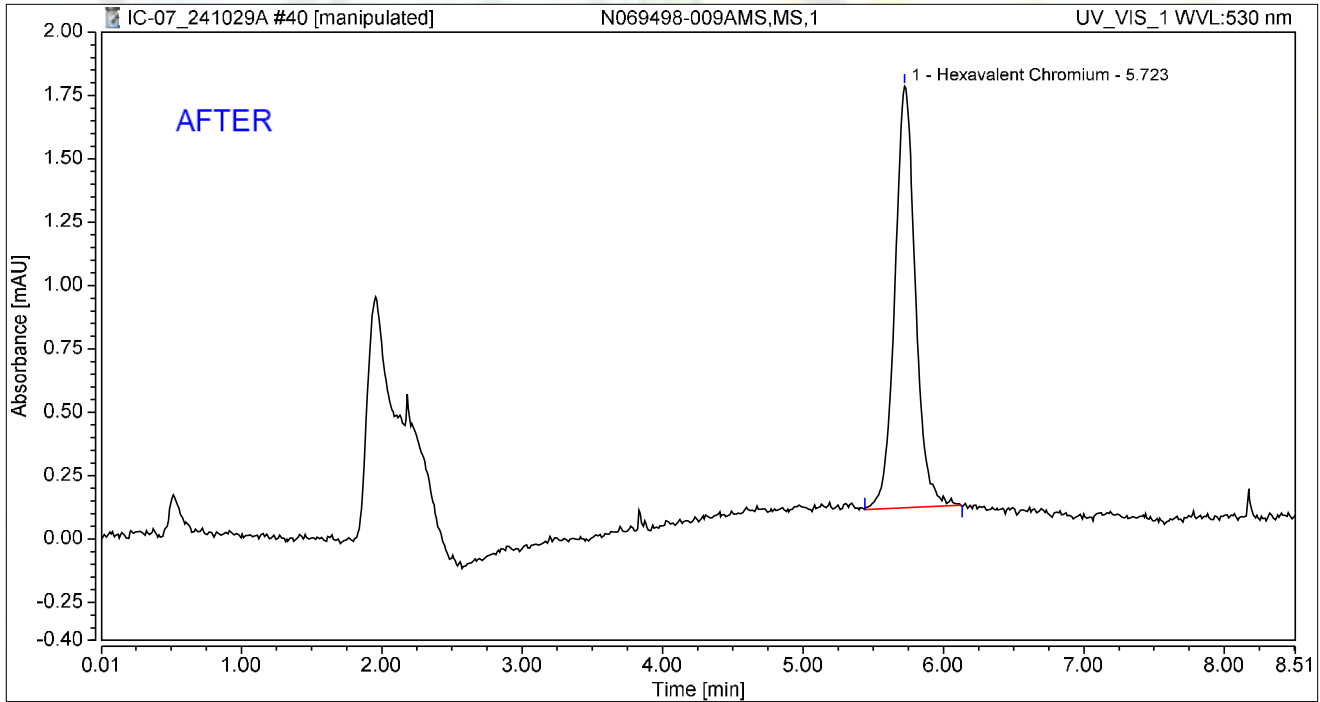
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.022	0.137	100.00	100.00	0.0784
Total:			0.022	0.137	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069498-009AMS,MS,1	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 14:36	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.283	1.664	100.00	100.00	0.9982
Total:			0.283	1.664	100.00	100.00	

Reviewed by:

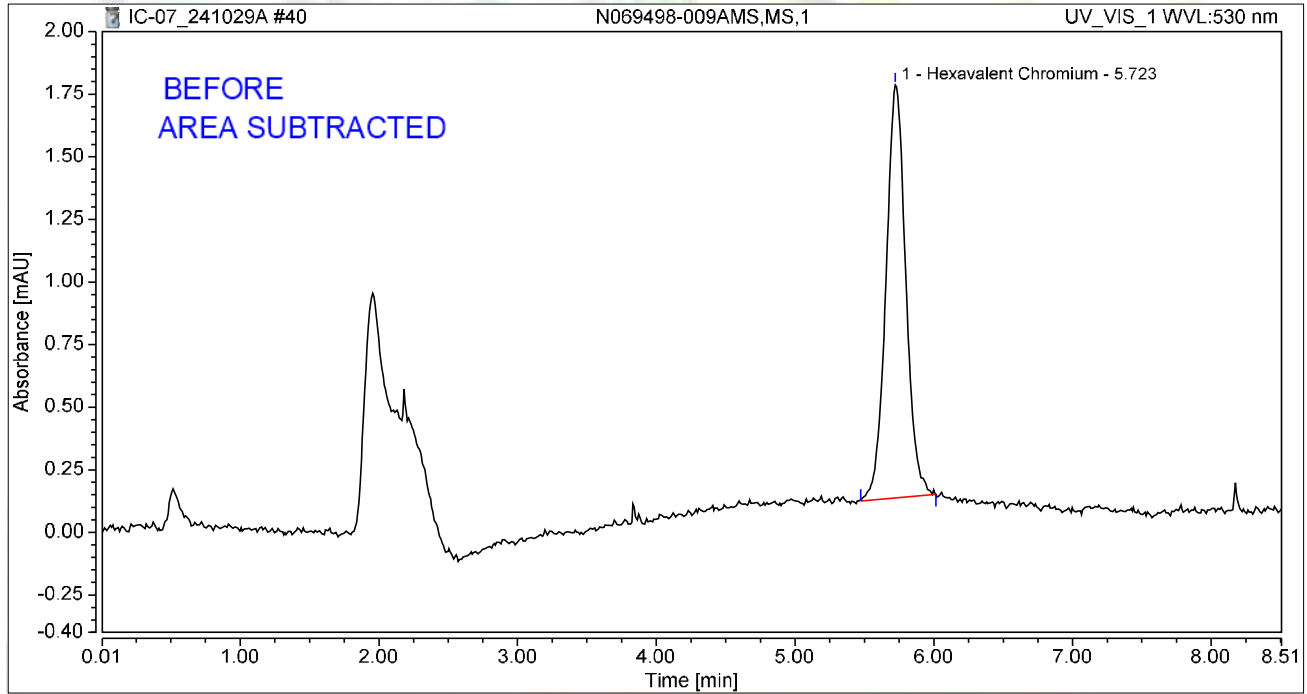
d/Rocha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069498-009AMS,MS,1	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 14:36	Sample Weight:	1.0000

Chromatogram



Integration Results

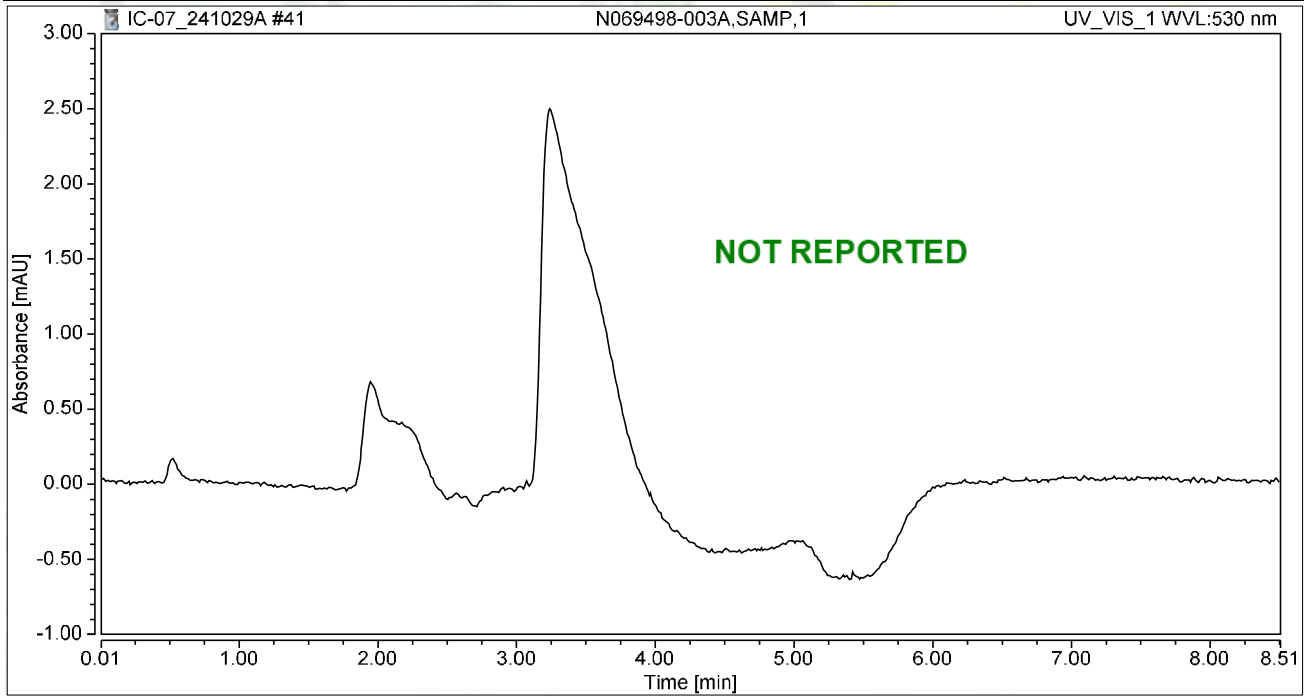
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.274	1.650	100.00	100.00	0.9644
Total:			0.274	1.650	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069498-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 14:46	Sample Weight:	1.0000

Chromatogram



Integration Results

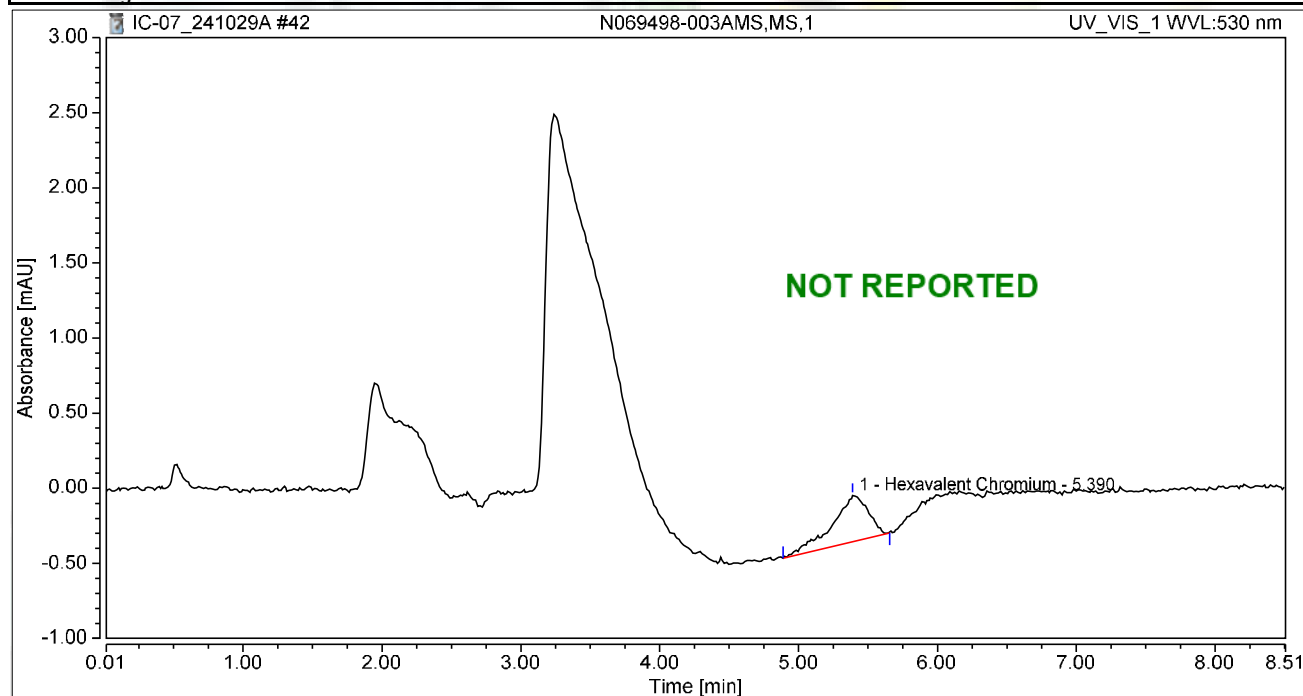
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069498-003AMS,MS,1	Run Time (min):	8.49
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 14:55	Sample Weight:	1.0000

Chromatogram



Integration Results

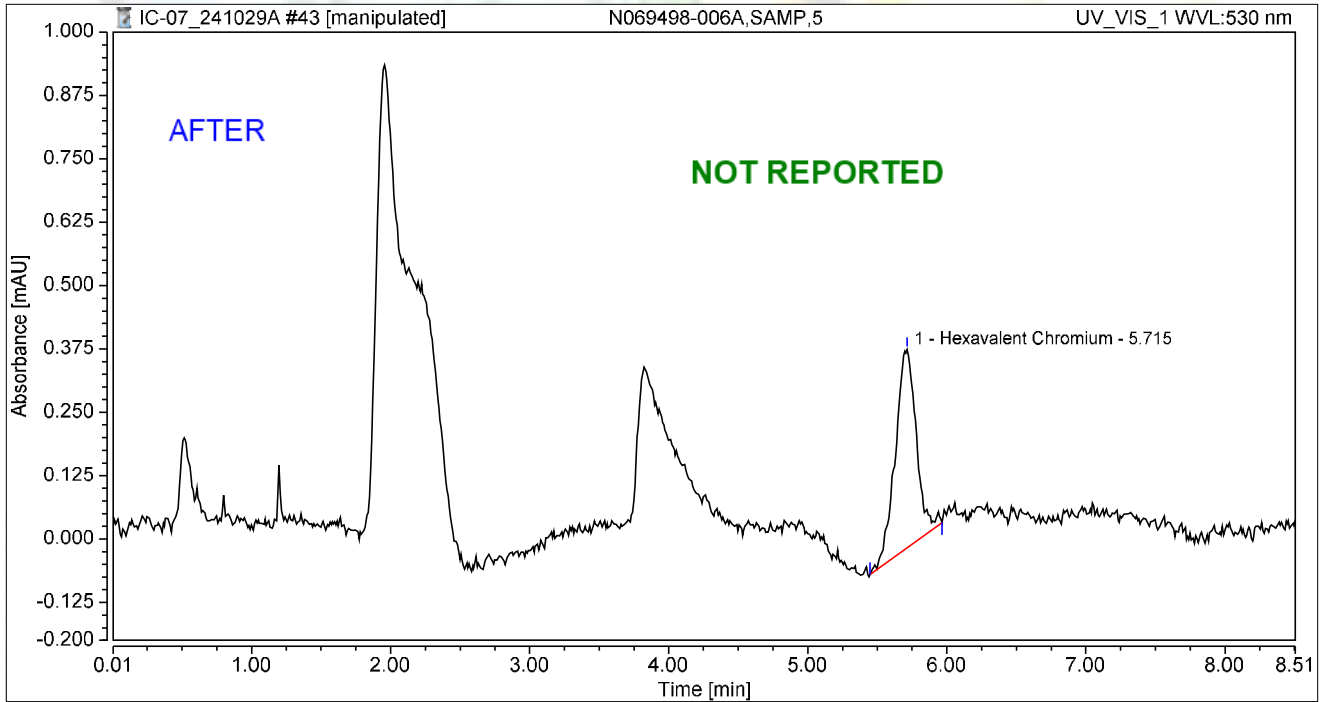
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.390	0.093	0.309	100.00	100.00	0.3278
Total:			0.093	0.309	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069498-006A,SAMP,5	Run Time (min):	8.50
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 15:04	Sample Weight:	1.0000

Chromatogram



Integration Results

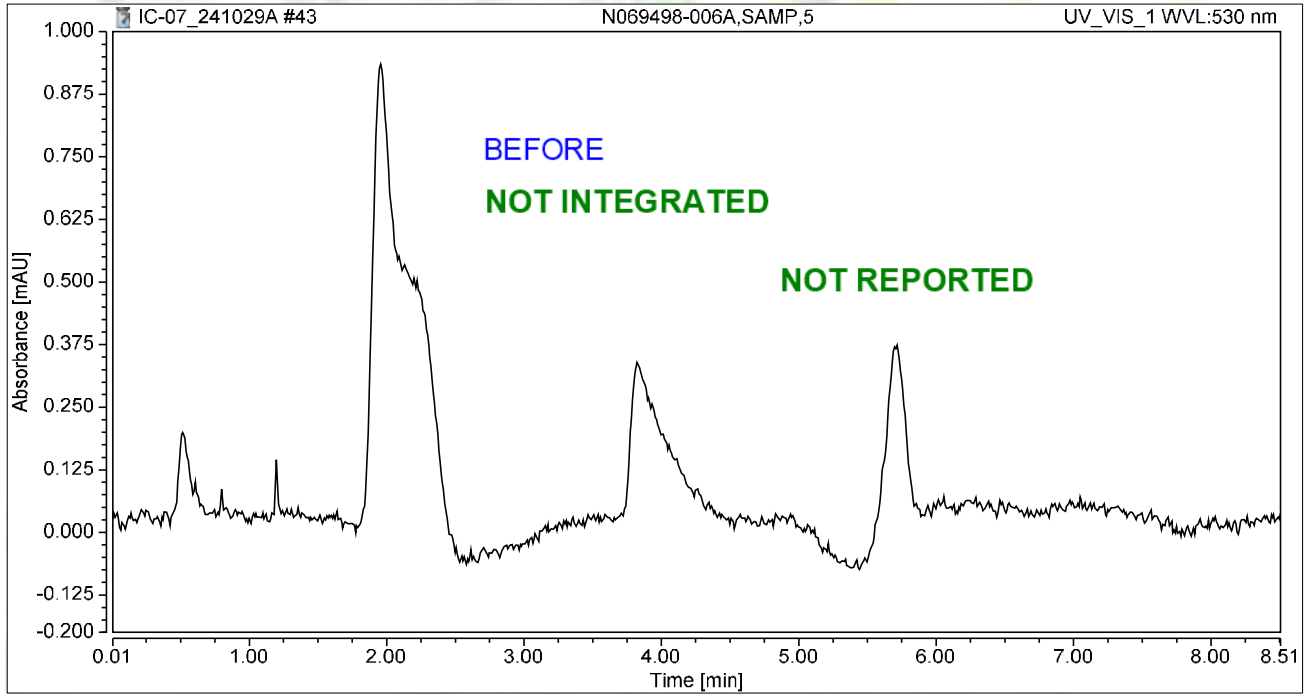
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.069	0.392	100.00	100.00	0.2414
Total:			0.069	0.392	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069498-006A,SAMP,5	Run Time (min):	8.50
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 15:04	Sample Weight:	1.0000

Chromatogram



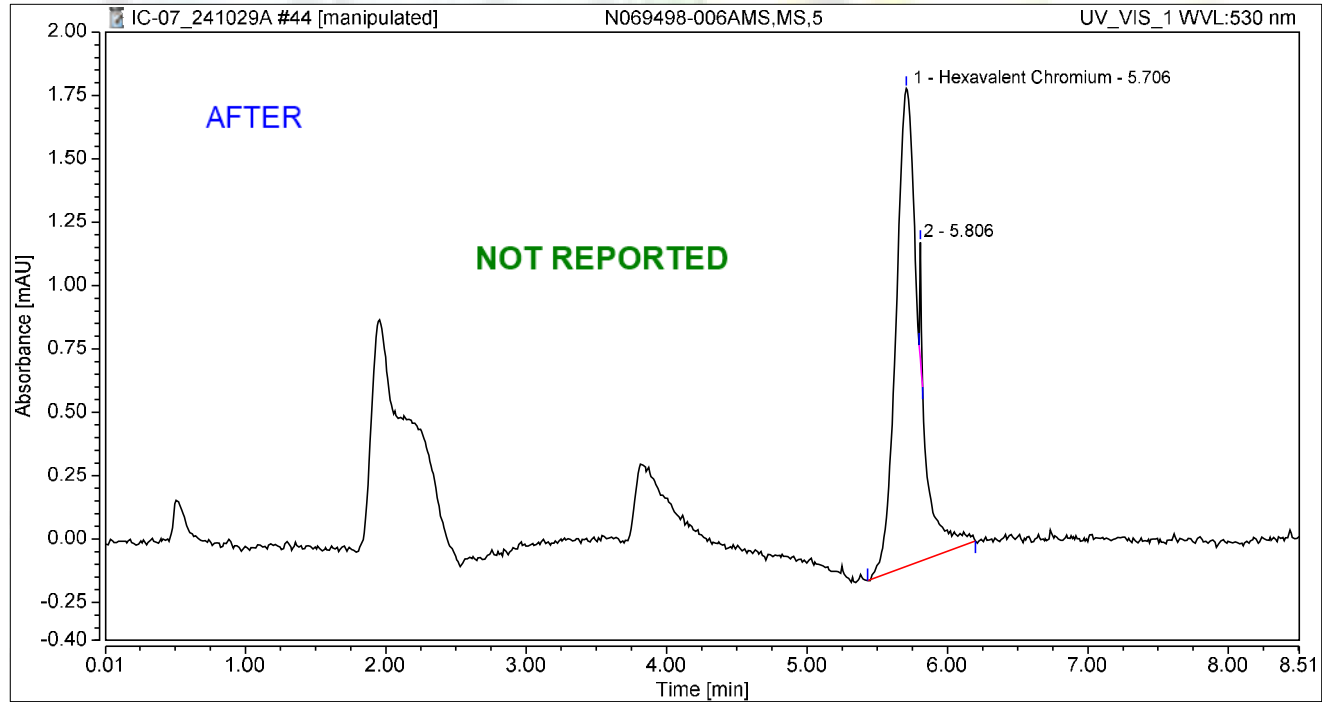
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069498-006AMS,MS,5	Run Time (min): 8.50
Vial Number:	30	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: n.a.
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	29/Oct/24 15:14	Sample Weight: 1.0000

Chromatogram



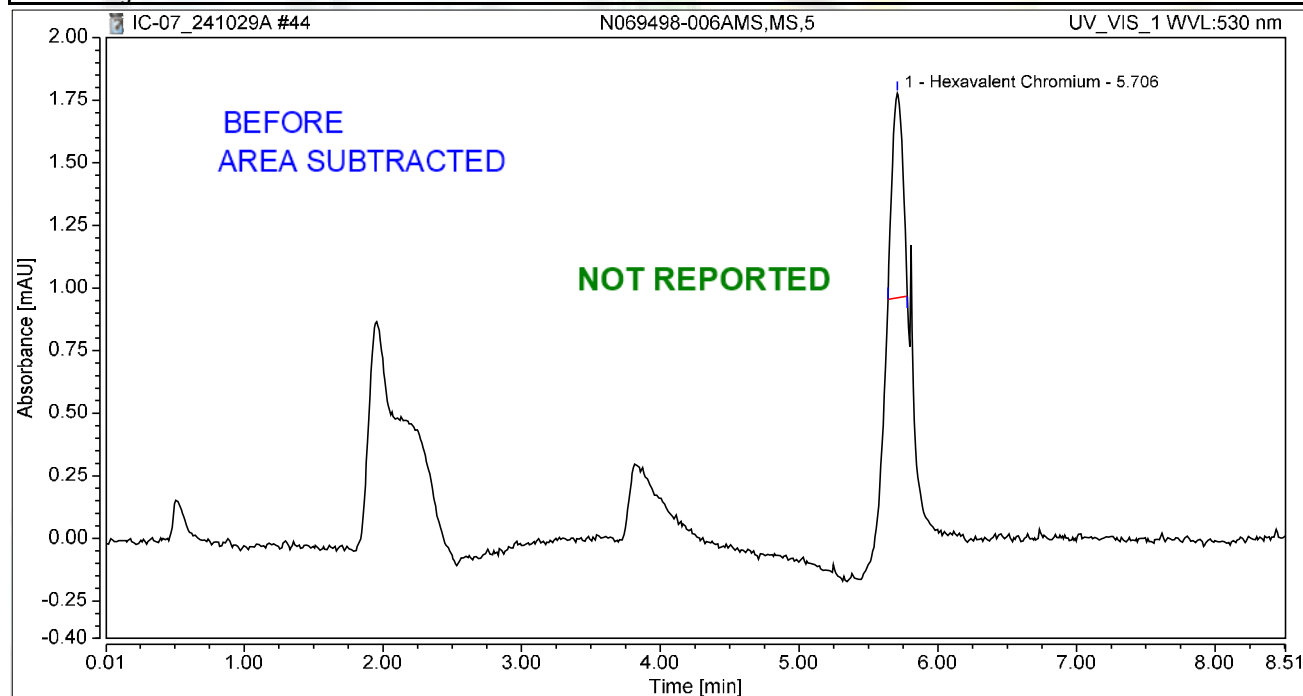
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	0.355	1.886	98.53	80.38	1.2520
2		5.806	0.005	0.460	1.47	19.62	n.a.
Total:			0.361	2.347	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069498-006AMS,MS,5	Run Time (min):	8.50
Vial Number:	30	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 15:14	Sample Weight:	1.0000

Chromatogram



Integration Results

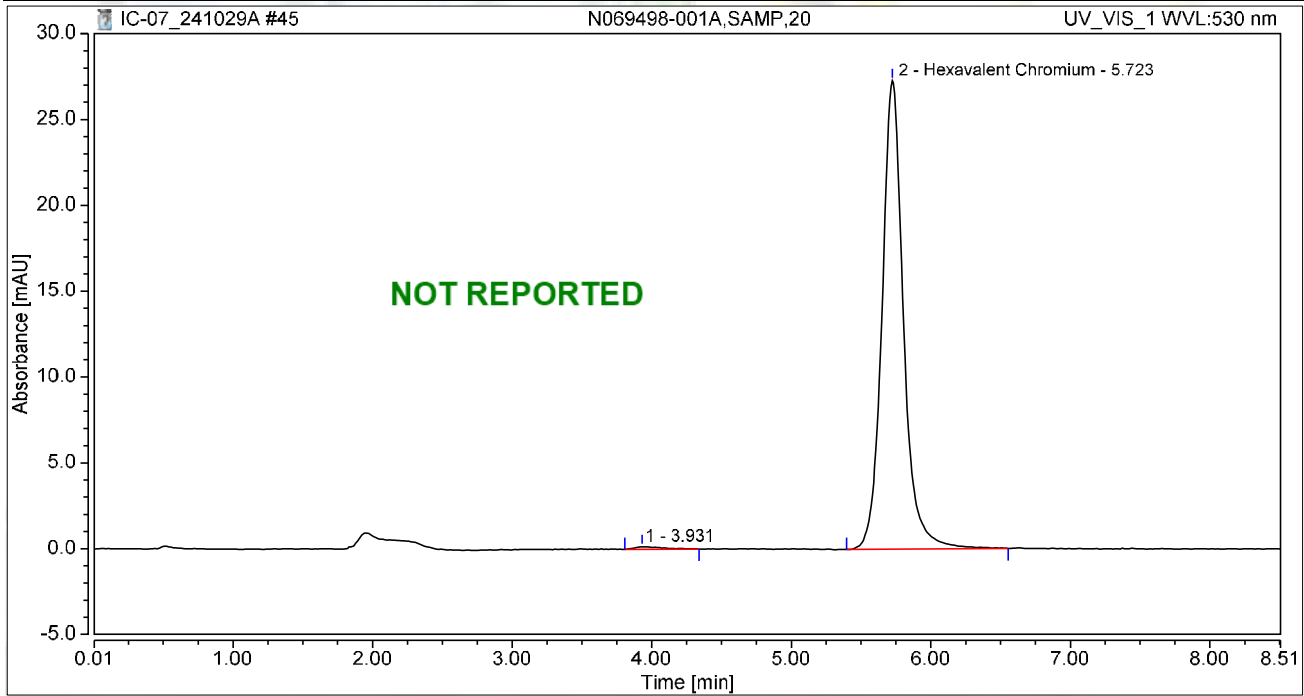
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	0.071	0.818	100.00	100.00	0.2518
Total:			0.071	0.818	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069498-001A,SAMP,20	Run Time (min):	8.50
Vial Number:	31	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 15:23	Sample Weight:	1.0000

Chromatogram



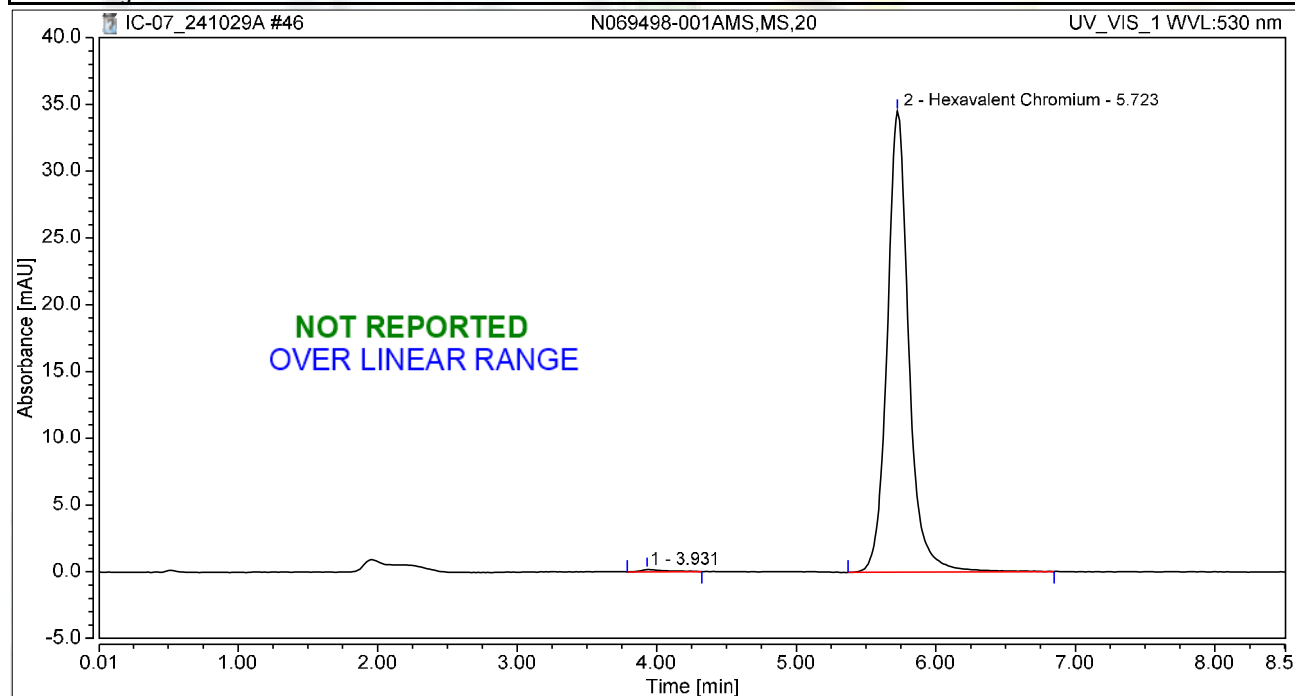
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.931	0.033	0.158	0.68	0.58	n.a.
2	Hexavalent Chromium	5.723	4.862	27.293	99.32	99.42	17.1344
Total:			4.895	27.451	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069498-001AMS,MS,20	Run Time (min): 8.50
Vial Number:	32	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	29/Oct/24 15:33	Sample Weight: 1.0000

Chromatogram



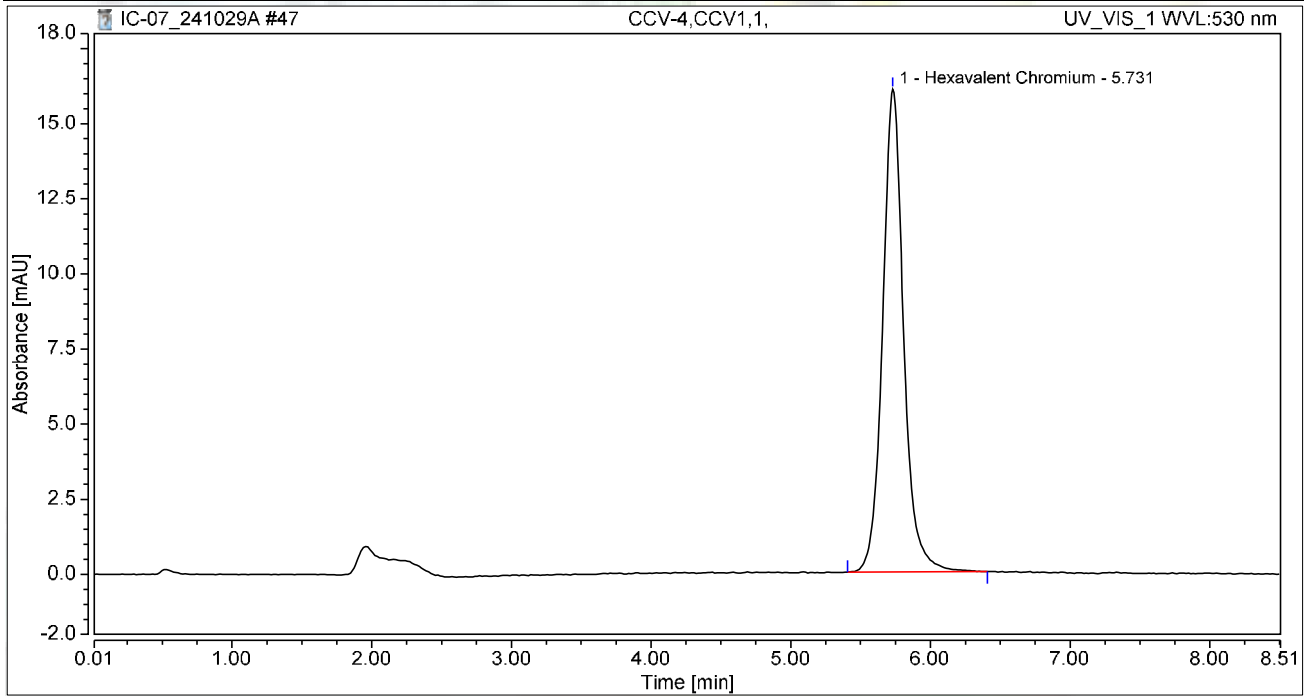
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.931	0.035	0.163	0.55	0.47	n.a.
2	Hexavalent Chromium	5.723	6.190	34.519	99.45	99.53	21.8142
Total:			6.224	34.683	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-4,CCV1,1,	Run Time (min):	8.49
Vial Number:	33	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 15:42	Sample Weight:	1.0000

Chromatogram



Integration Results

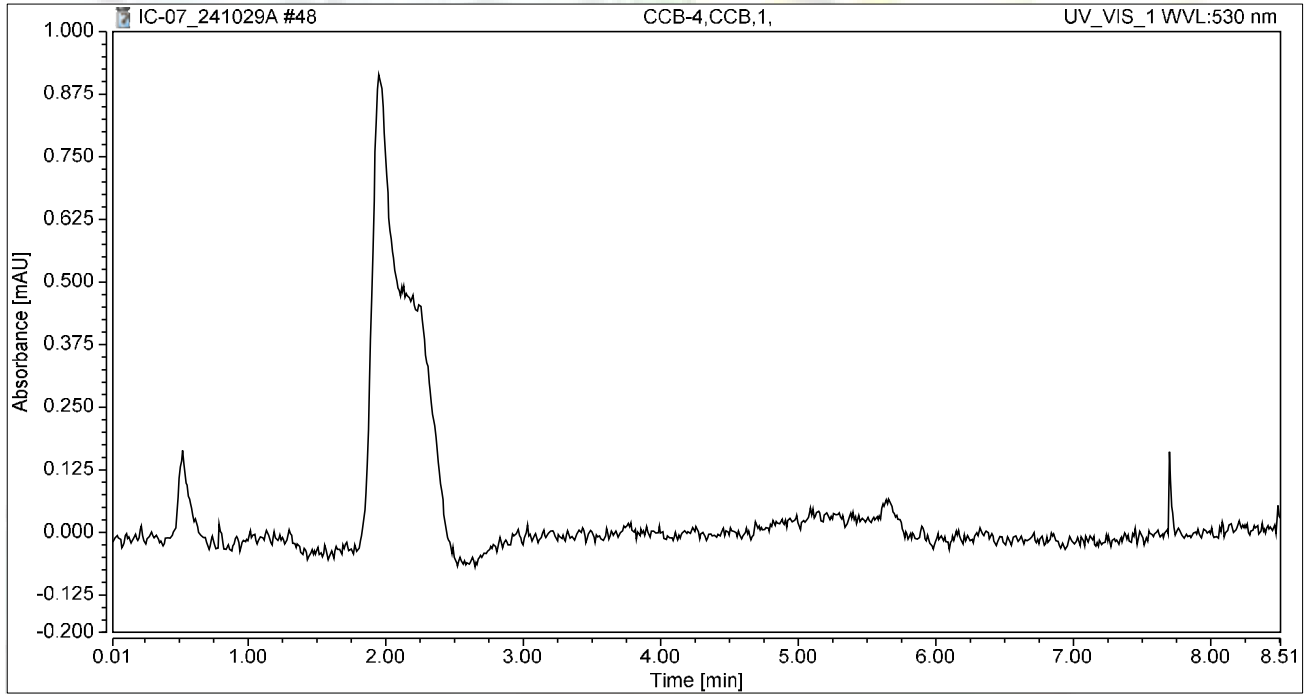
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	2.798	16.069	100.00	100.00	9.8617
Total:			2.798	16.069	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-4,CCB,1,	Run Time (min):	8.49
Vial Number:	34	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 15:52	Sample Weight:	1.0000

Chromatogram



Integration Results

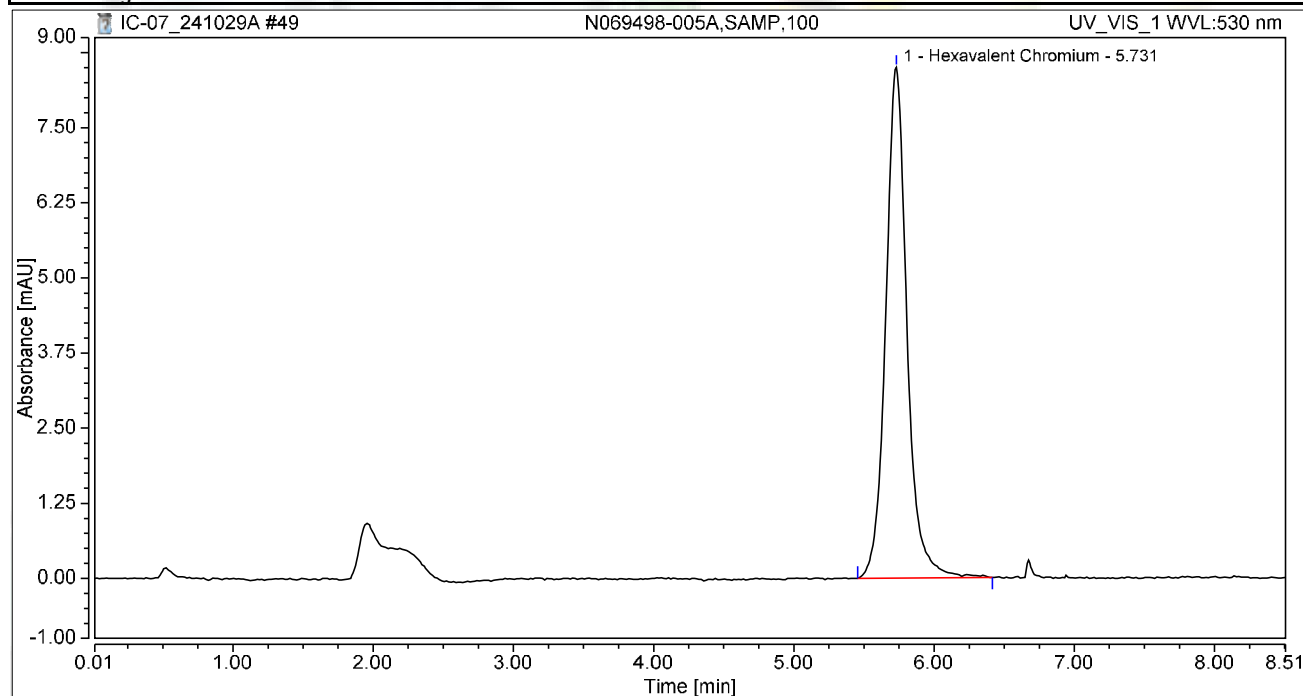
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069498-005A,SAMP,100	Run Time (min):	8.49
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 16:01	Sample Weight:	1.0000

Chromatogram



Integration Results

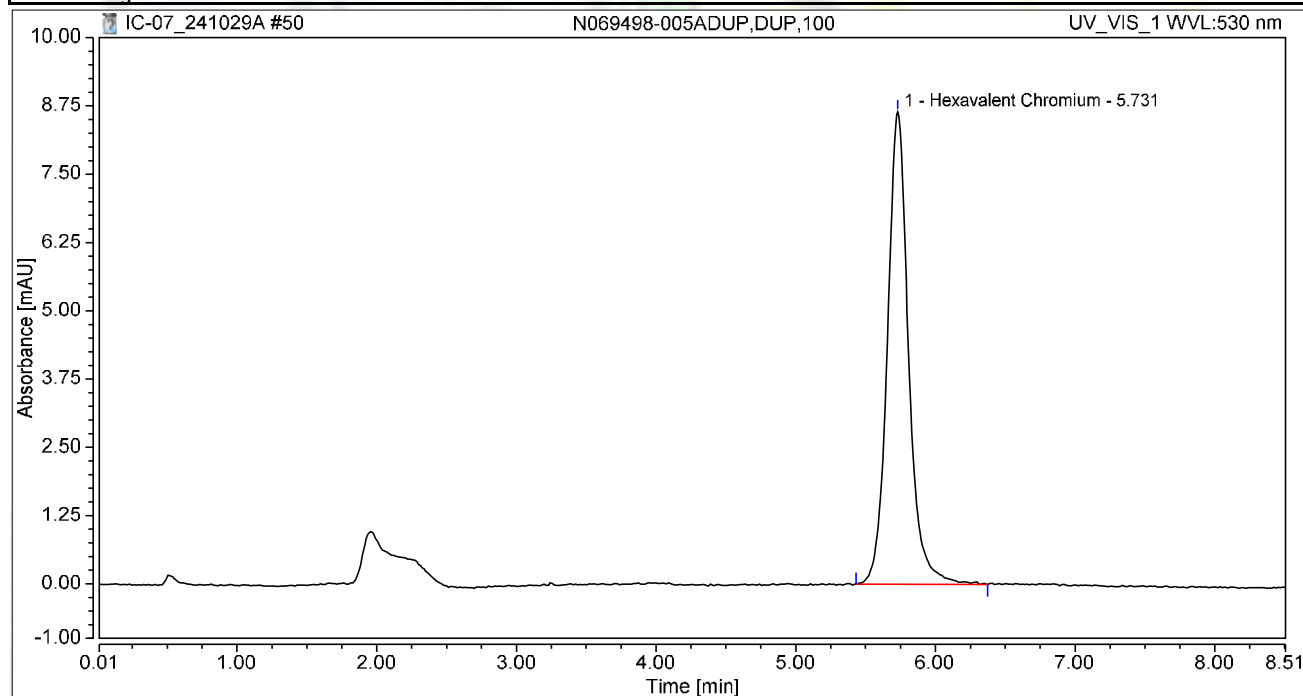
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	1.491	8.501	100.00	100.00	5.2536
Total:			1.491	8.501	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069498-005ADUP,DUP,100	Run Time (min):	8.49
Vial Number:	36	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 16:11	Sample Weight:	1.0000

Chromatogram



Integration Results

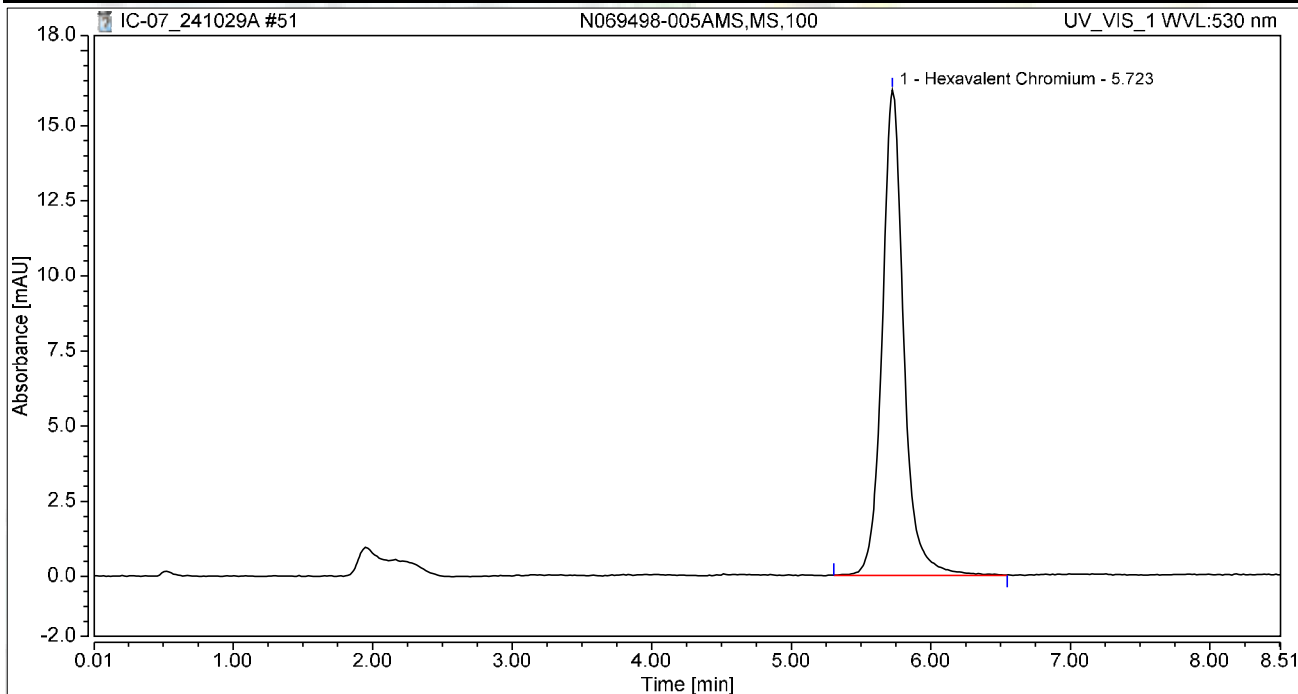
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	1.519	8.654	100.00	100.00	5.3518
Total:			1.519	8.654	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069498-005AMS,MS,100	Run Time (min):	8.50
Vial Number:	37	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 16:20	Sample Weight:	1.0000

Chromatogram



Integration Results

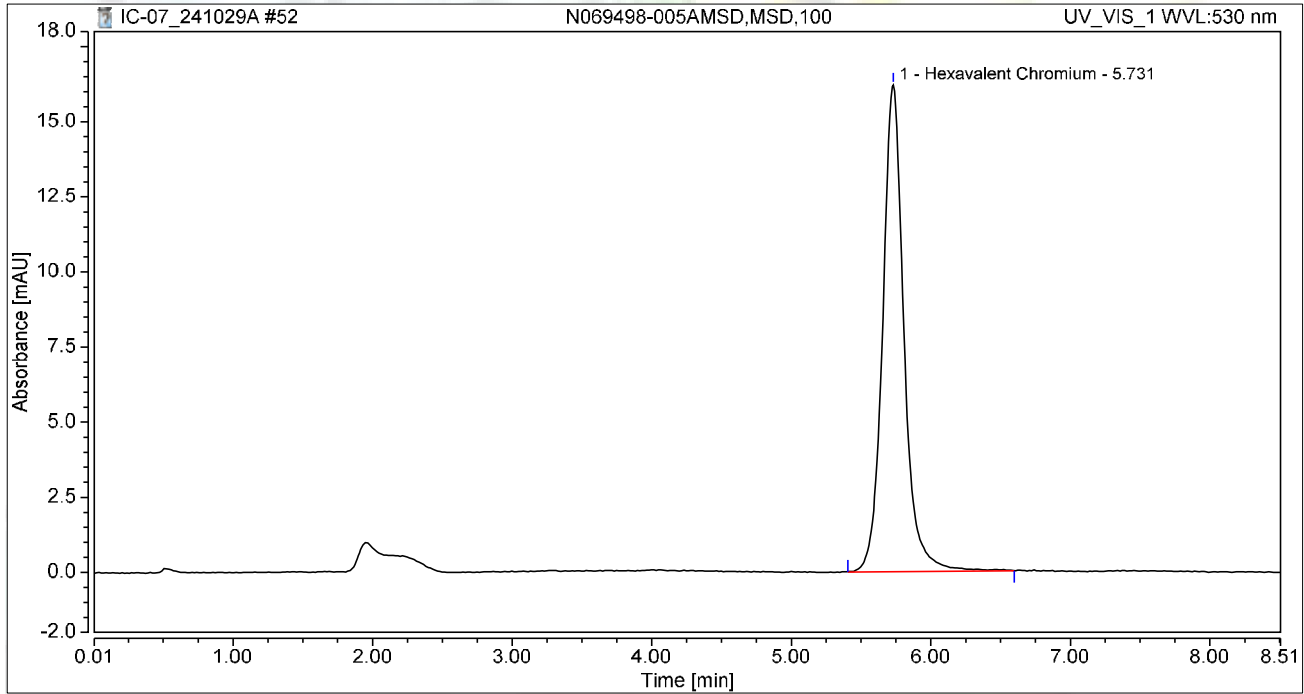
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	2.880	16.158	100.00	100.00	10.1482
Total:			2.880	16.158	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069498-005AMSD,MSD,100	Run Time (min):	8.50
Vial Number:	38	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 16:30	Sample Weight:	1.0000

Chromatogram



Integration Results

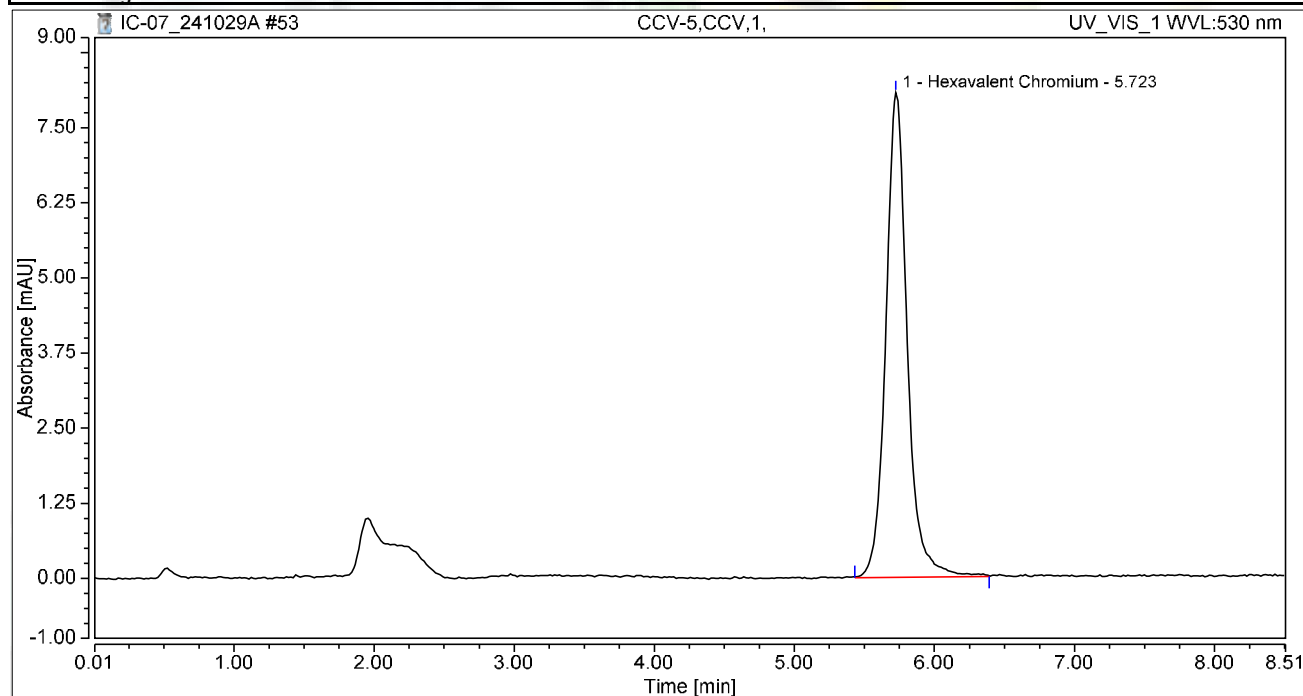
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	2.865	16.198	100.00	100.00	10.0960
Total:			2.865	16.198	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.50
Vial Number:	39	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 16:39	Sample Weight:	1.0000

Chromatogram



Integration Results

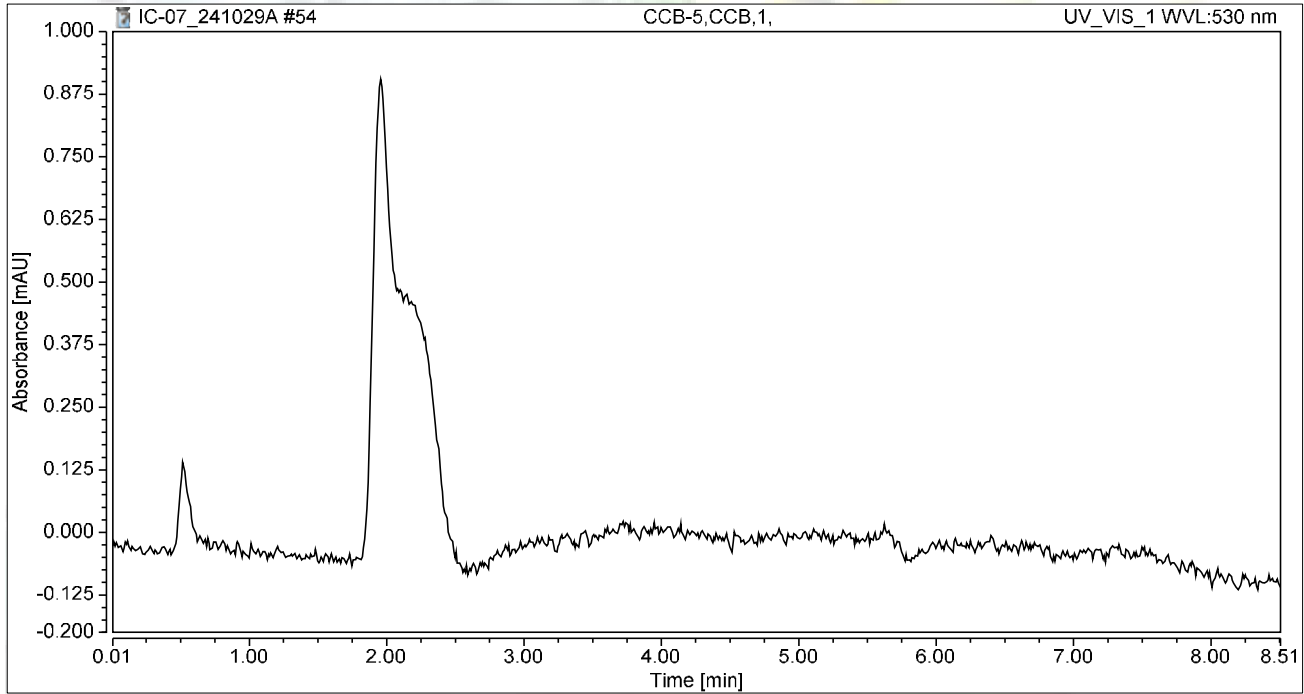
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	1.422	8.061	100.00	100.00	5.0128
Total:			1.422	8.061	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.50
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 16:49	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	



Reviewed by:

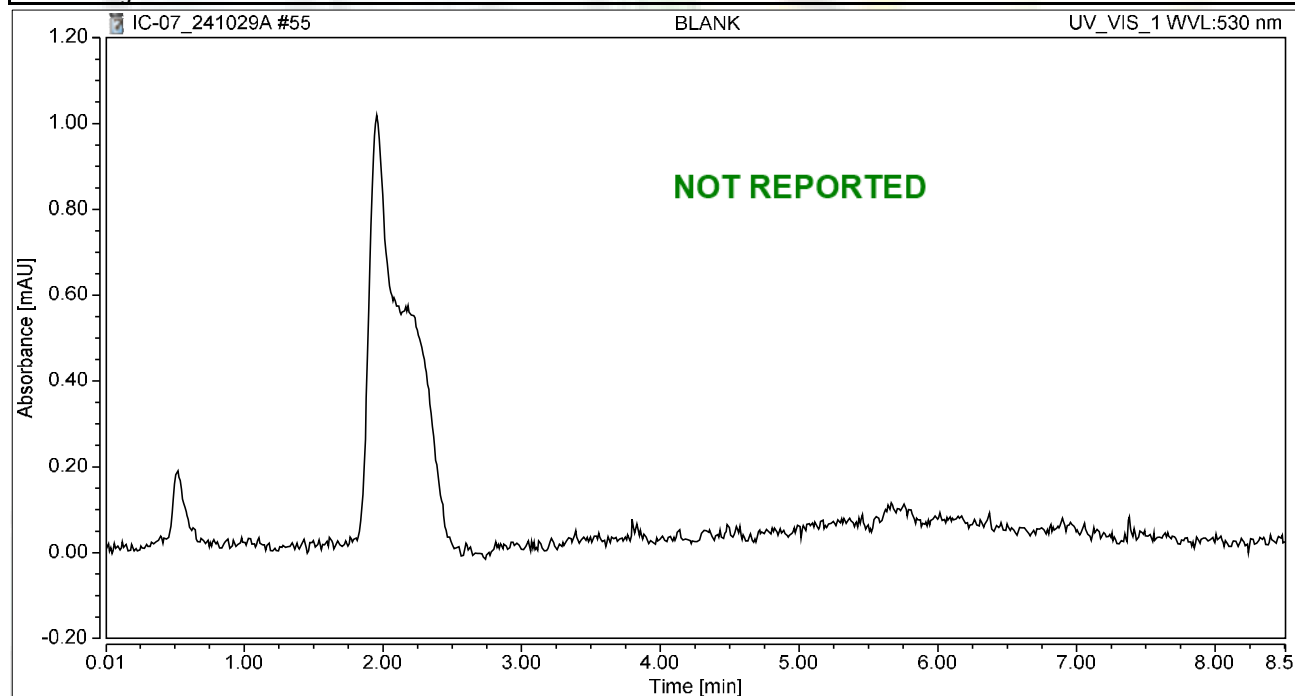
d/Rocha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	41	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	n.a.
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	29/Oct/24 16:58	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

RAW DATA



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"Serving Clients with Passion and Professionalism"

INJECTION LOG: 241030A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	10/30/24 9:17 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	10/30/24 9:28 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/30/24 9:37 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	10/30/24 9:46 AM	Reported
13	MB-R195027	MBLK	1	Hexavalent Chromium	10/30/24 9:56 AM	Reported
14	LCS-R195027	LCS	1	Hexavalent Chromium	10/30/24 10:05 AM	Reported
15	N069498-001A	SAMP	50	Hexavalent Chromium	10/30/24 10:15 AM	Reported
16	N069498-001ADUP	DUP	50	Hexavalent Chromium	10/30/24 10:24 AM	Reported
17	N069498-001AMS	MS	50	Hexavalent Chromium	10/30/24 10:34 AM	Reported
18	N069543-004A	SAMP	10	Hexavalent Chromium	10/30/24 11:08 AM	Reported
19	N069543-010A	SAMP	5	Hexavalent Chromium	10/30/24 11:19 AM	Reported
20	N069543-016A	SAMP	5	Hexavalent Chromium	10/30/24 11:29 AM	Reported
21	N069543-004AMS	MS	10	Hexavalent Chromium	10/30/24 11:38 AM	Reported
22	N069543-004AMSD	MSD	10	Hexavalent Chromium	10/30/24 11:48 AM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	10/30/24 11:57 AM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	10/30/24 12:06 PM	Reported
25	N069543-007A	SAMP	1	Hexavalent Chromium	10/30/24 12:16 PM	Reported
26	N069543-010AMS	MS	5	Hexavalent Chromium	10/30/24 12:25 PM	Reported
27	N069543-016AMS	MS	5	Hexavalent Chromium	10/30/24 12:35 PM	Reported
28	N069543-011A	SAMP	1	Hexavalent Chromium	10/30/24 12:44 PM	Reported
29	N069543-011AMS	MS	1	Hexavalent Chromium	10/30/24 12:54 PM	Not Reported
30	N069543-012A	SAMP	1	Hexavalent Chromium	10/30/24 1:03 PM	Reported
31	N069543-012AMS	MS	1	Hexavalent Chromium	10/30/24 1:13 PM	Reported
32	N069543-013A	SAMP	1	Hexavalent Chromium	10/30/24 1:22 PM	Reported
33	N069543-013AMS	MS	1	Hexavalent Chromium	10/30/24 1:32 PM	Reported
34	N069543-007AMS	MS	1	Hexavalent Chromium	10/30/24 1:41 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	10/30/24 1:50 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	10/30/24 2:00 PM	Reported
37	N069543-015A	SAMP	1	Hexavalent Chromium	10/30/24 2:09 PM	Reported
38	N069543-015AMS	MS	1	Hexavalent Chromium	10/30/24 2:19 PM	Reported
39	N069542-001A	SAMP	1	Hexavalent Chromium	10/30/24 2:28 PM	Not Reported
40	N069542-001AMS	MS	1	Hexavalent Chromium	10/30/24 2:38 PM	Not Reported
41	N069542-002A	SAMP	1	Hexavalent Chromium	10/30/24 2:47 PM	Not Reported
42	N069542-002AMS	MS	1	Hexavalent Chromium	10/30/24 2:57 PM	Not Reported

INJECTION LOG: 241030A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069542-003A	SAMP	1	Hexavalent Chromium	10/30/24 3:06 PM	Not Reported
44	N069542-003AMS	MS	1	Hexavalent Chromium	10/30/24 3:16 PM	Not Reported
45	N069543-001A	SAMP	1	Hexavalent Chromium	10/30/24 3:26 PM	Not Reported
46	N069543-001AMS	MS	1	Hexavalent Chromium	10/30/24 3:37 PM	Not Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	10/30/24 3:46 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	10/30/24 3:56 PM	Reported
49	N069543-002A	SAMP	1	Hexavalent Chromium	10/30/24 4:05 PM	Not Reported
50	N069543-002AMS	MS	1	Hexavalent Chromium	10/30/24 4:14 PM	Not Reported
51	N069543-003A	SAMP	1	Hexavalent Chromium	10/30/24 4:24 PM	Not Reported
52	N069543-003AMS	MS	1	Hexavalent Chromium	10/30/24 4:33 PM	Not Reported
53	N069543-005A	SAMP	1	Hexavalent Chromium	10/30/24 4:43 PM	Not Reported
54	N069543-005AMS	MS	1	Hexavalent Chromium	10/30/24 4:52 PM	Not Reported
55	N069543-006A	SAMP	5	Hexavalent Chromium	10/30/24 5:02 PM	Reported
56	N069543-006AMS	MS	5	Hexavalent Chromium	10/30/24 5:11 PM	Reported
57	N069543-008A	SAMP	1	Hexavalent Chromium	10/30/24 5:21 PM	Not Reported
58	N069543-008AMS	MS	1	Hexavalent Chromium	10/30/24 5:30 PM	Not Reported
59	CCV-5	CCV	1	Hexavalent Chromium	10/30/24 5:40 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	10/30/24 5:49 PM	Reported
61	N069543-009A	SAMP	1	Hexavalent Chromium	10/30/24 5:59 PM	Not Reported
62	N069543-009AMS	MS	1	Hexavalent Chromium	10/30/24 6:08 PM	Not Reported
63	N069543-014A	SAMP	1	Hexavalent Chromium	10/30/24 6:17 PM	Not Reported
64	N069543-014AMS	MS	1	Hexavalent Chromium	10/30/24 6:27 PM	Not Reported
65	N069543-017A	SAMP	5	Hexavalent Chromium	10/30/24 6:36 PM	Reported
66	N069543-017AMS	MS	5	Hexavalent Chromium	10/30/24 6:46 PM	Reported
67	N069542-001A	SAMP	5	Hexavalent Chromium	10/30/24 6:55 PM	Reported
68	N069542-001AMS	MS	5	Hexavalent Chromium	10/30/24 7:05 PM	Reported
69	N069542-002A	SAMP	5	Hexavalent Chromium	10/30/24 7:14 PM	Reported
70	N069542-002AMS	MS	5	Hexavalent Chromium	10/30/24 7:24 PM	Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	10/30/24 7:33 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	10/30/24 7:43 PM	Reported
73	N069542-003A	SAMP	5	Hexavalent Chromium	10/30/24 7:52 PM	Reported
74	N069542-003AMS	MS	5	Hexavalent Chromium	10/30/24 8:01 PM	Reported
75	N069543-001A	SAMP	5	Hexavalent Chromium	10/30/24 8:11 PM	Reported
76	N069543-001AMS	MS	5	Hexavalent Chromium	10/30/24 8:20 PM	Reported
77	N069543-002A	SAMP	5	Hexavalent Chromium	10/30/24 8:30 PM	Reported
78	N069543-002AMS	MS	5	Hexavalent Chromium	10/30/24 8:39 PM	Reported
79	N069543-003A	SAMP	5	Hexavalent Chromium	10/30/24 8:49 PM	Not Reported
80	N069543-003AMS	MS	5	Hexavalent Chromium	10/30/24 8:58 PM	Not Reported
81	N069543-005A	SAMP	5	Hexavalent Chromium	10/30/24 9:08 PM	Reported
82	N069543-005AMS	MS	5	Hexavalent Chromium	10/30/24 9:17 PM	Reported
83	CCV-7	CCV	1	Hexavalent Chromium	10/30/24 9:27 PM	Reported
84	CCB-7	CCB	1	Hexavalent Chromium	10/30/24 9:36 PM	Reported

For RBA

jm 11/18/2024 179

INJECTION LOG: 241030A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N069543-008A	SAMP	5	Hexavalent Chromium	10/30/24 9:45 PM	Reported
86	N069543-008AMS	MS	5	Hexavalent Chromium	10/30/24 9:55 PM	Reported
87	N069543-009A	SAMP	5	Hexavalent Chromium	10/30/24 10:04 PM	Reported
88	N069543-009AMS	MS	5	Hexavalent Chromium	10/30/24 10:14 PM	Reported
89	N069543-014A	SAMP	5	Hexavalent Chromium	10/30/24 10:23 PM	Reported
90	N069543-014AMS	MS	5	Hexavalent Chromium	10/30/24 10:33 PM	Reported
91	N069543-011AMS	MS	1	Hexavalent Chromium	10/30/24 10:42 PM	Reported
92	CCV-8	CCV1	1	Hexavalent Chromium	10/30/24 10:52 PM	Reported
93	CCB-8	CCB	1	Hexavalent Chromium	10/30/24 11:01 PM	Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241030A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	30/Oct/24 23:31:55
No. of Injections:	96	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	BLANK	1	1000	Unknown		10/30/2024 09:17	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		10/30/2024 09:28	Finished	CCV @5ppb, IWST-240729A
11	PQL@0.2ppb,CCV2,	3	1000	Unknown		10/30/2024 09:37	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		10/30/2024 09:46	Finished	CCB R241001A
13	MB-H2O,MBLK,1,	5	1000	Unknown		10/30/2024 09:56	Finished	MB R241001A
14	LCS-H2O,LCS,1,	6	1000	Unknown		10/30/2024 10:05	Finished	LCS @5ppb, IWST-240729B
15	N069498-001A,SAMP	7	1000	Unknown		10/30/2024 10:15	Finished	SAMP,0.2>10 mL
16	N069498-001ADUP,D	8	1000	Unknown		10/30/2024 10:24	Finished	DUP,0.2>10 mL
17	N069498-001AMS,MS	9	1000	Unknown		10/30/2024 10:34	Finished	MS (5ppb), IWST-240729B,0.2
18	N069543-004A,SAMP	1	1000	Unknown		10/30/2024 11:08	Finished	SAMP,1>10 mL
19	N069543-010A,SAMP	2	1000	Unknown		10/30/2024 11:19	Finished	SAMP,2>10 mL
20	N069543-016A,SAMP	3	1000	Unknown		10/30/2024 11:29	Finished	SAMP,2>10 mL
21	N069543-004AMS,MS	4	1000	Unknown		10/30/2024 11:38	Finished	MS (5ppb), IWST-240729B,1>
22	N069543-004AMSD,N	5	1000	Unknown		10/30/2024 11:48	Finished	MSD (5ppb), IWST-240729B,1
23	CCV-2,CCV1,1,	6	1000	Unknown		10/30/2024 11:57	Finished	CCV @10ppb, IWST-240729A
24	CCB-2,CCB,1,	7	1000	Unknown		10/30/2024 12:06	Finished	CCB R241001A
25	N069543-007A,SAMP	8	1000	Unknown		10/30/2024 12:16	Finished	SAMP,10 mL
26	N069543-010AMS,MS	9	1000	Unknown		10/30/2024 12:25	Finished	MS (5ppb), IWST-240729B,2>
27	N069543-016AMS,MS	10	1000	Unknown		10/30/2024 12:35	Finished	MS (5ppb), IWST-240729B,2>
28	N069543-011A,SAMP	11	1000	Unknown		10/30/2024 12:44	Finished	SAMP,10 mL
29	N069543-011AMS,MS	12	1000	Unknown		10/30/2024 12:54	Finished	MS (5ppb), IWST-240729B,10r
30	N069543-012A,SAMP	13	1000	Unknown		10/30/2024 13:03	Finished	SAMP,10 mL
31	N069543-012AMS,MS	14	1000	Unknown		10/30/2024 13:13	Finished	MS (5ppb), IWST-240729B,10r
32	N069543-013A,SAMP	15	1000	Unknown		10/30/2024 13:22	Finished	SAMP,10 mL
33	N069543-013AMS,MS	16	1000	Unknown		10/30/2024 13:32	Finished	MS (5ppb), IWST-240729B,10r
34	N069543-007AMS,MS	17	1000	Unknown		10/30/2024 13:41	Finished	MS (1ppb), IWST-240729B,2> 10mL
35	CCV-3,CCV,1,	18	1000	Unknown		10/30/2024 13:50	Finished	CCV @5ppb, IWST-240729A
36	CCB-3,CCB,1,	19	1000	Unknown		10/30/2024 14:00	Finished	CCB R241001A
37	N069543-015A,SAMP	20	1000	Unknown		10/30/2024 14:09	Finished	SAMP,10 mL
38	N069543-015AMS,MS	21	1000	Unknown		10/30/2024 14:19	Finished	MS (5ppb), IWST-240729B,10r
39	N069542-001A,SAMP	22	1000	Unknown		10/30/2024 14:28	Finished	SAMP,10 mL
40	N069542-001AMS,MS	23	1000	Unknown		10/30/2024 14:38	Finished	MS (1ppb), IWST-240729B,10r
41	N069542-002A,SAMP	24	1000	Unknown		10/30/2024 14:47	Finished	SAMP,10 mL
42	N069542-002AMS,MS	25	1000	Unknown		10/30/2024 14:57	Finished	MS (1ppb), IWST-240729B,10r
43	N069542-003A,SAMP	26	1000	Unknown		10/30/2024 15:06	Finished	SAMP,10 mL
44	N069542-003AMS,MS	27	1000	Unknown		10/30/2024 15:16	Finished	MS (1ppb), IWST-240729B,10r
45	N069543-001A,SAMP	1	1000	Unknown		10/30/2024 15:26	Finished	SAMP,10 mL
46	N069543-001AMS,MS	2	1000	Unknown		10/30/2024 15:37	Finished	MS (1ppb), IWST-240729B,10r
47	CCV-4,CCV1,1,	3	1000	Unknown		10/30/2024 15:46	Finished	CCV @10ppb, IWST-240729A
48	CCB-4,CCB,1,	4	1000	Unknown		10/30/2024 15:56	Finished	CCB R241001A
49	N069543-002A,SAMP	5	1000	Unknown		10/30/2024 16:05	Finished	SAMP,10 mL
50	N069543-002AMS,MS	6	1000	Unknown		10/30/2024 16:14	Finished	MS (1ppb), IWST-240729B,10r
51	N069543-003A,SAMP	7	1000	Unknown		10/30/2024 16:24	Finished	SAMP,10 mL
52	N069543-003AMS,MS	8	1000	Unknown		10/30/2024 16:33	Finished	MS (1ppb), IWST-240729B,10r
53	N069543-005A,SAMP	9	1000	Unknown		10/30/2024 16:43	Finished	SAMP,10 mL
54	N069543-005AMS,MS	10	1000	Unknown		10/30/2024 16:52	Finished	MS (5ppb), IWST-240729B,10r
55	N069543-006A,SAMP	11	1000	Unknown		10/30/2024 17:02	Finished	SAMP,2>10 mL
56	N069543-006AMS,MS	12	1000	Unknown		10/30/2024 17:11	Finished	MS (5ppb), IWST-240729B,2>
57	N069543-008A,SAMP	13	1000	Unknown		10/30/2024 17:21	Finished	SAMP,10 mL
58	N069543-008AMS,MS	14	1000	Unknown		10/30/2024 17:30	Finished	MS (1ppb), IWST-240729B,10r
59	CCV-5,CCV,1,	15	1000	Unknown		10/30/2024 17:40	Finished	CCV @5ppb, IWST-240729A
60	CCB-5,CCB,1,	16	1000	Unknown		10/30/2024 17:49	Finished	CCB R241001A

61	N069543-009A,SAMP	17	1000	Unknown	10/30/2024 17:59	Finished	SAMP,10 mL
62	N069543-009AMS,M\$	18	1000	Unknown	10/30/2024 18:08	Finished	MS (1ppb), IWST-240729B,10r
63	N069543-014A,SAMP	19	1000	Unknown	10/30/2024 18:17	Finished	SAMP,10 mL
64	N069543-014AMS,M\$	20	1000	Unknown	10/30/2024 18:27	Finished	MS (5ppb), IWST-240729B,10r
65	N069543-017A,SAMP	21	1000	Unknown	10/30/2024 18:36	Finished	SAMP,2>10 mL
66	N069543-017AMS,M\$	22	1000	Unknown	10/30/2024 18:46	Finished	MS (5ppb), IWST-240729B,2>
67	N069542-001A,SAMP	23	1000	Unknown	10/30/2024 18:55	Finished	SAMP,2>10 mL
68	N069542-001AMS,M\$	24	1000	Unknown	10/30/2024 19:05	Finished	MS (1ppb), IWST-240729B,2>
69	N069542-002A,SAMP	25	1000	Unknown	10/30/2024 19:14	Finished	SAMP,2>10 mL
70	N069542-002AMS,M\$	26	1000	Unknown	10/30/2024 19:24	Finished	MS (1ppb), IWST-240729B,2>
71	CCV-6,CCV1,1,	27	1000	Unknown	10/30/2024 19:33	Finished	CCV @10ppb, IWST-240729A
72	CCB-6,CCB,1,	28	1000	Unknown	10/30/2024 19:43	Finished	CCB R241001A
73	N069542-003A,SAMP	29	1000	Unknown	10/30/2024 19:52	Finished	SAMP,2>10 mL
74	N069542-003AMS,M\$	30	1000	Unknown	10/30/2024 20:01	Finished	MS (1ppb), IWST-240729B,2>
75	N069543-001A,SAMP	31	1000	Unknown	10/30/2024 20:11	Finished	SAMP,2>10 mL
76	N069543-001AMS,M\$	32	1000	Unknown	10/30/2024 20:20	Finished	MS (1ppb), IWST-240729B,2>
77	N069543-002A,SAMP	33	1000	Unknown	10/30/2024 20:30	Finished	SAMP,2>10 mL
78	N069543-002AMS,M\$	34	1000	Unknown	10/30/2024 20:39	Finished	MS (1ppb), IWST-240729B,2>
79	N069543-003A,SAMP	35	1000	Unknown	10/30/2024 20:49	Finished	SAMP,2>10 mL
80	N069543-003AMS,M\$	36	1000	Unknown	10/30/2024 20:58	Finished	MS (1ppb), IWST-240729B,2>
81	N069543-005A,SAMP	37	1000	Unknown	10/30/2024 21:08	Finished	SAMP,2>10 mL
82	N069543-005AMS,M\$	38	1000	Unknown	10/30/2024 21:17	Finished	MS (1ppb), IWST-240729B,2>
83	CCV-7,CCV,1,	39	1000	Unknown	10/30/2024 21:27	Finished	CCV @5ppb, IWST-240729A
84	CCB-7,CCB,1,	40	1000	Unknown	10/30/2024 21:36	Finished	CCB R241001A
85	N069543-008A,SAMP	41	1000	Unknown	10/30/2024 21:45	Finished	SAMP,2>10 mL
86	N069543-008AMS,M\$	42	1000	Unknown	10/30/2024 21:55	Finished	MS (1ppb), IWST-240729B,2>
87	N069543-009A,SAMP	43	1000	Unknown	10/30/2024 22:04	Finished	SAMP,2>10 mL
88	N069543-009AMS,M\$	44	1000	Unknown	10/30/2024 22:14	Finished	MS (1ppb), IWST-240729B,2>
89	N069543-014A,SAMP	45	1000	Unknown	10/30/2024 22:23	Finished	SAMP,2>10 mL
90	N069543-014AMS,M\$	46	1000	Unknown	10/30/2024 22:33	Finished	MS (1ppb), IWST-240729B,2>
91	N069543-011AMS,M\$	47	1000	Unknown	10/30/2024 22:42	Finished	MS (1ppb), IWST-240729B,10r
92	CCV-8,CCV1,1,	48	1000	Unknown	10/30/2024 22:52	Finished	CCV @10ppb, IWST-240729A
93	CCB-8,CCB,1,	49	1000	Unknown	10/30/2024 23:01	Finished	CCB R241001A
94	SHUTDOWN	50	1000	Unknown	10/30/2024 23:11	Finished	
95	Eluent: R241029A	51	1000	Unknown	n.a.	Finished	
96	PCR: R241029B	CurrentVial	1000	Unknown	n.a.	Finished	

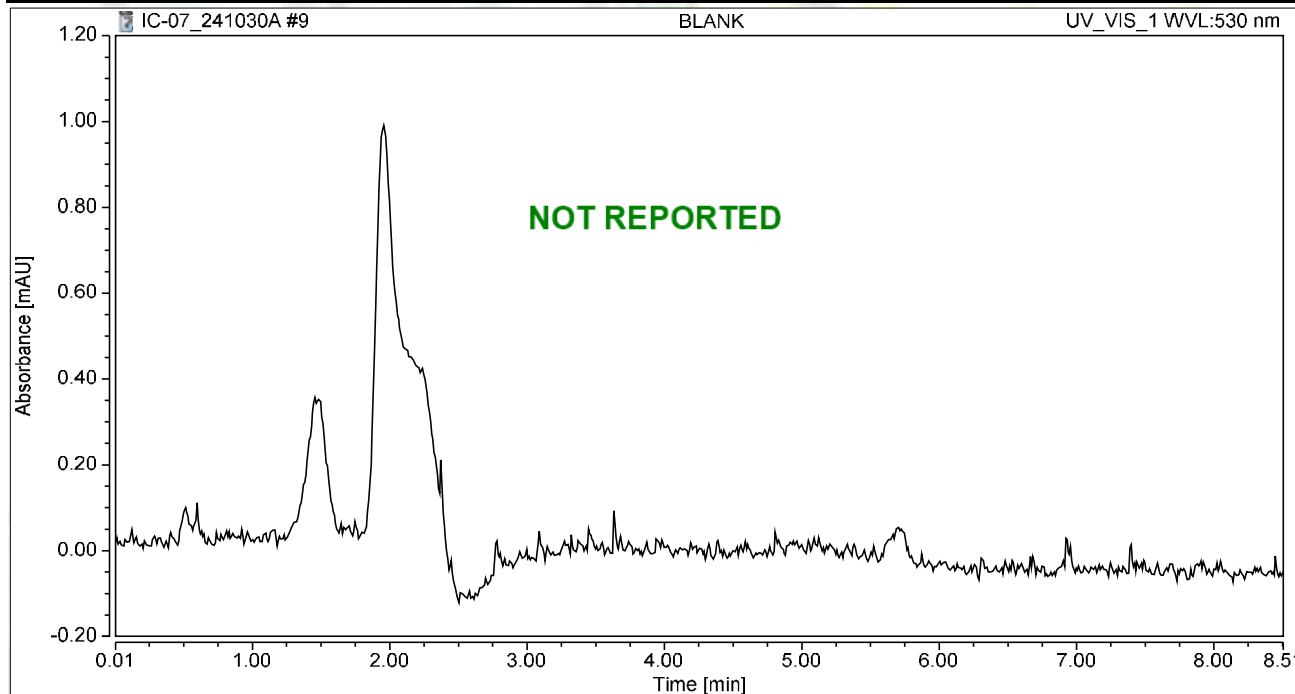


Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 09:17	Sample Weight:	1.0000

Chromatogram



Integration Results

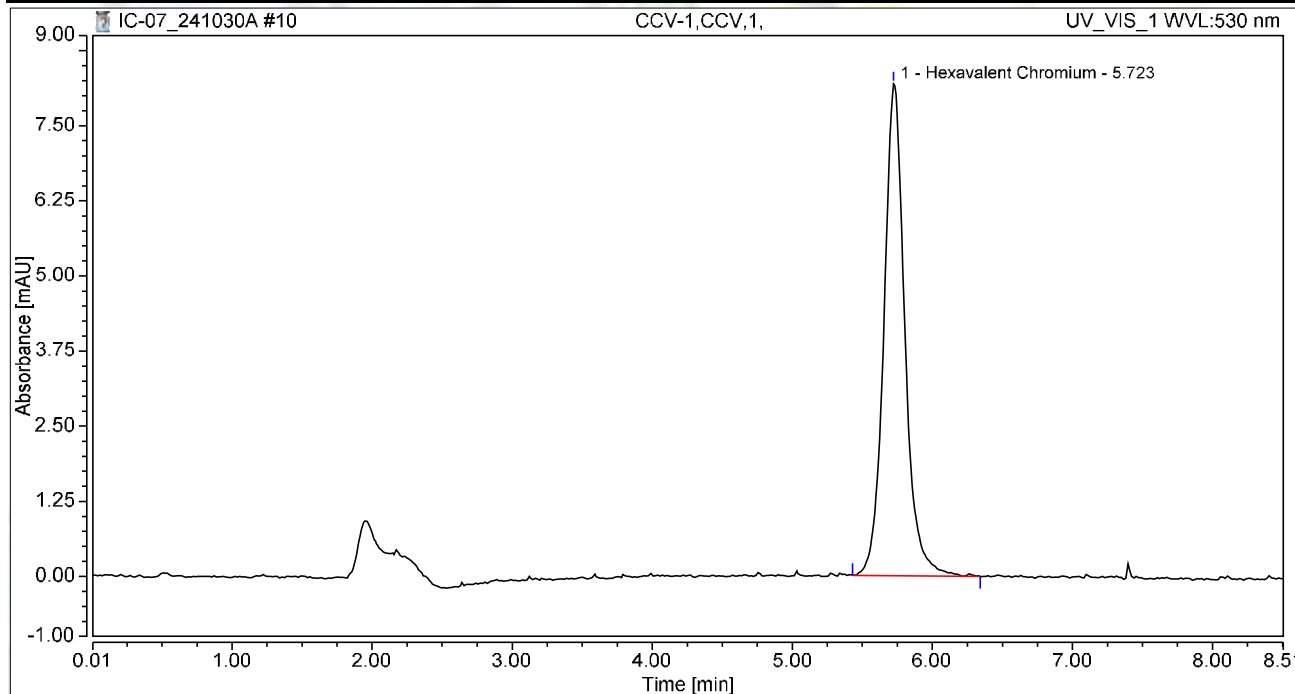
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-1,CCV,1,	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 09:28	Sample Weight:	1.0000

Chromatogram



Integration Results

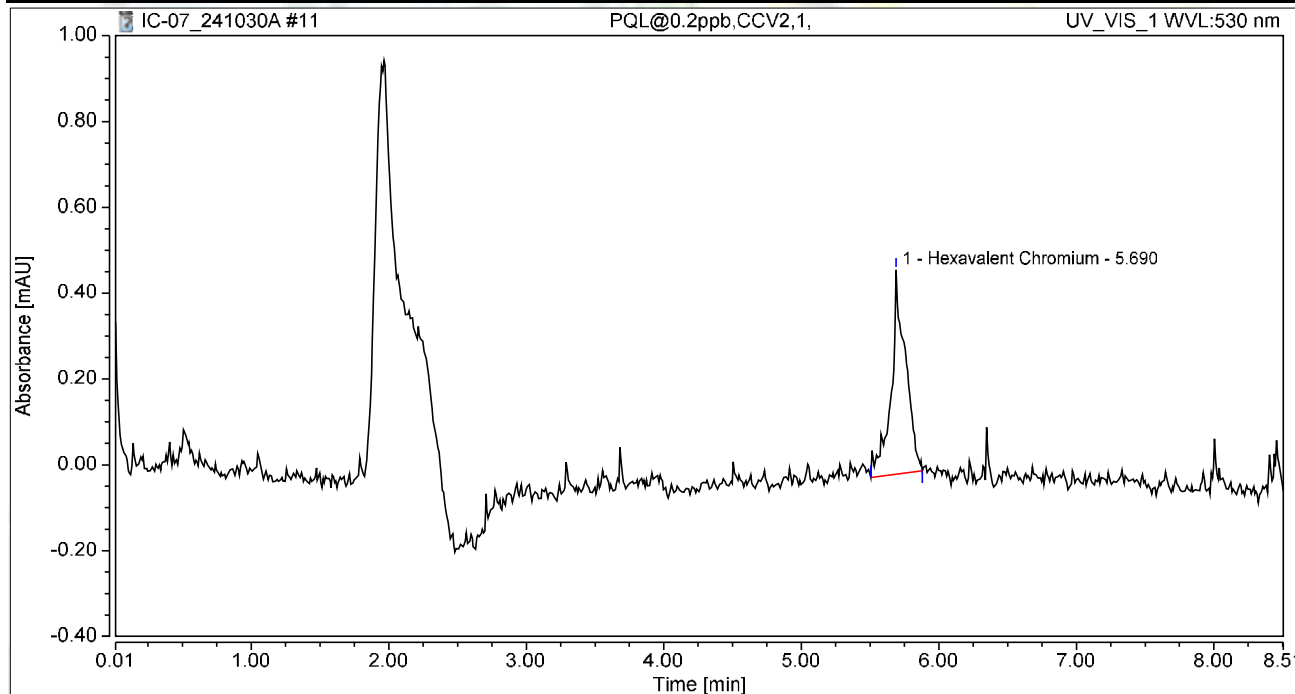
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	1.421	8.184	100.00	100.00	5.0080
Total:			1.421	8.184	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 09:37	Sample Weight:	1.0000

Chromatogram



Integration Results

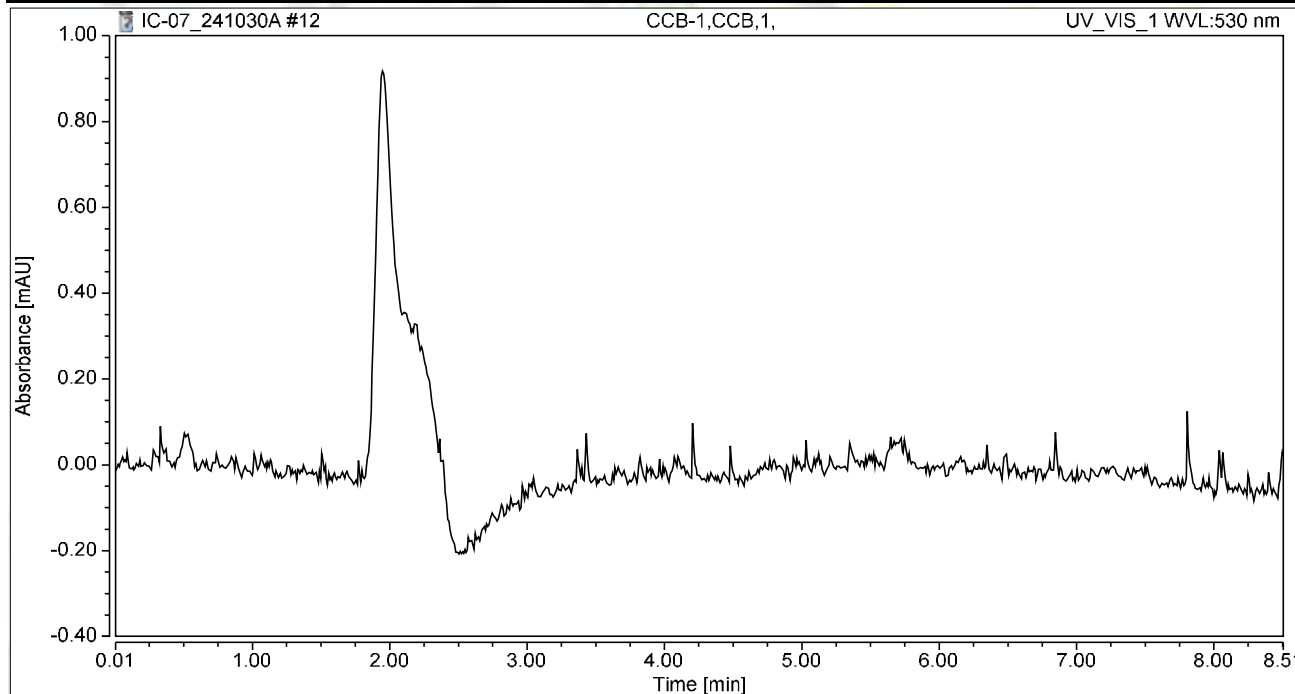
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.058	0.476	100.00	100.00	0.2039
Total:			0.058	0.476	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-1,CCB,1,	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 09:46	Sample Weight:	1.0000

Chromatogram



Integration Results

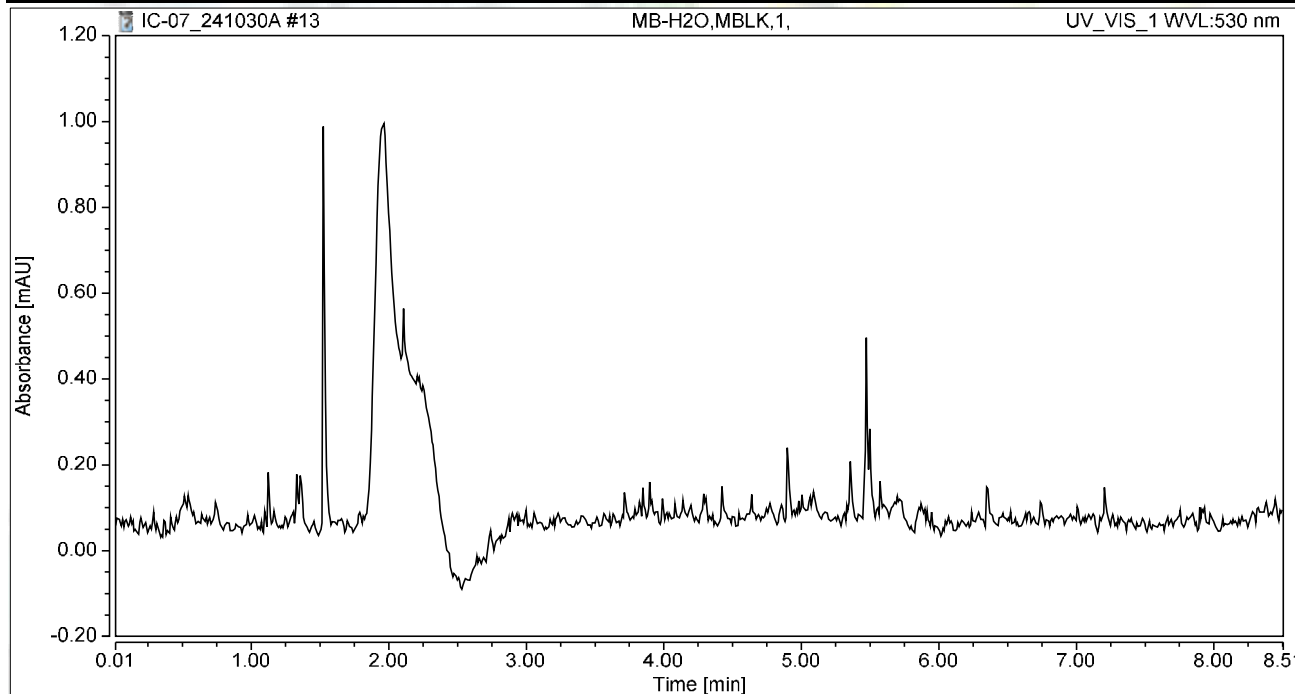
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.49
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 09:56	Sample Weight:	1.0000

Chromatogram



Integration Results

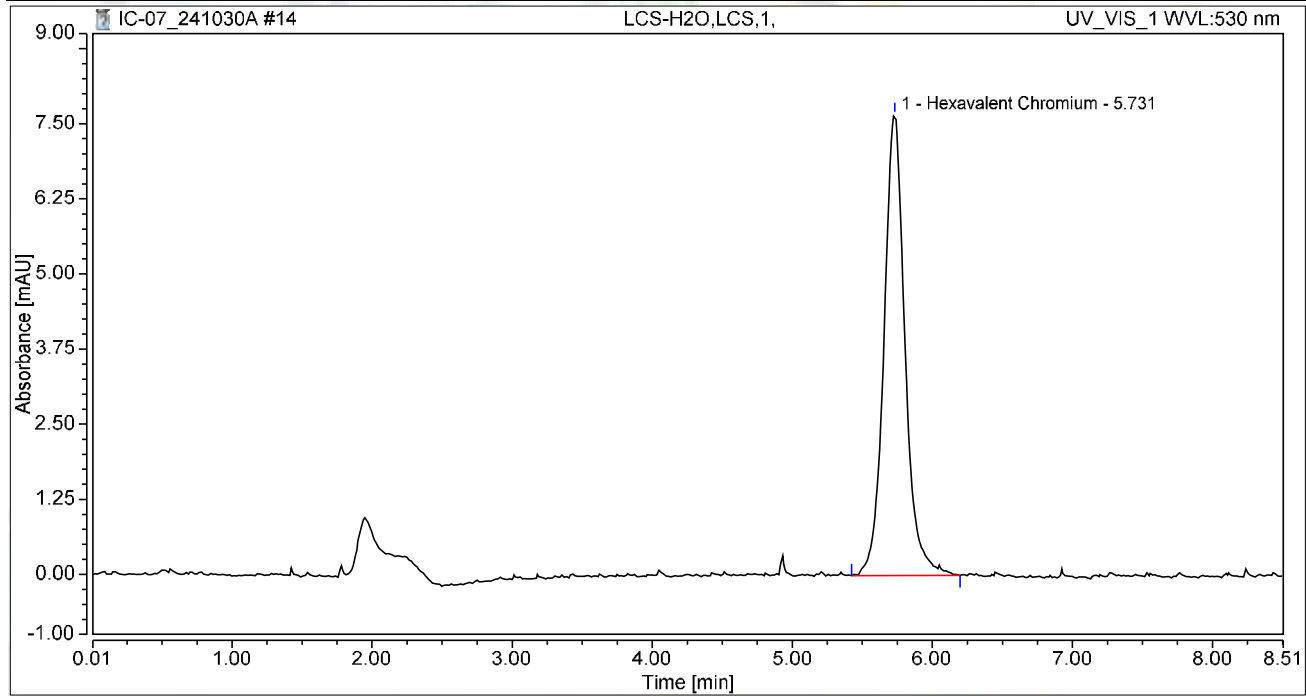
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-H2O,LCS,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 10:05	Sample Weight:	1.0000

Chromatogram



Integration Results

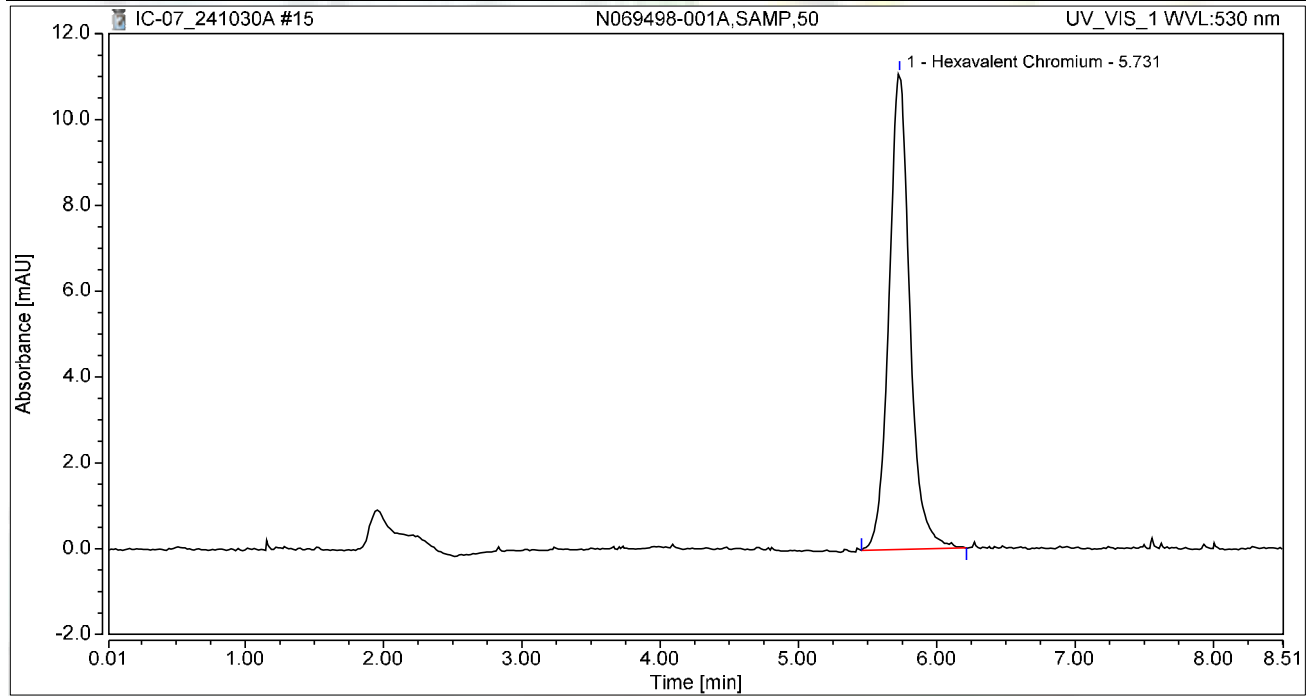
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	1.337	7.669	100.00	100.00	4.7120
Total:			1.337	7.669	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069498-001A,SAMP,50	Run Time (min):	8.49
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 10:15	Sample Weight:	1.0000

Chromatogram



Integration Results

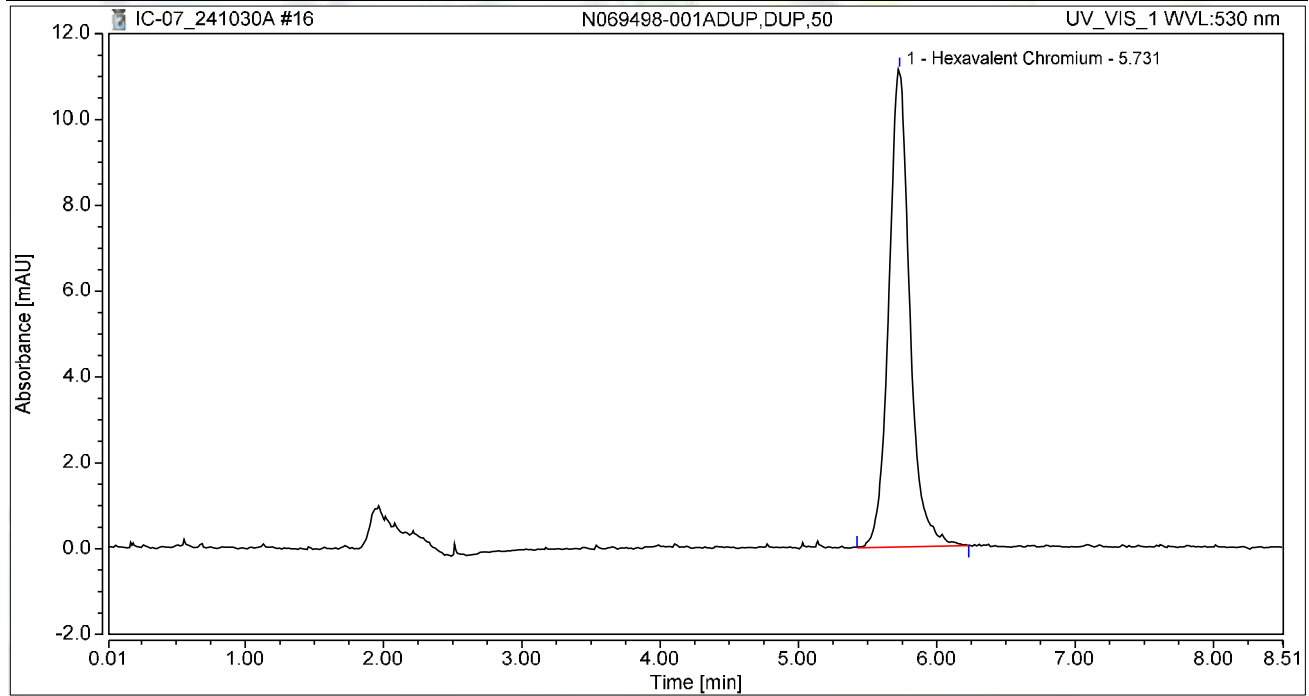
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	1.934	11.101	100.00	100.00	6.8145
Total:			1.934	11.101	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069498-001ADUP,DUP,50	Run Time (min):	8.49
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 10:24	Sample Weight:	1.0000

Chromatogram



Integration Results

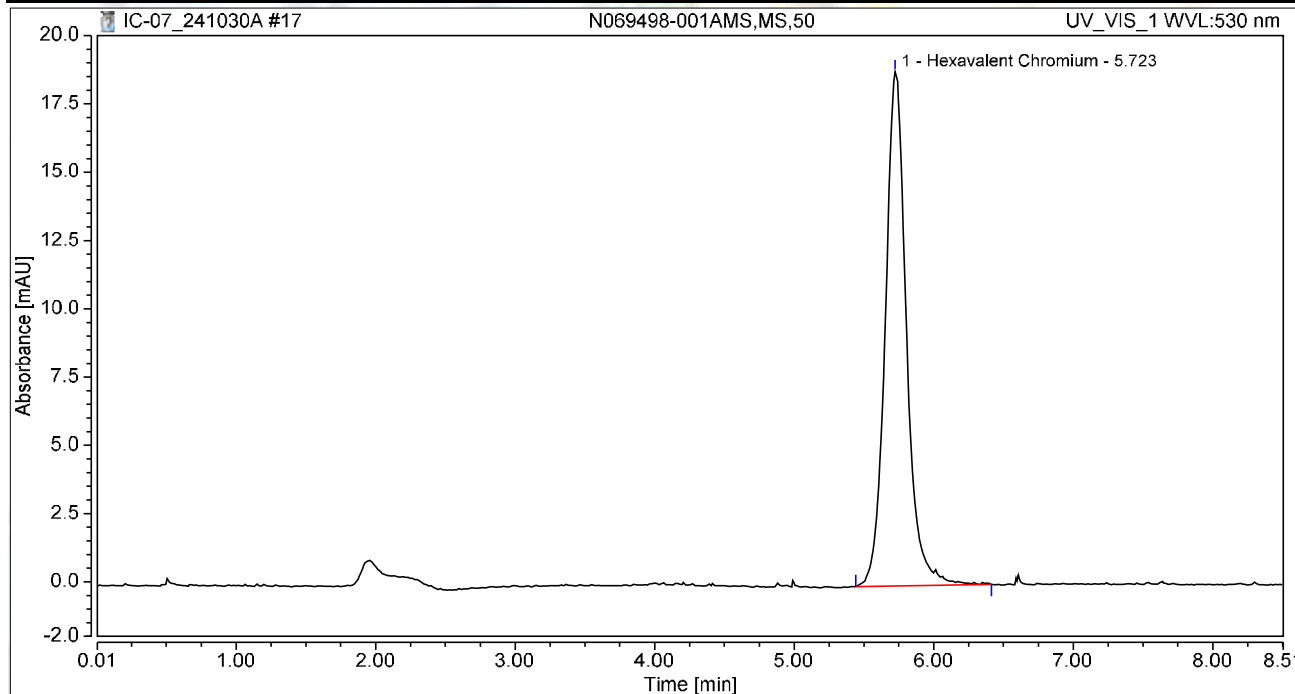
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	1.957	11.126	100.00	100.00	6.8957
Total:			1.957	11.126	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069498-001AMS,MS,50	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 10:34	Sample Weight:	1.0000

Chromatogram



Integration Results

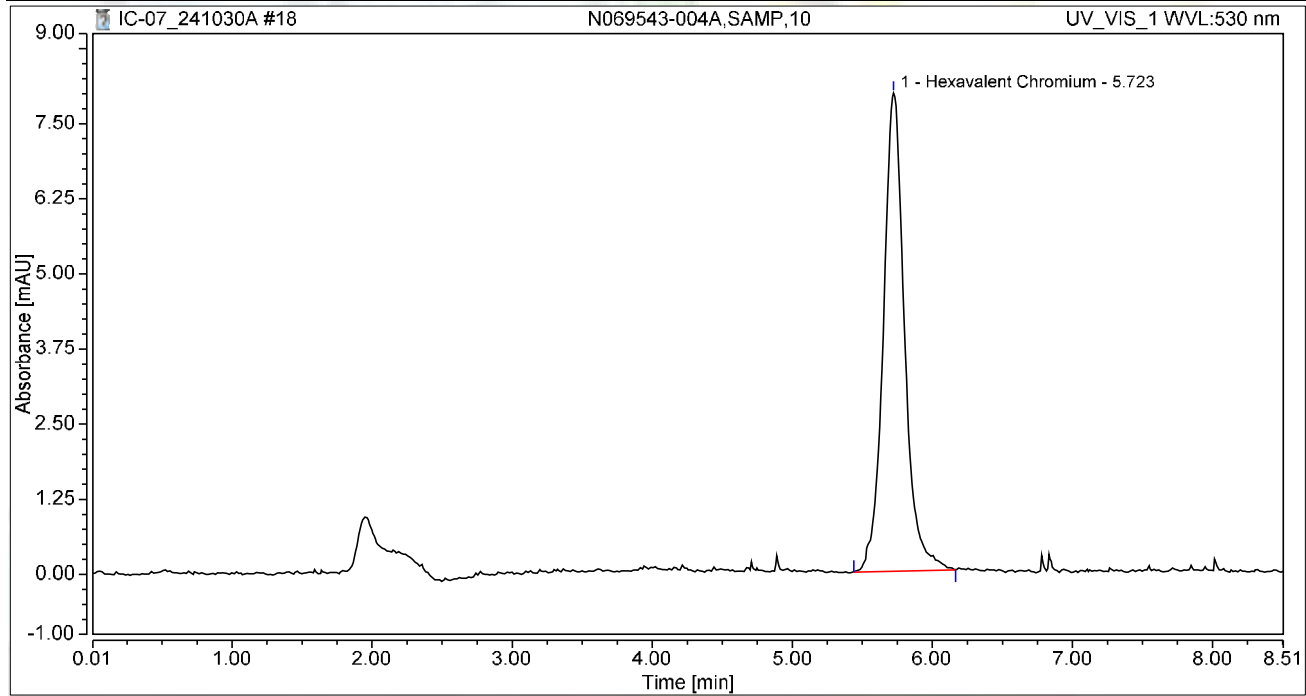
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	3.310	18.822	100.00	100.00	11.6658
Total:			3.310	18.822	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-004A,SAMP,10	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 11:08	Sample Weight:	1.0000

Chromatogram



Integration Results

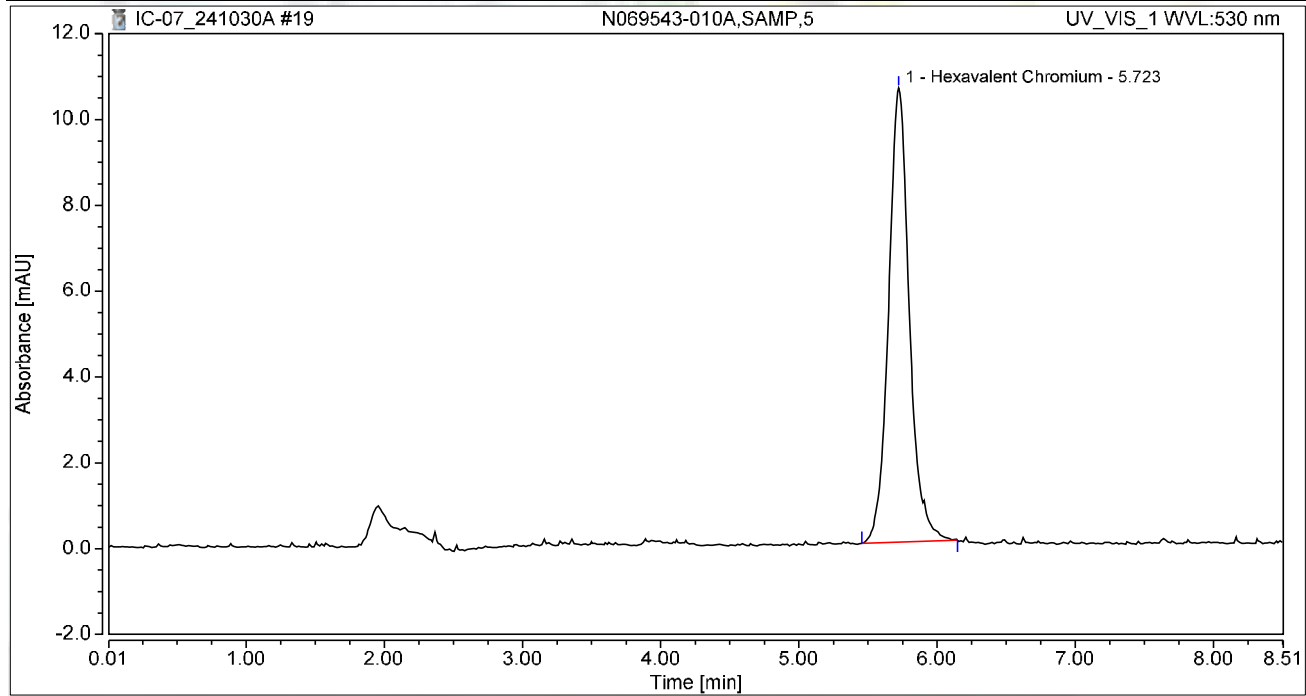
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	1.399	7.956	100.00	100.00	4.9307
Total:			1.399	7.956	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-010A,SAMP,5	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 11:19	Sample Weight:	1.0000

Chromatogram



Integration Results

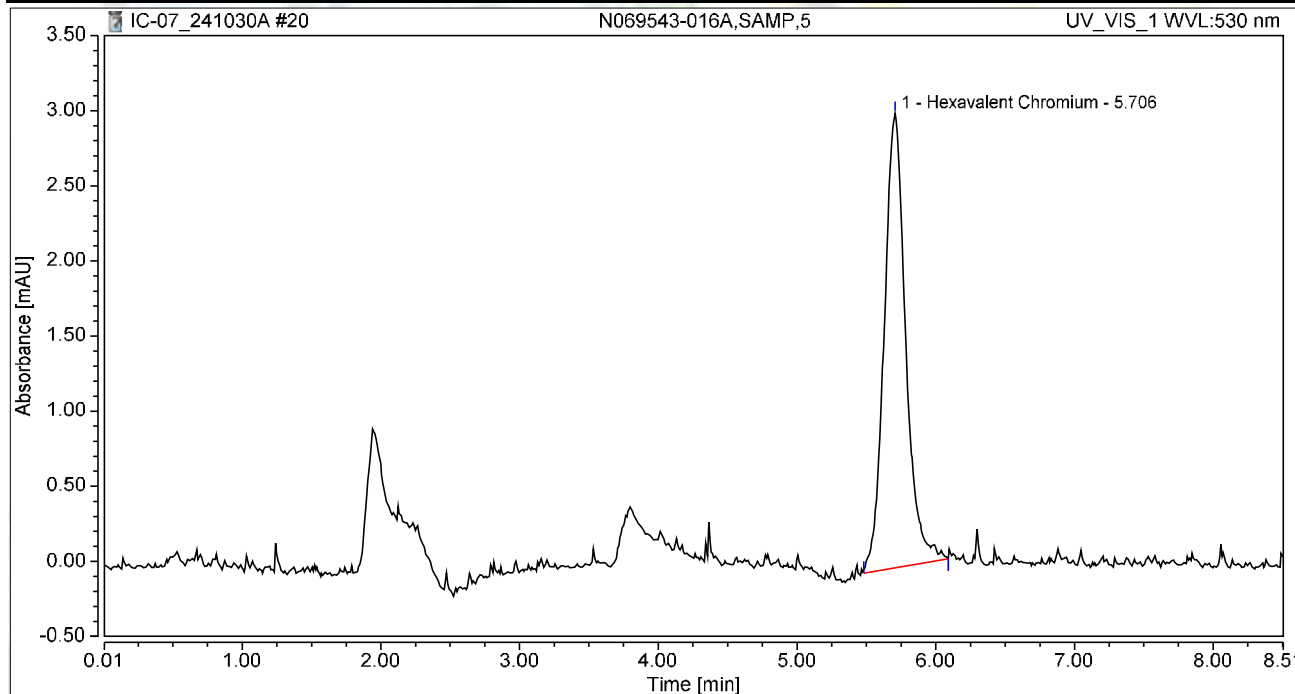
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	1.838	10.582	100.00	100.00	6.4770
Total:			1.838	10.582	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-016A,SAMP,5	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 11:29	Sample Weight:	1.0000

Chromatogram



Integration Results

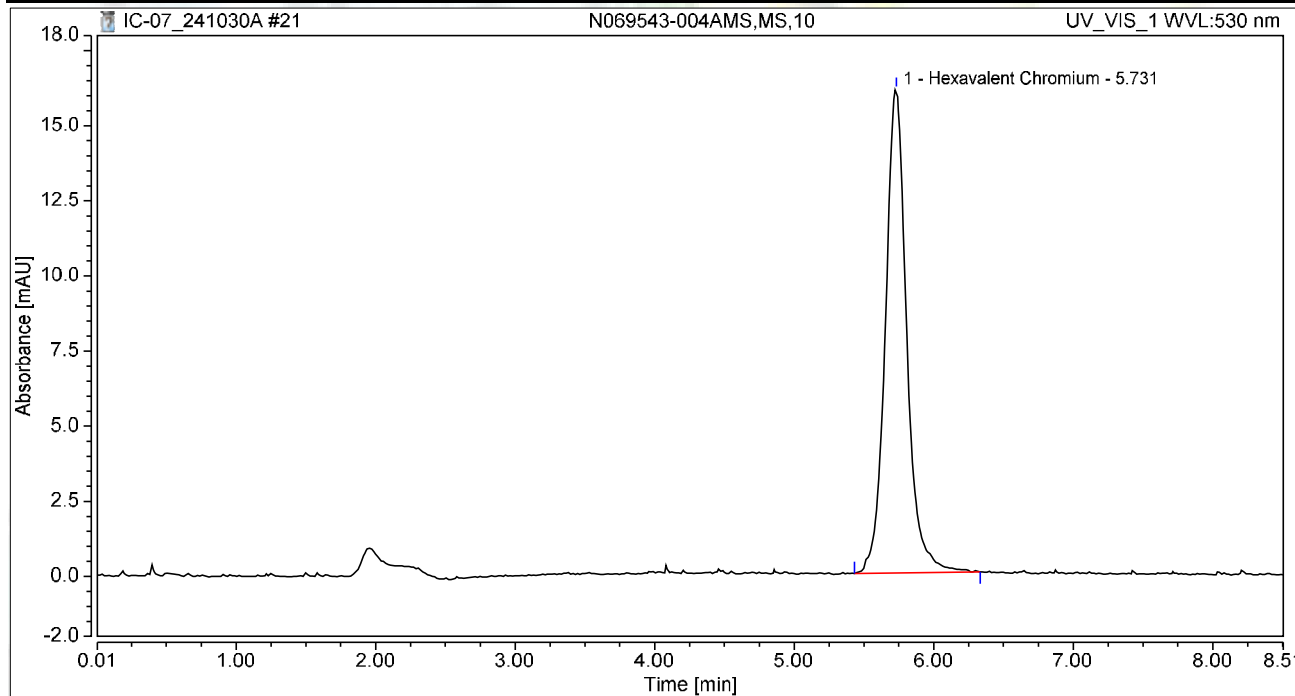
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	0.543	3.025	100.00	100.00	1.9128
Total:			0.543	3.025	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-004AMS,MS,10	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 11:38	Sample Weight:	1.0000

Chromatogram



Integration Results

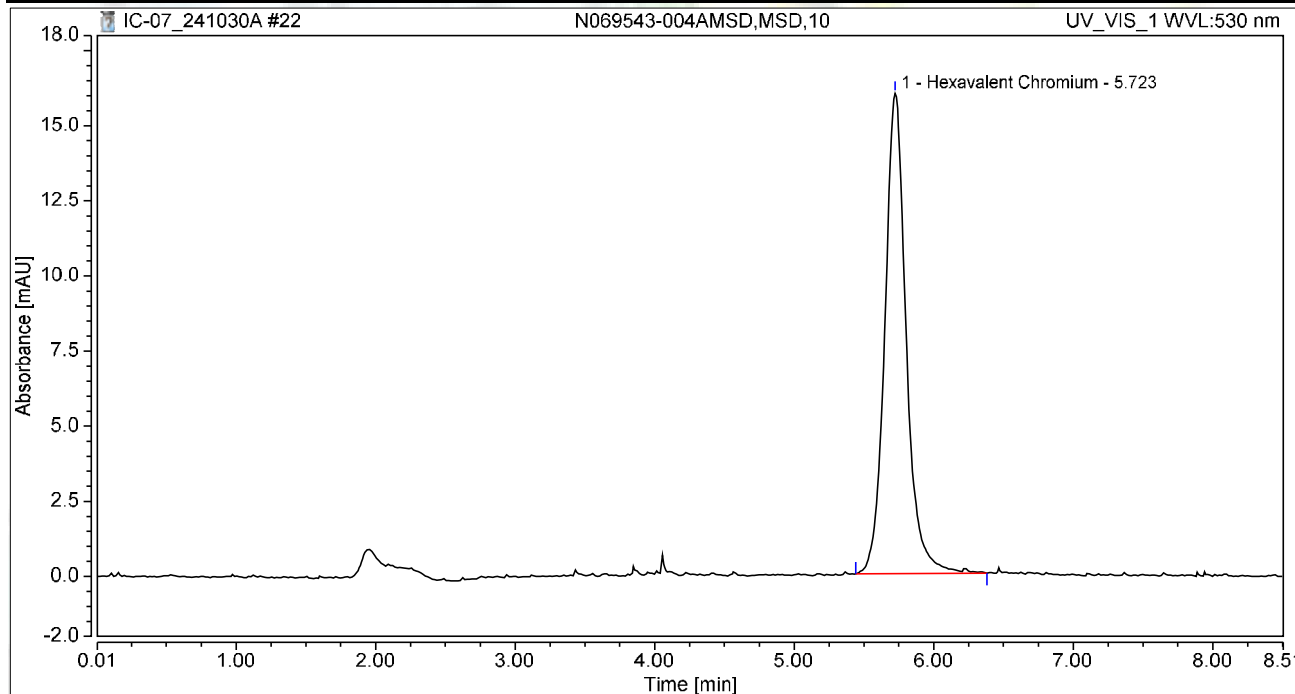
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	2.850	16.092	100.00	100.00	10.0424
Total:			2.850	16.092	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-004AMSD,MSD,10	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 11:48	Sample Weight:	1.0000

Chromatogram



Integration Results

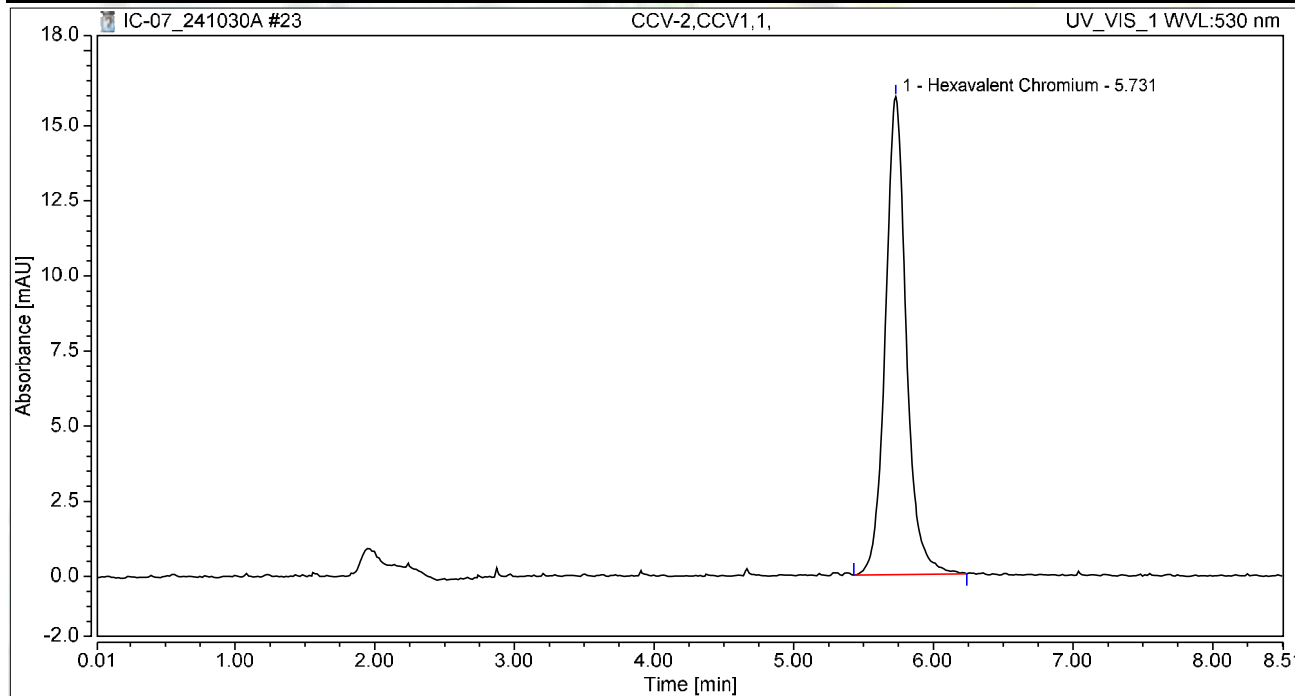
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	2.835	15.983	100.00	100.00	9.9909
Total:			2.835	15.983	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-2,CCV1,1,	Run Time (min):	8.49
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 11:57	Sample Weight:	1.0000

Chromatogram



Integration Results

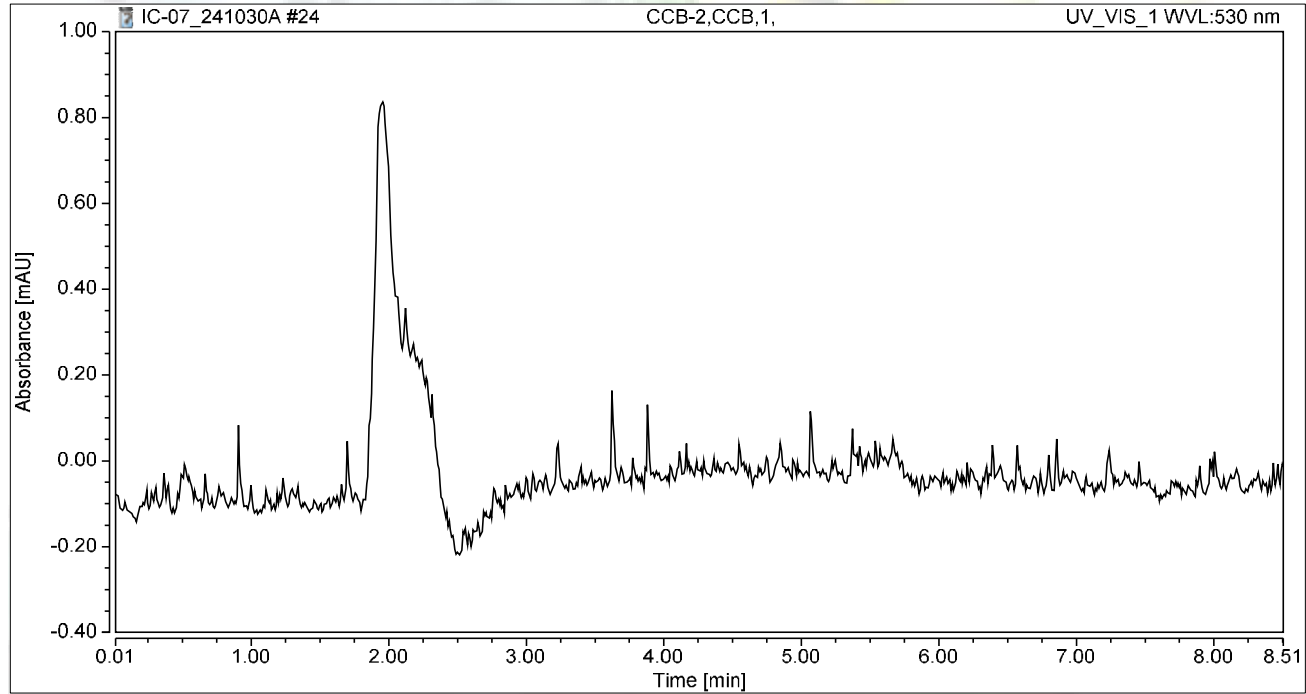
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	2.765	15.906	100.00	100.00	9.7438
Total:			2.765	15.906	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-2,CCB,1,	Run Time (min):	8.49
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 12:06	Sample Weight:	1.0000

Chromatogram



Integration Results

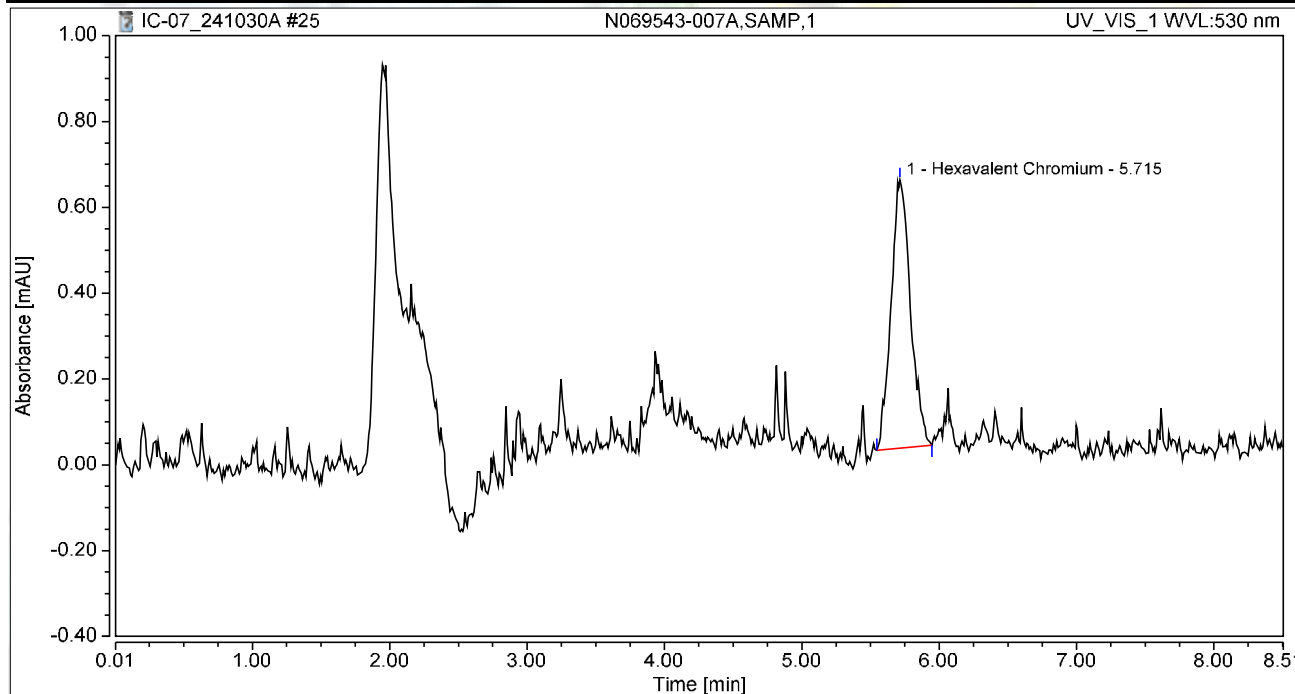
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-007A,SAMP,1	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 12:16	Sample Weight:	1.0000

Chromatogram



Integration Results

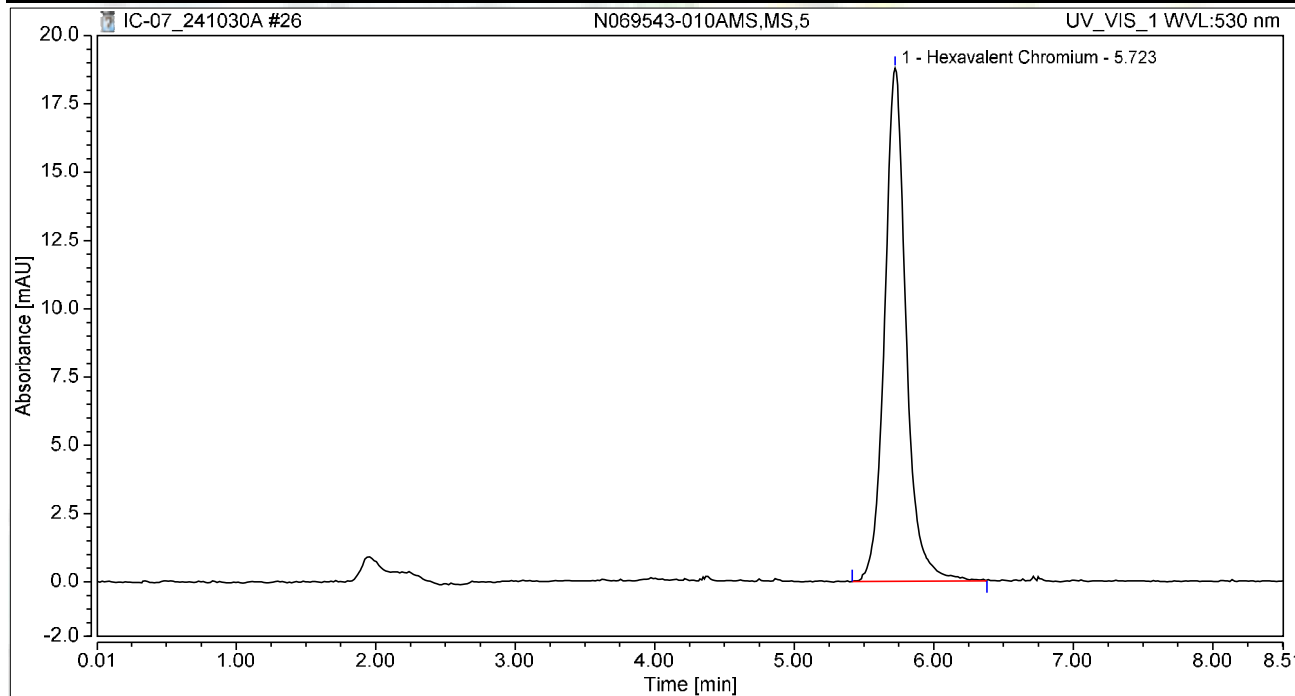
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.102	0.625	100.00	100.00	0.3601
Total:			0.102	0.625	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-010AMS,MS,5	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 12:25	Sample Weight:	1.0000

Chromatogram



Integration Results

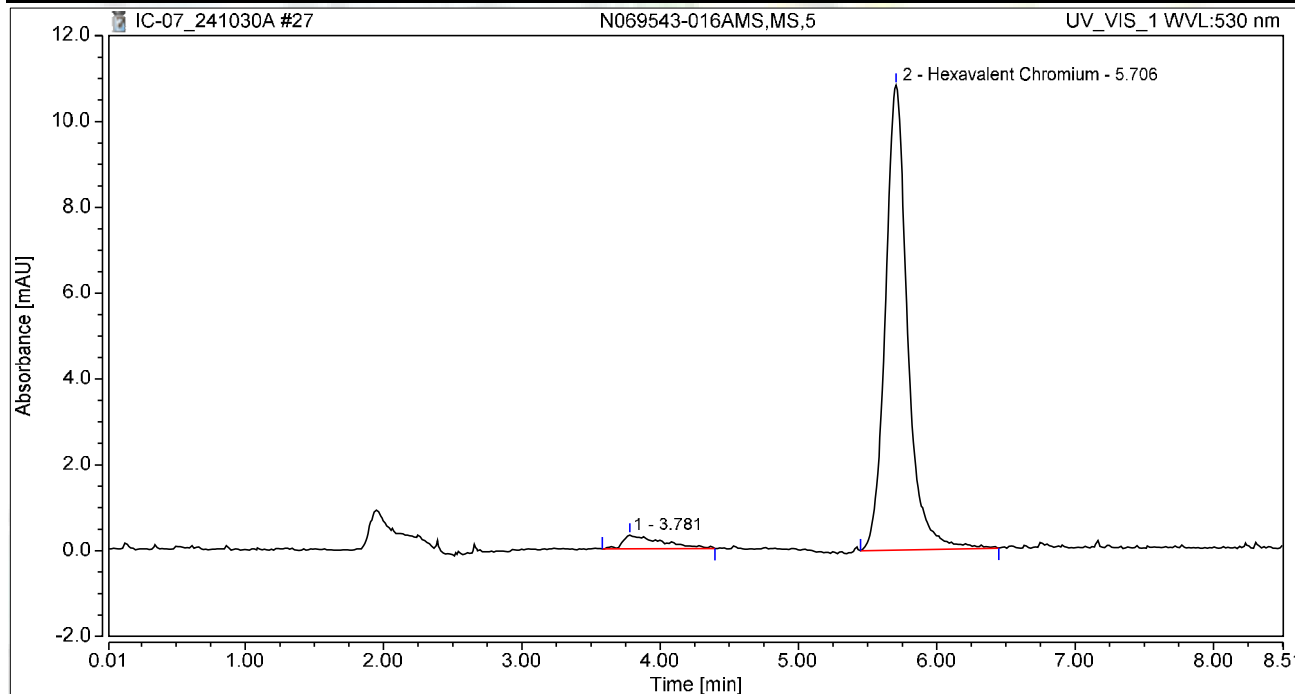
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	3.341	18.783	100.00	100.00	11.7752
Total:			3.341	18.783	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-016AMS,MS,5	Run Time (min):	8.49
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 12:35	Sample Weight:	1.0000

Chromatogram



Integration Results

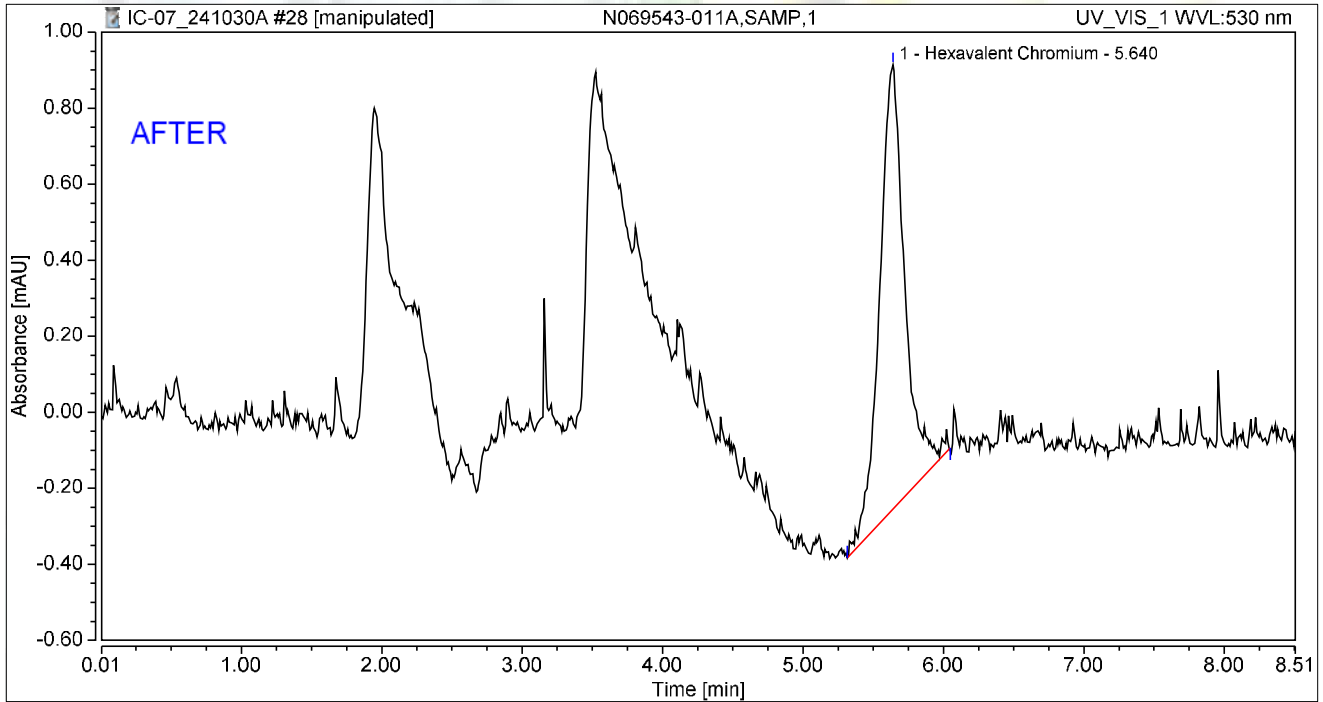
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.781	0.103	0.314	4.86	2.82	n.a.
2	Hexavalent Chromium	5.706	2.007	10.827	95.14	97.18	7.0722
Total:			2.109	11.141	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-011A,SAMP,1	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 12:44	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.640	0.244	1.169	100.00	100.00	0.8599
Total:			0.244	1.169	100.00	100.00	

Reviewed by:

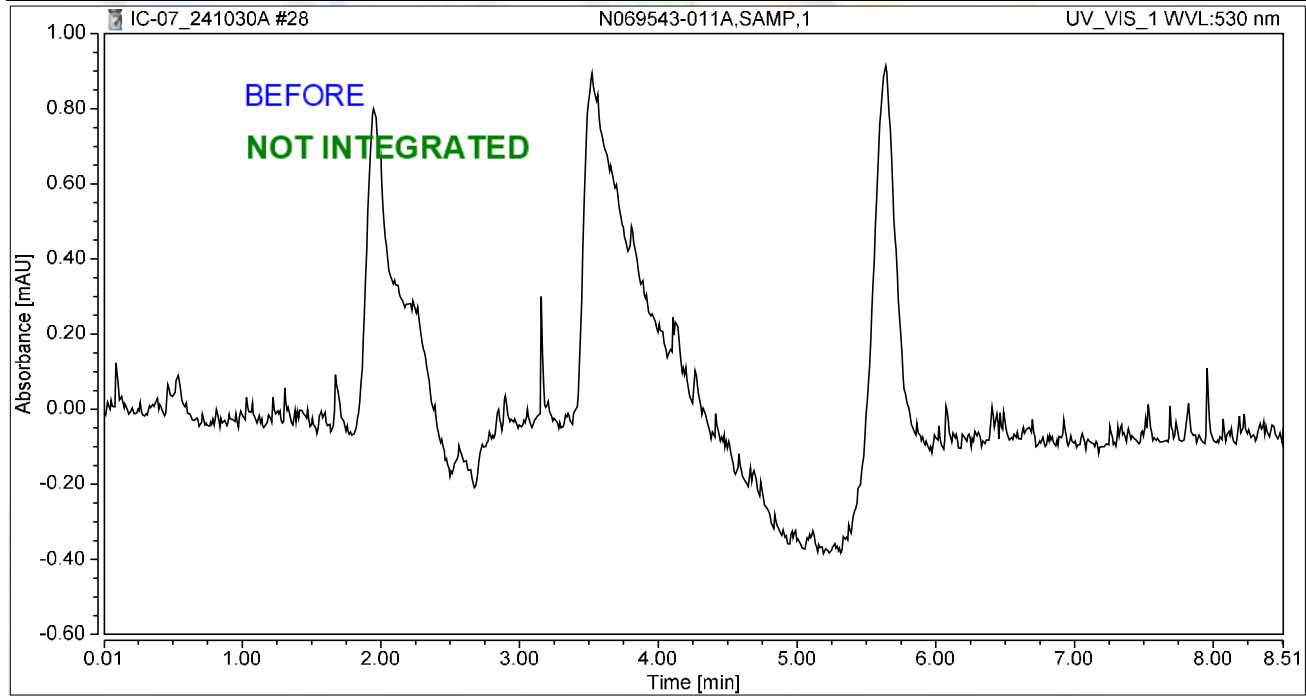
d/Rocha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069543-011A,SAMP,1	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 12:44	Sample Weight:	1.0000

Chromatogram



Integration Results

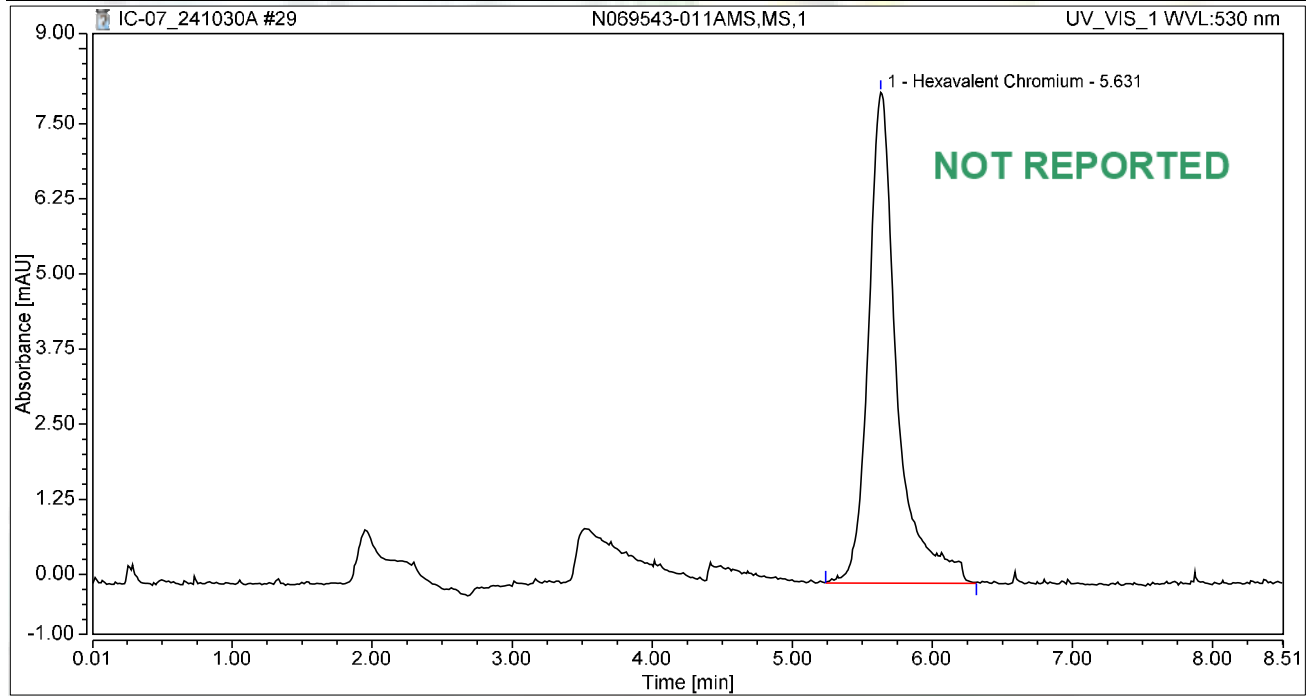
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-011AMS,MS,1	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 12:54	Sample Weight:	1.0000

Chromatogram



Integration Results

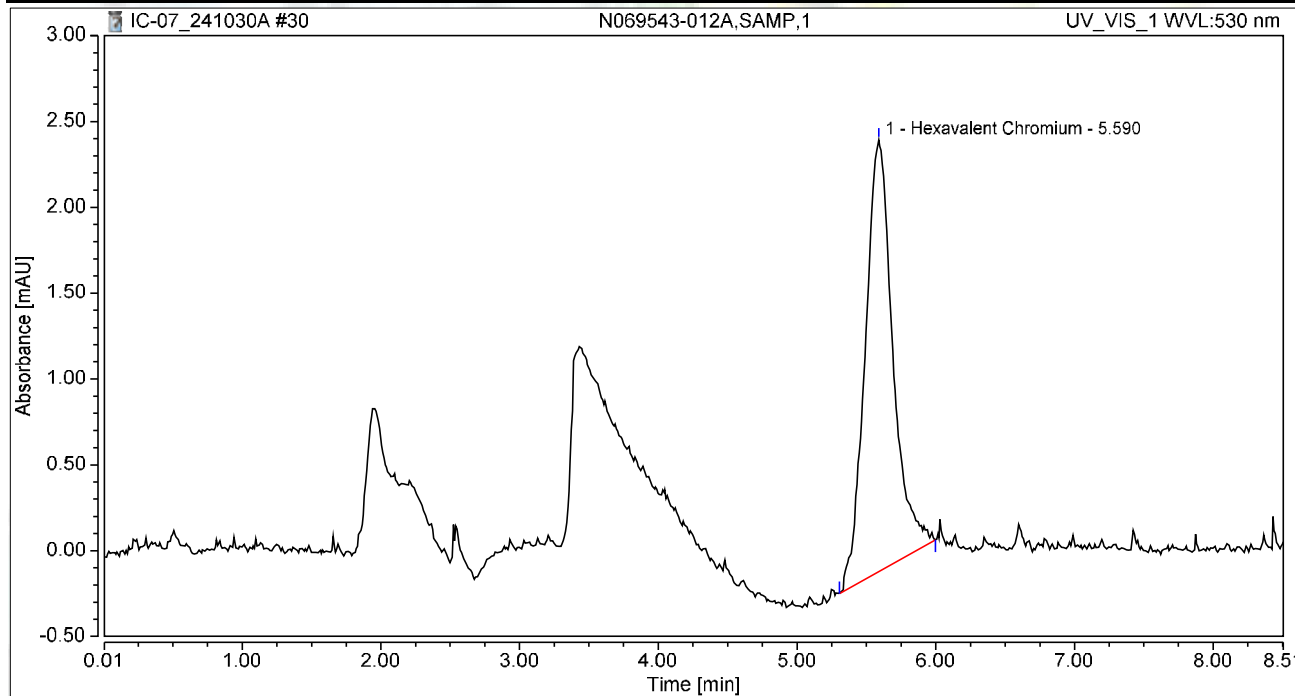
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.631	1.923	8.168	100.00	100.00	6.7767
Total:			1.923	8.168	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-012A,SAMP,1	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 13:03	Sample Weight:	1.0000

Chromatogram



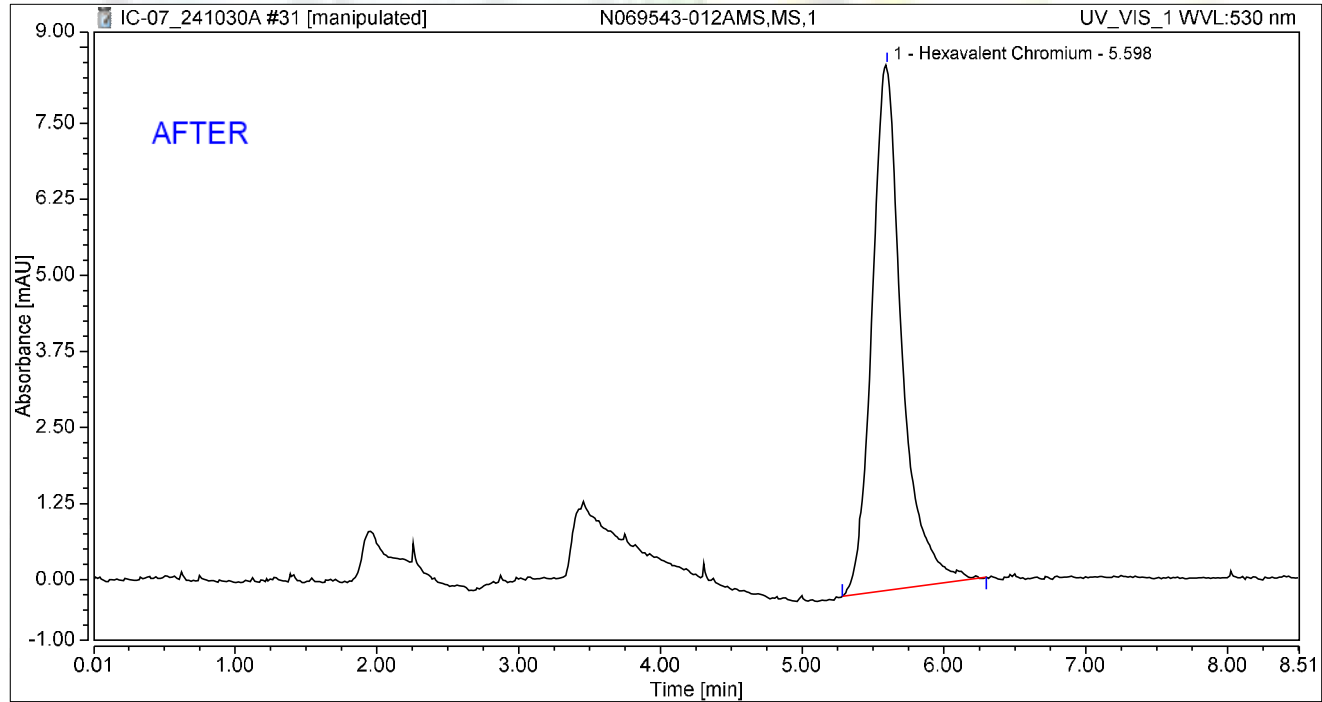
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.590	0.581	2.515	100.00	100.00	2.0460
Total:			0.581	2.515	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069543-012AMS,MS,1	Run Time (min): 8.50
Vial Number:	14	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	30/Oct/24 13:13	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.598	2.116	8.642	100.00	100.00	7.4577
Total:			2.116	8.642	100.00	100.00	

Reviewed by:

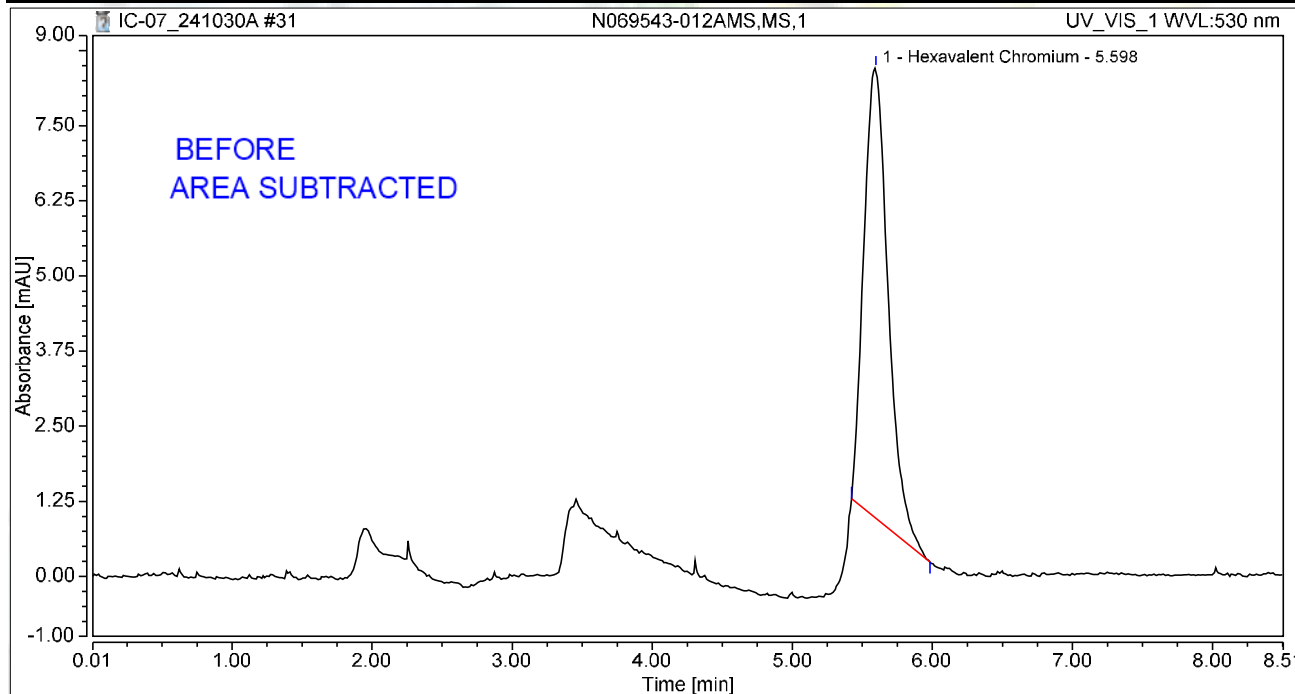
d/Rocha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069543-012AMS,MS,1	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 13:13	Sample Weight:	1.0000

Chromatogram



Integration Results

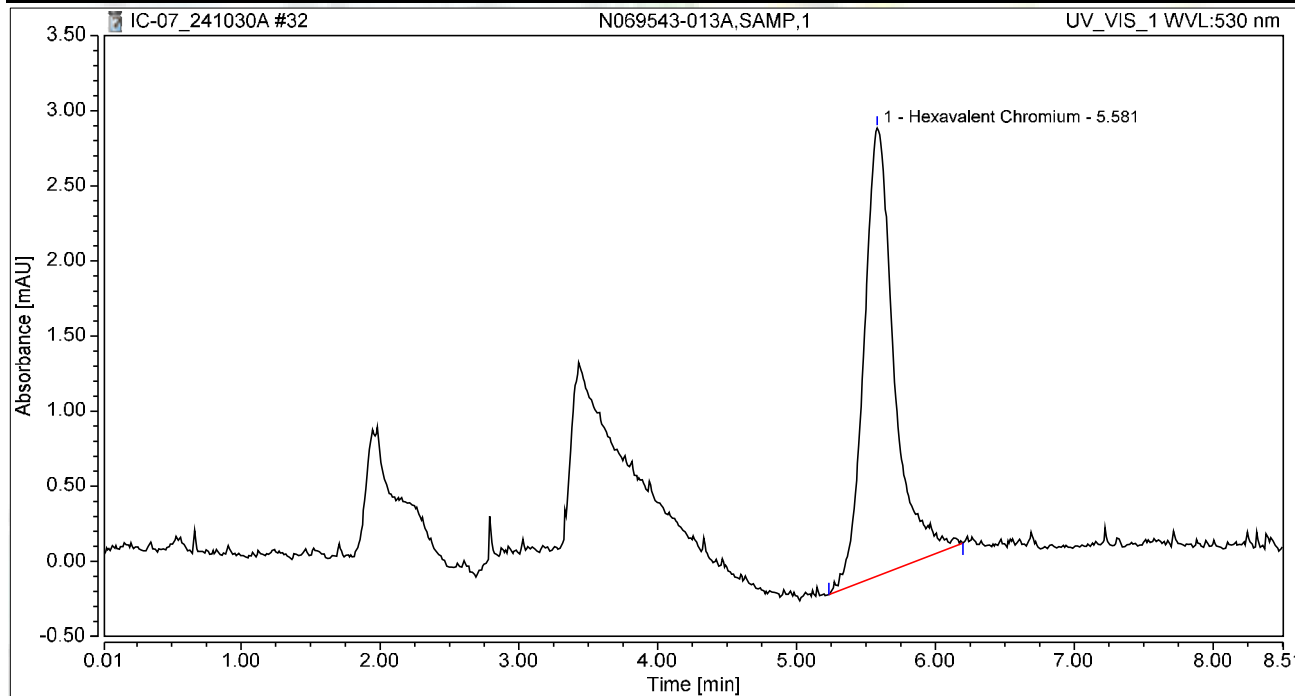
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.598	1.506	7.500	100.00	100.00	5.3088
Total:			1.506	7.500	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-013A,SAMP,1	Run Time (min):	8.49
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 13:22	Sample Weight:	1.0000

Chromatogram



Integration Results

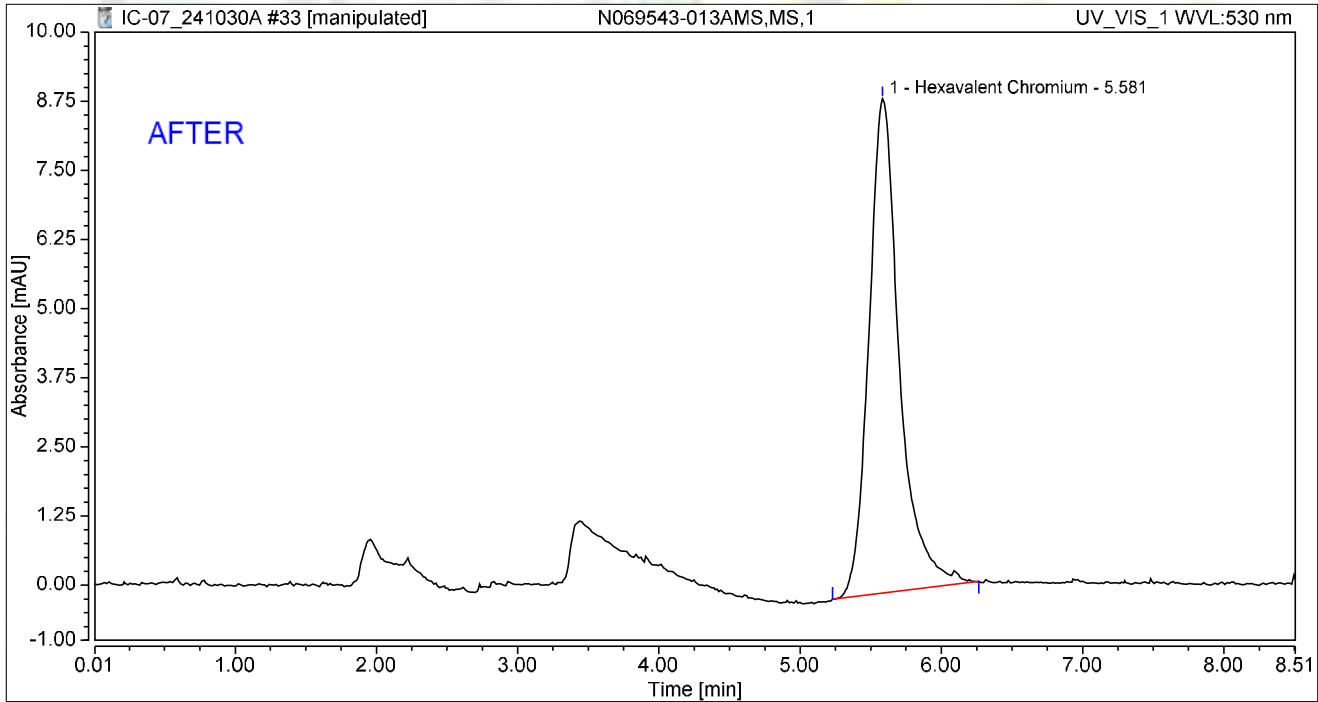
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.581	0.752	2.982	100.00	100.00	2.6499
Total:			0.752	2.982	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-013AMS,MS,1	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 13:32	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.581	2.228	8.936	100.00	100.00	7.8535
Total:			2.228	8.936	100.00	100.00	

Reviewed by:

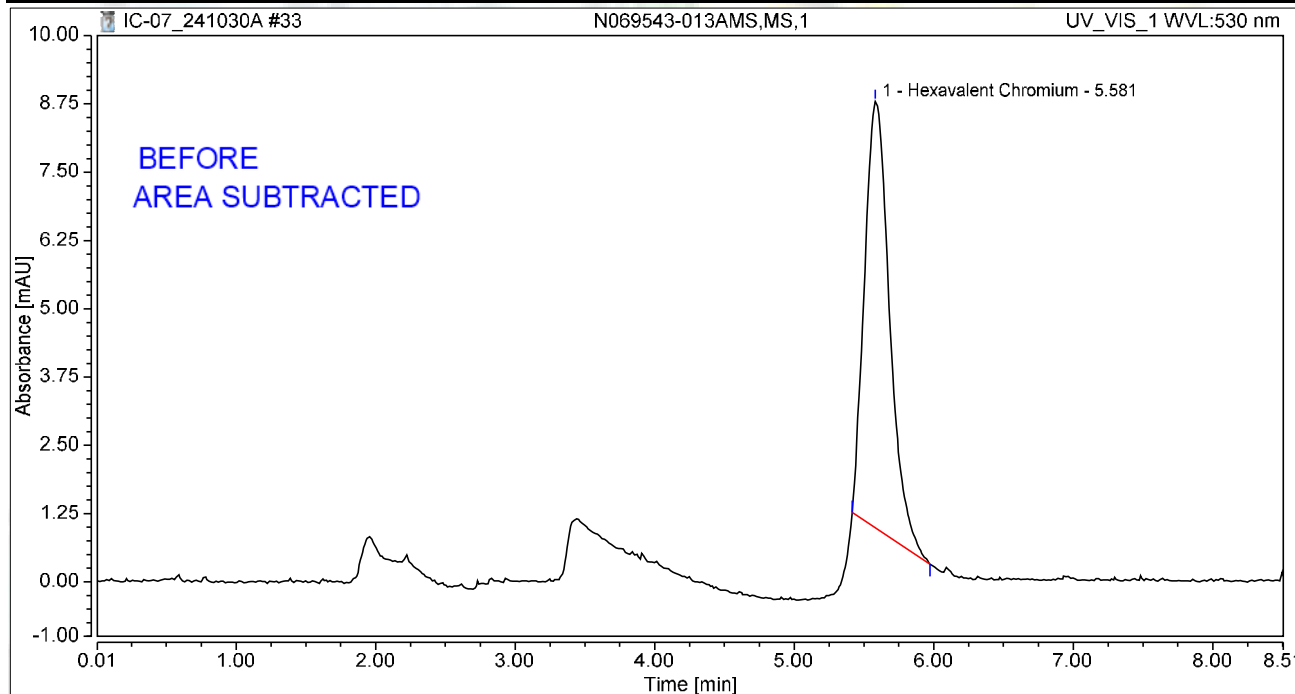
d/Recha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069543-013AMS,MS,1	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 13:32	Sample Weight:	1.0000

Chromatogram



Integration Results

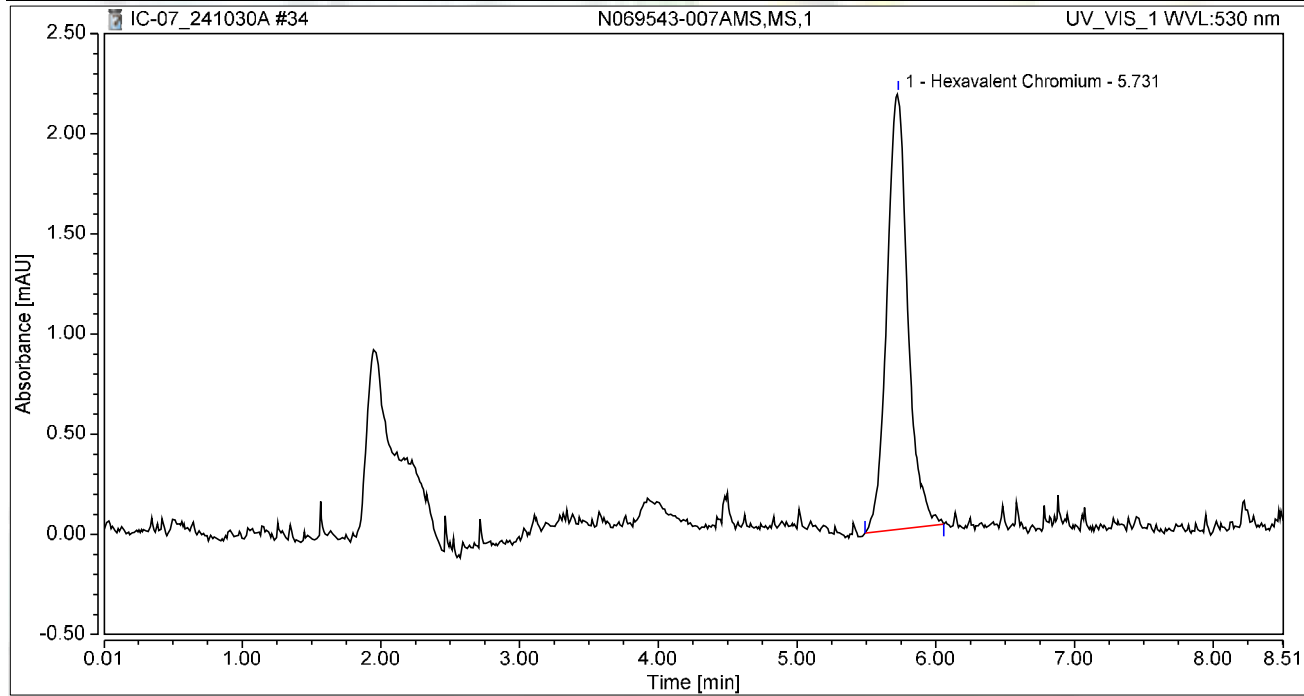
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.581	1.626	7.808	100.00	100.00	5.7315
Total:			1.626	7.808	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-007AMS,MS,1	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 13:41	Sample Weight:	1.0000

Chromatogram



Integration Results

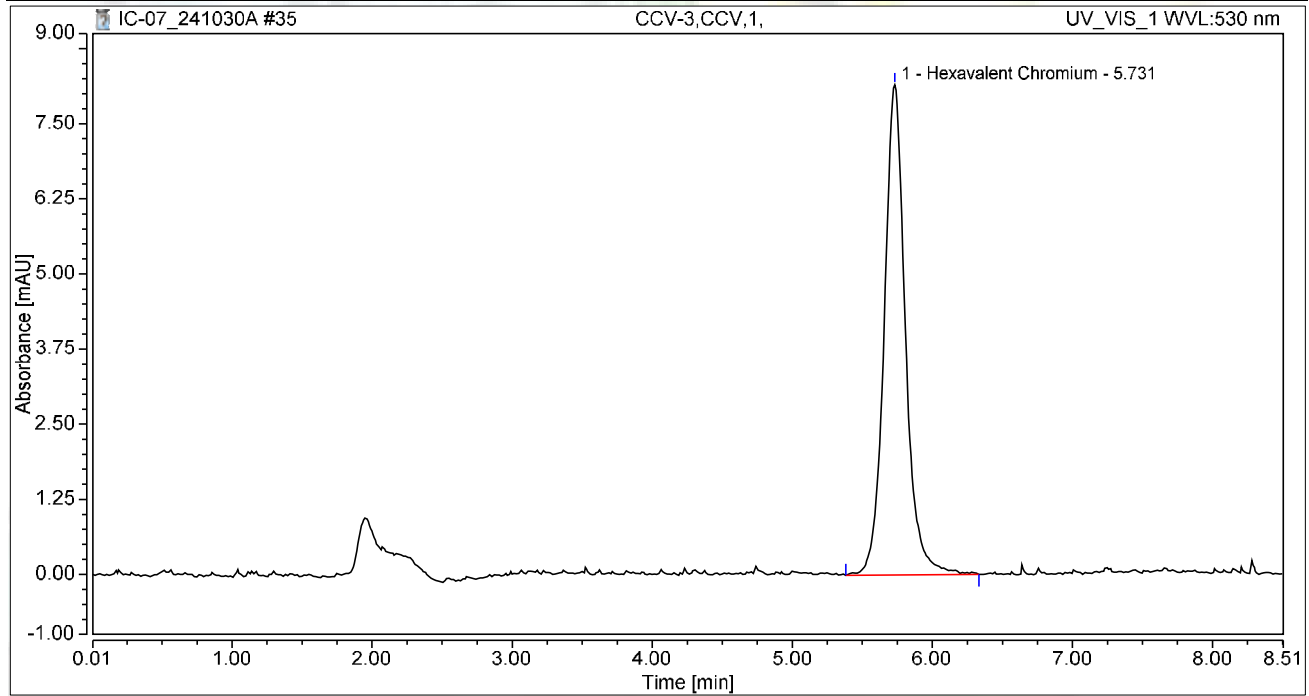
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	0.379	2.179	100.00	100.00	1.3350
Total:			0.379	2.179	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-3,CCV,1,	Run Time (min):	8.50
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 13:50	Sample Weight:	1.0000

Chromatogram



Integration Results

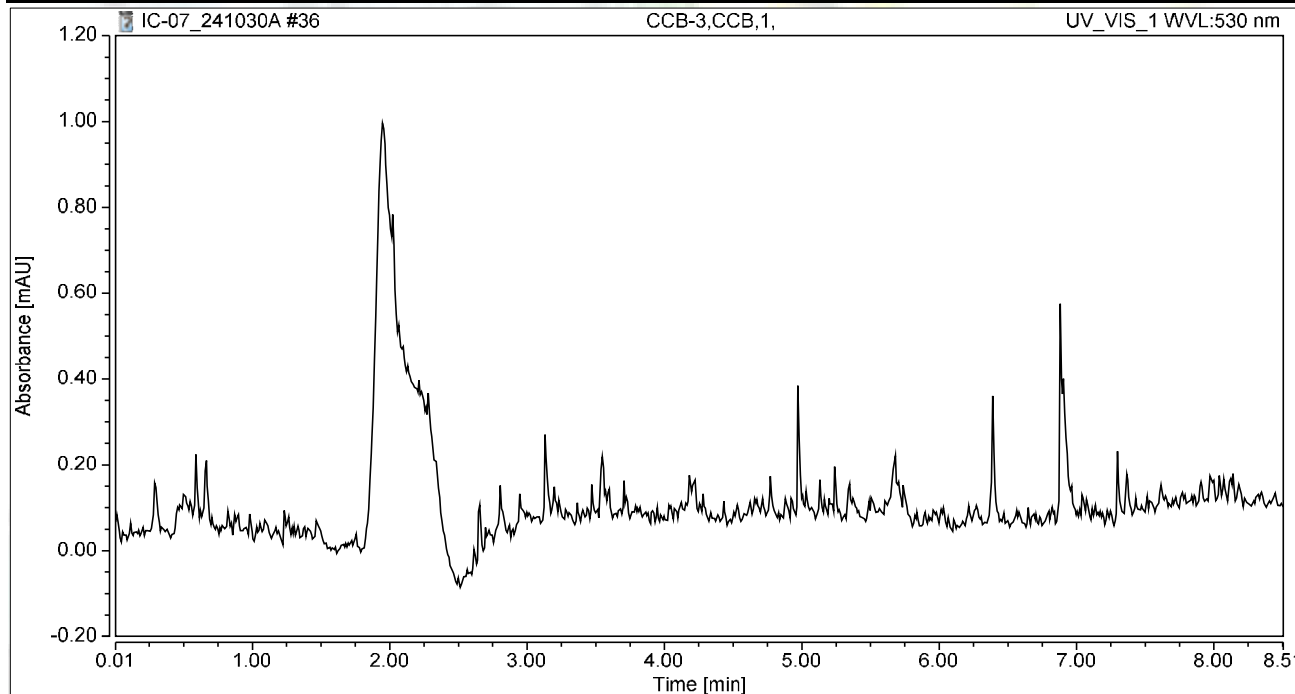
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	1.436	8.163	100.00	100.00	5.0615
Total:			1.436	8.163	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-3,CCB,1,	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 14:00	Sample Weight:	1.0000

Chromatogram



Integration Results

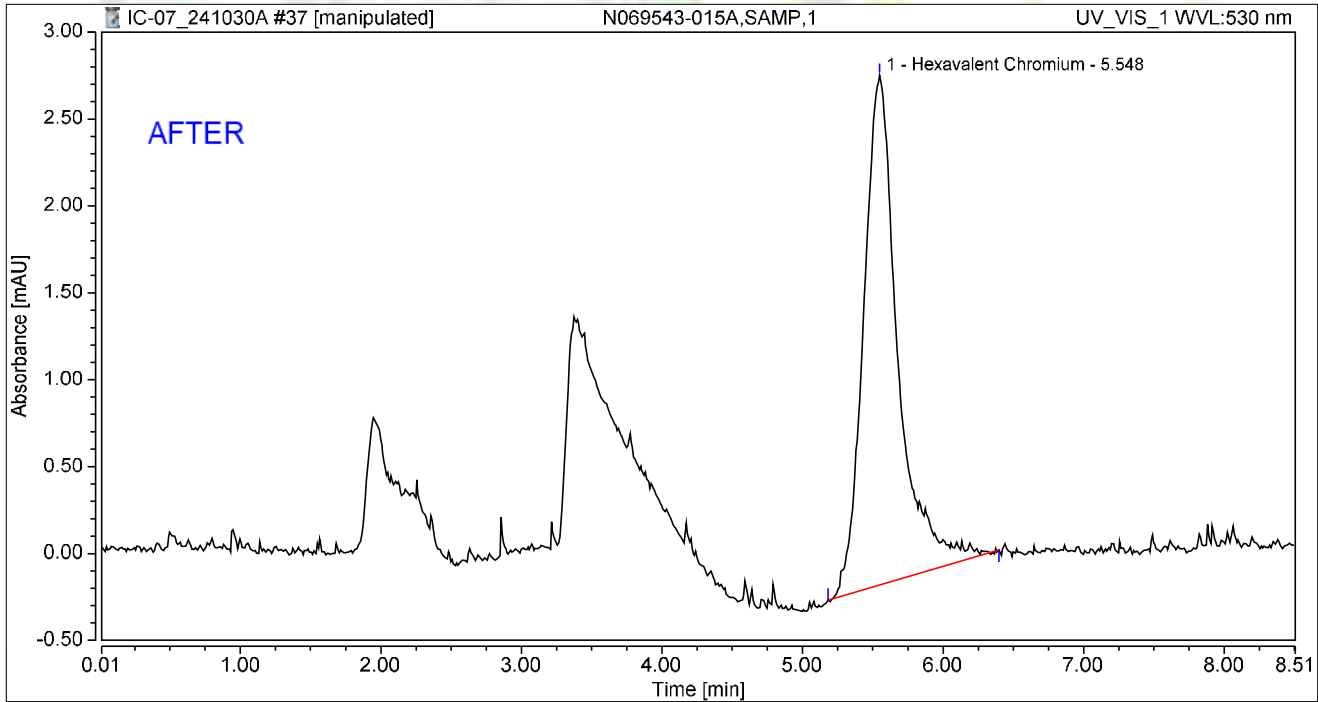
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-015A,SAMP,1	Run Time (min):	8.49
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 14:09	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.548	0.832	2.932	100.00	100.00	2.9317
Total:			0.832	2.932	100.00	100.00	

Reviewed by:

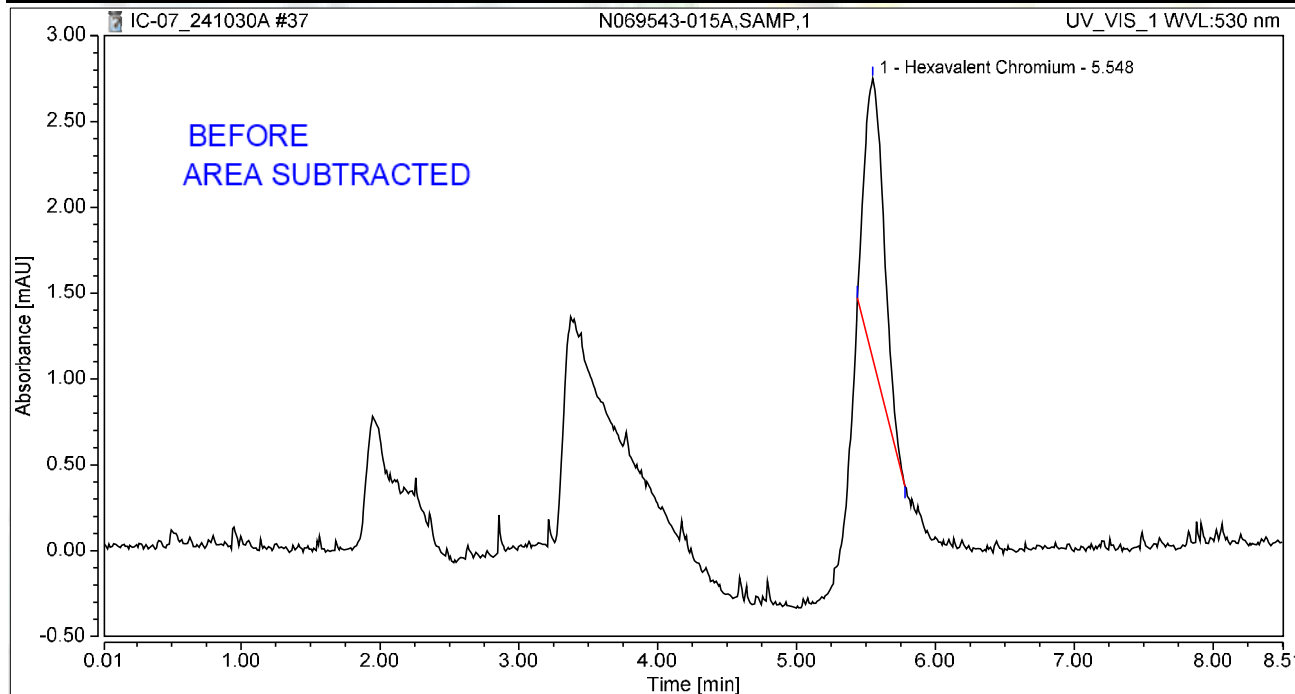
d/Recha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069543-015A,SAMP,1	Run Time (min):	8.49
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 14:09	Sample Weight:	1.0000

Chromatogram



Integration Results

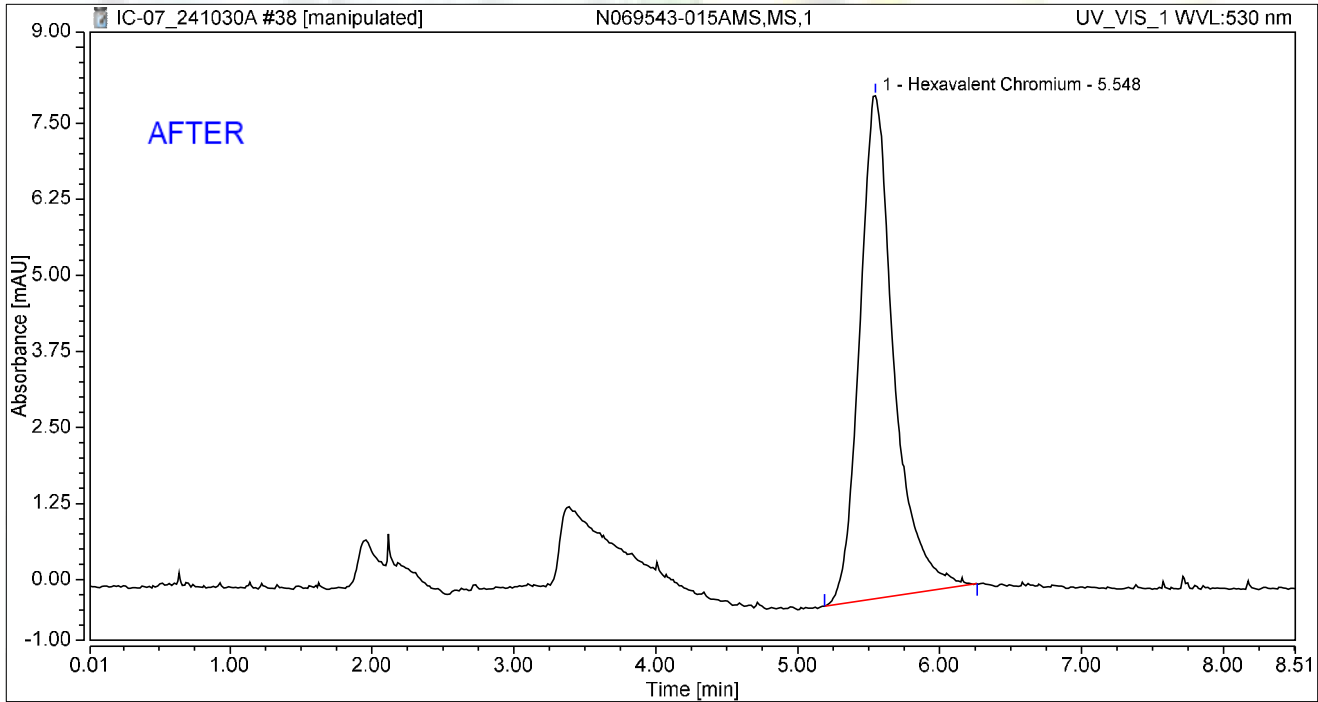
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.548	0.263	1.625	100.00	100.00	0.9272
Total:			0.263	1.625	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-015AMS,MS,1	Run Time (min):	8.49
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 14:19	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.548	2.314	8.269	100.00	100.00	8.1560
Total:			2.314	8.269	100.00	100.00	

Reviewed by:

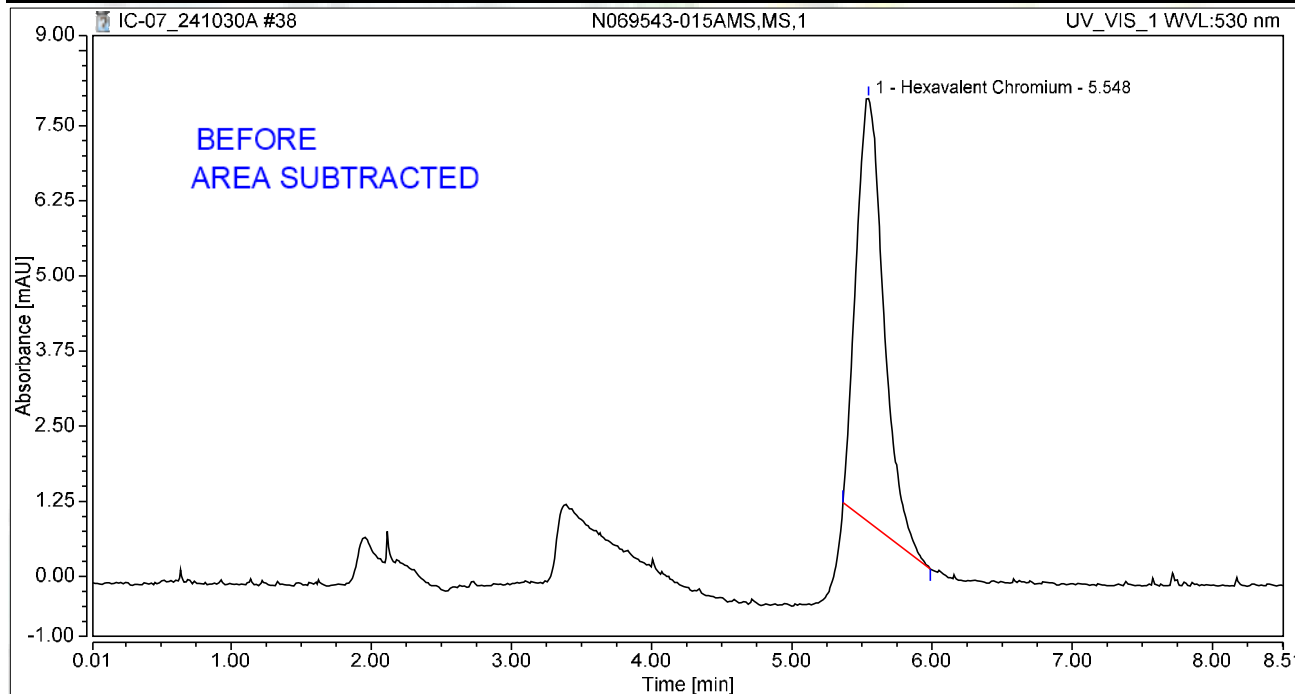
d/Recha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069543-015AMS,MS,1	Run Time (min):	8.49
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 14:19	Sample Weight:	1.0000

Chromatogram



Integration Results

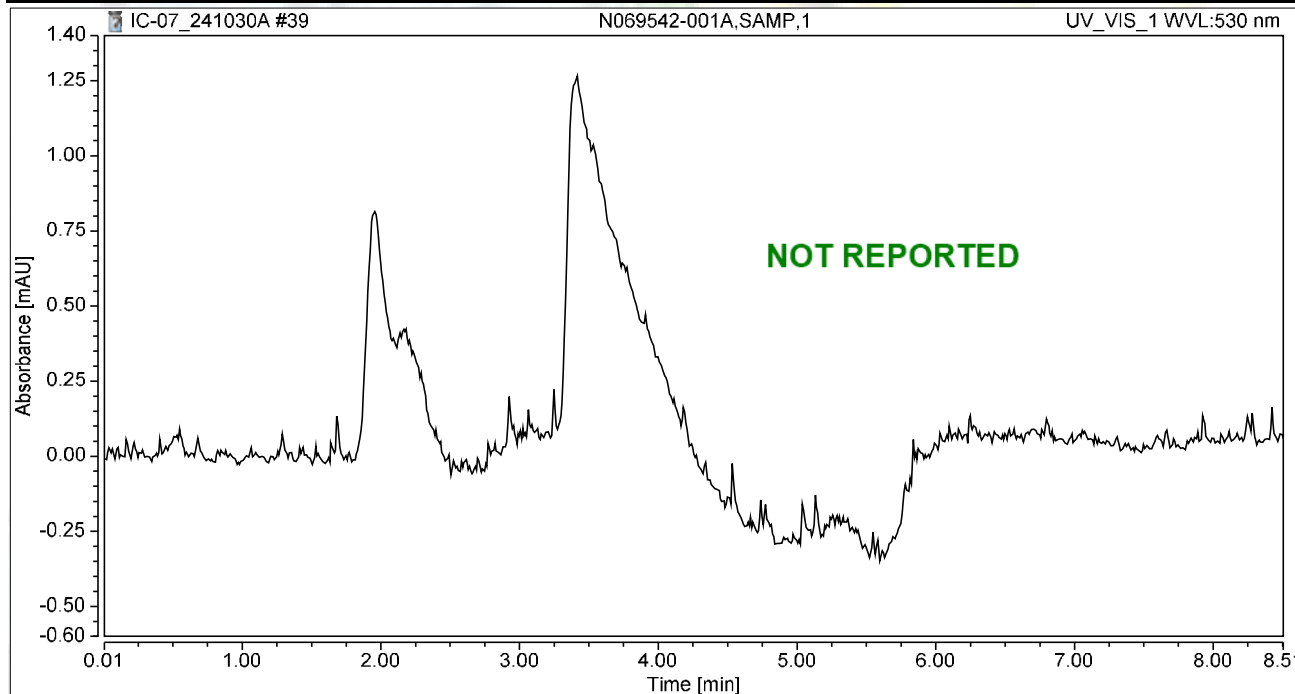
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.548	1.615	7.046	100.00	100.00	5.6928
Total:			1.615	7.046	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069542-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 14:28	Sample Weight:	1.0000

Chromatogram



Integration Results

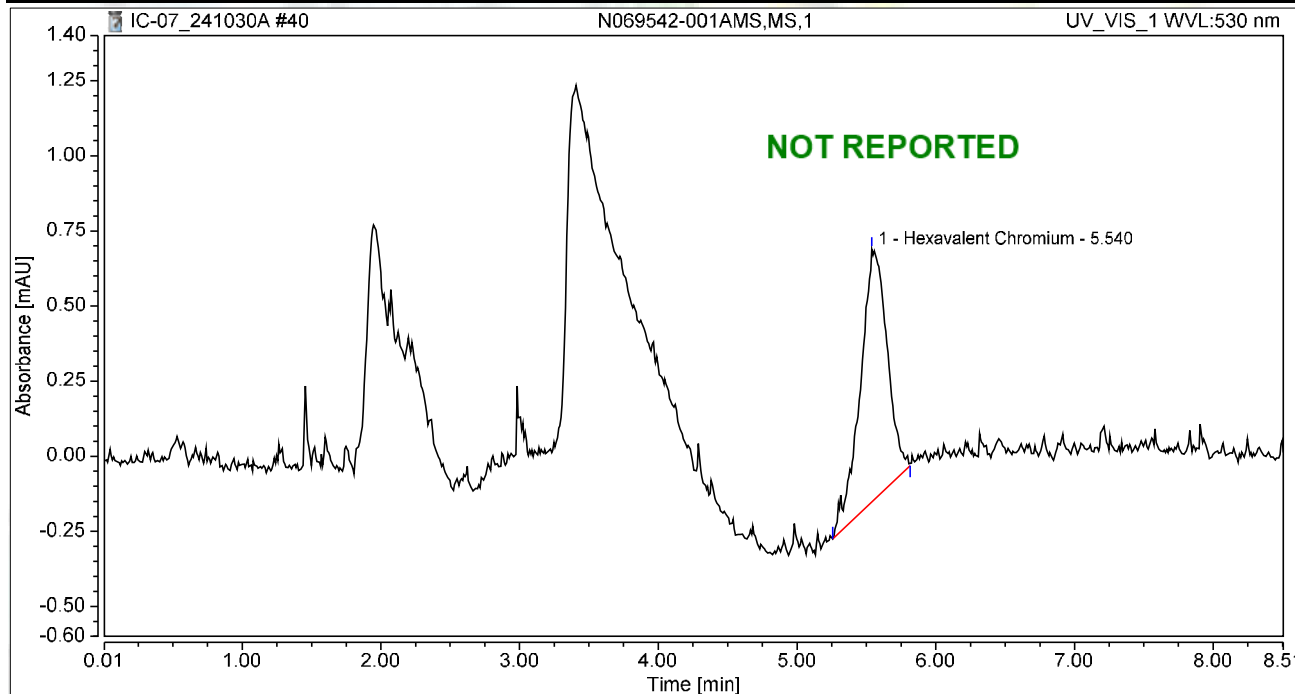
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069542-001AMS,MS,1	Run Time (min):	8.50
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 14:38	Sample Weight:	1.0000

Chromatogram



Integration Results

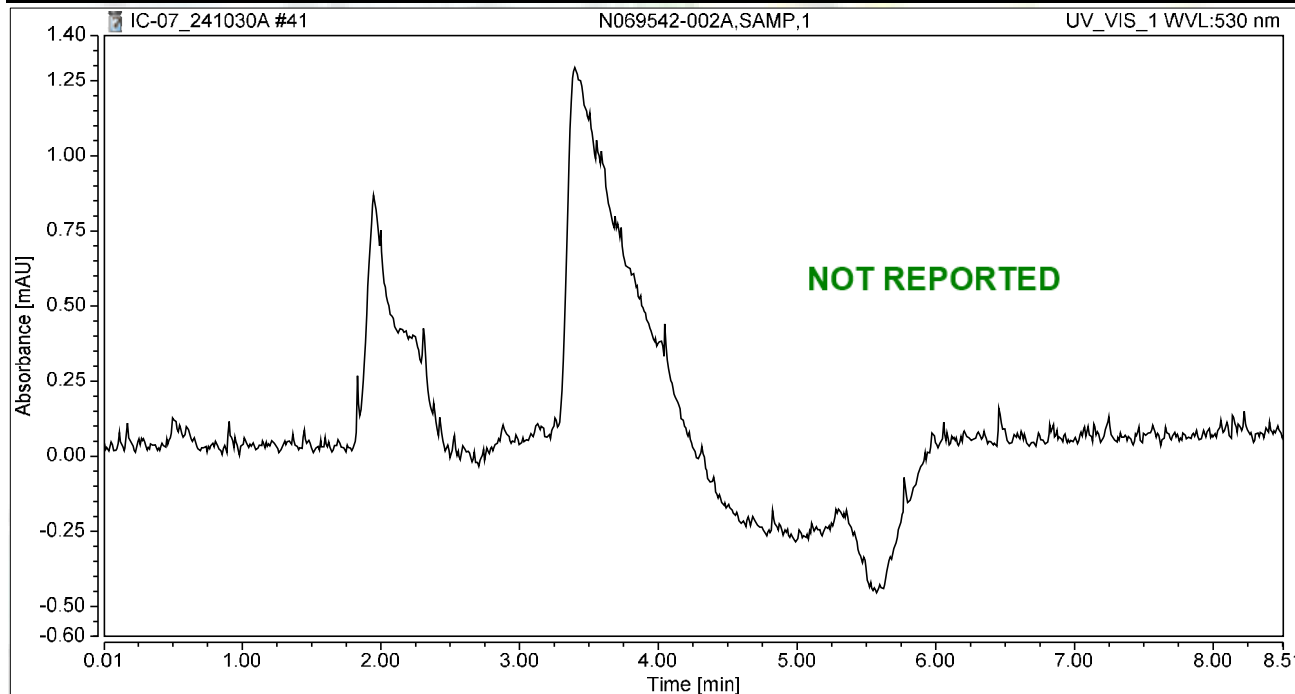
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.540	0.187	0.840	100.00	100.00	0.6579
Total:			0.187	0.840	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069542-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 14:47	Sample Weight:	1.0000

Chromatogram



Integration Results

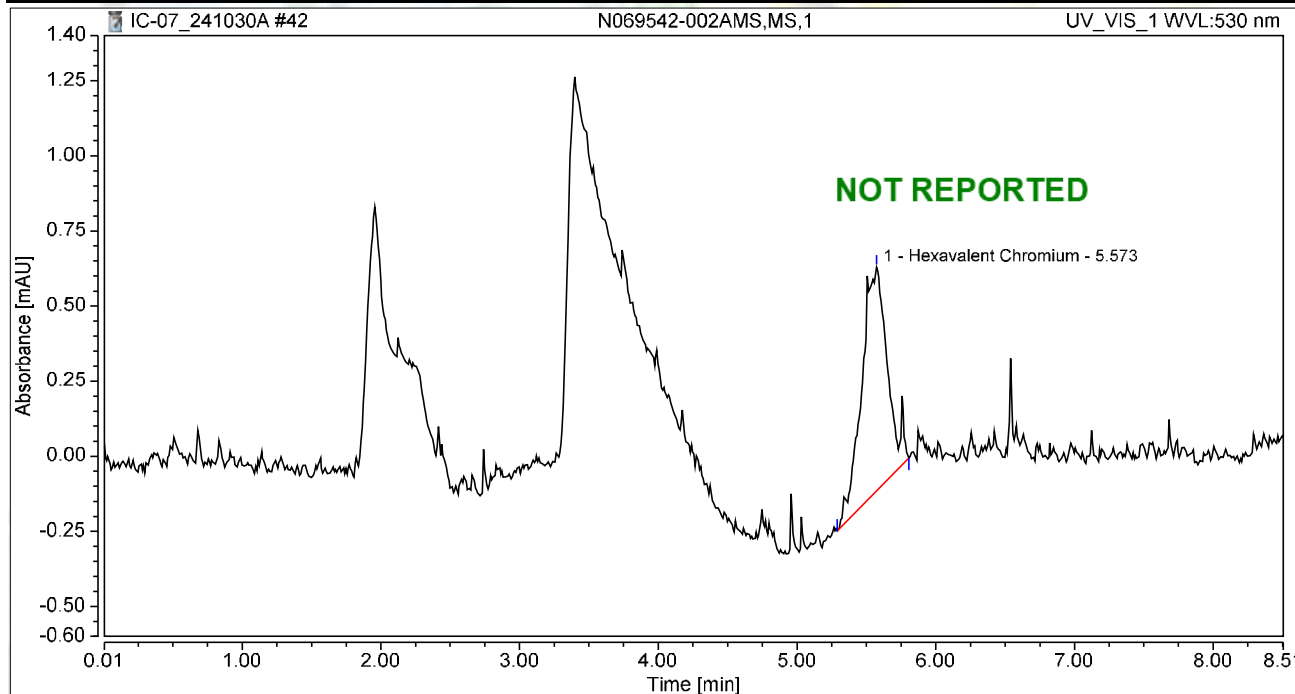
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069542-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 14:57	Sample Weight:	1.0000

Chromatogram



Integration Results

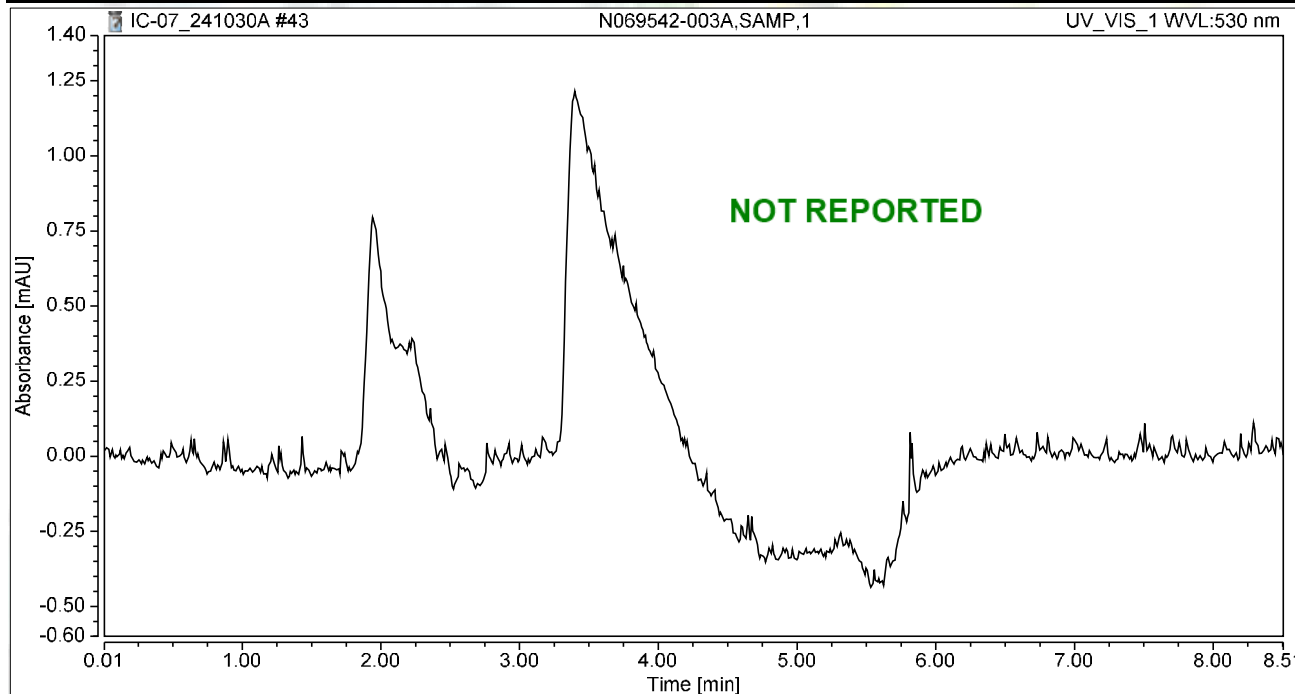
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.573	0.161	0.745	100.00	100.00	0.5670
Total:			0.161	0.745	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069542-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 15:06	Sample Weight:	1.0000

Chromatogram



Integration Results

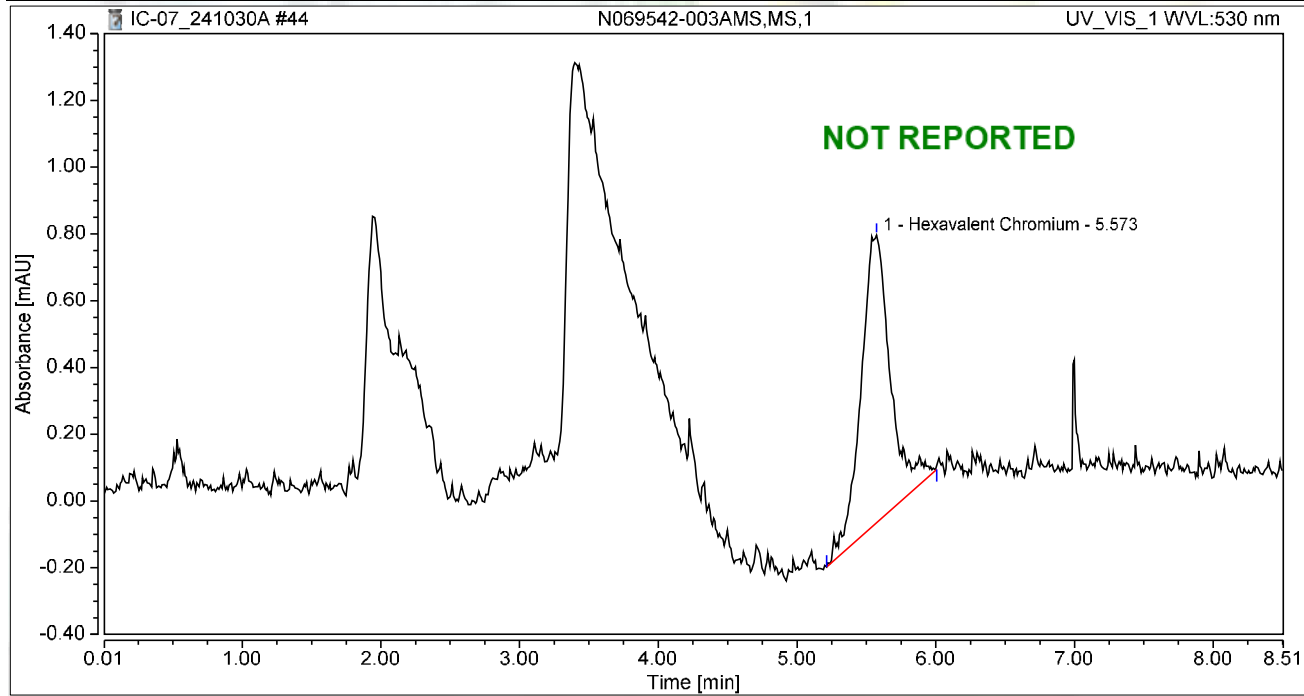
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069542-003AMS,MS,1	Run Time (min):	8.50
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 15:16	Sample Weight:	1.0000

Chromatogram



Integration Results

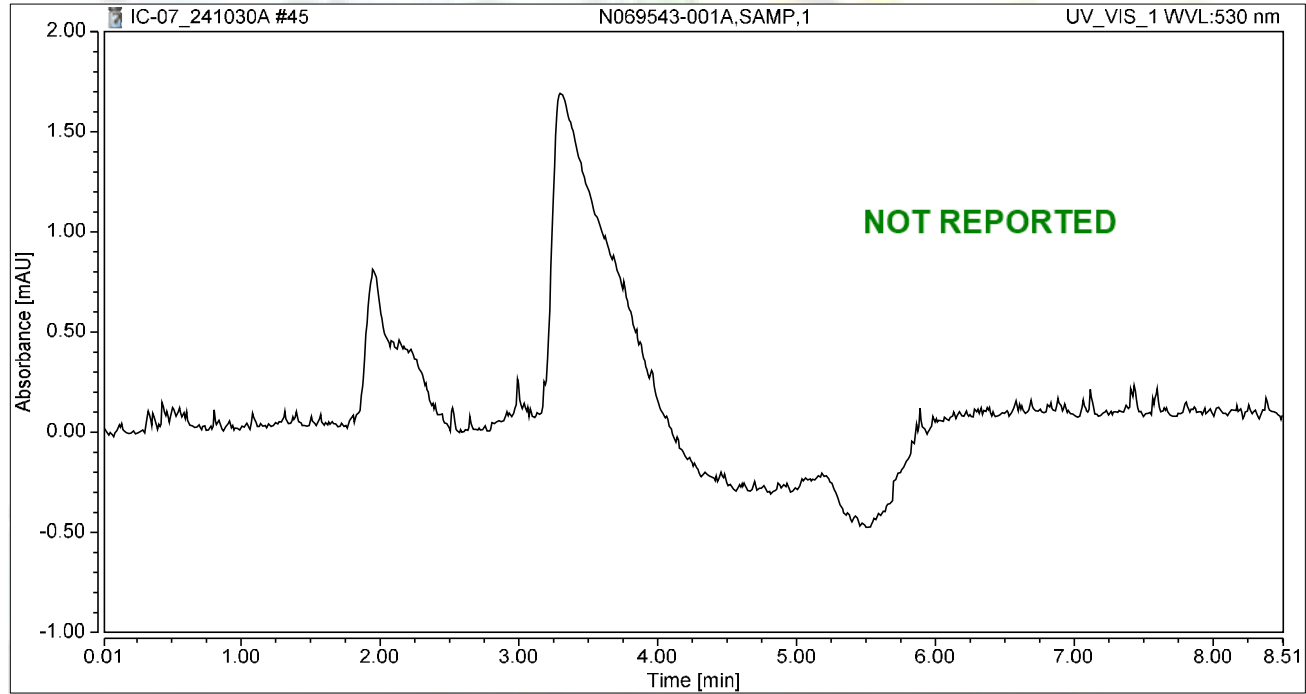
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.573	0.212	0.861	100.00	100.00	0.7484
Total:			0.212	0.861	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-001A,SAMP,1	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 15:26	Sample Weight:	1.0000

Chromatogram



Integration Results

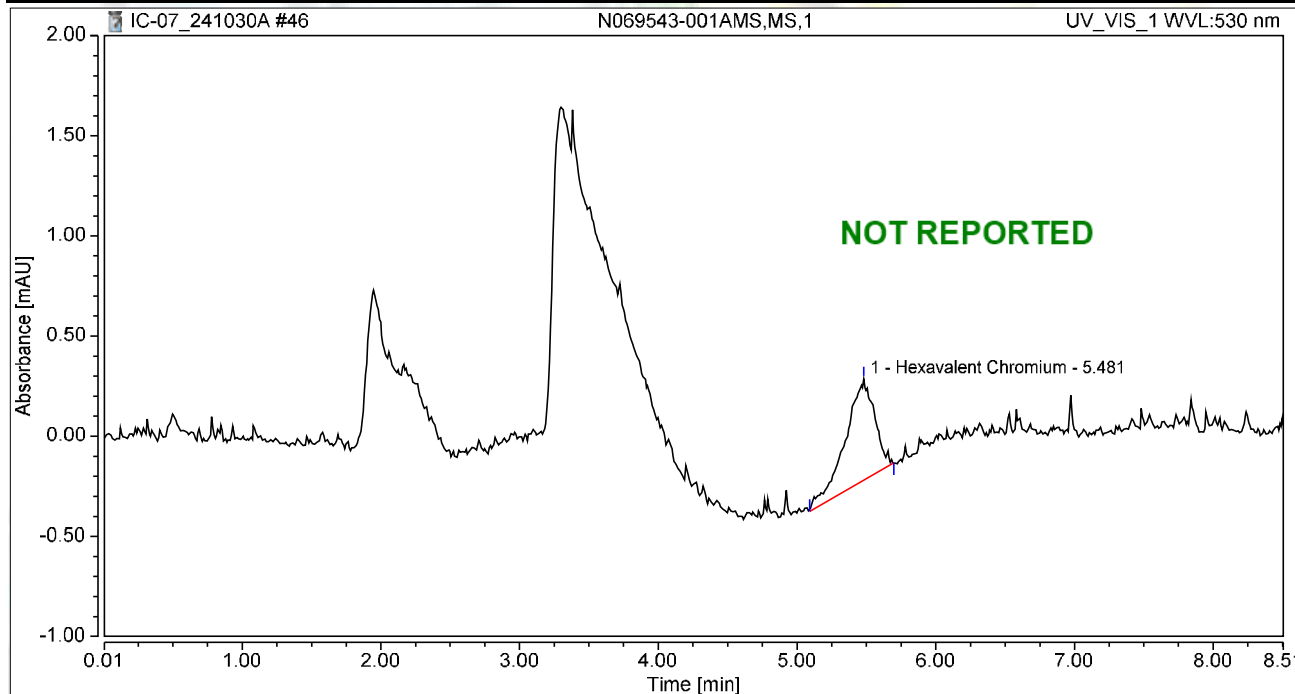
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-001AMS,MS,1	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 15:37	Sample Weight:	1.0000

Chromatogram



Integration Results

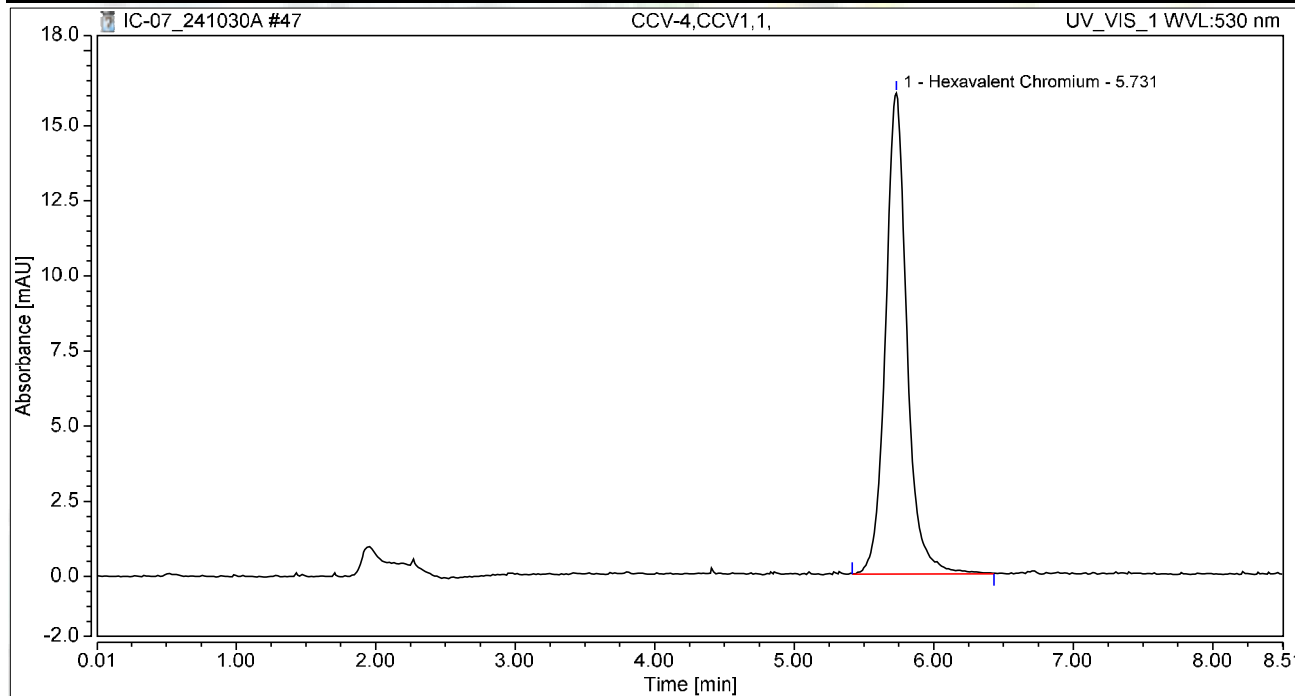
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.481	0.124	0.506	100.00	100.00	0.4362
Total:			0.124	0.506	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-4,CCV1,1,	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 15:46	Sample Weight:	1.0000

Chromatogram



Integration Results

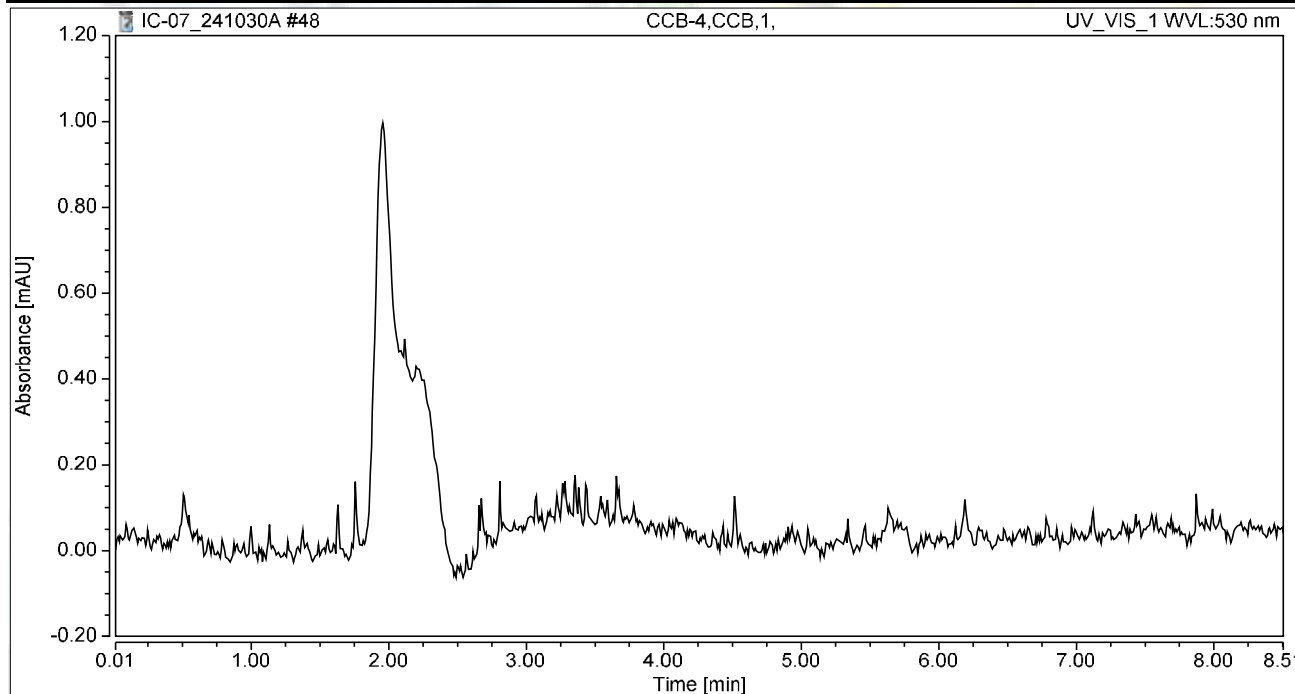
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	2.839	16.010	100.00	100.00	10.0065
Total:			2.839	16.010	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-4,CCB,1,	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 15:56	Sample Weight:	1.0000

Chromatogram



Integration Results

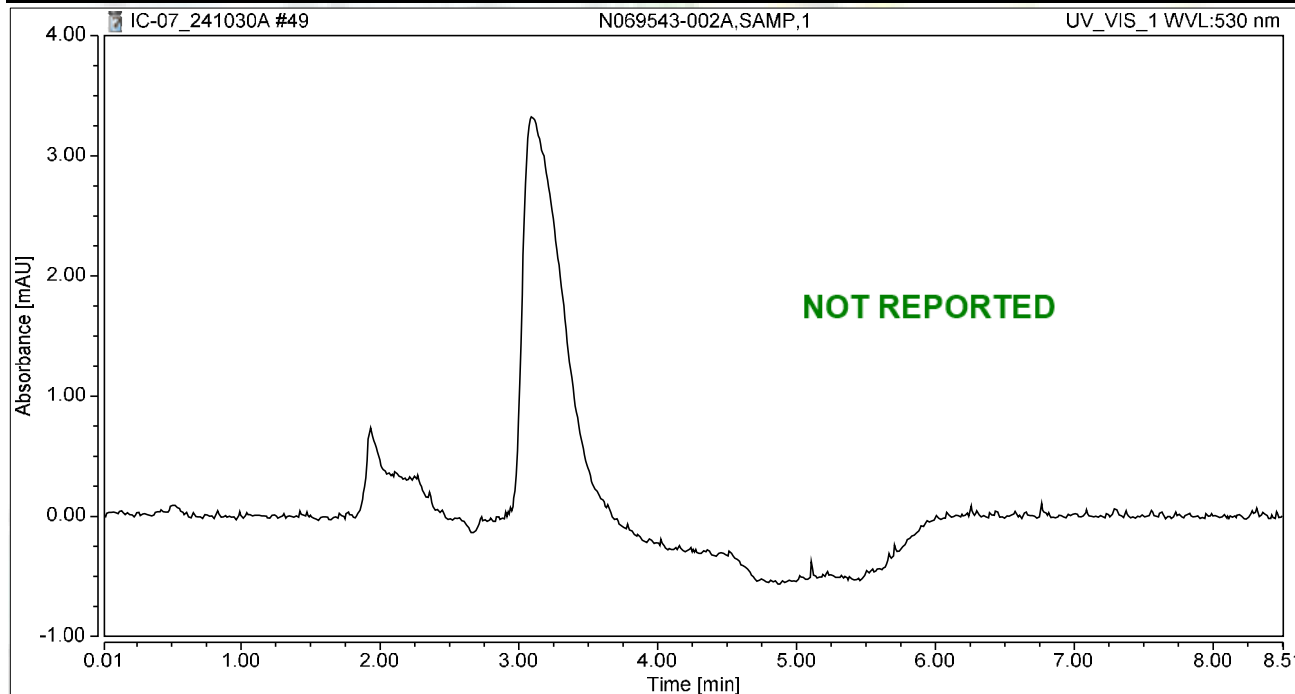
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-002A,SAMP,1	Run Time (min):	8.49
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 16:05	Sample Weight:	1.0000

Chromatogram



Integration Results

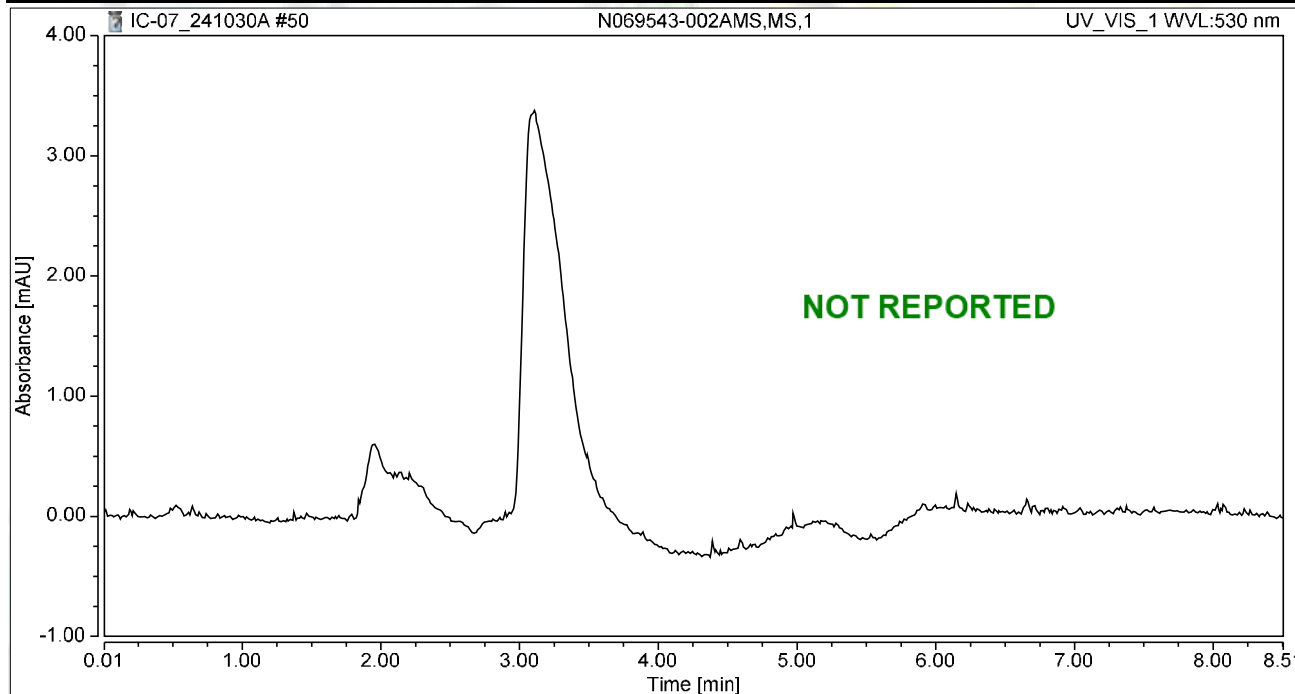
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 16:14	Sample Weight:	1.0000

Chromatogram



Integration Results

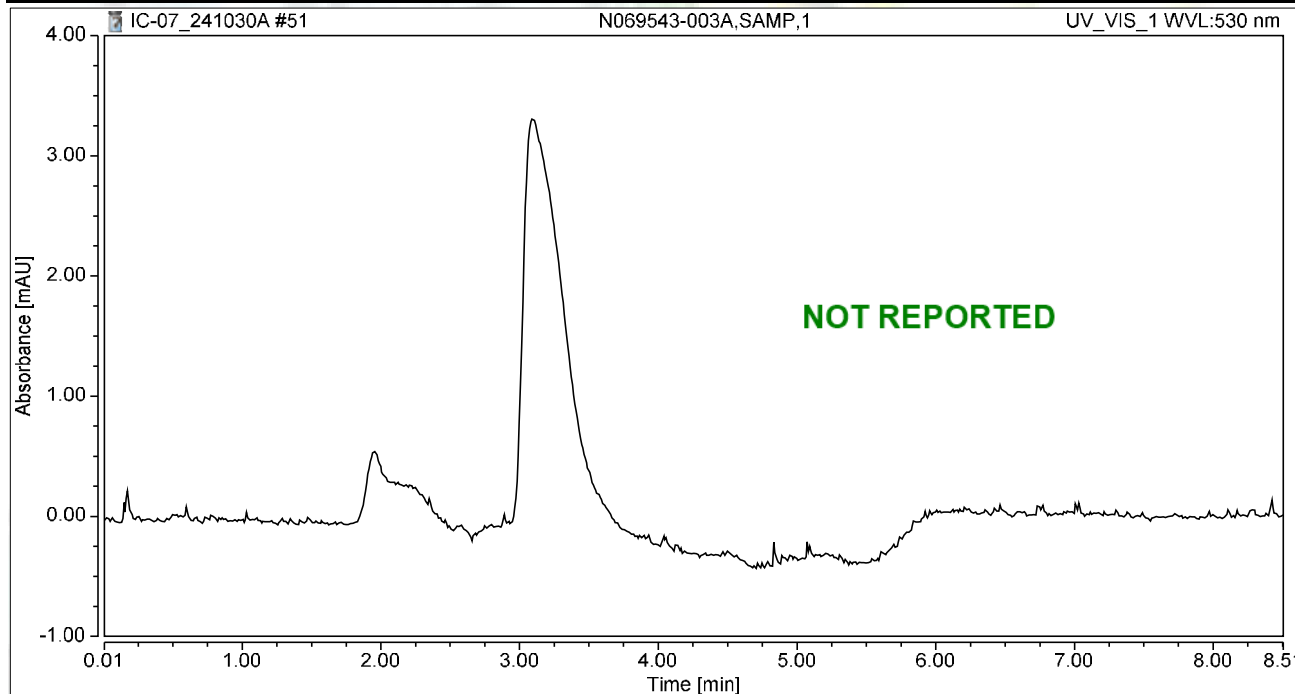
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 16:24	Sample Weight:	1.0000

Chromatogram



Integration Results

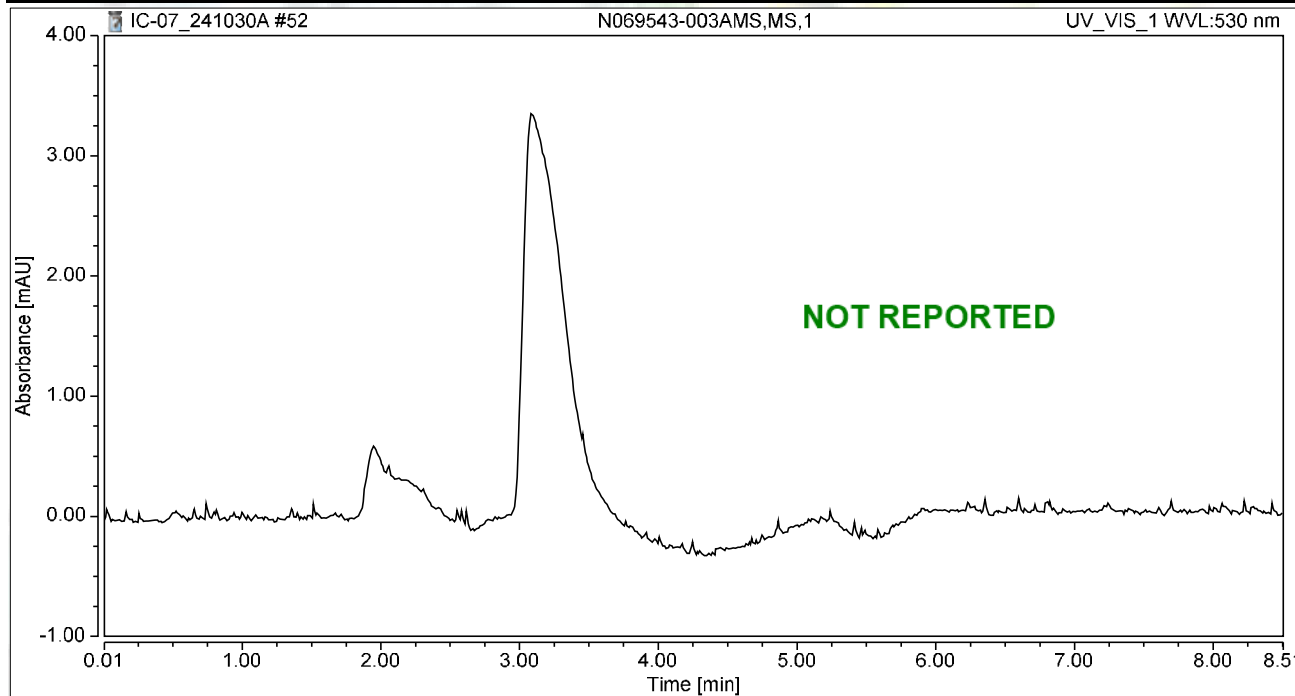
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-003AMS,MS,1	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 16:33	Sample Weight:	1.0000

Chromatogram



Integration Results

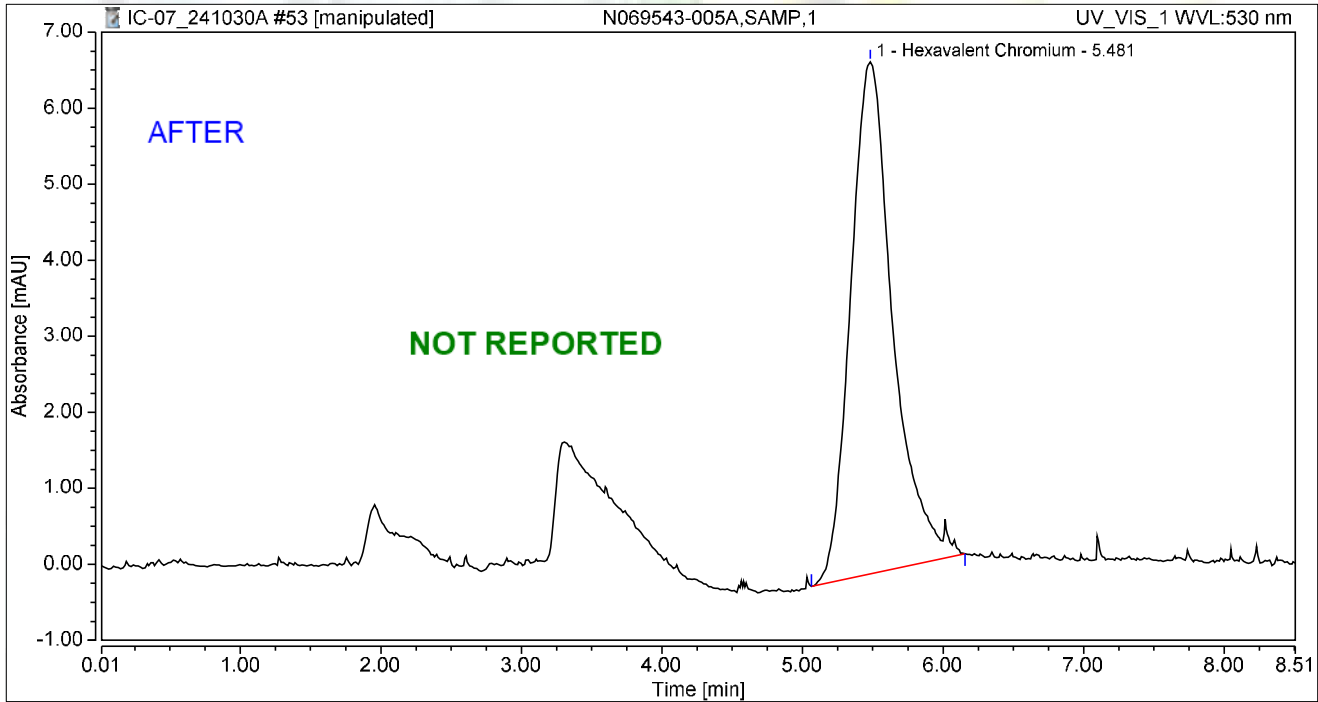
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-005A,SAMP,1	Run Time (min):	8.49
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 16:43	Sample Weight:	1.0000

Chromatogram



Integration Results

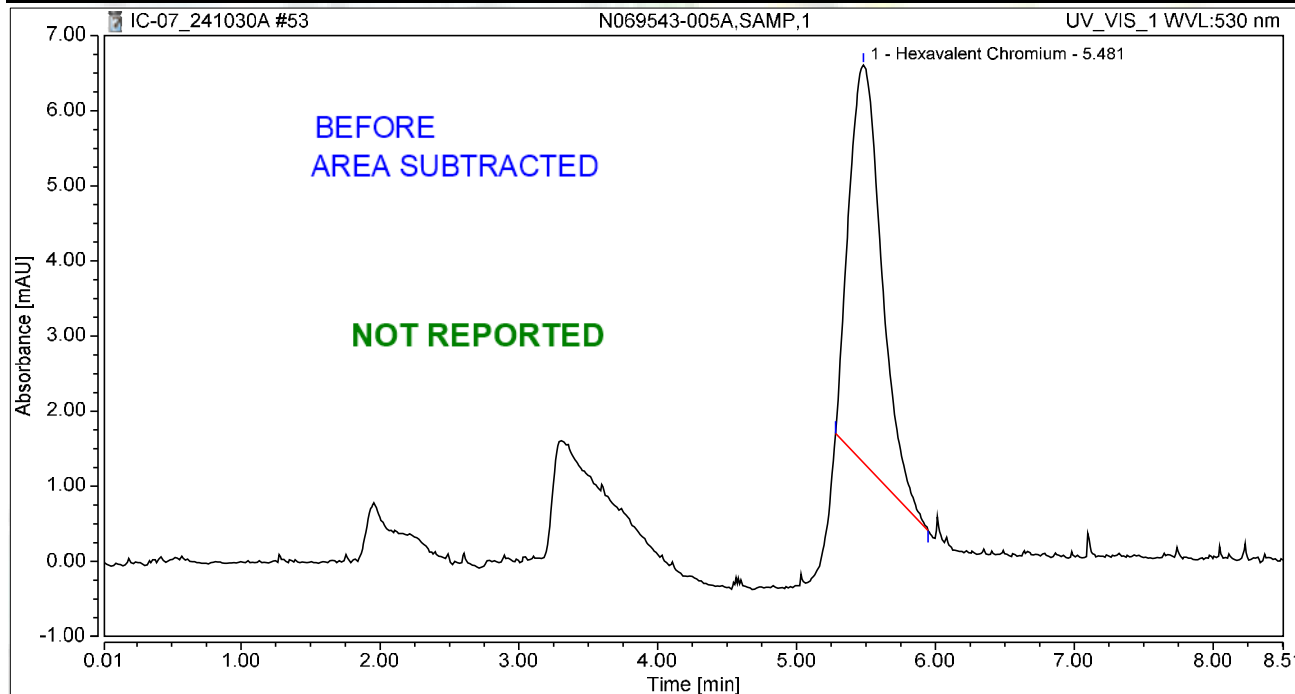
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.481	2.351	6.734	100.00	100.00	8.2849
Total:			2.351	6.734	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-005A,SAMP,1	Run Time (min):	8.49
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 16:43	Sample Weight:	1.0000

Chromatogram



Integration Results

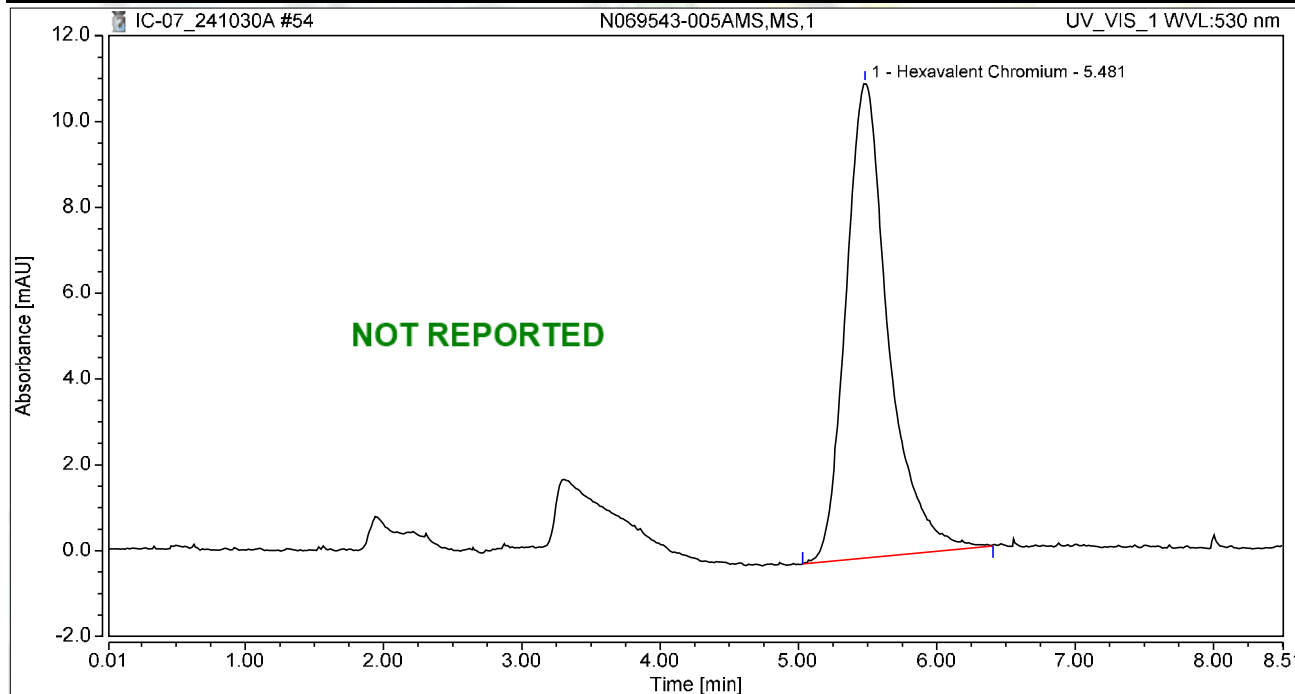
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.481	1.448	5.290	100.00	100.00	5.1018
Total:			1.448	5.290	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-005AMS,MS,1	Run Time (min):	8.49
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 16:52	Sample Weight:	1.0000

Chromatogram



Integration Results

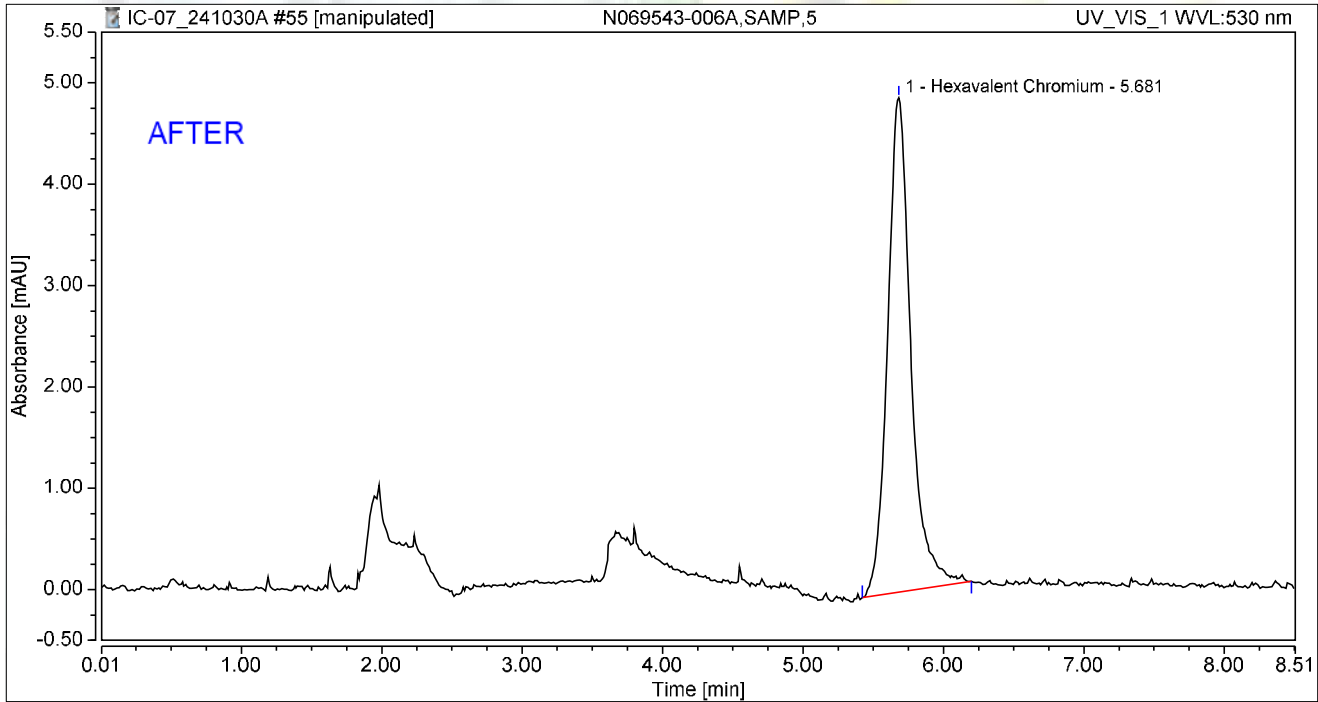
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.481	3.932	11.071	100.00	100.00	13.8578
Total:			3.932	11.071	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-006A,SAMP,5	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 17:02	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.935	4.876	100.00	100.00	3.2939
Total:			0.935	4.876	100.00	100.00	

Reviewed by:

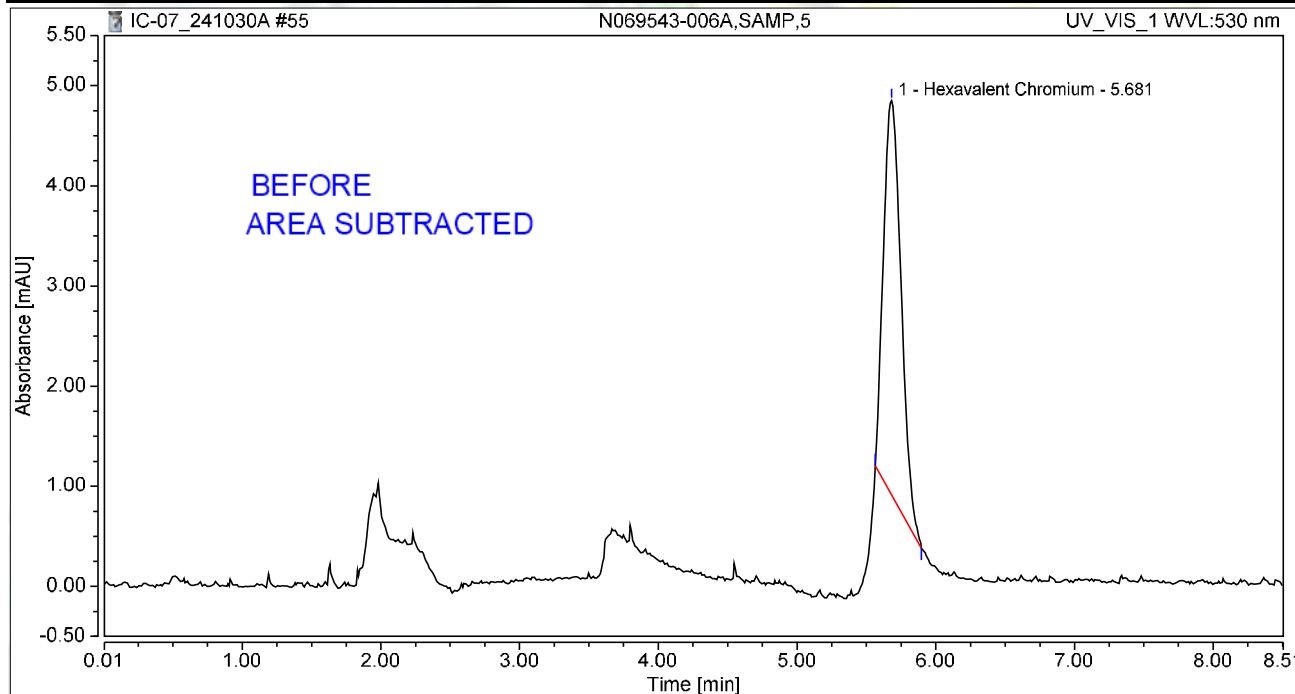
d/Rocha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069543-006A,SAMP,5	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 17:02	Sample Weight:	1.0000

Chromatogram



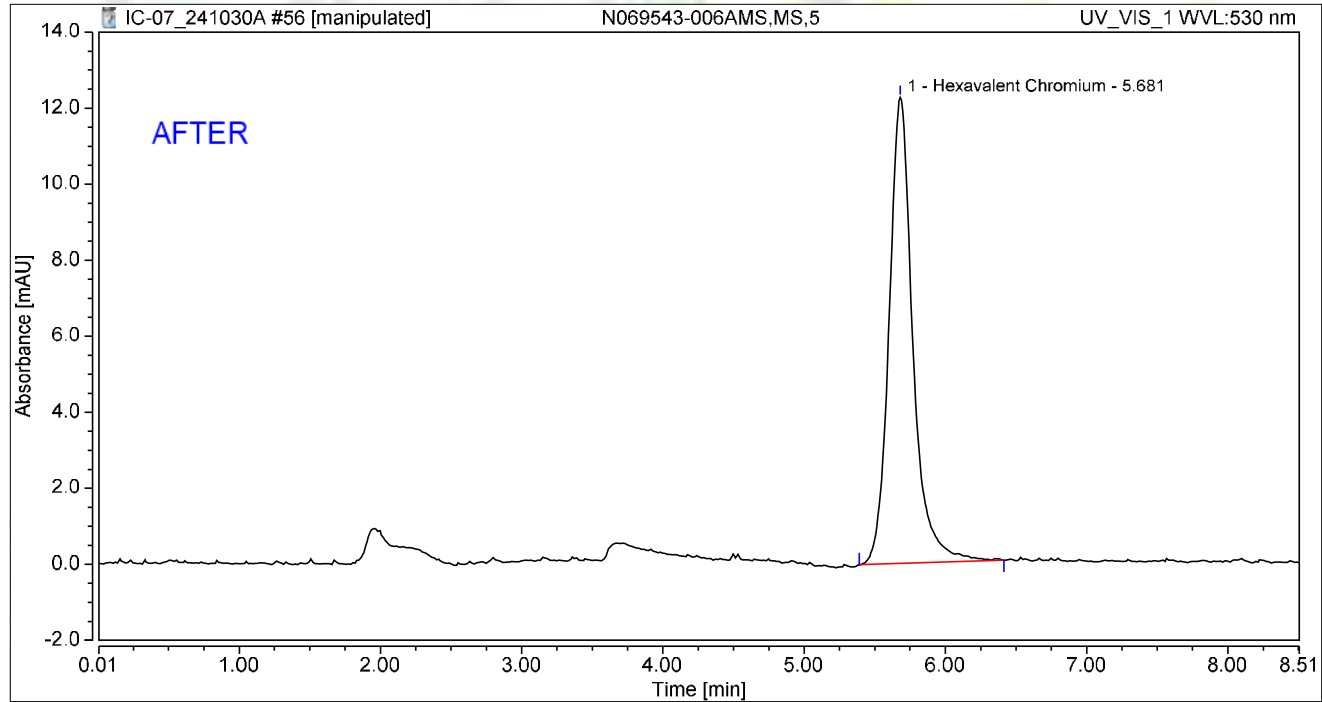
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.580	3.933	100.00	100.00	2.0435
Total:			0.580	3.933	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069543-006AMS,MS,5	Run Time (min): 8.50
Vial Number:	12	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	30/Oct/24 17:11	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	2.384	12.255	100.00	100.00	8.4006
Total:			2.384	12.255	100.00	100.00	

Reviewed by:

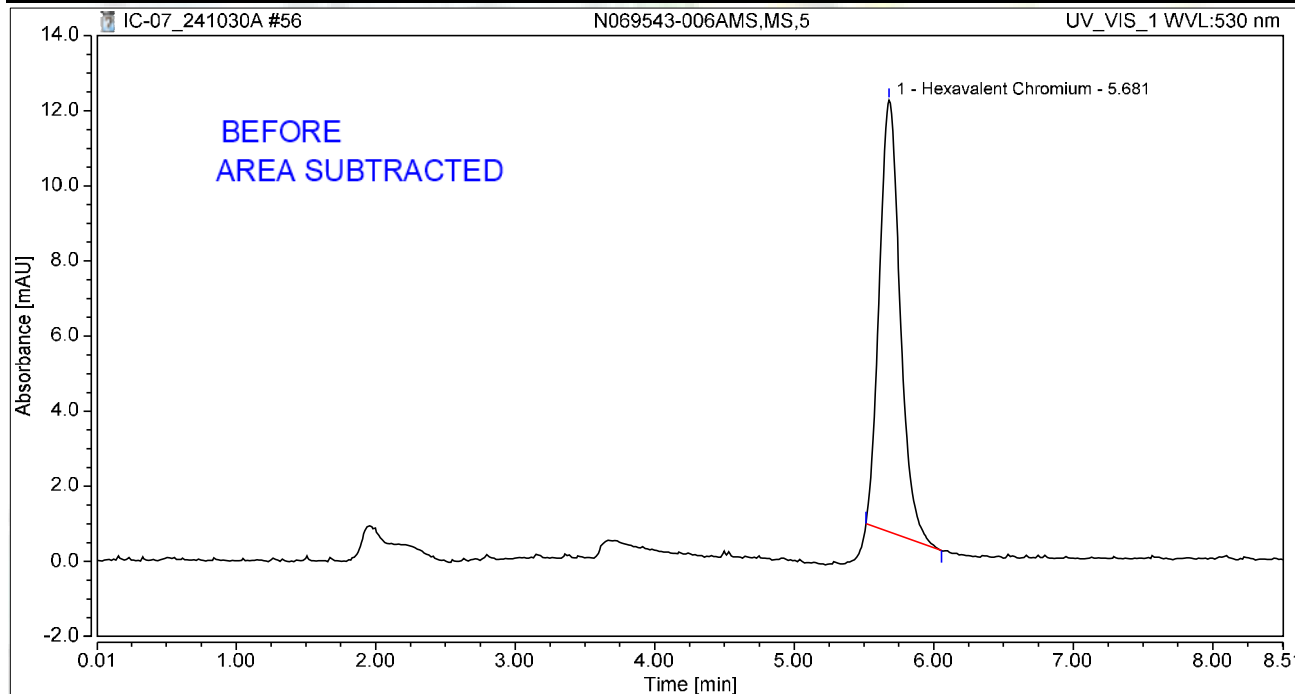
d/Rocha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069543-006AMS,MS,5	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 17:11	Sample Weight:	1.0000

Chromatogram



Integration Results

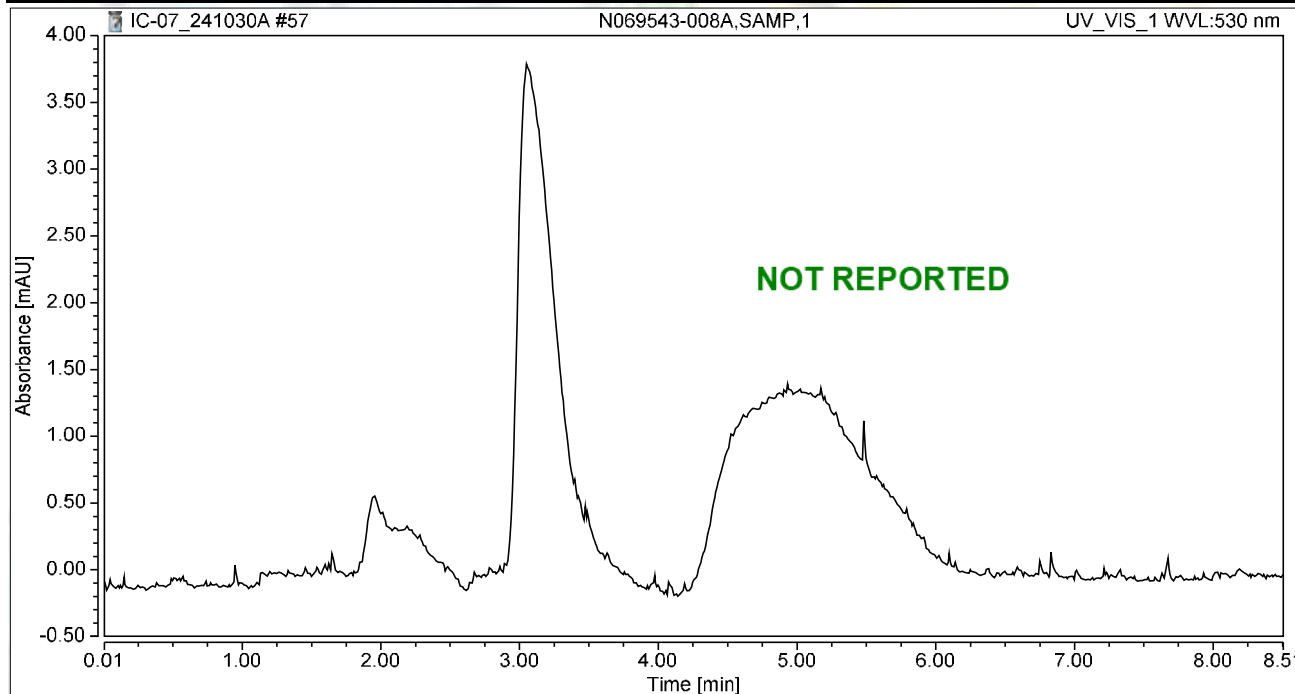
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	1.991	11.495	100.00	100.00	7.0176
Total:			1.991	11.495	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-008A,SAMP,1	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 17:21	Sample Weight:	1.0000

Chromatogram



Integration Results

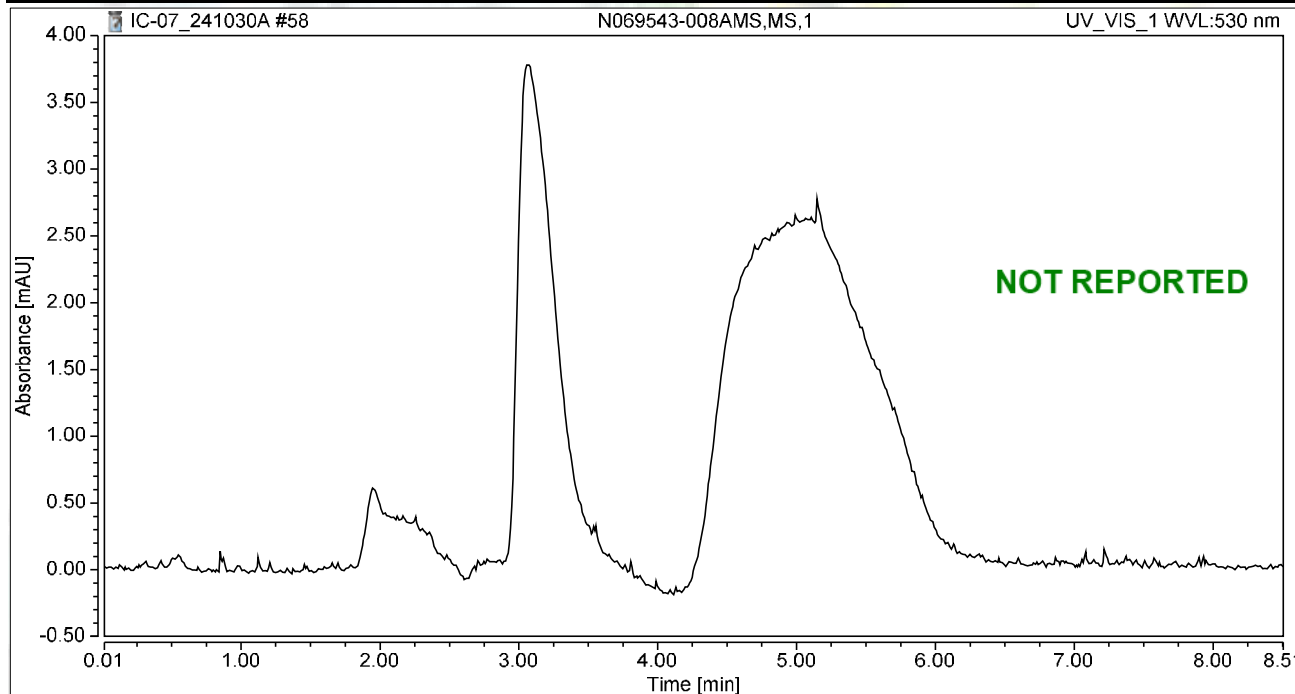
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-008AMS,MS,1	Run Time (min):	8.49
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 17:30	Sample Weight:	1.0000

Chromatogram



Integration Results

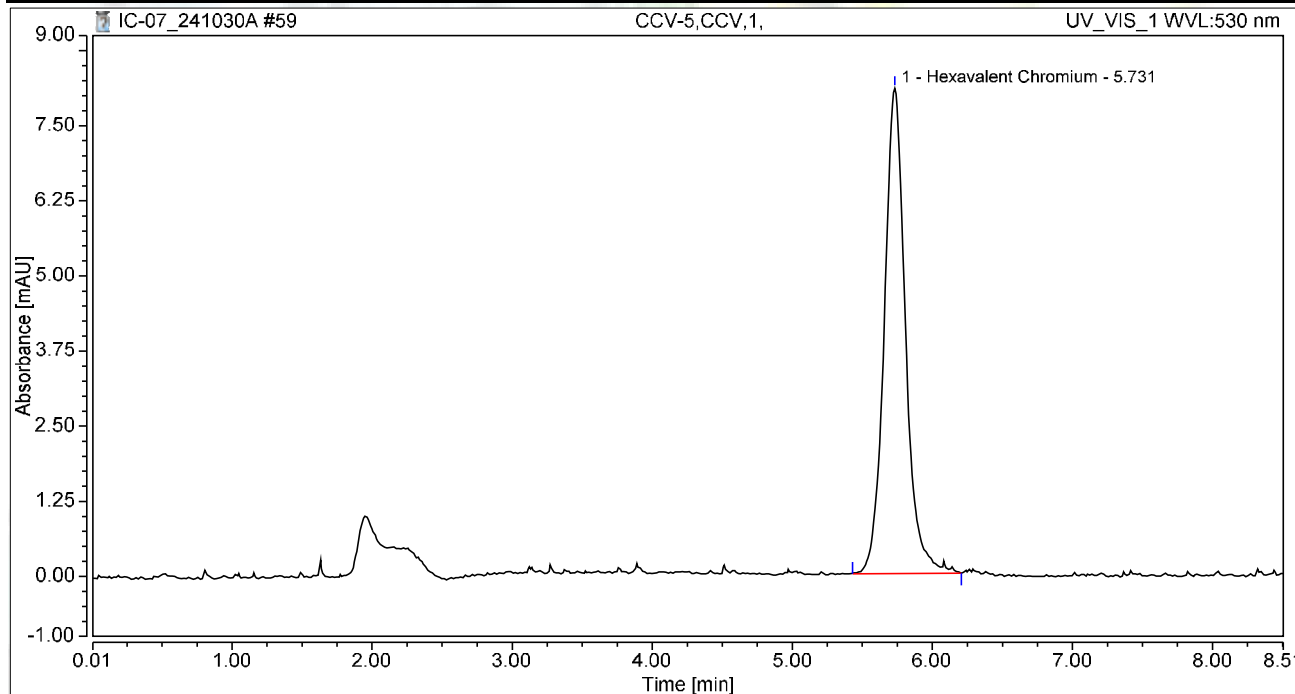
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 17:40	Sample Weight:	1.0000

Chromatogram



Integration Results

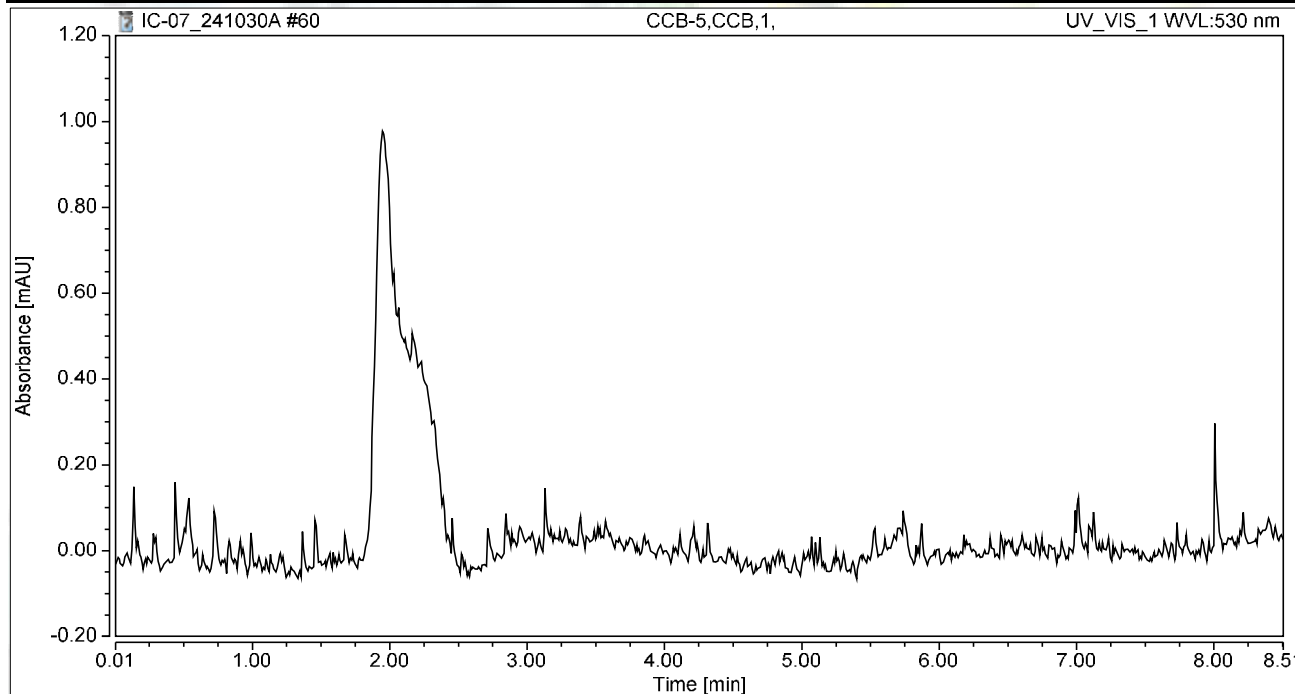
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	1.422	8.077	100.00	100.00	5.0118
Total:			1.422	8.077	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 17:49	Sample Weight:	1.0000

Chromatogram



Integration Results

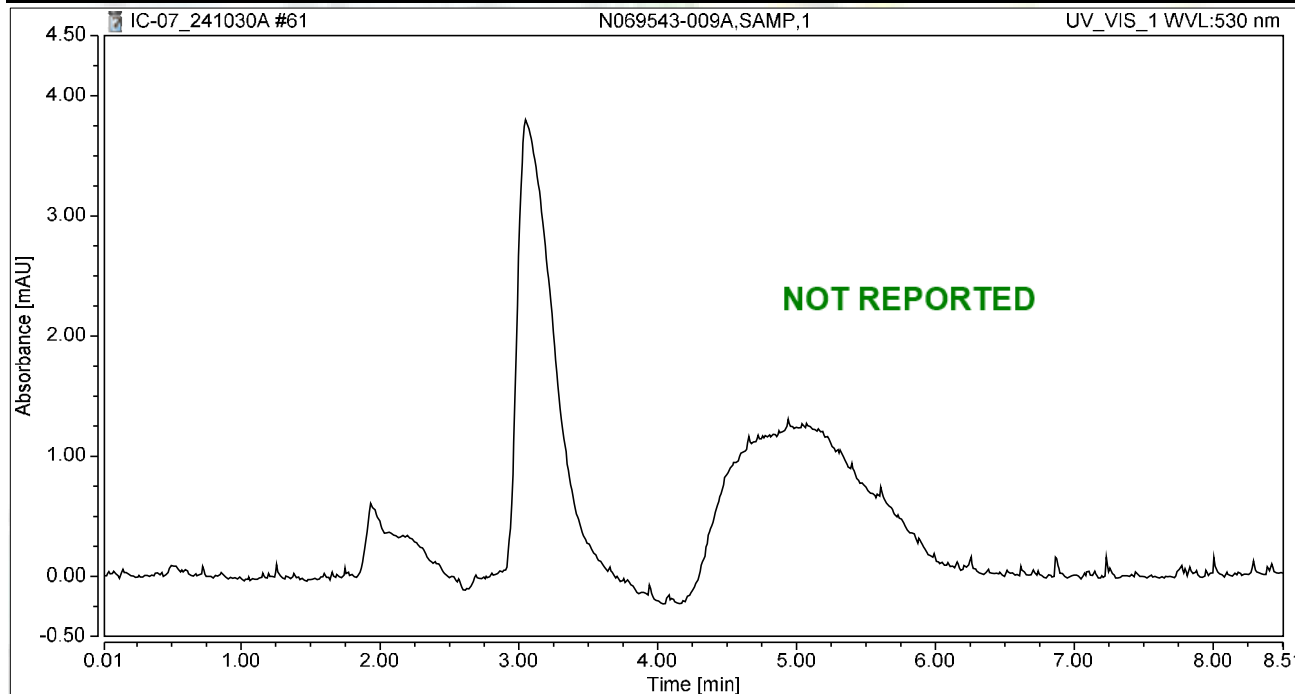
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-009A,SAMP,1	Run Time (min):	8.49
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 17:59	Sample Weight:	1.0000

Chromatogram



Integration Results

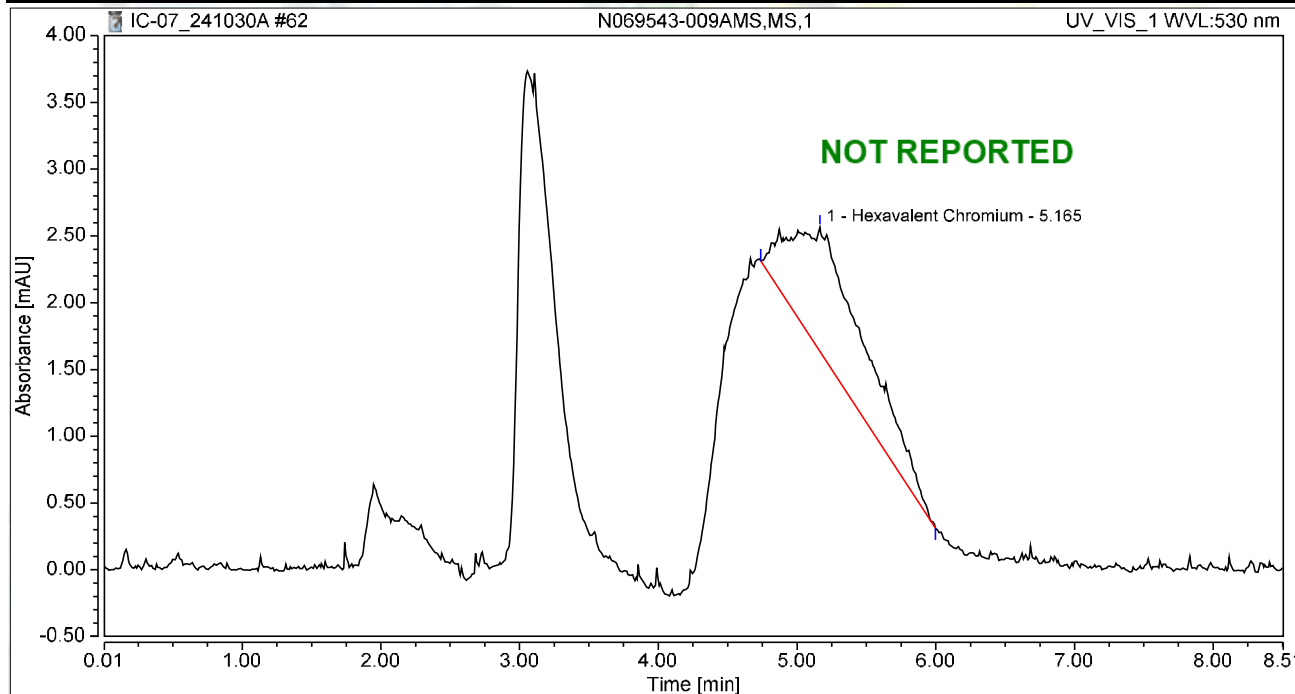
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-009AMS,MS,1	Run Time (min):	8.50
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 18:08	Sample Weight:	1.0000

Chromatogram



Integration Results

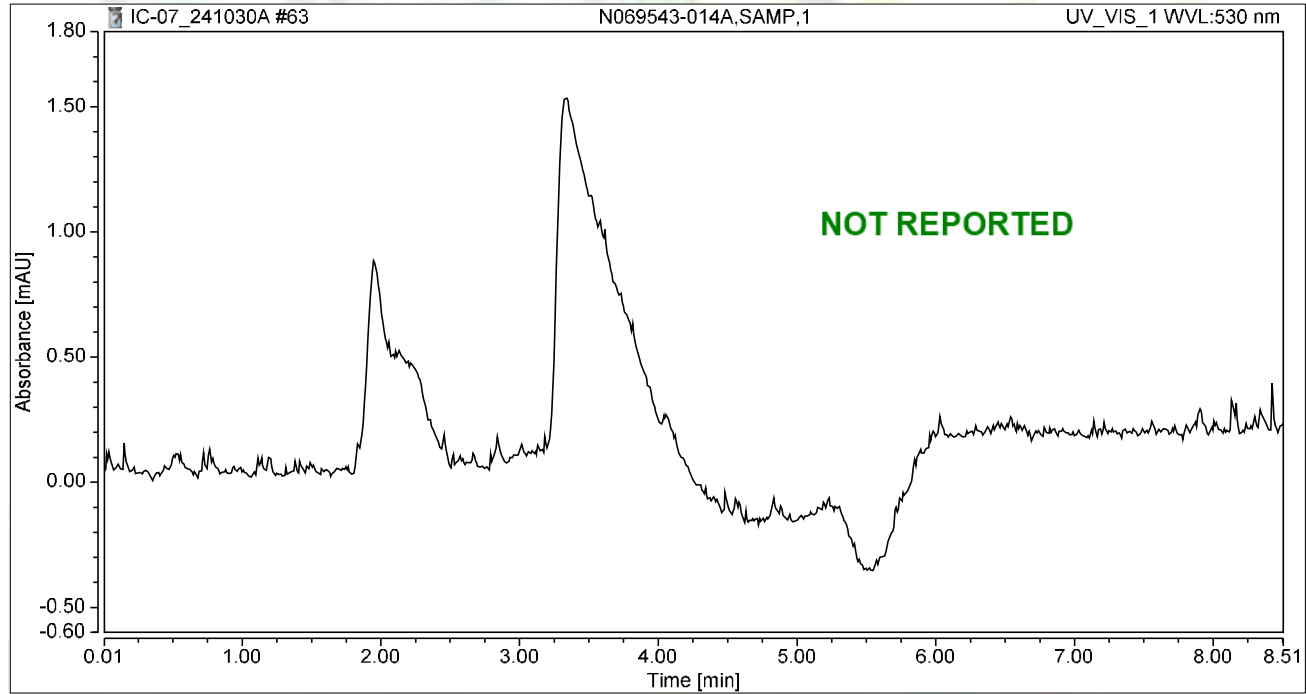
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.165	0.597	0.928	100.00	100.00	2.1037
Total:			0.597	0.928	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-014A,SAMP,1	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 18:17	Sample Weight:	1.0000

Chromatogram



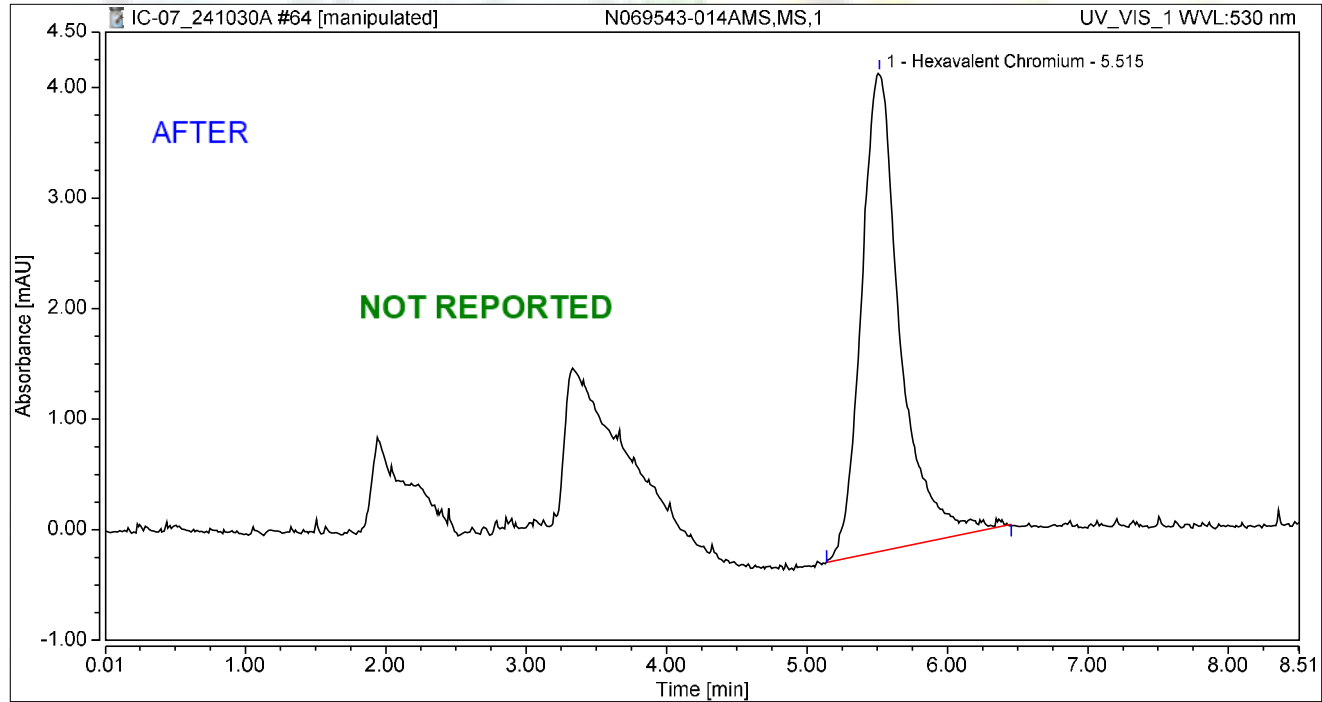
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069543-014AMS,MS,1	Run Time (min): 8.50
Vial Number:	20	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	30/Oct/24 18:27	Sample Weight: 1.0000

Chromatogram



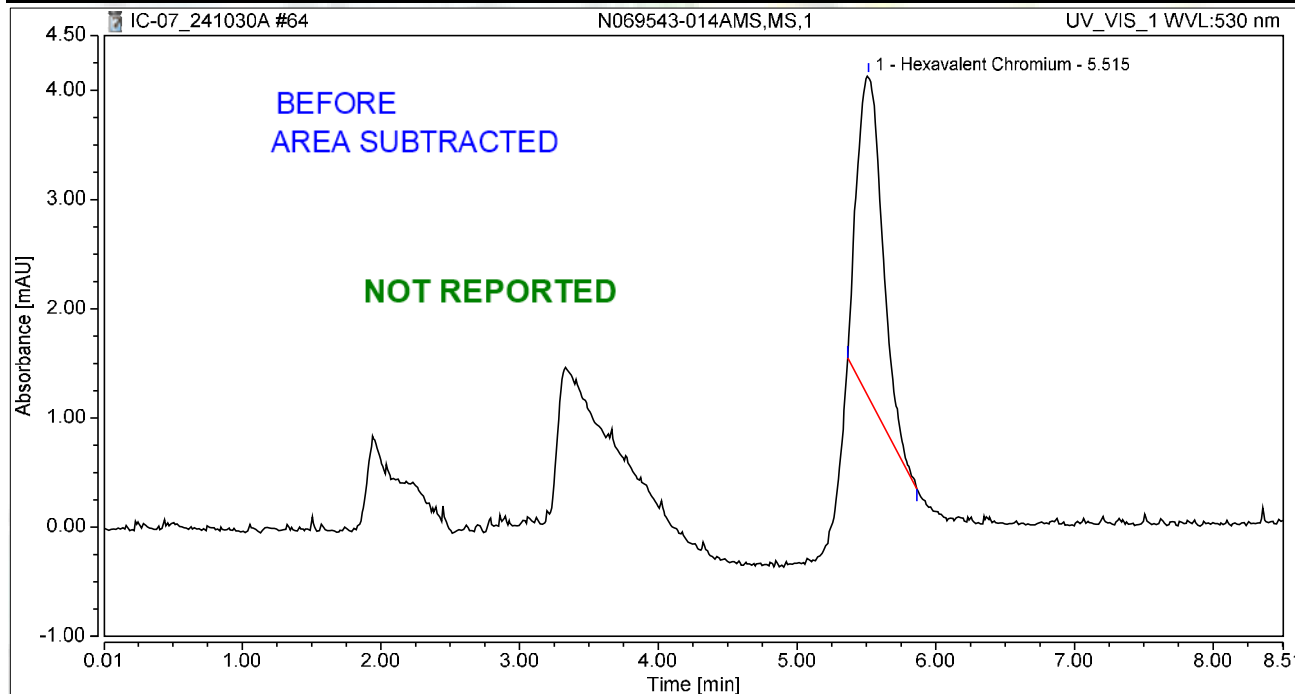
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.515	1.385	4.334	100.00	100.00	4.8793
Total:			1.385	4.334	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-014AMS,MS,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 18:27	Sample Weight:	1.0000

Chromatogram



Integration Results

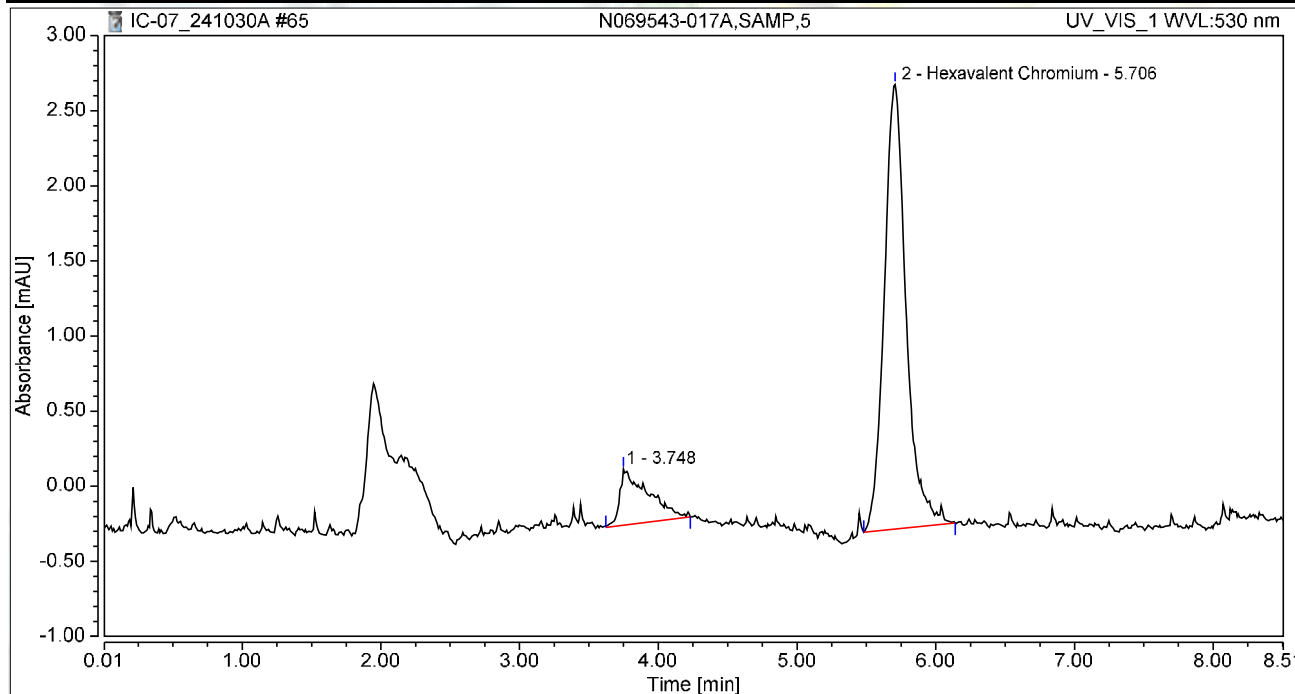
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.515	0.632	2.948	100.00	100.00	2.2290
Total:			0.632	2.948	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-017A,SAMP,5	Run Time (min):	8.50
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 18:36	Sample Weight:	1.0000

Chromatogram



Integration Results

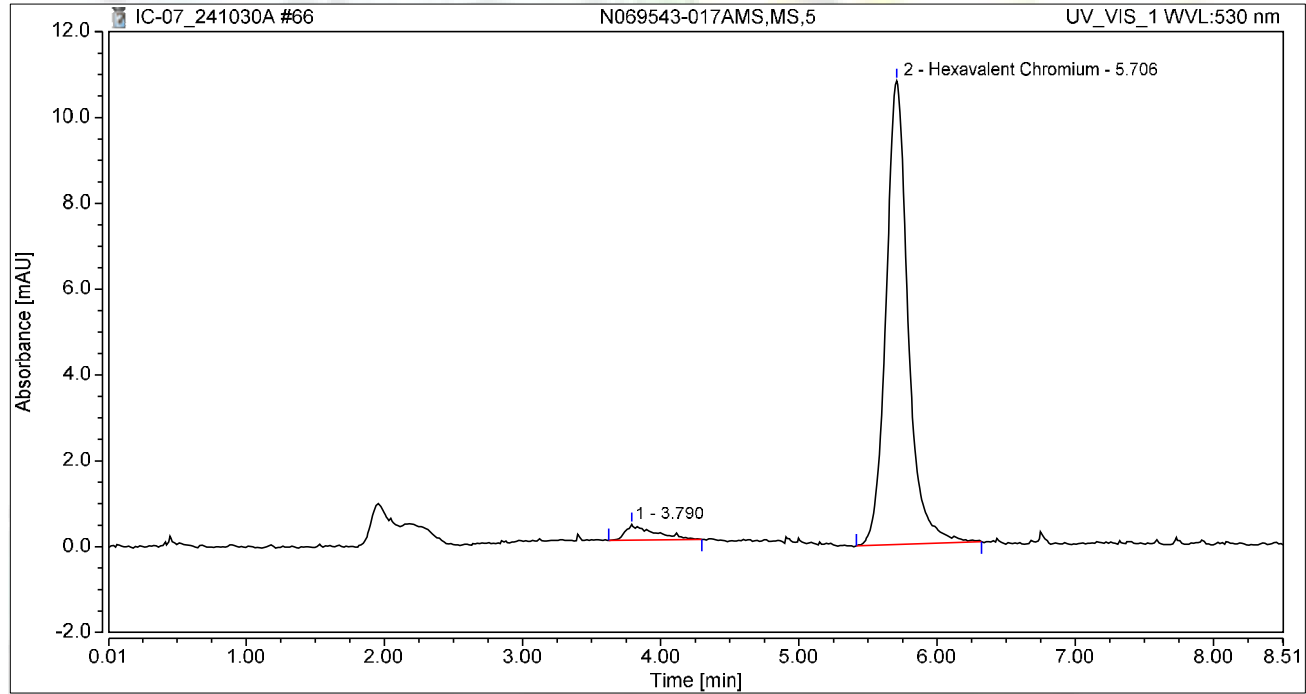
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.748	0.087	0.374	13.92	11.23	n.a.
2	Hexavalent Chromium	5.706	0.539	2.961	86.08	88.77	1.8996
Total:			0.626	3.335	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-017AMS,MS,5	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 18:46	Sample Weight:	1.0000

Chromatogram



Integration Results

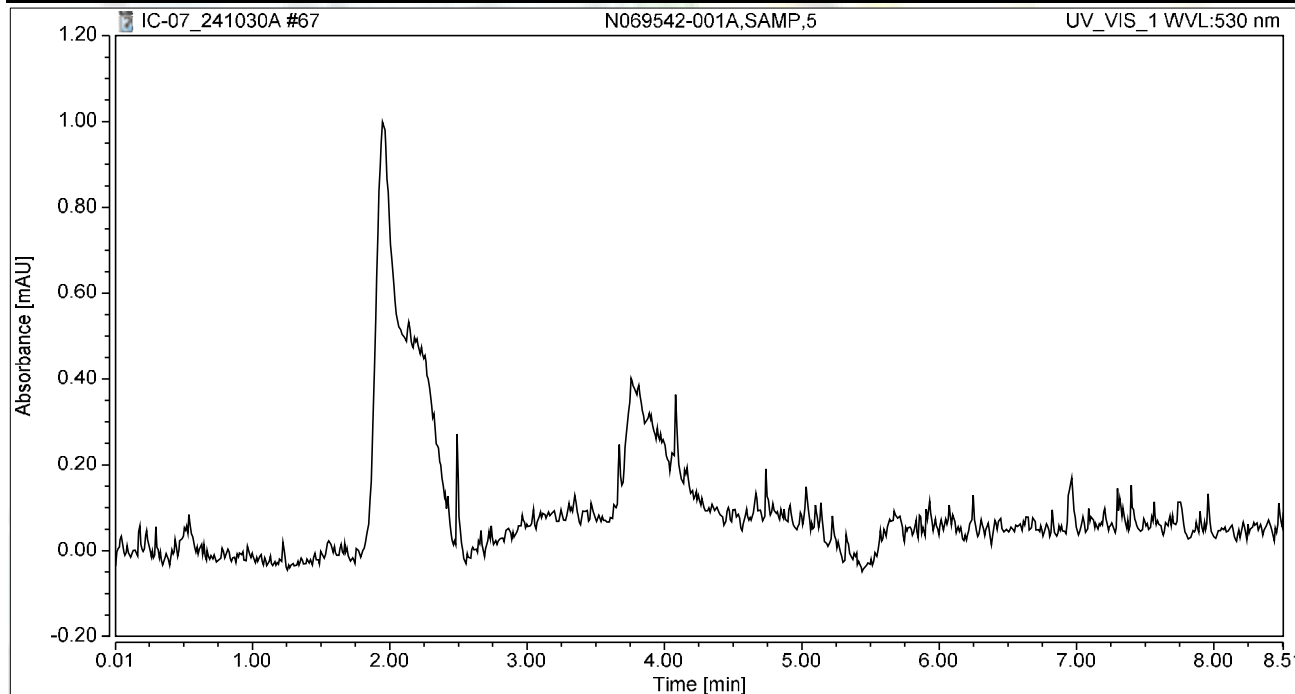
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.790	0.087	0.374	4.17	3.34	n.a.
2	Hexavalent Chromium	5.706	1.993	10.807	95.83	96.66	7.0229
Total:			2.080	11.181	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069542-001A,SAMP,5	Run Time (min):	8.50
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 18:55	Sample Weight:	1.0000

Chromatogram



Integration Results

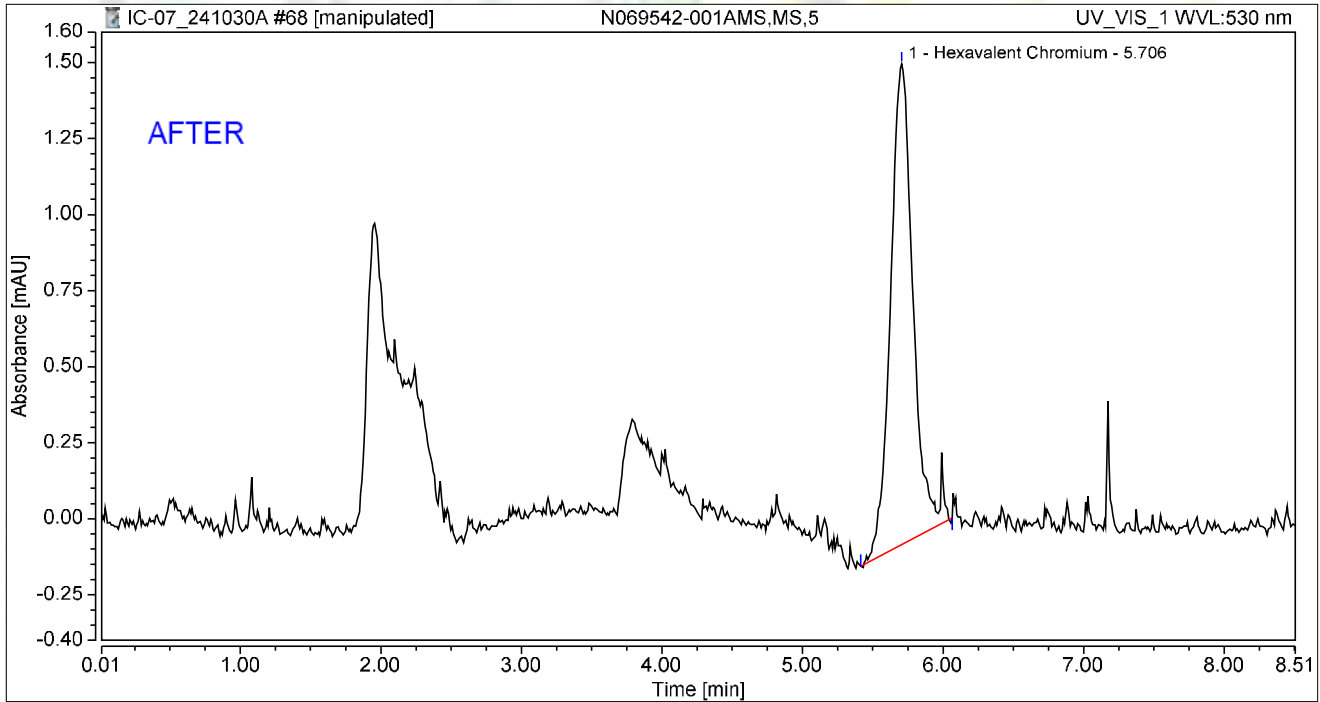
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069542-001AMS,MS,5	Run Time (min):	8.49
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 19:05	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	0.294	1.580	100.00	100.00	1.0347
Total:			0.294	1.580	100.00	100.00	

Reviewed by:

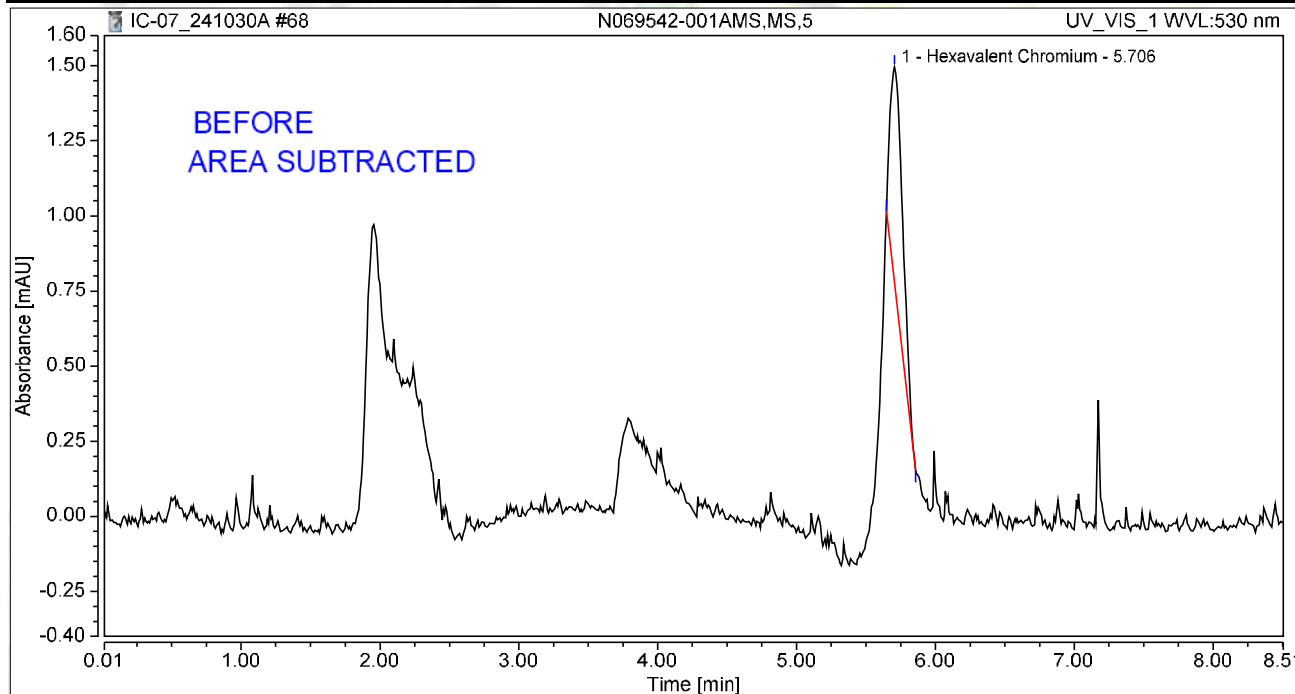
M. Rocha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069542-001AMS,MS,5	Run Time (min):	8.49
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 19:05	Sample Weight:	1.0000

Chromatogram



Integration Results

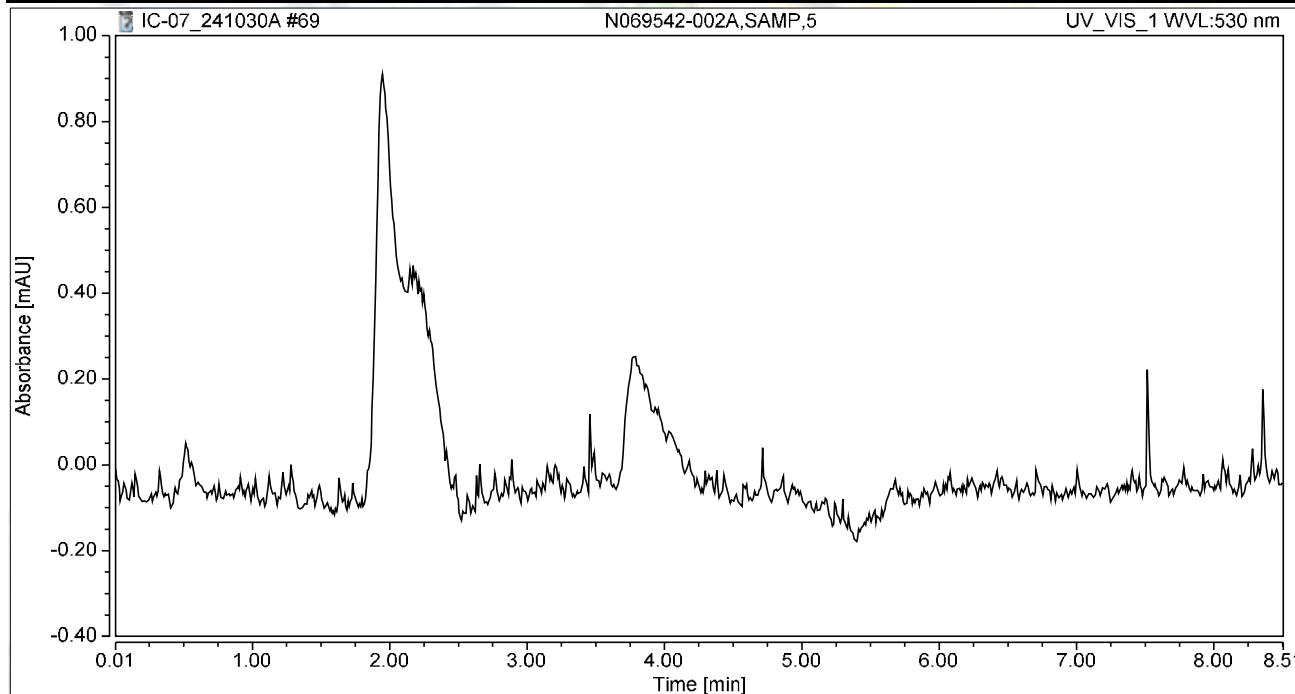
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	0.078	0.720	100.00	100.00	0.2736
Total:			0.078	0.720	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069542-002A,SAMP,5	Run Time (min):	8.50
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 19:14	Sample Weight:	1.0000

Chromatogram



Integration Results

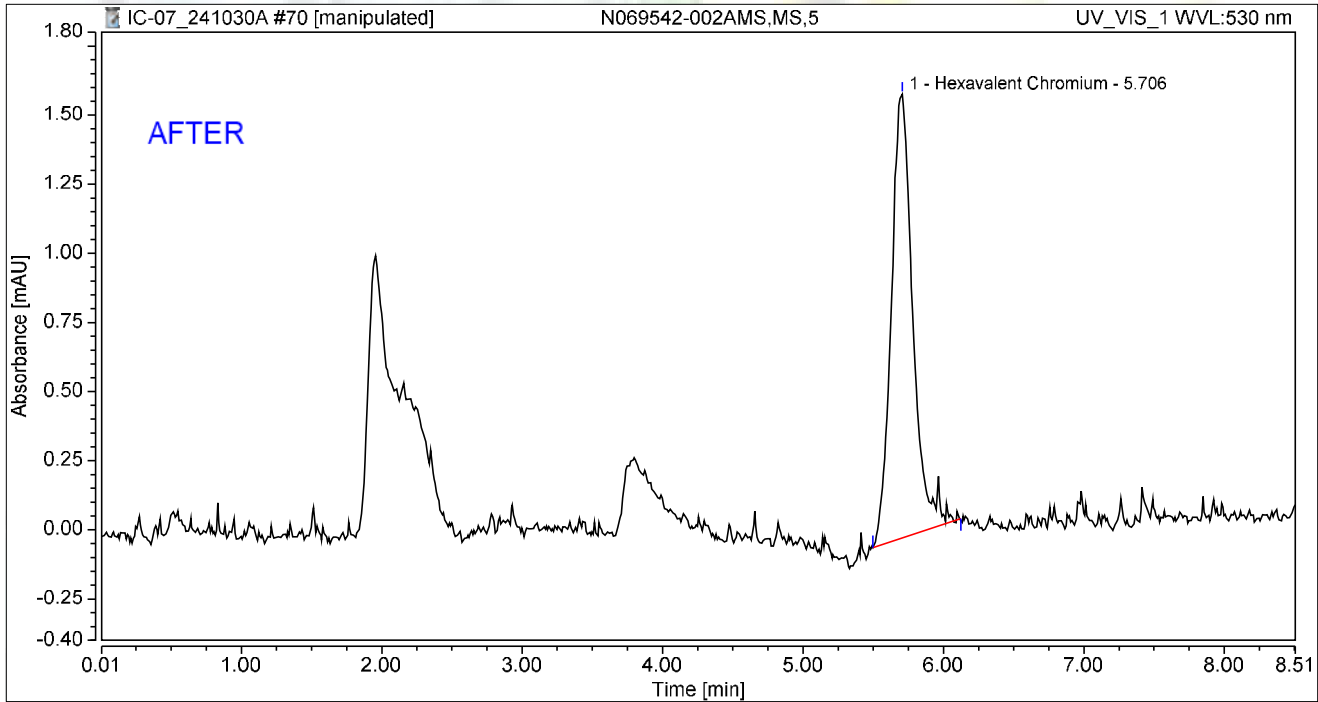
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069542-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 19:24	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	0.285	1.604	100.00	100.00	1.0030
Total:			0.285	1.604	100.00	100.00	

Reviewed by:

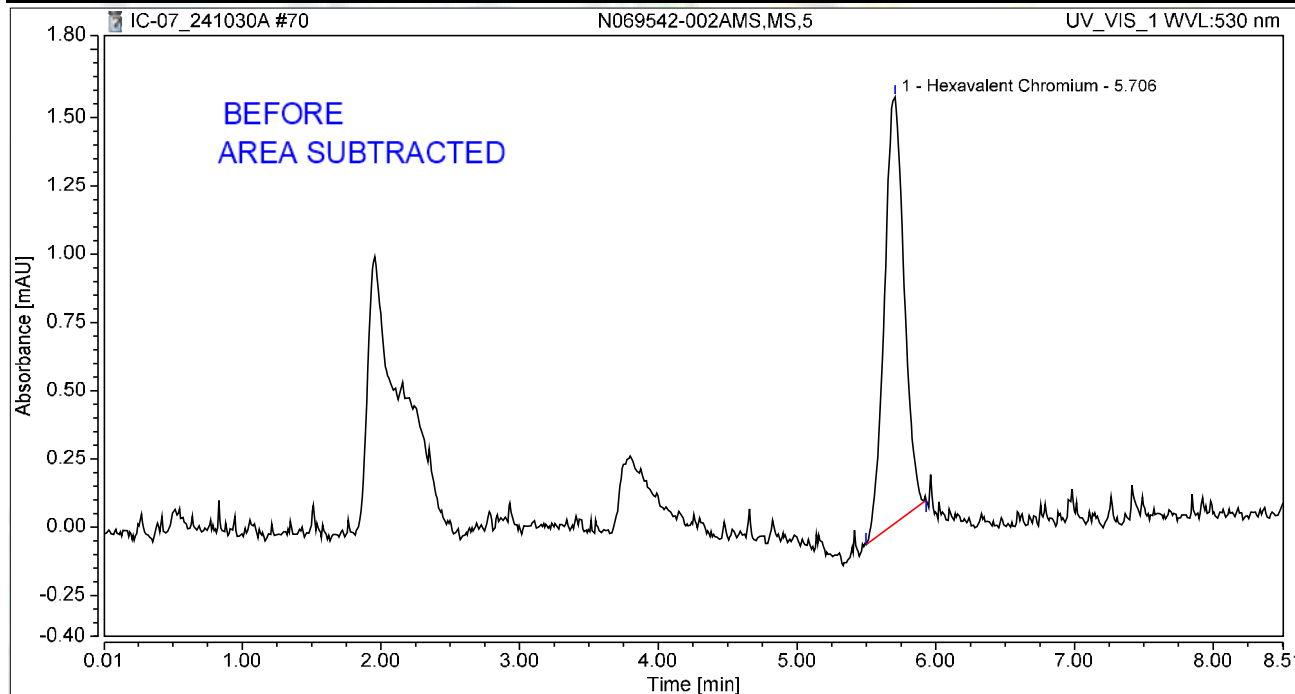
M Rocha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069542-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 19:24	Sample Weight:	1.0000

Chromatogram



Integration Results

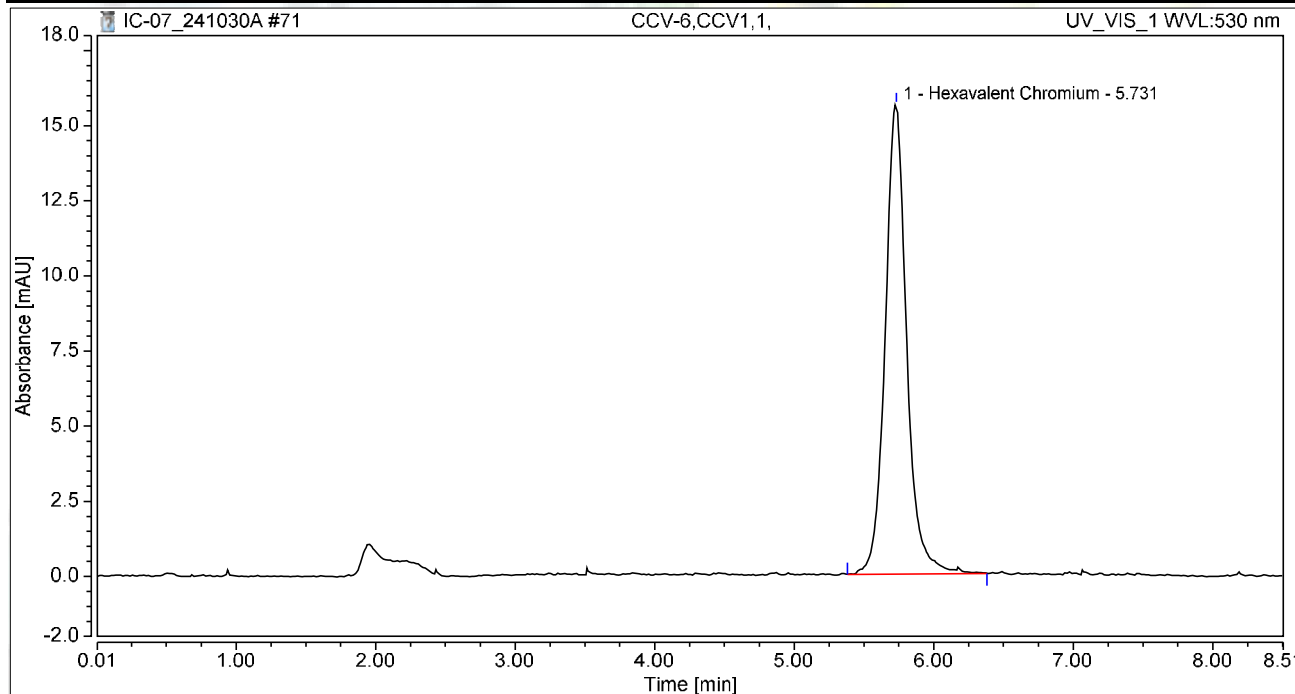
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	0.257	1.561	100.00	100.00	0.9069
Total:			0.257	1.561	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-6,CCV1,1,	Run Time (min):	8.50
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 19:33	Sample Weight:	1.0000

Chromatogram



Integration Results

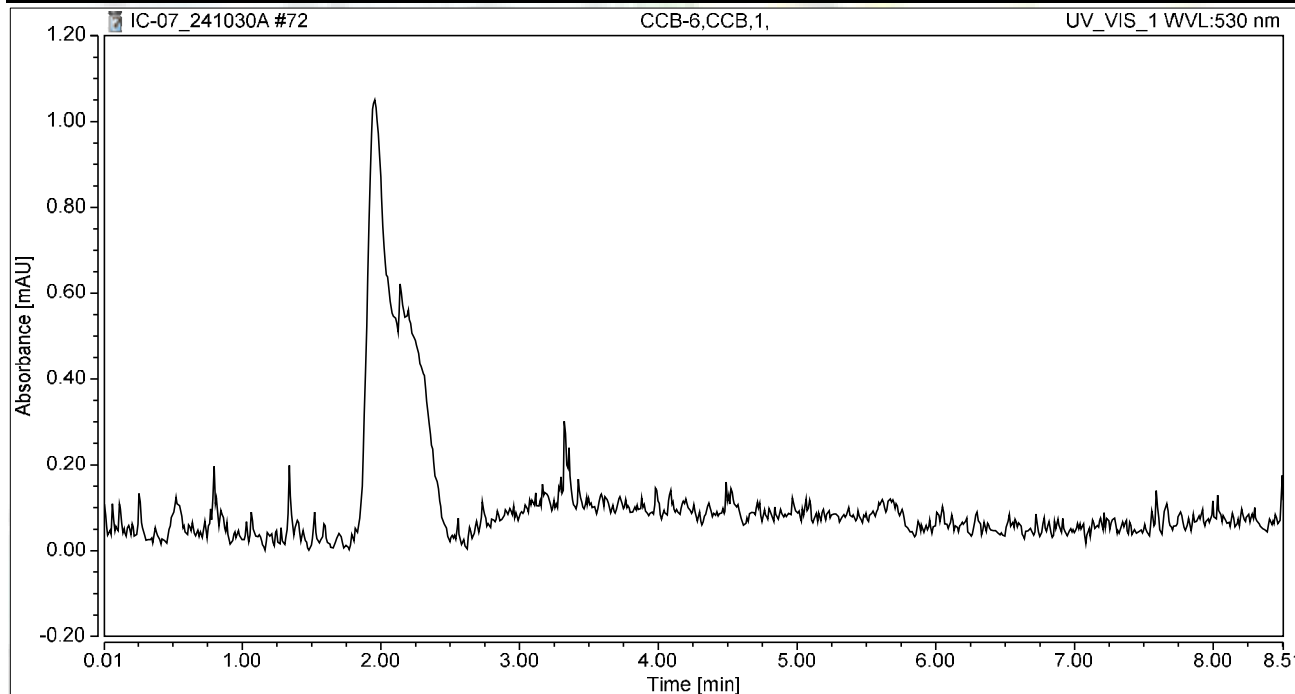
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	2.792	15.624	100.00	100.00	9.8381
Total:			2.792	15.624	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-6,CCB,1,	Run Time (min):	8.50
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 19:43	Sample Weight:	1.0000

Chromatogram



Integration Results

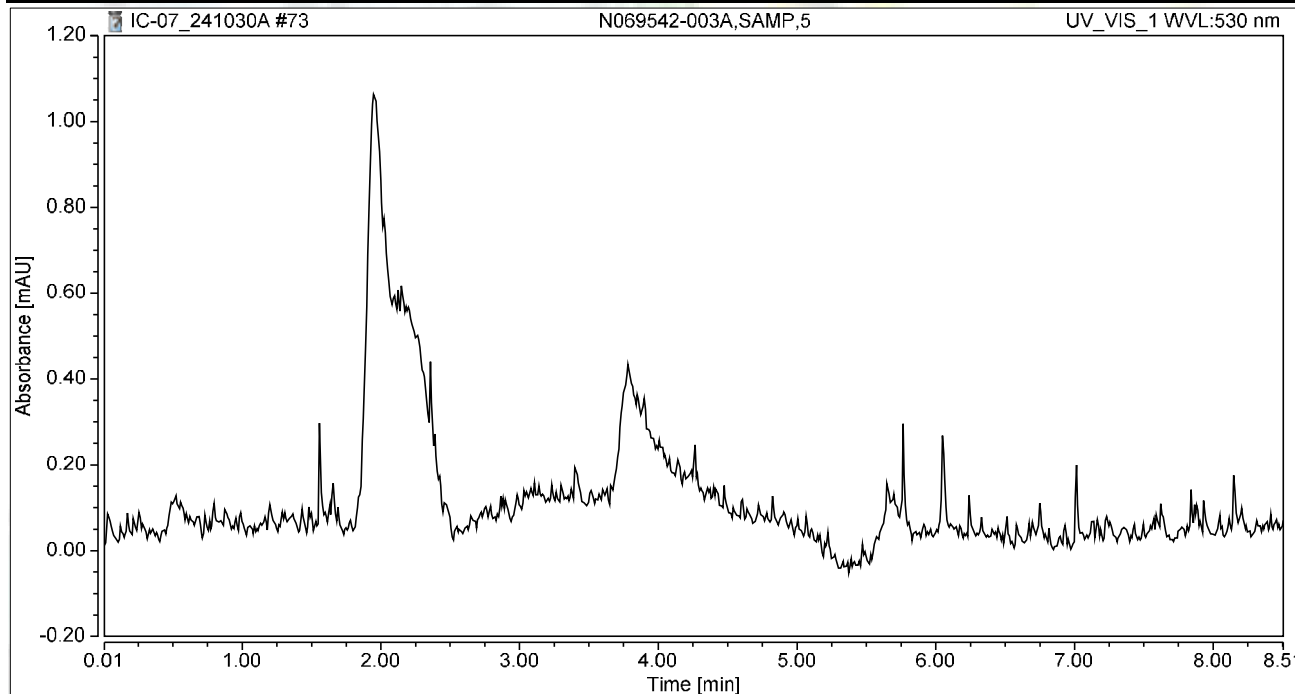
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069542-003A,SAMP,5	Run Time (min):	8.50
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 19:52	Sample Weight:	1.0000

Chromatogram



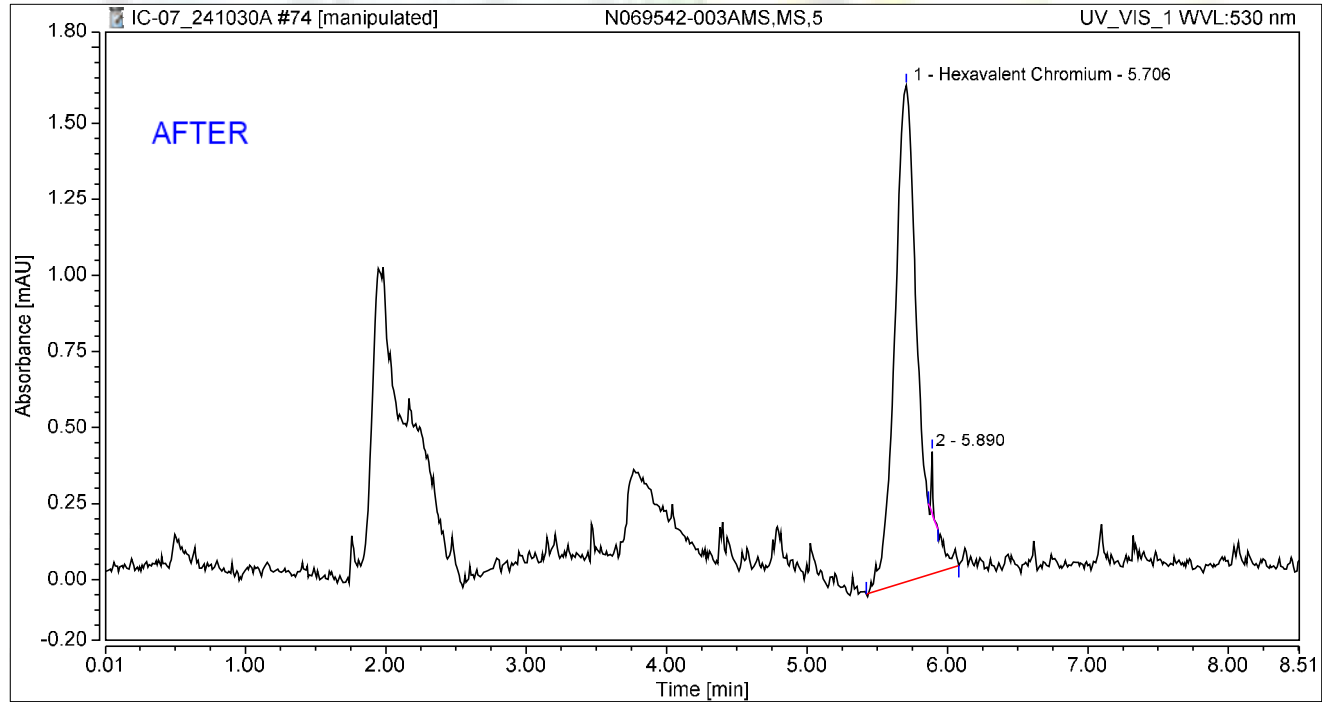
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069542-003AMS,MS,5	Run Time (min): 8.50
Vial Number:	30	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	30/Oct/24 20:01	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	0.307	1.631	99.11	88.97	1.0821
2		5.890	0.003	0.202	0.89	11.03	n.a.
Total:			0.310	1.833	100.00	100.00	

Reviewed by:

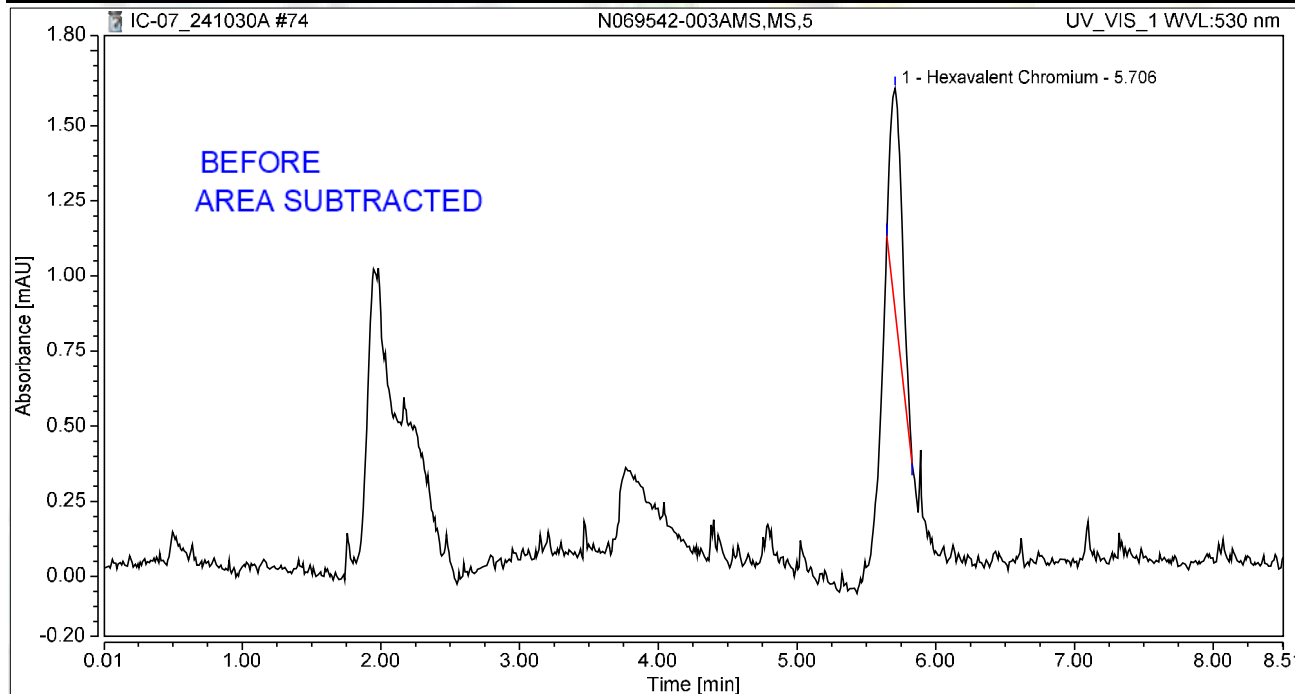
MRecha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069542-003AMS,MS,5	Run Time (min):	8.50
Vial Number:	30	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 20:01	Sample Weight:	1.0000

Chromatogram



Integration Results

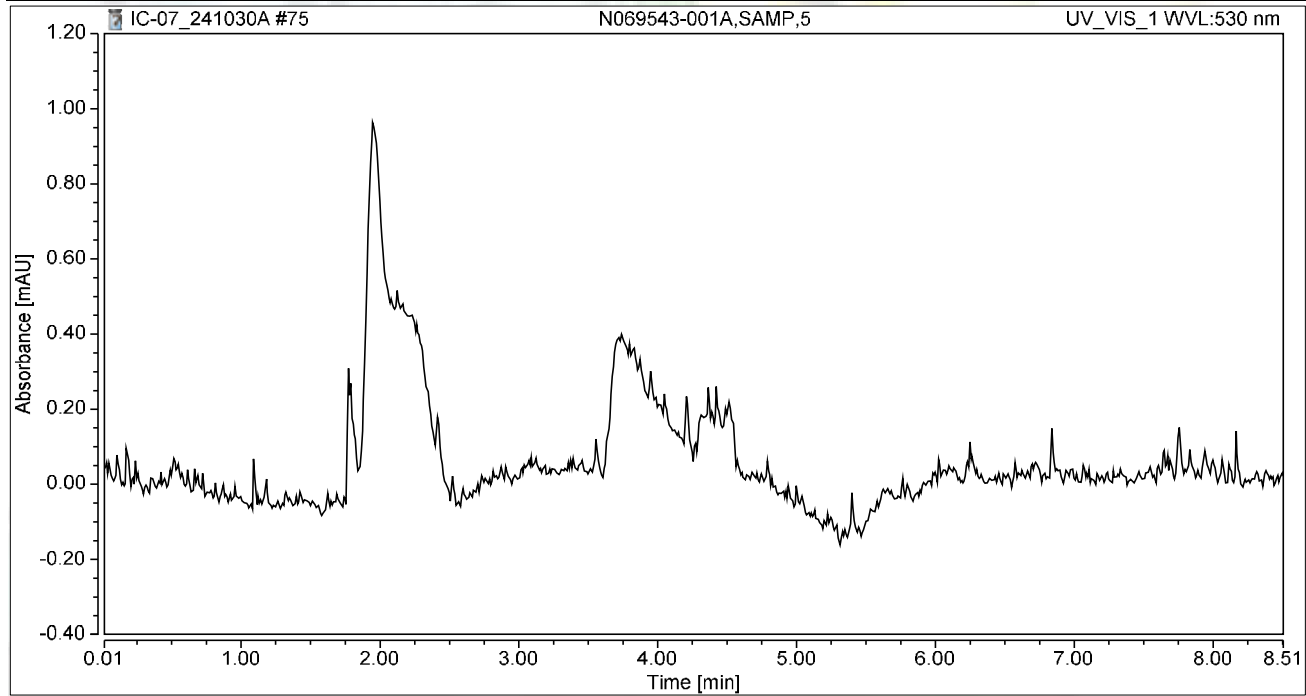
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	0.074	0.731	100.00	100.00	0.2594
Total:			0.074	0.731	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-001A,SAMP,5	Run Time (min):	8.49
Vial Number:	31	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 20:11	Sample Weight:	1.0000

Chromatogram



Integration Results

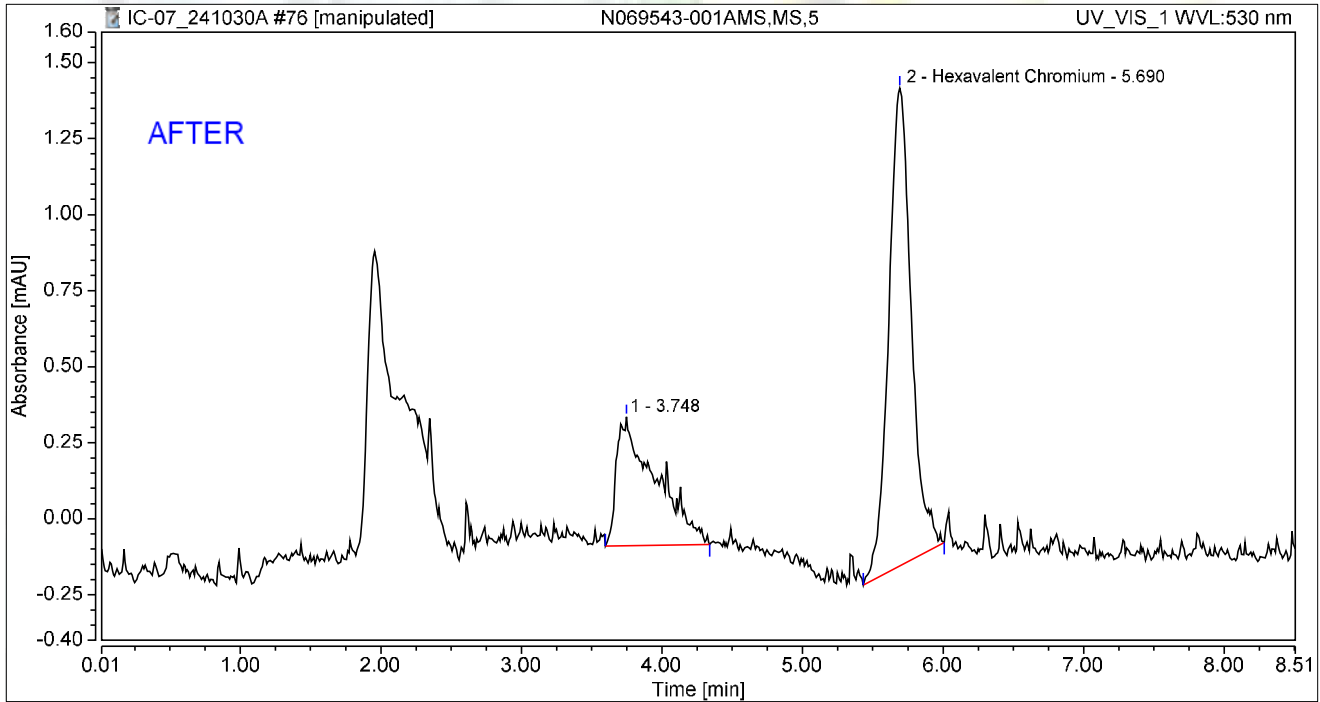
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-001AMS,MS,5	Run Time (min):	8.49
Vial Number:	32	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 20:20	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.748	0.137	0.424	31.90	21.27	n.a.
2	Hexavalent Chromium	5.690	0.293	1.571	68.10	78.73	1.0311
Total:			0.430	1.995	100.00	100.00	

Reviewed by:

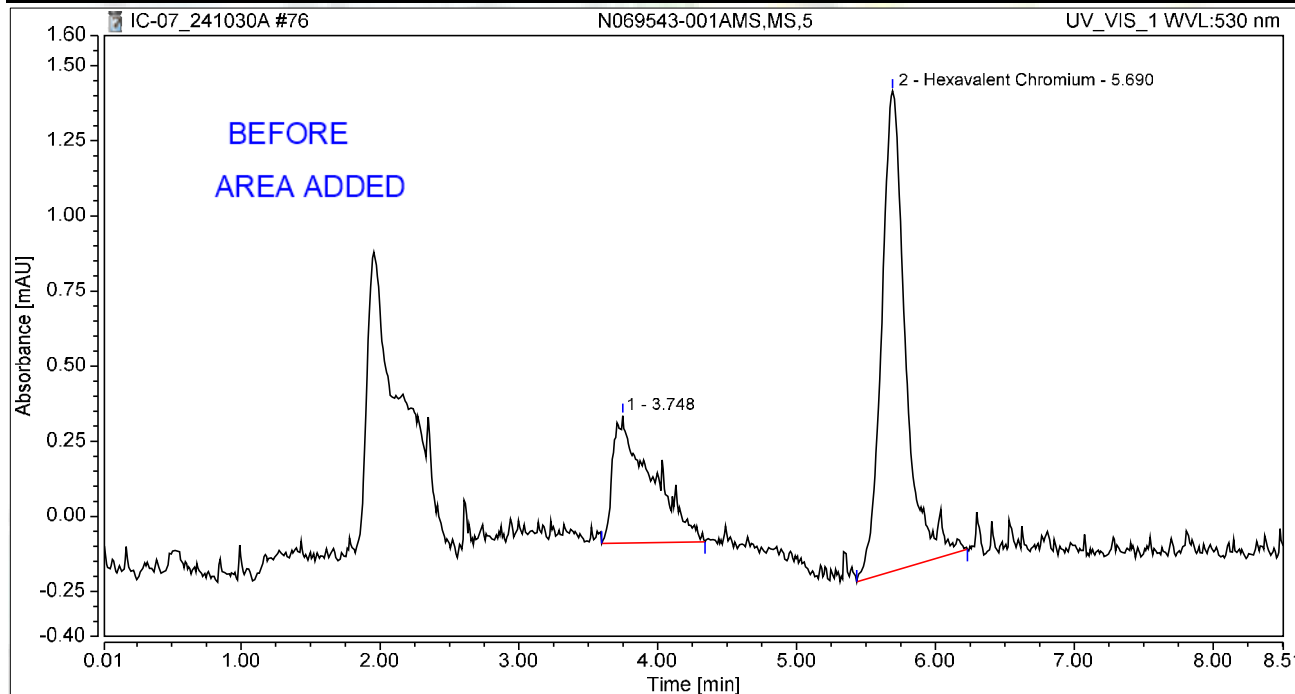
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Chromatogram and Results

Injection Details

Injection Name:	N069543-001AMS,MS,5	Run Time (min):	8.49
Vial Number:	32	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 20:20	Sample Weight:	1.0000

Chromatogram



Integration Results

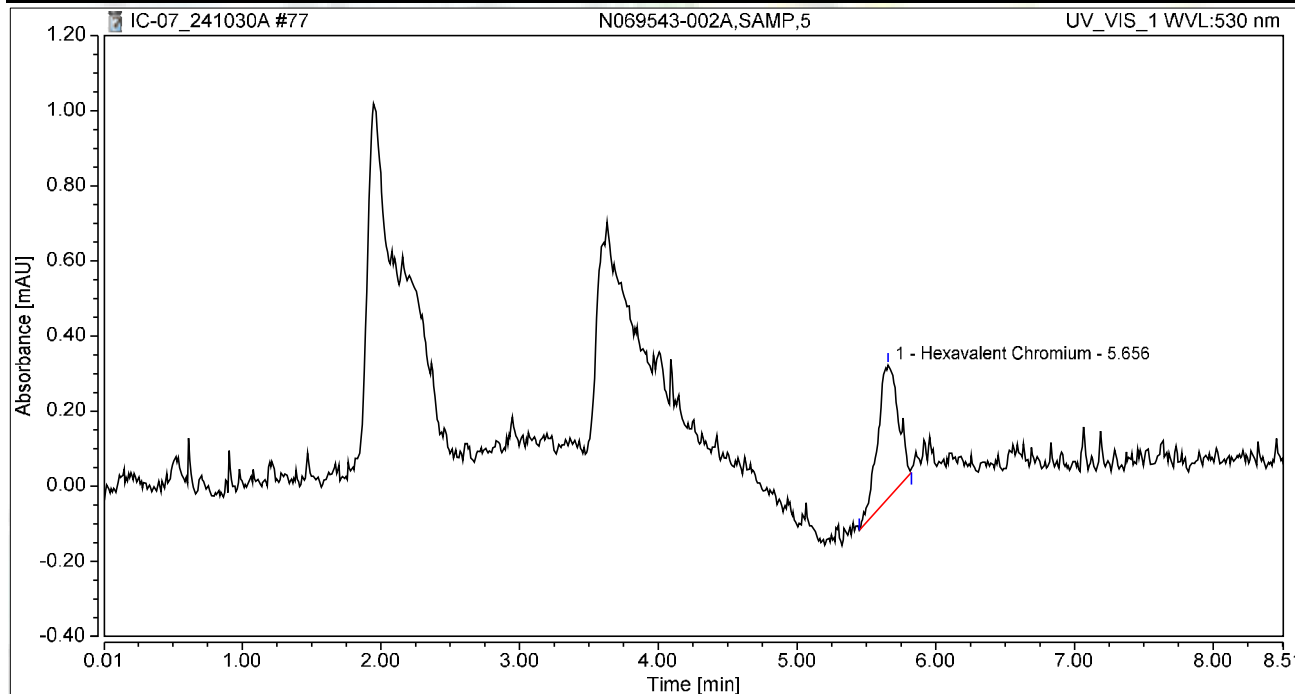
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.748	0.137	0.424	29.89	20.98	n.a.
2	Hexavalent Chromium	5.690	0.322	1.599	70.11	79.02	1.1332
Total:			0.459	2.024	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-002A,SAMP,5	Run Time (min):	8.50
Vial Number:	33	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 20:30	Sample Weight:	1.0000

Chromatogram



Integration Results

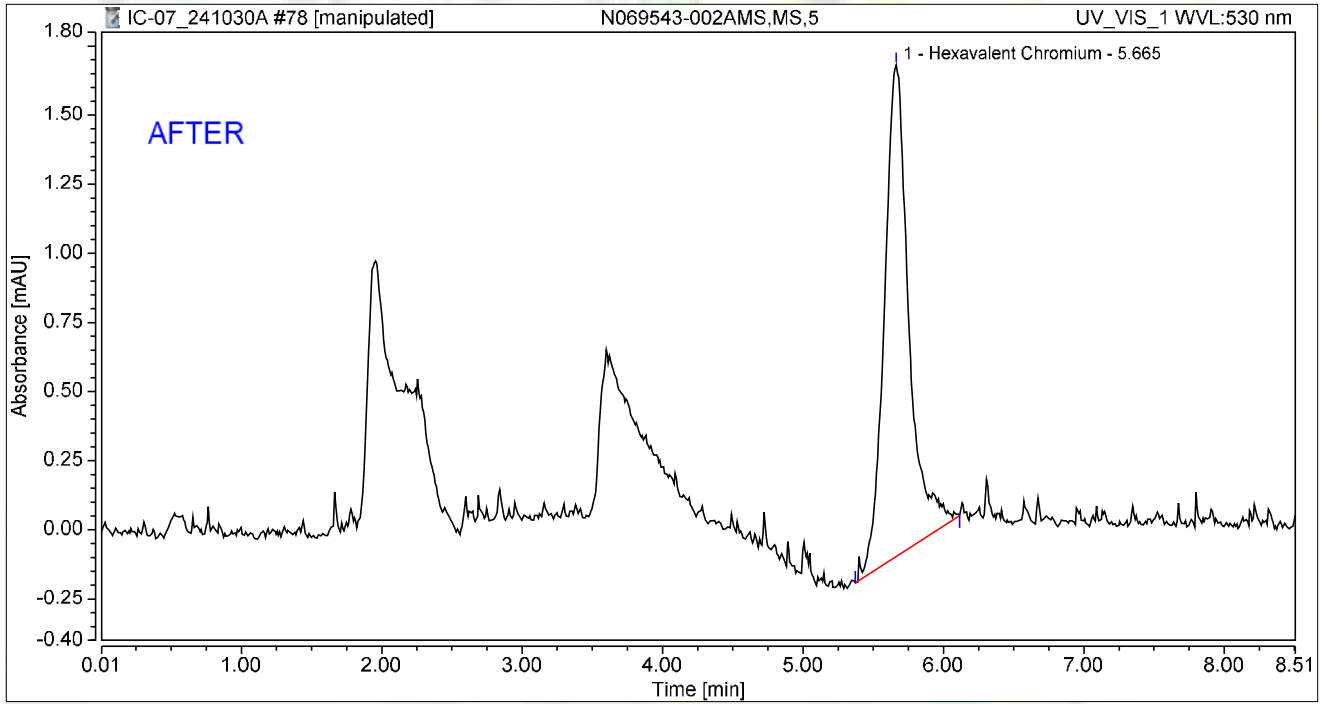
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.656	0.062	0.355	100.00	100.00	0.2168
Total:			0.062	0.355	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	34	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 20:39	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.360	1.778	100.00	100.00	1.2698
Total:			0.360	1.778	100.00	100.00	

Reviewed by:

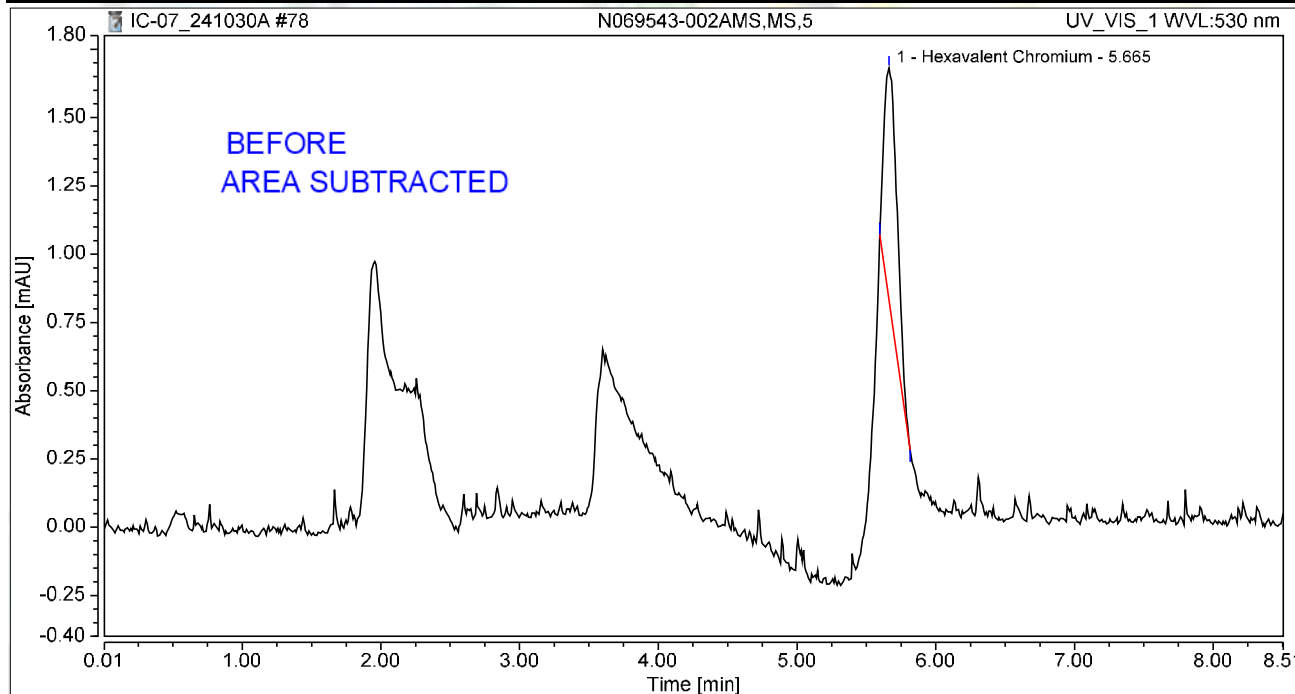
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Chromatogram and Results

Injection Details

Injection Name:	N069543-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	34	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 20:39	Sample Weight:	1.0000

Chromatogram



Integration Results

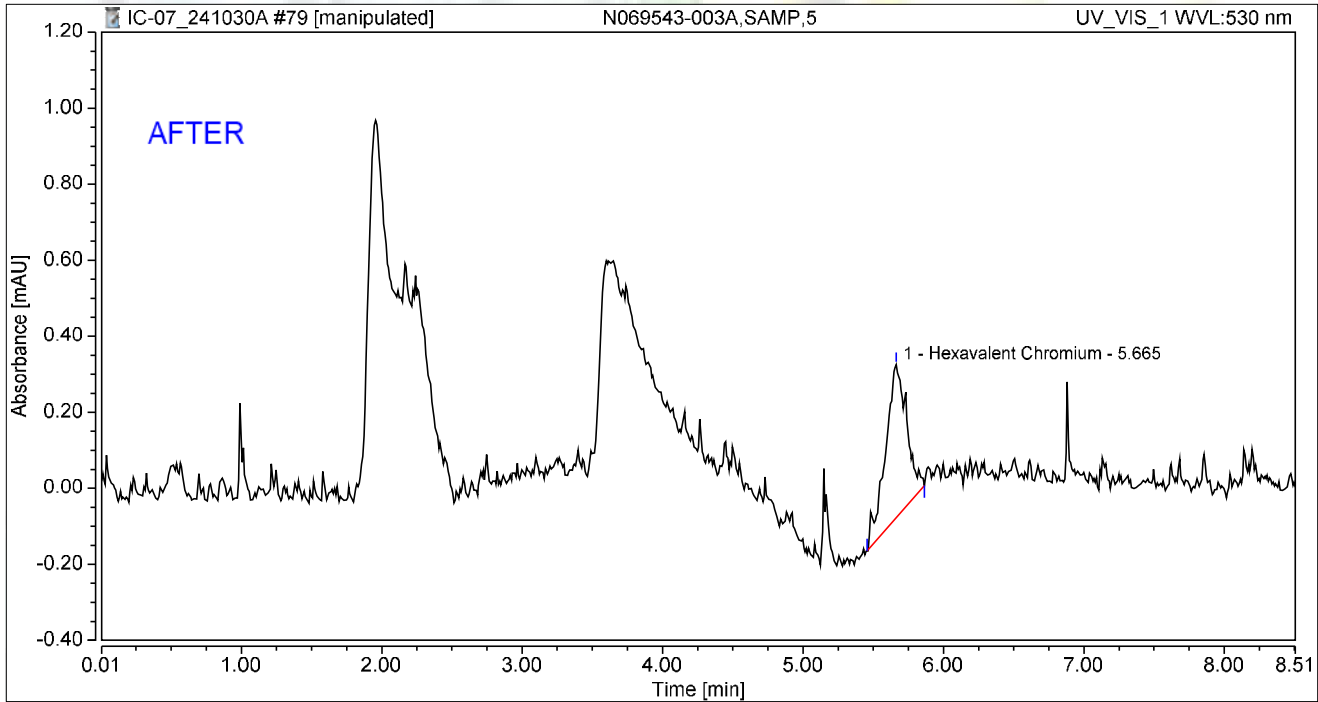
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.094	0.851	100.00	100.00	0.3319
Total:			0.094	0.851	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-003A,SAMP,5	Run Time (min):	8.50
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 20:49	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.071	0.402	100.00	100.00	0.2488
Total:			0.071	0.402	100.00	100.00	

Reviewed by:

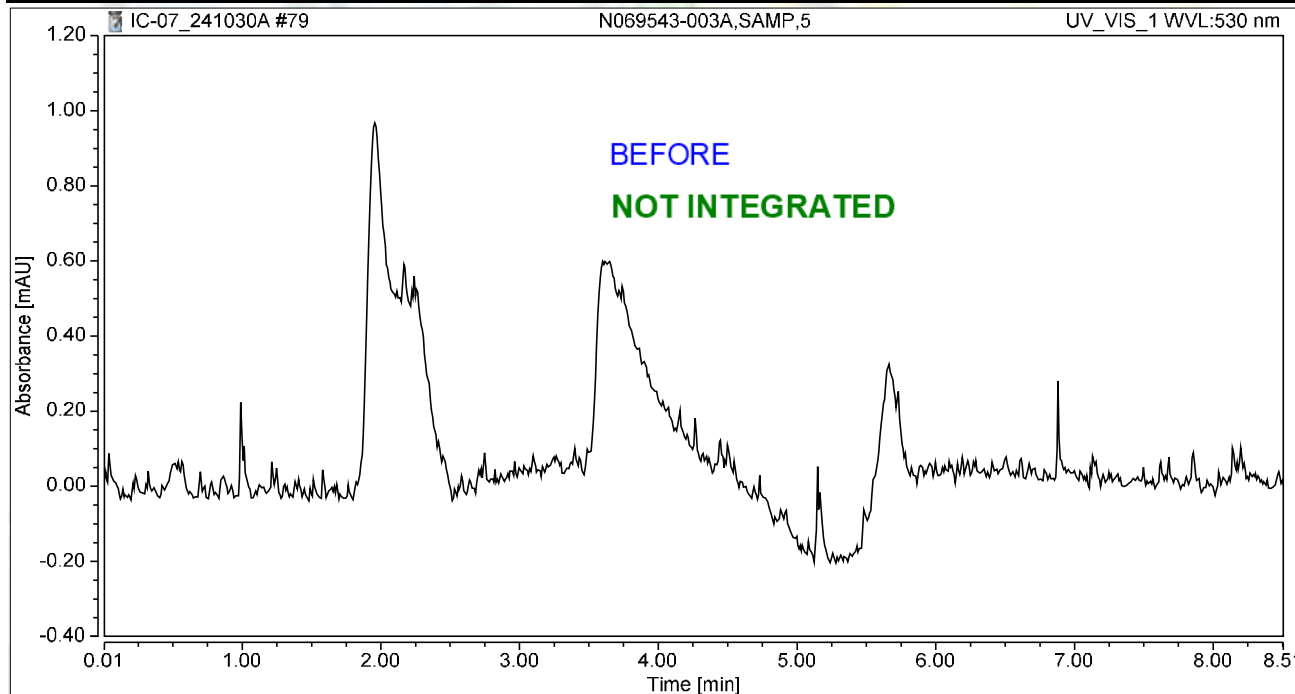
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Chromatogram and Results

Injection Details

Injection Name:	N069543-003A,SAMP,5	Run Time (min):	8.50
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 20:49	Sample Weight:	1.0000

Chromatogram



Integration Results

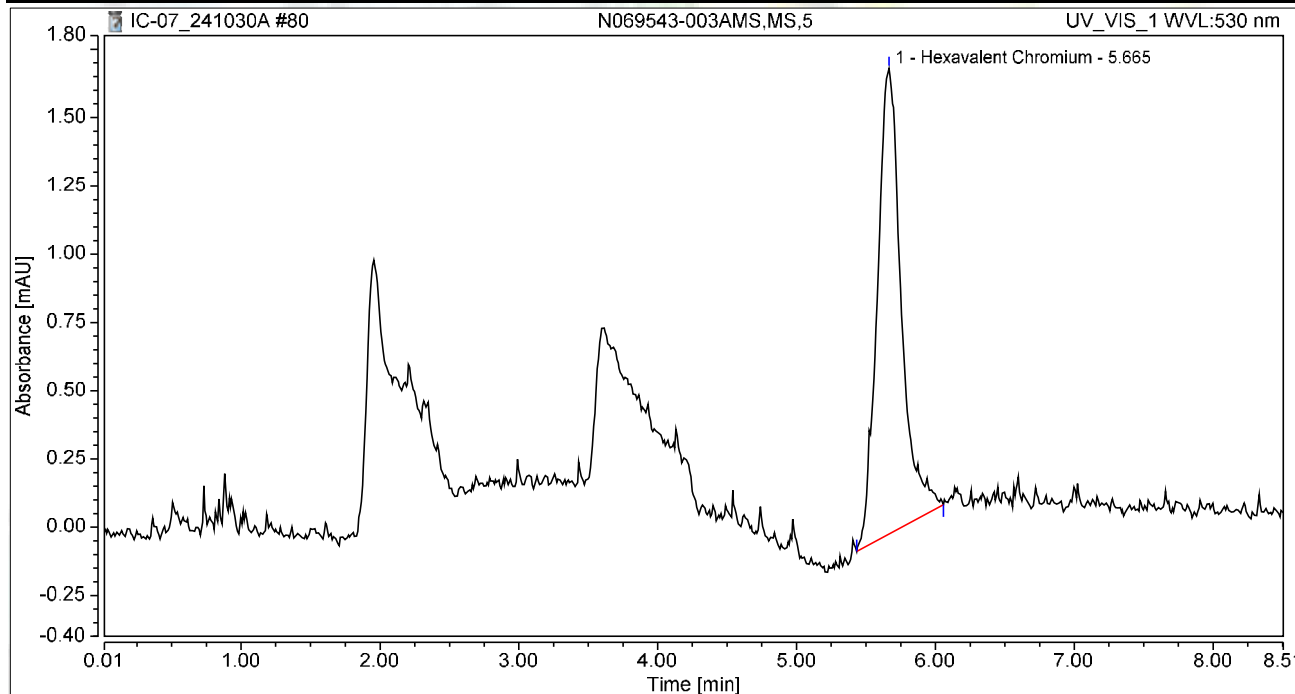
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-003AMS,MS,5	Run Time (min):	8.49
Vial Number:	36	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 20:58	Sample Weight:	1.0000

Chromatogram



Integration Results

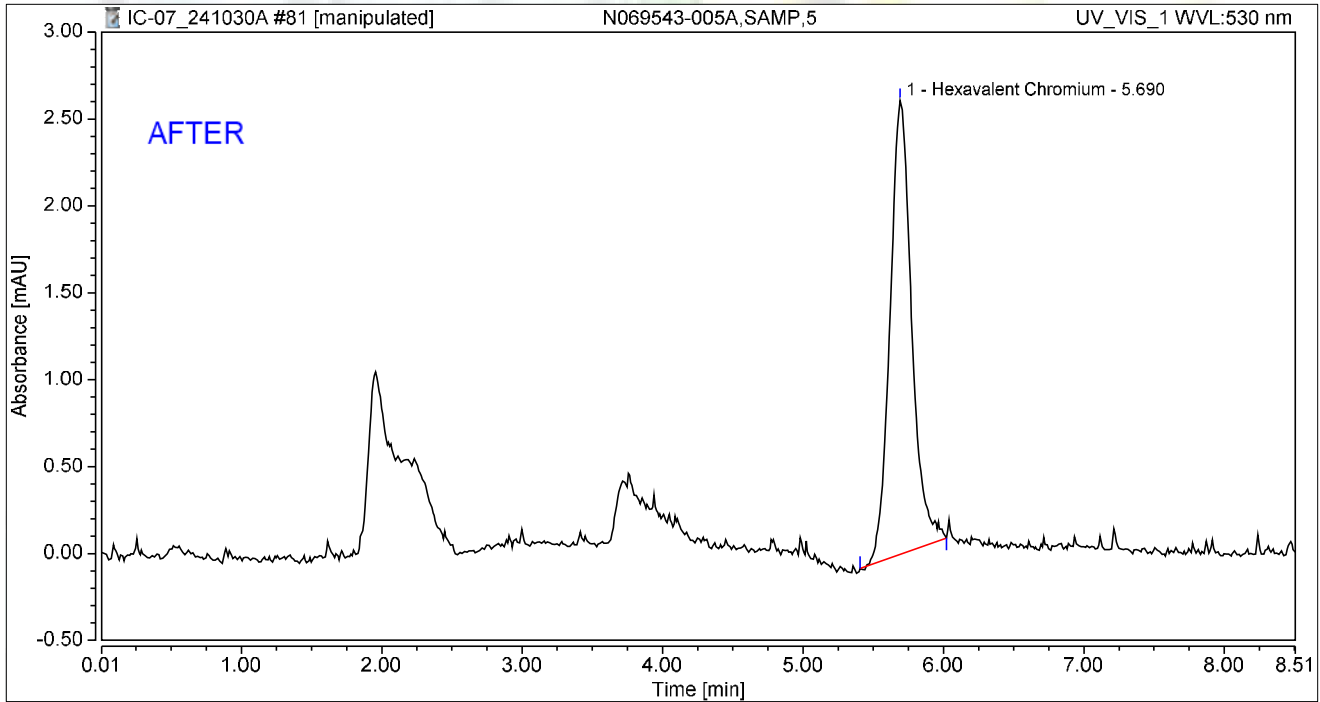
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.342	1.704	100.00	100.00	1.2056
Total:			0.342	1.704	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-005A,SAMP,5	Run Time (min):	8.50
Vial Number:	37	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 21:08	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.467	2.612	100.00	100.00	1.6447
Total:			0.467	2.612	100.00	100.00	

Reviewed by:

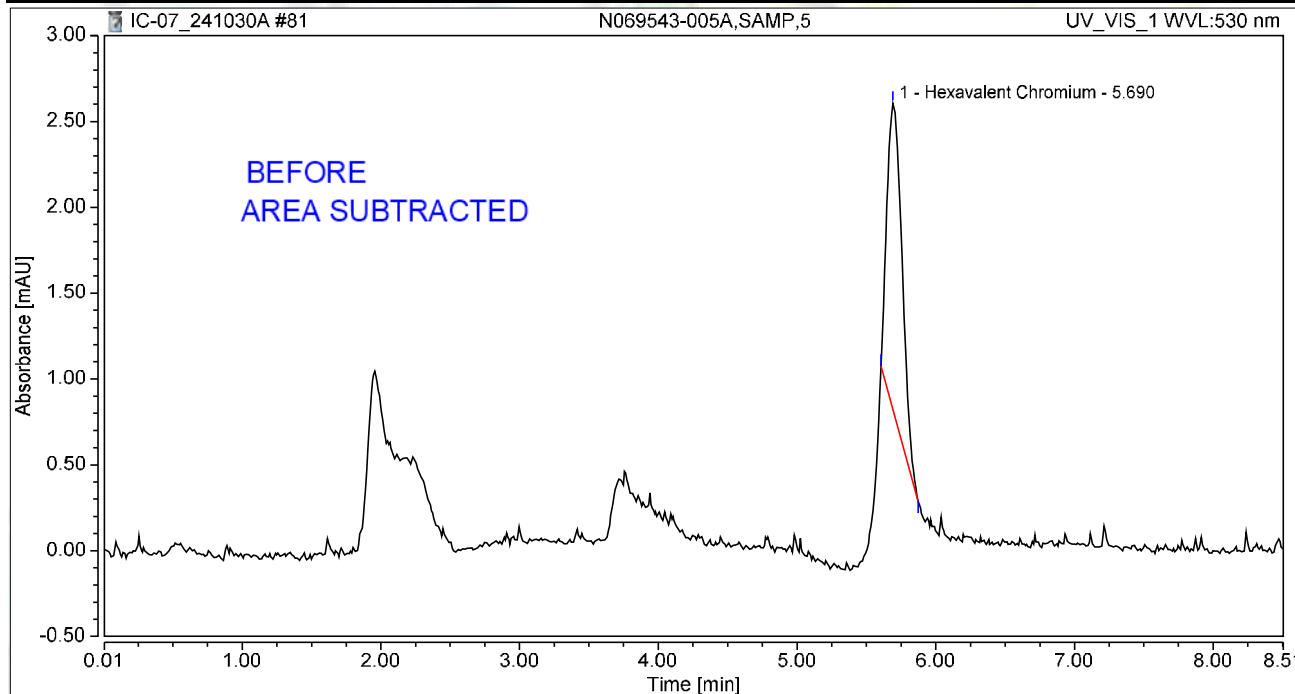
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Chromatogram and Results

Injection Details

Injection Name:	N069543-005A,SAMP,5	Run Time (min):	8.50
Vial Number:	37	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 21:08	Sample Weight:	1.0000

Chromatogram



Integration Results

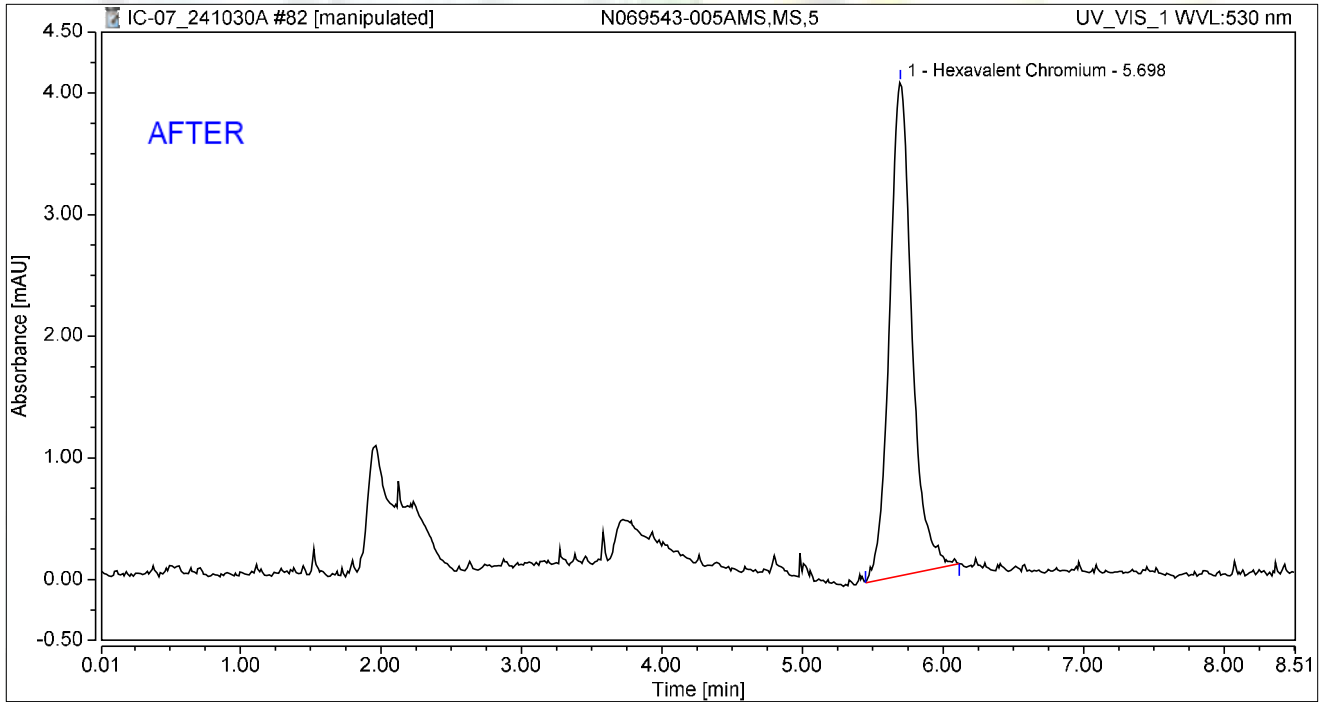
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.226	1.777	100.00	100.00	0.7969
Total:			0.226	1.777	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-005AMS,MS,5	Run Time (min):	8.49
Vial Number:	38	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 21:17	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	0.752	4.058	100.00	100.00	2.6485
Total:			0.752	4.058	100.00	100.00	

Reviewed by:

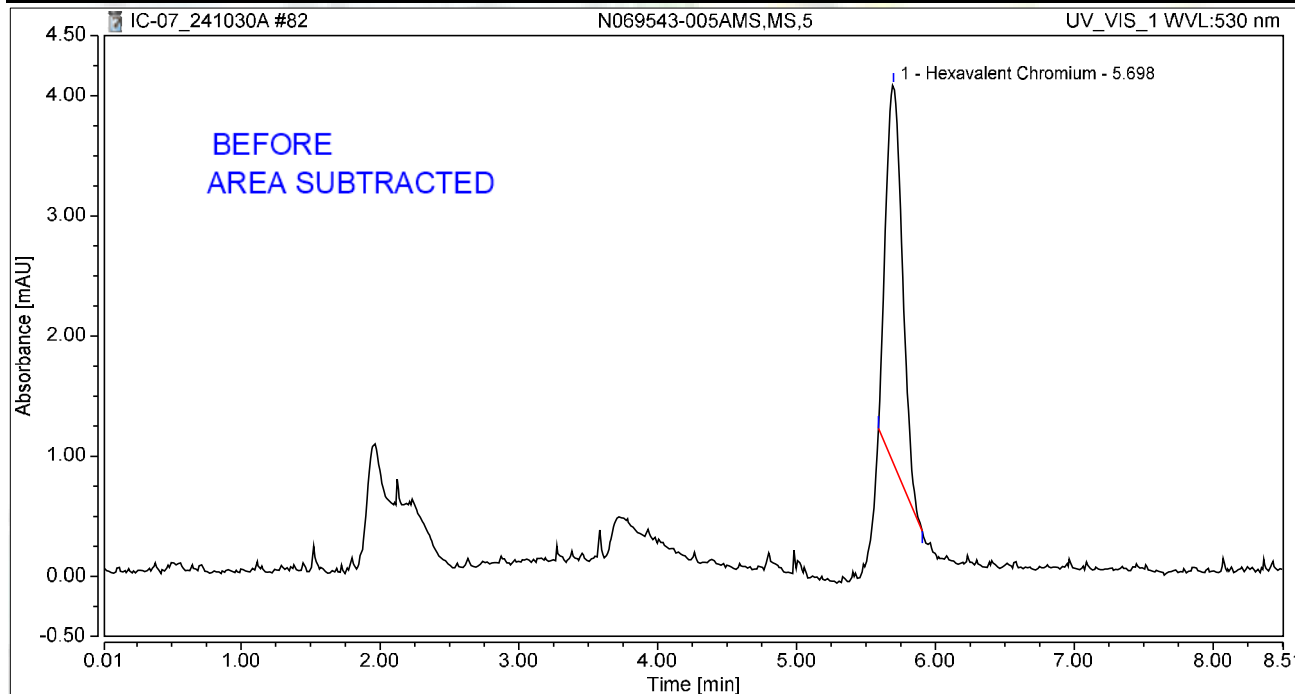
M. Rocha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069543-005AMS,MS,5	Run Time (min):	8.49
Vial Number:	38	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 21:17	Sample Weight:	1.0000

Chromatogram



Integration Results

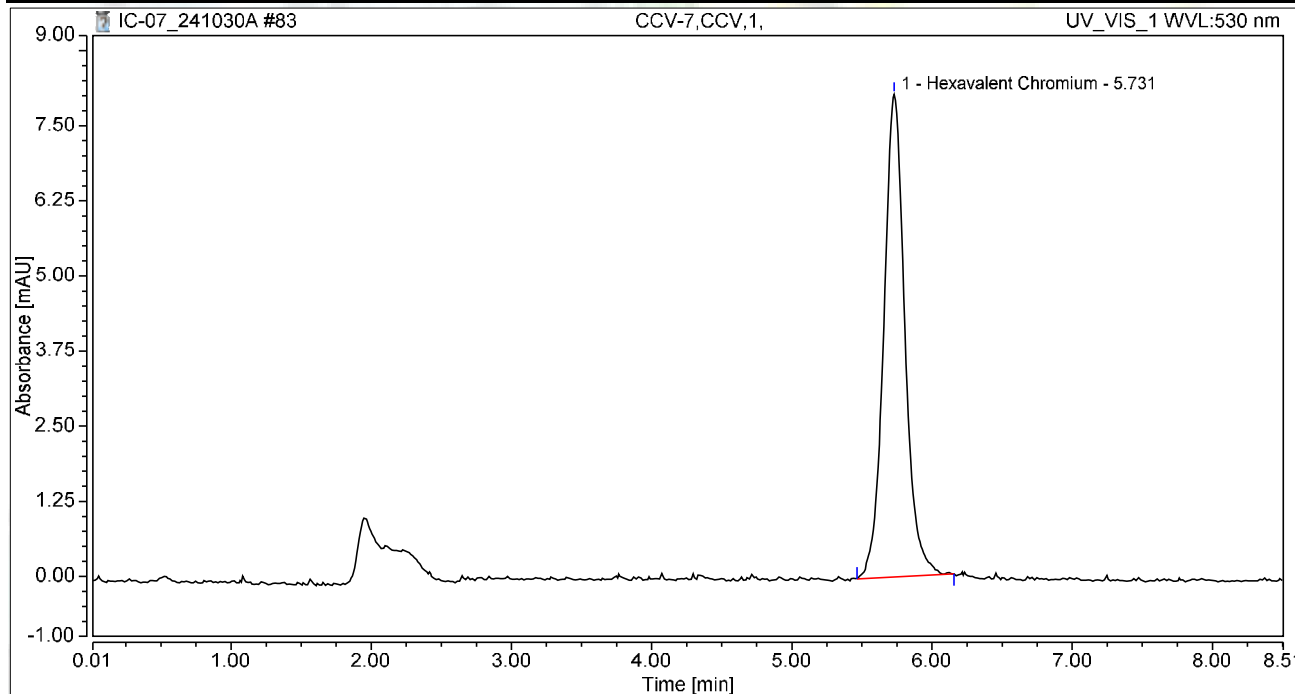
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	0.441	3.150	100.00	100.00	1.5531
Total:			0.441	3.150	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-7,CCV,1,	Run Time (min):	8.49
Vial Number:	39	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 21:27	Sample Weight:	1.0000

Chromatogram



Integration Results

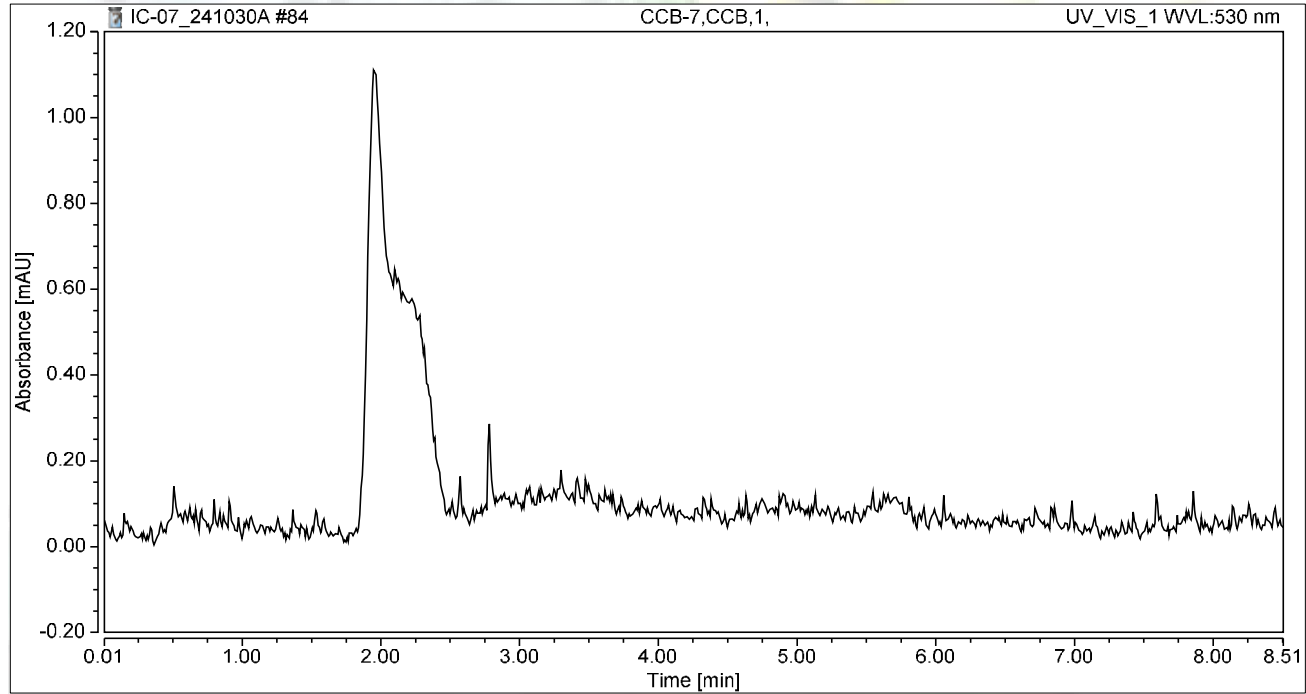
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	1.399	8.036	100.00	100.00	4.9291
Total:			1.399	8.036	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-7,CCB,1,	Run Time (min):	8.50
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 21:36	Sample Weight:	1.0000

Chromatogram



Integration Results

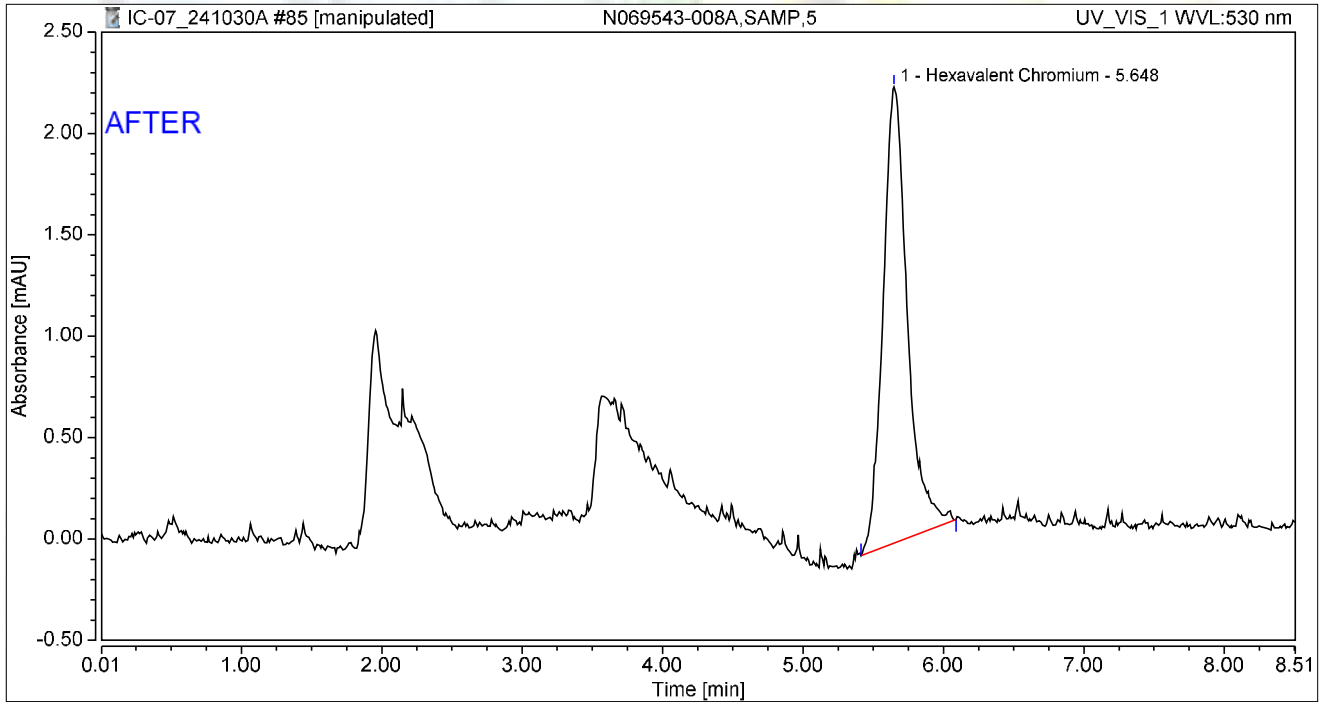
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-008A,SAMP,5	Run Time (min):	8.50
Vial Number:	41	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 21:45	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.648	0.452	2.250	100.00	100.00	1.5942
Total:			0.452	2.250	100.00	100.00	

Reviewed by:

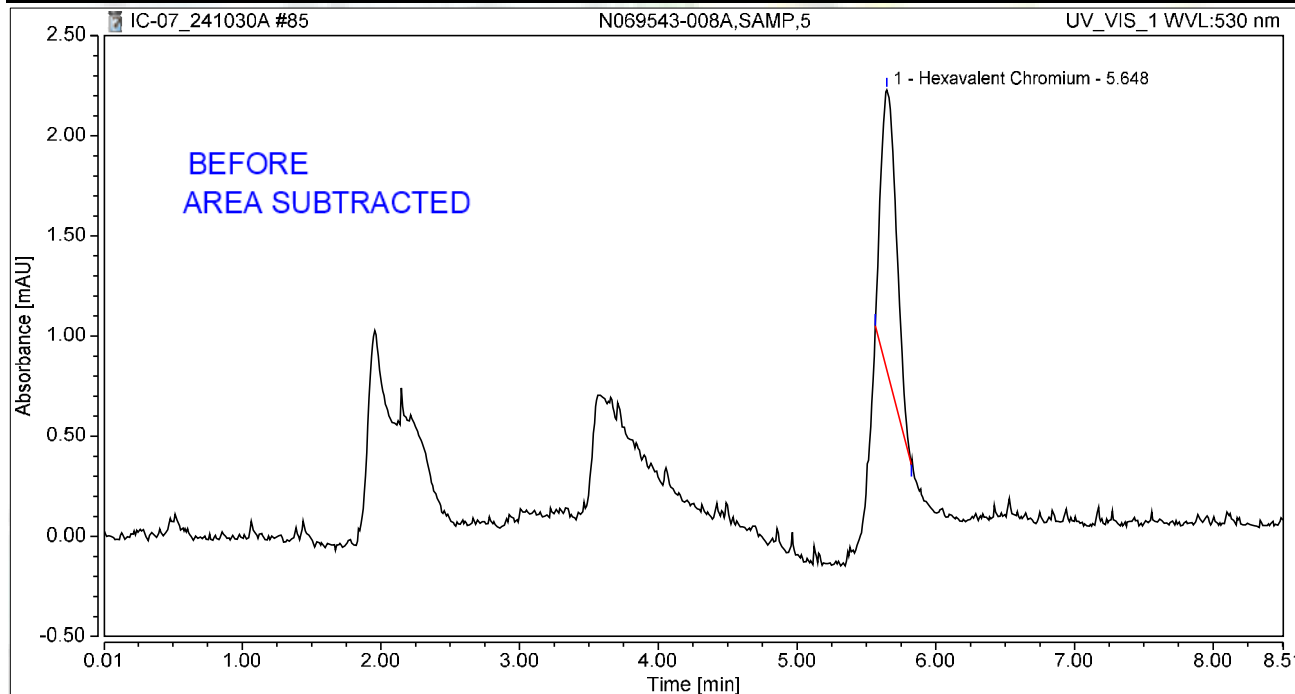
d/Recha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069543-008A,SAMP,5	Run Time (min):	8.50
Vial Number:	41	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 21:45	Sample Weight:	1.0000

Chromatogram



Integration Results

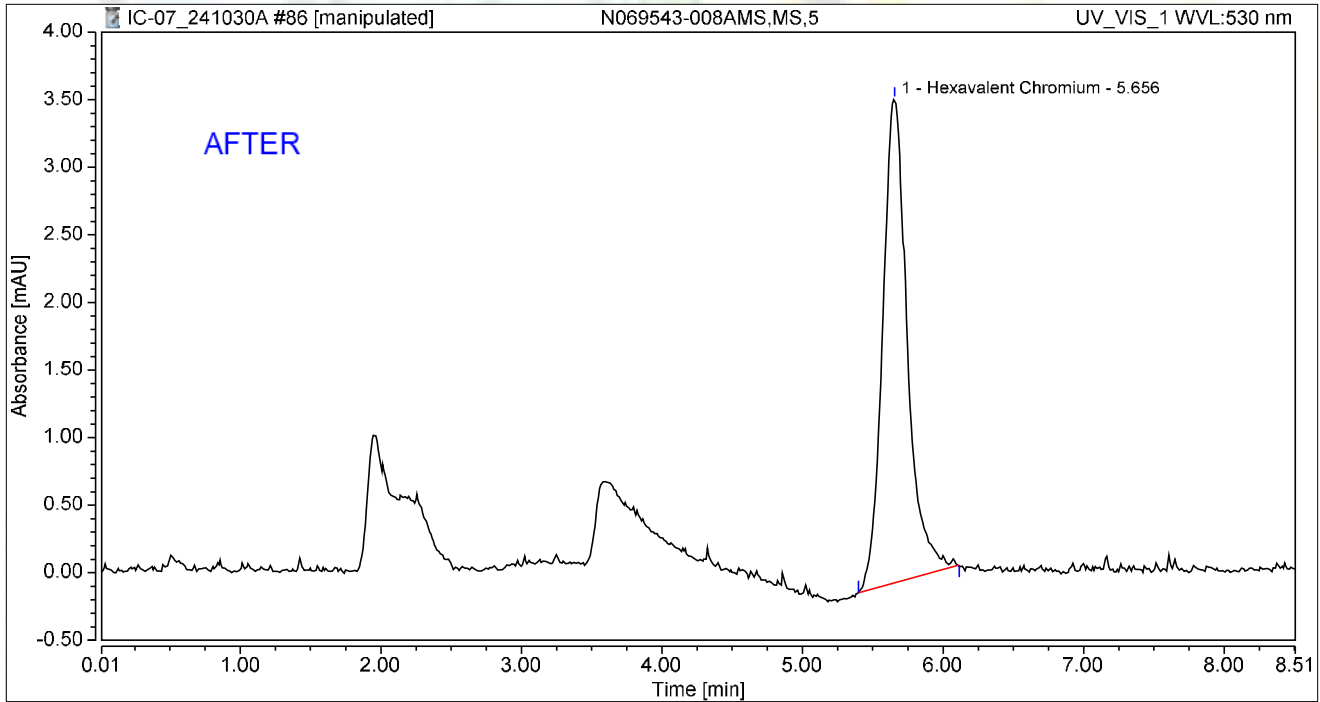
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.648	0.186	1.402	100.00	100.00	0.6562
Total:			0.186	1.402	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-008AMS,MS,5	Run Time (min):	8.49
Vial Number:	42	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 21:55	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.656	0.727	3.575	100.00	100.00	2.5618
Total:			0.727	3.575	100.00	100.00	

Reviewed by:

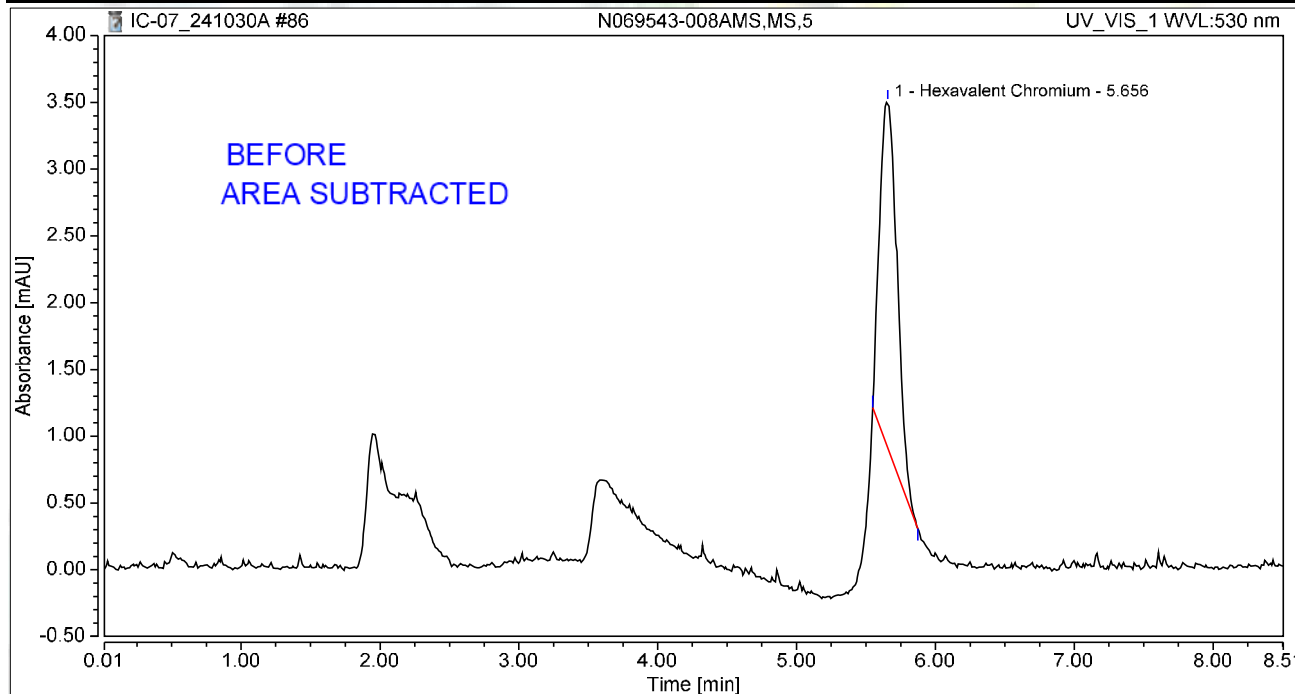
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Chromatogram and Results

Injection Details

Injection Name:	N069543-008AMS,MS,5	Run Time (min):	8.49
Vial Number:	42	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 21:55	Sample Weight:	1.0000

Chromatogram



Integration Results

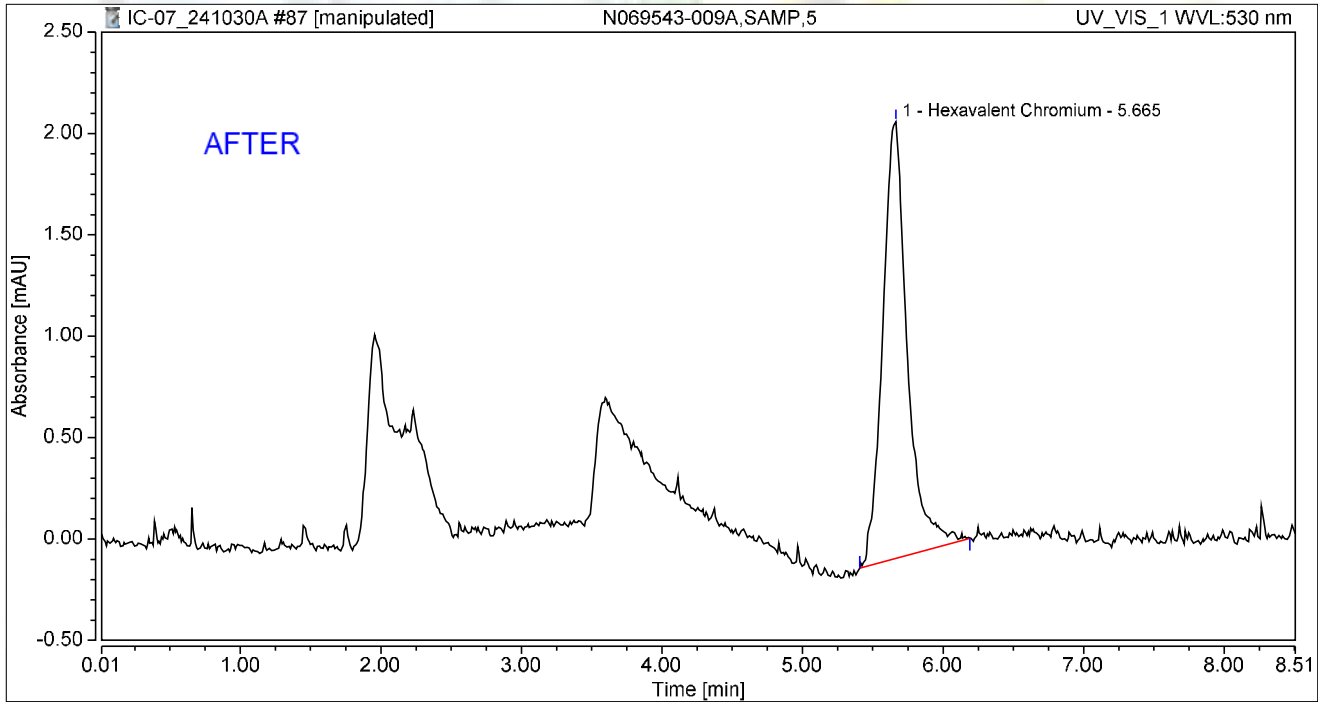
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.656	0.380	2.591	100.00	100.00	1.3388
Total:			0.380	2.591	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-009A,SAMP,5	Run Time (min):	8.49
Vial Number:	43	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 22:04	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.437	2.154	100.00	100.00	1.5410
Total:			0.437	2.154	100.00	100.00	

Reviewed by:

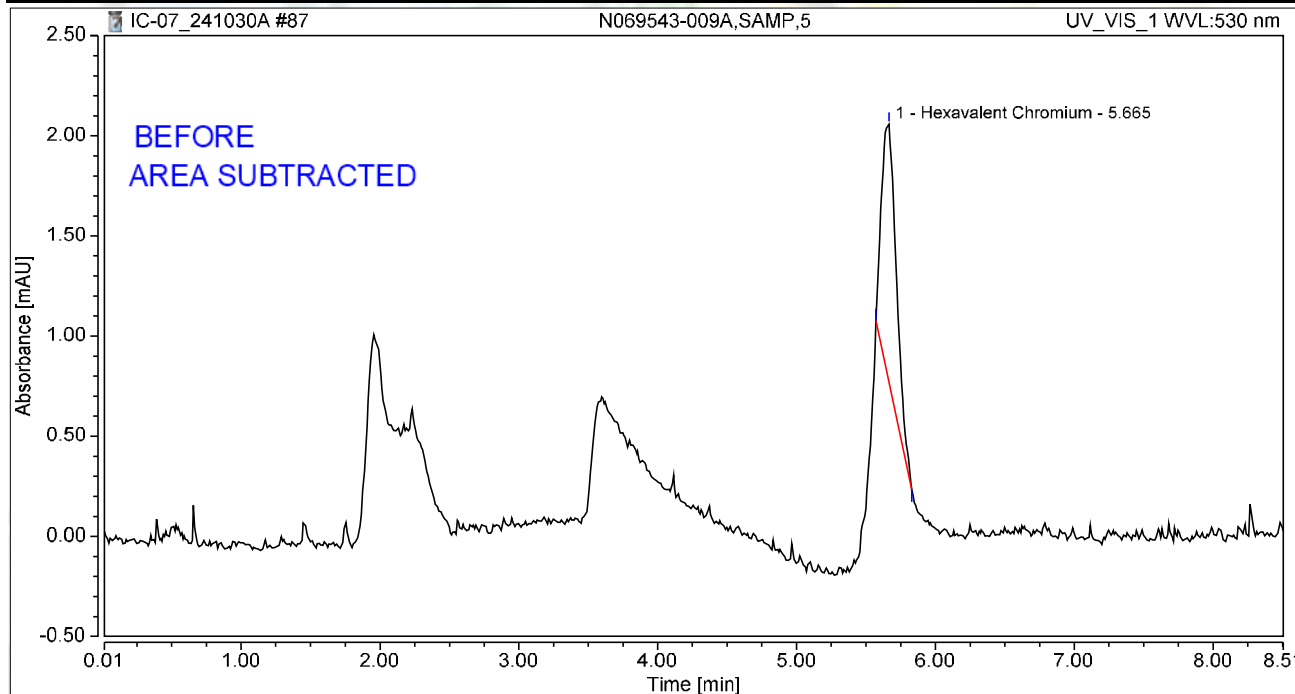
d/Recha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069543-009A,SAMP,5	Run Time (min):	8.49
Vial Number:	43	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 22:04	Sample Weight:	1.0000

Chromatogram



Integration Results

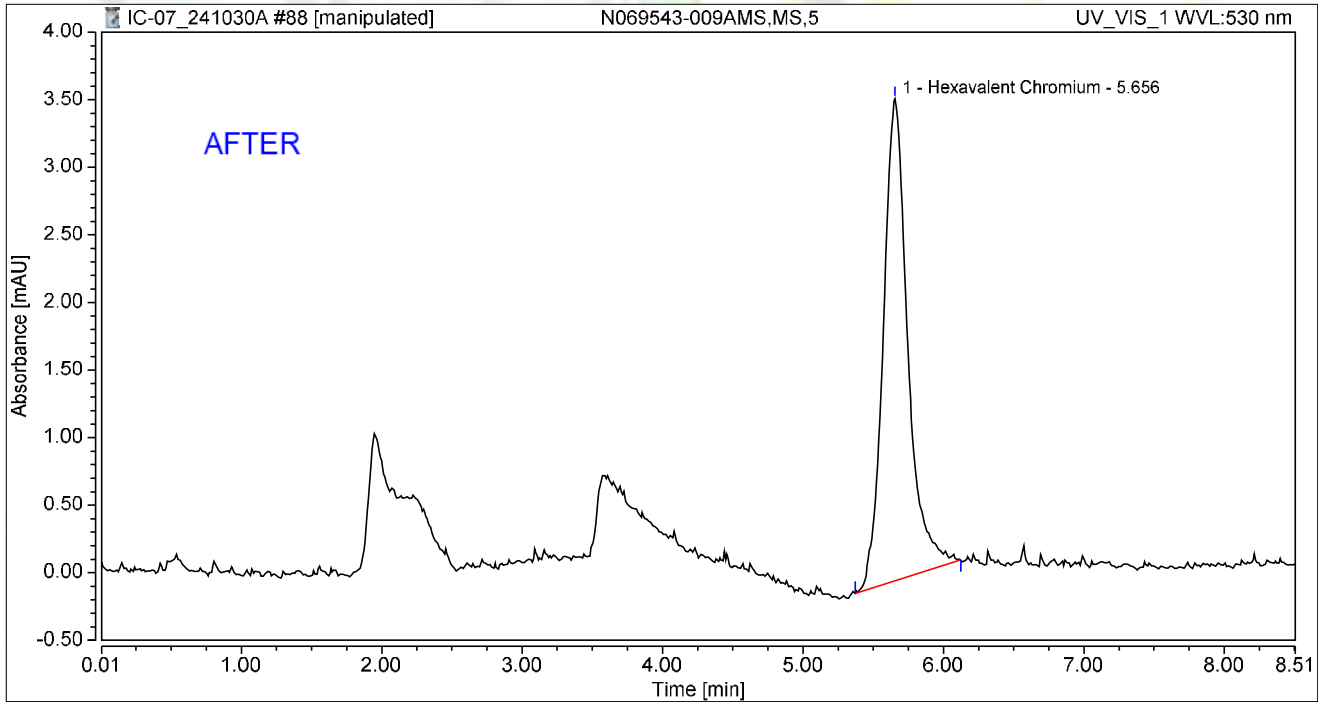
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.155	1.281	100.00	100.00	0.5446
Total:			0.155	1.281	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-009AMS,MS,5	Run Time (min):	8.50
Vial Number:	44	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 22:14	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.656	0.718	3.564	100.00	100.00	2.5322
Total:			0.718	3.564	100.00	100.00	

Reviewed by:

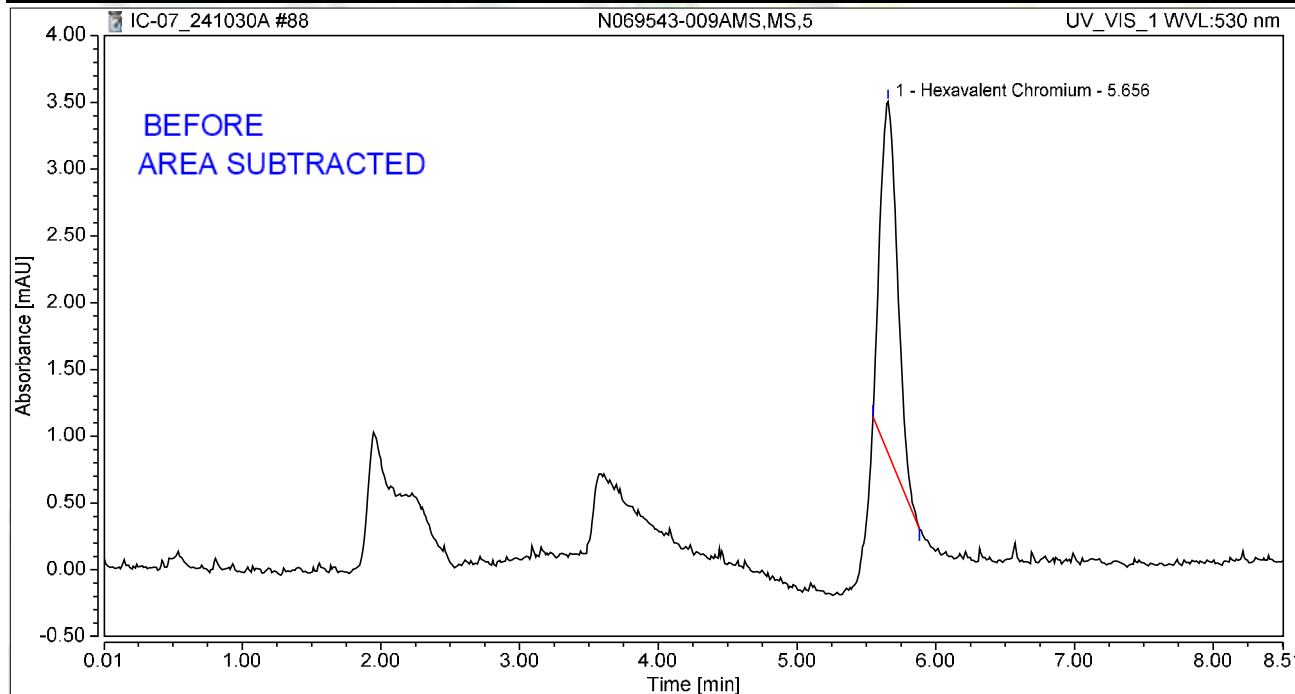
d/Rocha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069543-009AMS,MS,5	Run Time (min):	8.50
Vial Number:	44	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 22:14	Sample Weight:	1.0000

Chromatogram



Integration Results

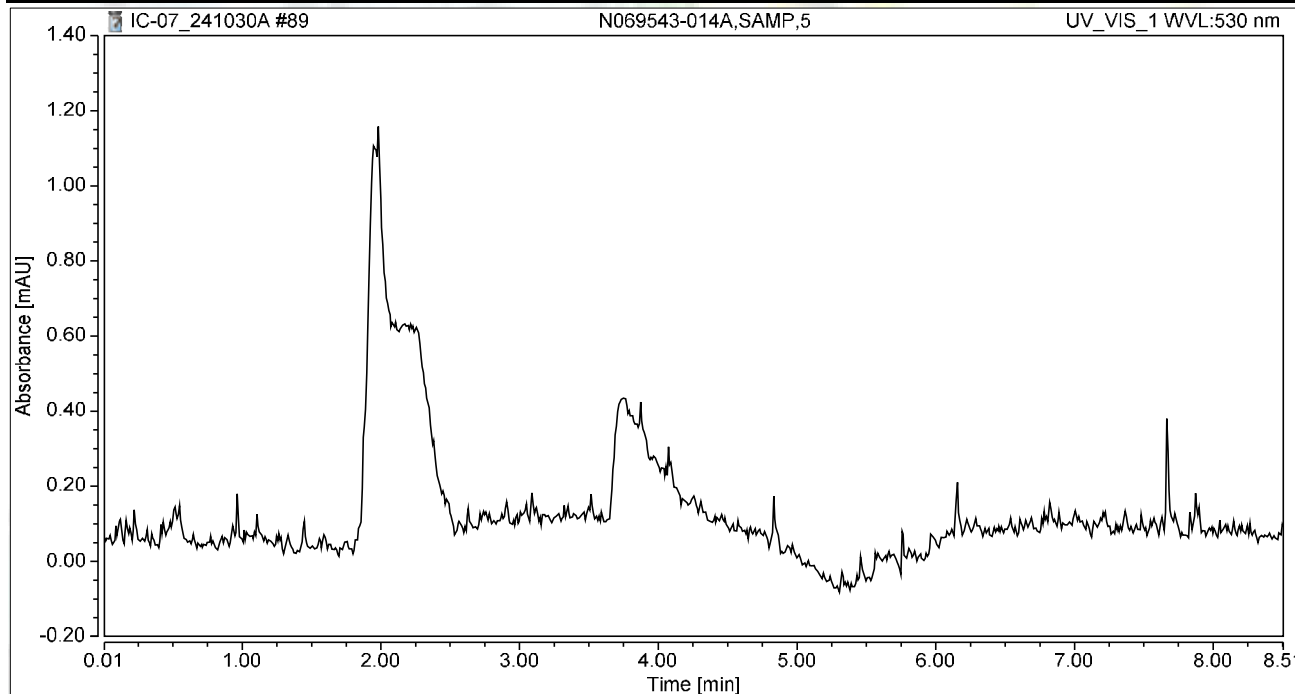
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.656	0.382	2.635	100.00	100.00	1.3470
Total:			0.382	2.635	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-014A,SAMP,5	Run Time (min):	8.50
Vial Number:	45	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 22:23	Sample Weight:	1.0000

Chromatogram



Integration Results

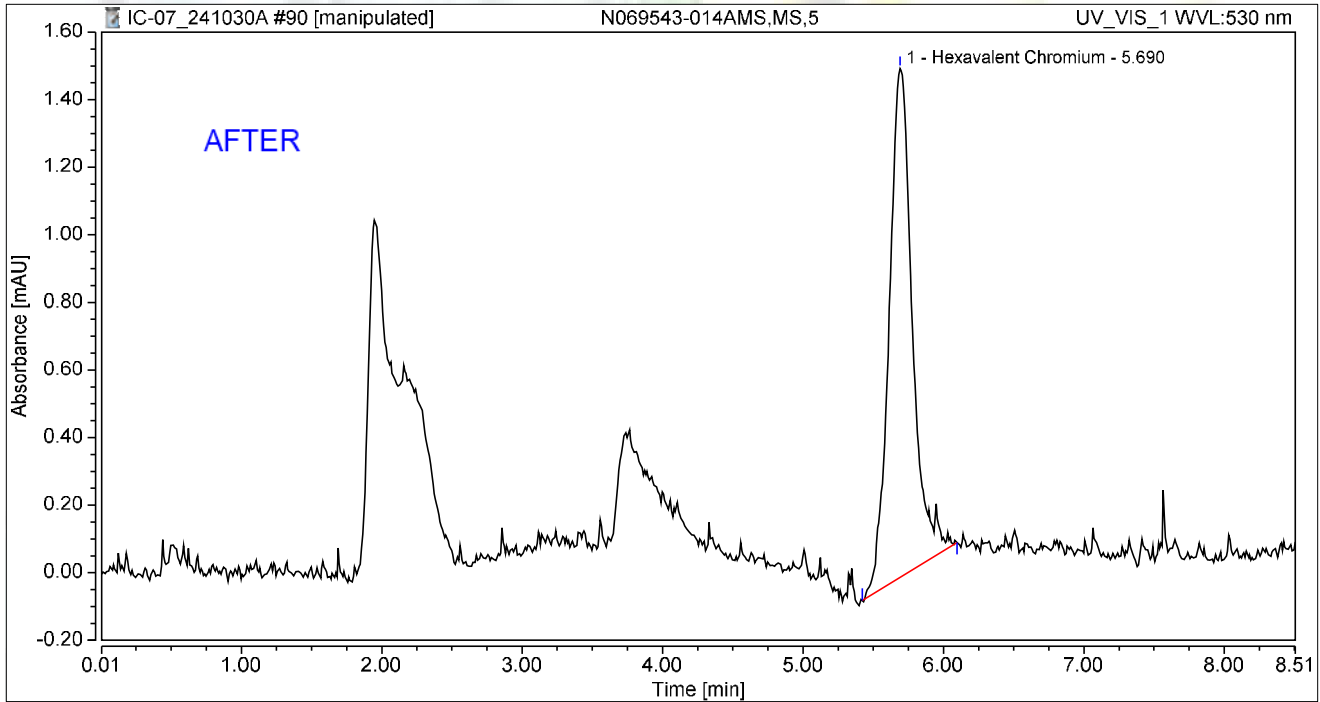
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-014AMS,MS,5	Run Time (min):	8.50
Vial Number:	46	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 22:33	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.289	1.506	100.00	100.00	1.0175
Total:			0.289	1.506	100.00	100.00	

Reviewed by:

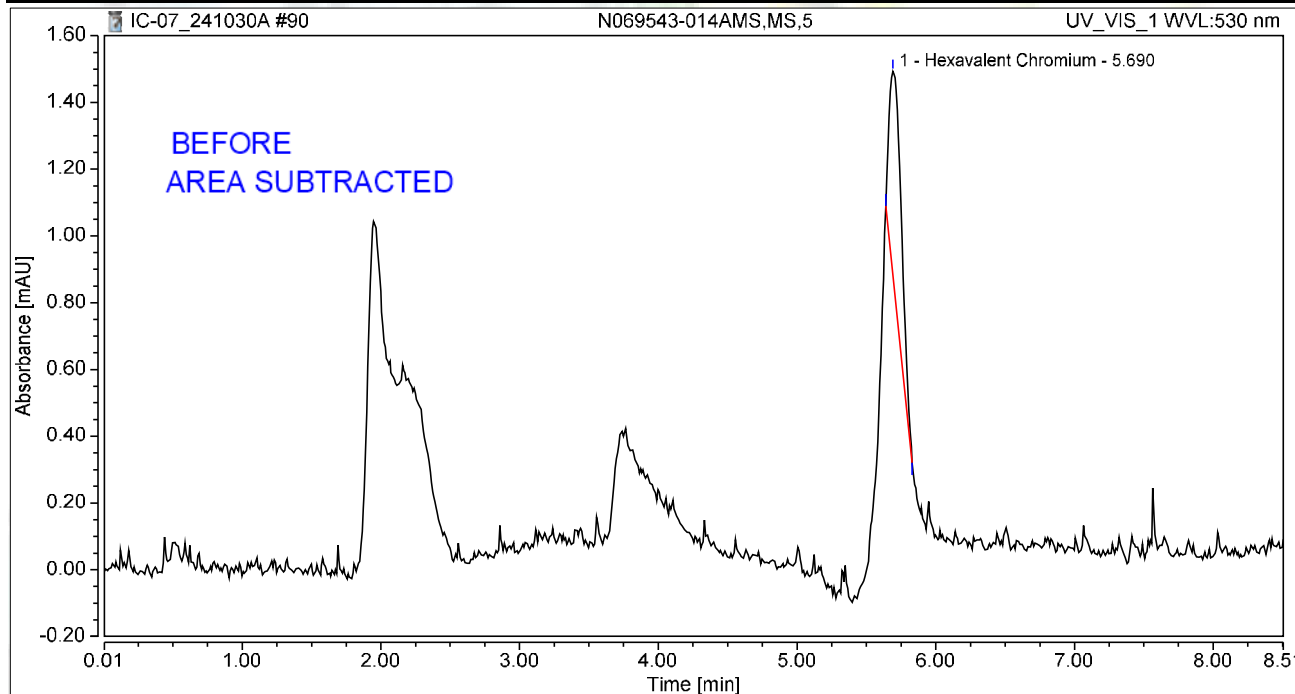
d/Recha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069543-014AMS,MS,5	Run Time (min):	8.50
Vial Number:	46	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 22:33	Sample Weight:	1.0000

Chromatogram



Integration Results

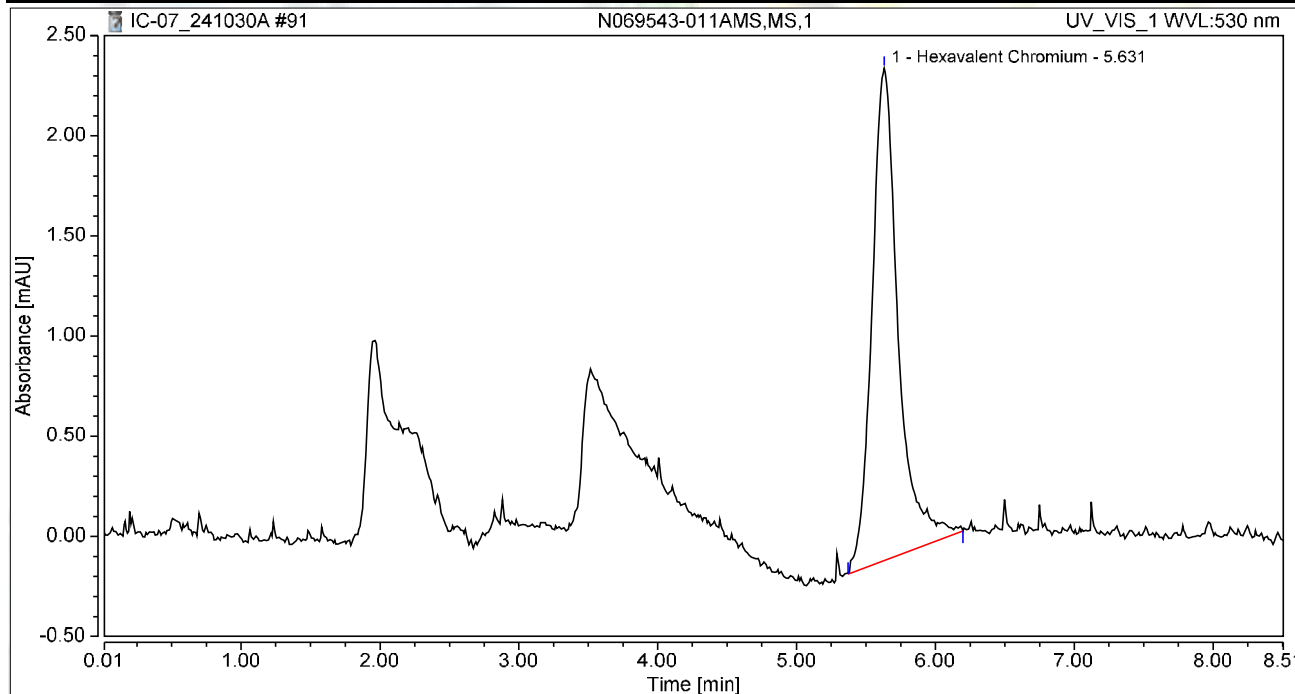
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.066	0.603	100.00	100.00	0.2321
Total:			0.066	0.603	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-011AMS,MS,1	Run Time (min):	8.49
Vial Number:	47	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 22:42	Sample Weight:	1.0000

Chromatogram



Integration Results

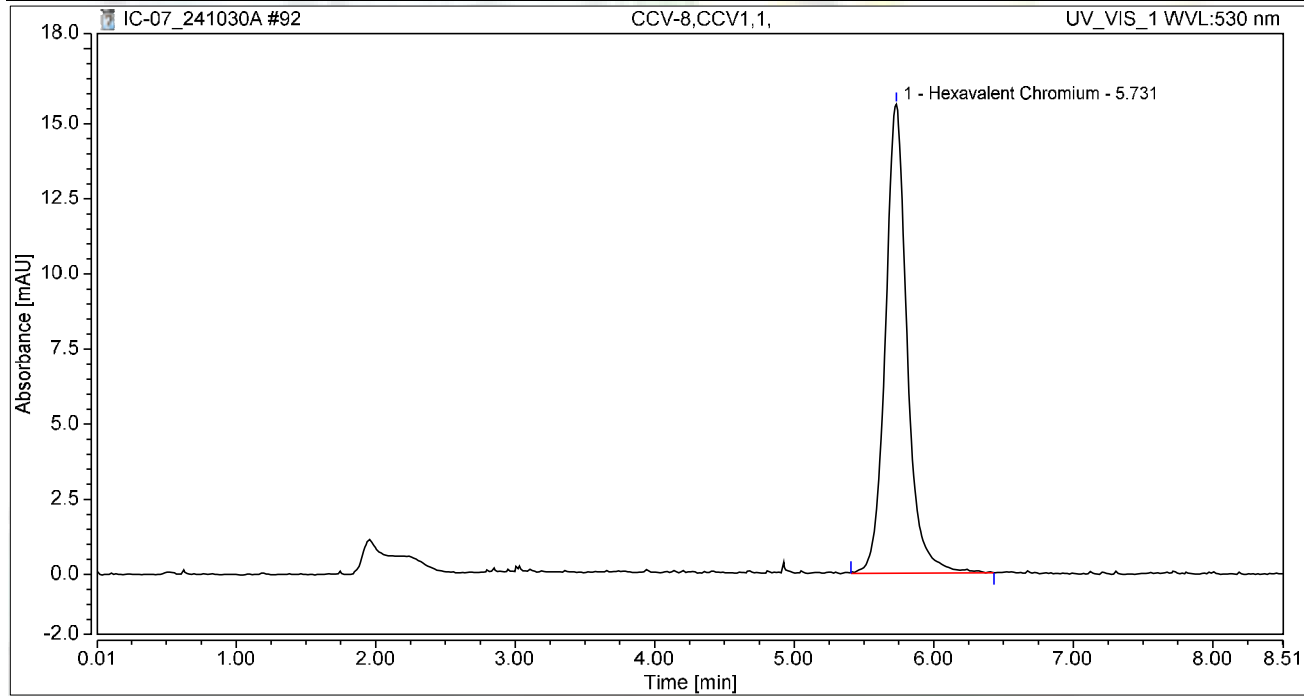
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.631	0.539	2.459	100.00	100.00	1.9000
Total:			0.539	2.459	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-8,CCV1,1,	Run Time (min):	8.50
Vial Number:	48	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 22:52	Sample Weight:	1.0000

Chromatogram



Integration Results

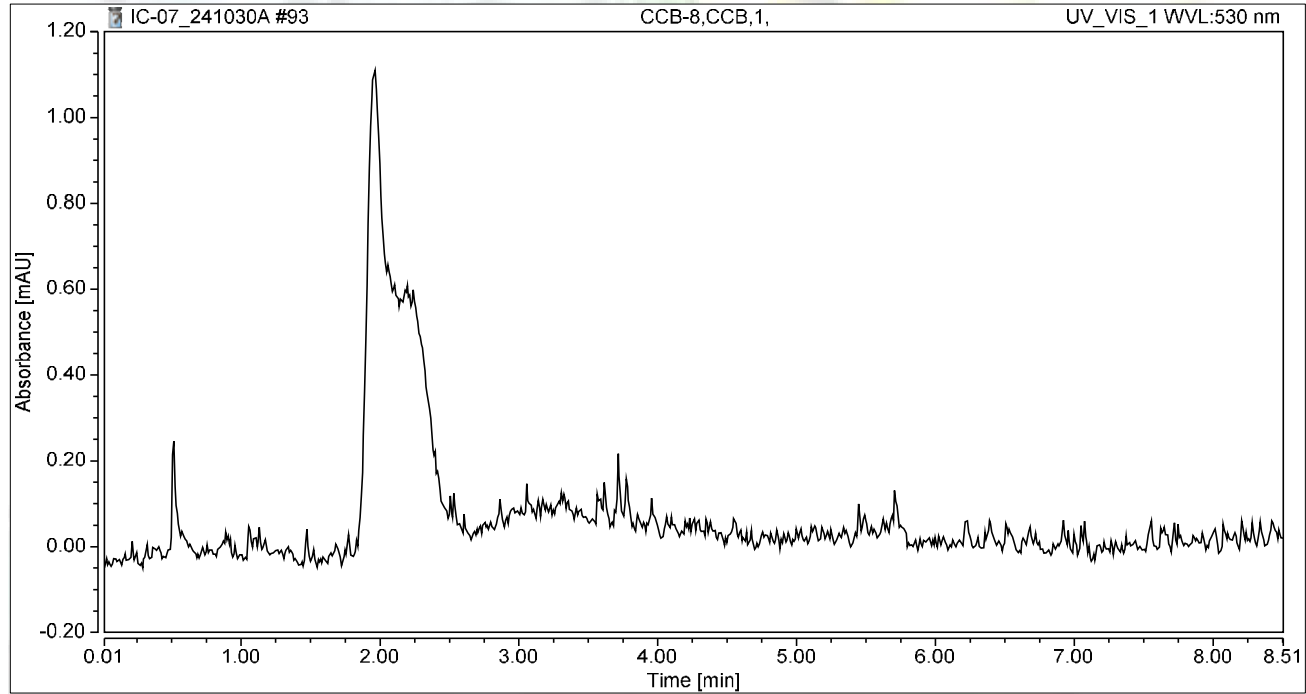
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	2.808	15.602	100.00	100.00	9.8950
Total:			2.808	15.602	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-8,CCB,1,	Run Time (min):	8.49
Vial Number:	49	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 23:01	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

EPA 300.0



ASSET LABORATORIES
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3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

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IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
REV 2.0
011416

QC Batch Number: R194932
ASSET #: N069498

Instrument ID: NV00922-IC9
Analyst: RBA
Date Analyzed: 10/29/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria ?(r = 0.995, r =0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)			X			X
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?			X			X
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?			X			X
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
14. For Hinkley DOM samples, matrix spike protocol performed on all samples ? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed ?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)			X			X
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA

Date: _____

2nd Level Reviewer JRB 11/5/2024

Date: _____

SAMPLE CALCULATION



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Sample Calculation

METHOD: EPA 300
TEST NAME: INORGANIC ANIONS BY IC
MATRIX: GROUNDWATER

FORMULA:

Calculate the Nitrate concentration, in mg/L, in the original sample as follows:

$$\text{Nitrate, mg/L} = A * DF$$

where:

A = mg/L, IC calculated concentration
DF = dilution factor

For **N069498-001C** concentration in mg/L is calculated as follows:

$$\begin{aligned}\text{Nitrate, mg/L} &= 0.8427 * 5 \\ &= 4.2135\end{aligned}$$

Reporting result in two significant figures,

$$\text{Nitrate, mg/L} = 4.2$$

Reviewed by:

MRecha 11/26/2024

ANALYSIS RUN LOG



ASSET LABORATORIES
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3151 W. Post Rd., Las Vegas, NV 89118
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Sequence: IC-09_241028A
Operator: IC-05

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 9

Created: 10/28/2024 9:32:32 AM by IC-05
Last Update: 10/28/2024 12:46:27 PM by IC-05


No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions_Default	EPA 300_0_240928A	Finished
2	Std - 0	Standard	2	1000.0	Anions_Default	EPA 300_0_240928A	Finished
3	Std - 1	Standard	4	1000.0	Anions_Default	EPA 300_0_240928A	Finished
4	Std - 2	Standard	5	1000.0	Anions_Default	EPA 300_0_240928A	Finished
5	Std - 3	Standard	6	1000.0	Anions_Default	EPA 300_0_240928A	Finished
6	Std - 4	Standard	7	1000.0	Anions_Default	EPA 300_0_240928A	Finished
7	Std - 5	Standard	8	1000.0	Anions_Default	EPA 300_0_240928A	Finished
8	ICV,ICV,1	Unknown	9	1000.0	Anions_Default	EPA 300_0_240928A	Finished
9	ICB,ICB,1	Unknown	10	1000.0	Anions_Default	EPA 300_0_240928A	Finished

EPA 300.0_0_241028A

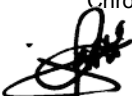
 11/18/2024
for RBA

Note:Method name typographical error. Calibration standard files confirmed with 10/28/2024 analysis dates.

Reviewed by:

 11/5/2024

Processed by:



Sequence: IC-09_241028A
Operator: IC-05

Page 2 of 2
Printed: 10/29/2024 1:07:03 AM

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 9
Created: 10/28/2024 9:32:32 AM by IC-05
Last Update: 10/28/2024 12:46:27 PM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	10/28/2024 9:39:25 AM	BLANK
2	Std - 0	10/28/2024 9:54:44 AM	IBLANK
3	Std - 1	10/28/2024 10:10:40 AM	STD-LOW
4	Std - 2	10/28/2024 10:26:36 AM	STD
5	Std - 3	10/28/2024 10:42:31 AM	STD
6	Std - 4	10/28/2024 10:58:27 AM	STD
7	Std - 5	10/28/2024 11:14:23 AM	STD-HIGH
8	ICV,ICV,1	10/28/2024 11:36:10 AM	ICV, IWST-241023B
9	ICB,ICB,1	10/28/2024 11:52:05 AM	ICB


Sequence: IC-09_241029A
Operator: IC-05

Page 1 of 2
Printed: 10/29/2024 11:36:40 PM

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 25

Created: 10/28/2024 12:45:32 PM by IC-05
Last Update: 10/29/2024 10:09:03 AM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions_Default	EPA 300_0_240928A	Finished
2	Std - 0	Standard	2	1000.0	Anions_Default	EPA 300_0_240928A	Finished
3	Std - 1	Standard	4	1000.0	Anions_Default	EPA 300_0_240928A	Finished
4	Std - 2	Standard	5	1000.0	Anions_Default	EPA 300_0_240928A	Finished
5	Std - 3	Standard	6	1000.0	Anions_Default	EPA 300_0_240928A	Finished
6	Std - 4	Standard	7	1000.0	Anions_Default	EPA 300_0_240928A	Finished
7	Std - 5	Standard	8	1000.0	Anions_Default	EPA 300_0_240928A	Finished
8	BLANK	Unknown	1	1000.0	Anions_Default	EPA 300_0_240928A	Finished
9	CCV-1,CCV,1	Unknown	2	1000.0	Anions_Default	EPA 300_0_240928A	Finished
10	CCB-1,CCB,1	Unknown	3	1000.0	Anions_Default	EPA 300_0_240928A	Finished
11	MB-H2O,MBLK,1	Unknown	4	1000.0	Anions_Default	EPA 300_0_240928A	Finished
12	LCS-H2O,LCS,1	Unknown	5	1000.0	Anions_Default	EPA 300_0_240928A	Finished
13	N069498-001C,SAMP,5	Unknown	7	1000.0	Anions_Default	EPA 300_0_240928A	Finished
14	N069498-003C,SAMP,5	Unknown	8	1000.0	Anions_Default	EPA 300_0_240928A	Finished
15	N069498-005C,SAMP,5	Unknown	9	1000.0	Anions_Default	EPA 300_0_240928A	Finished
16	N069498-006C,SAMP,5	Unknown	10	1000.0	Anions_Default	EPA 300_0_240928A	Finished
17	N069498-007C,SAMP,10	Unknown	11	1000.0	Anions_Default	EPA 300_0_240928A	Finished
18	N069498-008C,SAMP,10	Unknown	12	1000.0	Anions_Default	EPA 300_0_240928A	Finished
19	N069498-006CMS,MS,5	Unknown	13	1000.0	Anions_Default	EPA 300_0_240928A	Finished
20	N069498-006CMSD,MSD,5	Unknown	14	1000.0	Anions_Default	EPA 300_0_240928A	Finished
21	CCV-2,CCV,1	Unknown	15	1000.0	Anions_Default	EPA 300_0_240928A	Finished
22	CCB-2,CCB,1	Unknown	16	1000.0	Anions_Default	EPA 300_0_240928A	Finished
23	N069498-001CDUP,DUP,5	Unknown	17	1000.0	Anions_Default	EPA 300_0_240928A	Finished
24	CCV-3,CCV,1	Unknown	18	1000.0	Anions_Default	EPA 300_0_240928A	Finished
25	CCB-3,CCB,1	Unknown	19	1000.0	Anions_Default	EPA 300_0_240928A	Finished

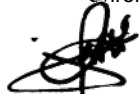
 11/18/2024

For RBA

Note: Method name typographical error. Calibration standard files confirmed with 10/28/2024 analysis dates.

Processed by:

Chromeleon © Dionex Corporation, Version 6.80 SR10 Build 2818 (166959)



10/30/2024

NV00922-IC9 RBA 10/29/2024 11:42:03 PM

297

Sequence: IC-09_241029A
Operator: IC-05

Page 2 of 2
Printed: 10/29/2024 11:36:40 PM

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 25
Created: 10/28/2024 12:45:32 PM by IC-05
Last Update: 10/29/2024 10:09:03 AM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	10/28/2024 9:39:25 AM	BLANK
2	Std - 0	10/28/2024 9:54:44 AM	IBLANK
3	Std - 1	10/28/2024 10:10:40 AM	STD-LOW
4	Std - 2	10/28/2024 10:26:36 AM	STD
5	Std - 3	10/28/2024 10:42:31 AM	STD
6	Std - 4	10/28/2024 10:58:27 AM	STD
7	Std - 5	10/28/2024 11:14:23 AM	STD-HIGH
8	BLANK	10/29/2024 7:39:39 AM	BLANK
9	CCV-1,CCV,1	10/29/2024 7:54:58 AM	CCV, IWST-241023A
10	CCB-1,CCB,1	10/29/2024 8:10:53 AM	CCB
11	MB-H2O,MBLK,1	10/29/2024 8:26:48 AM	MB
12	LCS-H2O,LCS,1	10/29/2024 8:42:44 AM	LCS, IWST-241023B
13	N069498-001C,SAMP,5	10/29/2024 10:06:31 AM	SAMP,2>10mL,
14	N069498-003C,SAMP,5	10/29/2024 10:22:27 AM	SAMP,2>10mL,
15	N069498-005C,SAMP,5	10/29/2024 10:38:23 AM	SAMP,2>10mL,
16	N069498-006C,SAMP,5	10/29/2024 10:54:18 AM	SAMP,2>10mL,
17	N069498-007C,SAMP,10	10/29/2024 11:10:13 AM	SAMP,1>10mL,
18	N069498-008C,SAMP,10	10/29/2024 11:26:09 AM	SAMP,1>10mL,
19	N069498-006CMS,MS,5	10/29/2024 11:42:05 AM	MS,2>10mL,
20	N069498-006CMSD,MSD,5	10/29/2024 11:58:00 AM	MSD,2>10mL,
21	CCV-2,CCV,1	10/29/2024 12:13:55 PM	CCV, IWST-241023A
22	CCB-2,CCB,1	10/29/2024 12:29:51 PM	CCB
23	N069498-001CDUP,DUP,5	10/29/2024 12:45:46 PM	DUP,2>10mL,
24	CCV-3,CCV,1	10/29/2024 1:01:42 PM	CCV, IWST-241023A
25	CCB-3,CCB,1	10/29/2024 1:17:37 PM	CCB

INITIAL CALIBRATION DATA SUMMARY



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(EPA 300) - INITIAL CALIBRATION

Instrument ID: NV00922-IC9
Date Calibrated: 10/28/2024

Initial Calibration:

Nitrate	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in mg/L	0	0.05	0.25	0.5	1.25	2.5	R ²
Area,mAU*min	0.0000	0.0196	0.0913	0.1839	0.4636	0.9621	1.000
Measured, in mg/L	0.000000	0.067100	0.253300	0.493900	1.220400	2.515400	
Relative Error (%RE)		34.2%		-1.2%			

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST-240705D

Calibration Acceptance Criteria: > 0.995 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID ICV	SampType: ICV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194932						
Client ID: ICV	Batch ID: R194932	TestNo: EPA 300.0		Analysis Date: 10/28/2024	SeqNo: 6271943						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.328	0.050	1.250	0	106	90	110				

Sample ID CCV-1	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194932						
Client ID: CCV	Batch ID: R194932	TestNo: EPA 300.0		Analysis Date: 10/29/2024	SeqNo: 6271945						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.304	0.050	1.250	0	104	90	110				

Sample ID CCV-2	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194932						
Client ID: CCV	Batch ID: R194932	TestNo: EPA 300.0		Analysis Date: 10/29/2024	SeqNo: 6271957						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.364	0.050	1.250	0	109	90	110				

Sample ID CCV-3	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194932						
Client ID: CCV	Batch ID: R194932	TestNo: EPA 300.0		Analysis Date: 10/29/2024	SeqNo: 6271960						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.323	0.050	1.250	0	106	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

SUMMARY OF INSTRUMENT BLANKS



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID ICB	SampType: ICB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194932						
Client ID: ICB	Batch ID: R194932	TestNo: EPA 300.0		Analysis Date: 10/28/2024	SeqNo: 6271944						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID CCB-1	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194932						
Client ID: CCB	Batch ID: R194932	TestNo: EPA 300.0		Analysis Date: 10/29/2024	SeqNo: 6271946						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID CCB-2	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194932						
Client ID: CCB	Batch ID: R194932	TestNo: EPA 300.0		Analysis Date: 10/29/2024	SeqNo: 6271958						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID CCB-3	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194932						
Client ID: CCB	Batch ID: R194932	TestNo: EPA 300.0		Analysis Date: 10/29/2024	SeqNo: 6271961						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

RETENTION TIME SUMMARY



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RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC9

Analytical Sequence

Date Analyzed: 10/29/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Nitrate 6.721	
CCV-1	Nitrate 6.657	
CCV-2	Nitrate 6.794	
CCV-3	Nitrate 6.804	

Average 6.752
Applied RT Window 6.552 - 6.952

MB-R194932_NO3	Nitrate	N.A.	N.A.
LCS-R194932_NO3	Nitrate	6.657	PASS
N069498-001C	Nitrate	6.801	PASS
N069498-003C	Nitrate	N.A.	N.A.
N069498-005C	Nitrate	6.830	PASS
N069498-006C	Nitrate	6.847	PASS
N069498-007C	Nitrate	6.834	PASS
N069498-008C	Nitrate	6.844	PASS
N069498-006CMS	Nitrate	6.844	PASS
N069498-006CMSD	Nitrate	6.801	PASS
N069498-001CDUP	Nitrate	6.757	PASS

Reviewed by:

d/Rocha 11/26/2024

MDL STUDY



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METHOD DETECTION LIMIT (Spiked)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): 10/5/2022, 12/14/2022, 3/22/2023, 7/10/2023; 10/3/2023 & 11/14/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: mg/L

Instrument Name: **IC-08 & IC-09**

Datafile IC-08 221005A #24 IC-08 221214A #30 IC-08 230322A #35 IC-08 230710A #13 IC-09 231003A #14 IC-08 231114A #24 IC-09 231114A #19

Analyte	#1	#2	#3	#4	#5	#6	#7	Spike Conc., mg/L	SD	t _(n-1) value	MDLs	MDL	PQL
Fluoride	0.100	0.103	0.108	0.118	0.110	0.098	0.126	0.10	0.0101	3.143	0.0318	0.0318	0.10
Chloride	0.480	0.418	0.472	0.653	0.624	0.587	0.622	0.50	0.0922	3.143	0.2898	0.2898	0.50
Nitrite	0.068	0.061	0.060	0.071	0.063	0.061	0.070	0.05	0.0047	3.143	0.0149	0.0149	0.05
Bromide	0.526	0.502	0.509	0.522	0.536	0.527	0.520	0.50	0.0116	3.143	0.0364	0.0364	0.50
Nitrate	0.073	0.058	0.059	0.073	0.074	0.068	0.073	0.05	0.0068	3.143	0.0215	0.0240	0.05
Phosphate	0.112	0.096	0.114	0.120	0.130	0.093	0.124	0.10	0.0138	3.143	0.0433	0.0433	0.10
Sulfate	0.501	0.609	0.638	0.401	0.704	0.620	0.697	0.50	0.1092	3.143	0.3432	0.3432	0.50

METHOD DETECTION LIMIT (Blanks)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Analyte	MDLb	# of Records
Fluoride	0	63
Chloride	0.1456	80
Nitrite	0.0147	64
Bromide	0	18
Nitrate	0.0240	132
Phosphate	0.0237	34
Sulfate	0.2579	107

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

EPA 6010B Dissolved



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

NV00922

QC Batch Number: 113723
ASSET #: N069498

Instrument ID: ICP-04
Analyst: DBJ

Method:

Date Analyzed: 10/30/2024

- EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MMS meet tune criteria? (ICP/MS only)			X			X
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ

Date: _____

2nd Level Reviewer _____

Date: 11/7/2024

SAMPLE CALCULATION



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SAMPLE CALCULATION

METHOD: EPA 6010B
TEST NAME: Heavy Metals by ICP
MATRIX: Groundwater

FORMULA:

Calculate the Iron concentration, in ug/L, in the original sample as follows:

$$\text{Iron, ug/L} = A * DF * PF * CF$$

where:

A = mg/L, calculated concentration

DF = Dilution Factor

PF = Final Volume of Digestate, mL / Amount of Sample, mL

CF= Conversion Factor from mg/L to ug/L, 1000

For Sample **N069498-007B**, the concentration in ug/L is calculated as follows:

$$\text{Iron, ug/L} = 0.01408 * 1 * (25/25) * 1000$$

$$\text{Iron, ug/L} = 14.08$$

Reporting results in two significant figures,

$$\text{Iron, ug/L} = 14$$

Since PQL of Iron, in ug/L = 20

$$\text{Iron, ug/L} = \text{ND}$$

Reviewed by:

MRecha 11/26/2024

% RSD SUMMARY



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RSD SUMMARY: 241030B

Instrument ID: NV00922-ICP4

PQL: 0.02 mg/L

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
Blank	BLK	1	Fe	0	-	15	PASS
Standard 1	ICAL	1	Fe	0.02	-	15	PASS
Standard 2	ICAL	1	Fe	0.05	-	15	PASS
Standard 3	ICAL	1	Fe	2	-	15	PASS
Standard 4	ICAL	1	Fe	5	-	15	PASS
Standard 5	ICAL	1	Fe	7.5	-	15	PASS
Standard 6	ICAL	1	Fe	10	-	15	PASS
Standard 7	ICAL	1	Fe	20	-	15	PASS
ICV	ICV	1	Fe	10.0603	0.03	15	PASS
ICB	ICB	1	Fe	0.00122	26.08	15	< PQL
LLCCV1	CCV1	1	Fe	0.02013	1.41	20	PASS
LLCCV2	CCV1	1	Fe	0.43033	0.09	20	PASS
ICSA1	ICSA	1	Fe	10.4869	0.32	15	PASS
ICSAB1	ICSAB	1	Fe	10.18294	0.04	15	PASS
CCV1	CCV	1	Fe	10.05925	0.08	15	PASS
CCB1	CCB	1	Fe	0.00142	11.87	15	PASS
CCV2	CCV	1	Fe	9.95519	0.29	15	PASS
CCB2	CCB	1	Fe	0.00551	62.27	15	< PQL
ICSA2	ICSA	1	Fe	10.37579	0.39	15	PASS
ICSAB2	ICSAB	1	Fe	10.12535	0.18	15	PASS
MB-113723	MBLK	1	Fe	-0.0001	275.30	15	< PQL
LCS-113723	LCS	1	Fe	0.11243	0.35	15	PASS
N069445-001B	SAMP	1	Fe	0.09198	0.19	15	PASS
N069445-001B	SAMP	5	Fe	0.01724	2.36	15	PASS
N069445-001B-PS	PS	1	Fe	0.2096	0.22	15	PASS
N069445-001B-MS	MS	1	Fe	0.2148	0.20	15	PASS
N069445-001B-MSD	MSD	1	Fe	0.20475	0.36	15	PASS
N069498-007B	SAMP	1	Fe	0.01408	7.67	15	PASS
N069542-001B	SAMP	1	Fe	0.00973	1.91	15	PASS
N069542-002B	SAMP	1	Fe	1.84429	0.19	15	PASS
CCV3	CCV	1	Fe	9.92294	0.26	15	PASS
CCB3	CCB	1	Fe	0.00017	578.97	15	< PQL
N069542-003B	SAMP	1	Fe	0.11205	0.06	15	PASS
CCV4	CCV	1	Fe	9.95088	0.06	15	PASS
CCB4	CCB	1	Fe	0.00155	16.75	15	< PQL
ICSA3	ICSA	1	Fe	10.32735	0.37	15	PASS
ICSAB3	ICSAB	1	Fe	10.0874	0.19	15	PASS
CCV5	CCV	1	Fe	9.97552	0.10	15	PASS
CCB5	CCB	1	Fe	0.00195	11.29	15	PASS
CCV6	CCV	1	Fe	10.04389	0.03	15	PASS
CCB6	CCB	1	Fe	0.00643	7.32	15	PASS

RSD SUMMARY: 241030B

Instrument ID: NV00922-ICP4

PQL: 0.02 mg/L

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
CCV7	CCV	1	Fe	10.09592	0.28	15	PASS
CCB7	CCB	1	Fe	0.01132	8.39	15	PASS
CCV8	CCV	1	Fe	10.06899	0.17	15	PASS
CCB8	CCB	1	Fe	0.00605	3.08	15	PASS
ICSA4	ICSA	1	Fe	10.43322	0.05	15	PASS
ICSAB4	ICSAB	1	Fe	10.14956	0.07	15	PASS
CCV9	CCV	1	Fe	10.06141	0.02	15	PASS
CCB9	CCB	1	Fe	0.00642	8.59	15	PASS
CCV10	CCV	1	Fe	10.08954	0.06	15	PASS
CCB10	CCB	1	Fe	0.0099	16.11	15	< PQL
CCV11	CCV	1	Fe	10.03886	0.06	15	PASS
CCB11	CCB	1	Fe	0.00298	16.60	15	< PQL
ICSA5	ICSA	1	Fe	10.40365	0.61	15	PASS
ICSAB5	ICSAB	1	Fe	10.1288	0.05	15	PASS

ANALYSIS RUN LOG



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INJECTION LOG: 241030B

Instrument ID: NV00922-ICP4

STANDARD CODE	
Standard1	MWST-240820N, 0.5<50mL
Standard2	MWST-240820O
Standard3	MWST-240820P, 5<50mL
Standard4	MWST-240820P,12.5<50mL
Standard5	MWST-240820P, 15<40mL
Standard6	MWST-240820P, 25<50mL
Standard7	MWST-240820P
ICV	MWST-240820AG
CCV	MWST-240820P, 25<50mL
ICSA/ICSAB	MWST-240820Q / MWST-240820R
Int. Std	MSST-240801A/240801B
PS Spike	MWST-240820Y/Z/AA

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
1	Blank	BLK	1	10/30/2024	2:21:23 PM
2	Standard 1	ICAL	1	10/30/2024	2:23:40 PM
3	Standard 2	ICAL	1	10/30/2024	2:25:57 PM
4	Standard 3	ICAL	1	10/30/2024	2:28:14 PM
5	Standard 4	ICAL	1	10/30/2024	2:30:32 PM
6	Standard 5	ICAL	1	10/30/2024	2:32:50 PM
7	Standard 6	ICAL	1	10/30/2024	2:35:07 PM
8	Standard 7	ICAL	1	10/30/2024	2:37:24 PM
9	ICV	ICV	1	10/30/2024	2:50:47 PM
10	ICB	ICB	1	10/30/2024	2:53:06 PM
11	LLCCV1	CCV1	1	10/30/2024	2:55:23 PM
12	LLCCV2	CCV1	1	10/30/2024	2:57:41 PM
13	ICSA1	ICSA	1	10/30/2024	2:59:58 PM
14	ICSAB1	ICSAB	1	10/30/2024	3:02:15 PM
15	N069476-001B	SAMP	5	10/30/2024	3:07:41 PM
16	N069476-001B-MS	MS	5	10/30/2024	3:09:58 PM
17	MB-113705	MBLK	1	10/30/2024	3:23:39 PM
18	MB-113681 TCLP	MBLK	1	10/30/2024	3:25:56 PM
19	LCS-113705	LCS	1	10/30/2024	3:28:13 PM
20	N069450-002A	SAMP	1	10/30/2024	3:30:30 PM
21	N069450-002A	SAMP	5	10/30/2024	3:32:47 PM
22	N069450-002A-PS	PS	1	10/30/2024	3:35:04 PM
23	N069450-002A-MS	MS	1	10/30/2024	3:37:21 PM
24	N069450-002A-MSD	MSD	1	10/30/2024	3:39:38 PM
25	CCV1	CCV	1	10/30/2024	3:41:55 PM
26	CCB1	CCB	1	10/30/2024	3:44:11 PM
27	N069450-003A	SAMP	1	10/30/2024	3:46:29 PM
28	N069450-006A	SAMP	1	10/30/2024	3:48:46 PM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
29	N069450-009A	SAMP	1	10/30/2024	3:51:04 PM
30	N069450-010A	SAMP	1	10/30/2024	3:53:21 PM
31	N069450-012A	SAMP	1	10/30/2024	3:55:39 PM
32	N069504-001A	SAMP	1	10/30/2024	3:57:56 PM
33	CCV2	CCV	1	10/30/2024	4:00:13 PM
34	CCB2	CCB	1	10/30/2024	4:05:59 PM
35	ICSA2	ICSA	1	10/30/2024	4:08:16 PM
36	ICSAB2	ICSAB	1	10/30/2024	4:10:34 PM
37	MB-113723	MBLK	1	10/30/2024	4:15:35 PM
38	LCS-113723	LCS	1	10/30/2024	4:17:52 PM
39	N069445-001B	SAMP	1	10/30/2024	4:20:09 PM
40	N069445-001B	SAMP	5	10/30/2024	4:22:26 PM
41	N069445-001B-PS	PS	1	10/30/2024	4:24:43 PM
42	N069445-001B-MS	MS	1	10/30/2024	4:27:00 PM
43	N069445-001B-MSD	MSD	1	10/30/2024	4:29:17 PM
44	N069498-007B	SAMP	1	10/30/2024	4:31:35 PM
45	N069542-001B	SAMP	1	10/30/2024	4:33:52 PM
46	N069542-002B	SAMP	1	10/30/2024	4:36:09 PM
47	CCV3	CCV	1	10/30/2024	4:38:26 PM
48	CCB3	CCB	1	10/30/2024	4:43:57 PM
49	N069542-003B	SAMP	1	10/30/2024	4:46:15 PM
50	MB-113725	MBLK	1	10/30/2024	4:51:51 PM
51	LCS-113725	LCS	1	10/30/2024	4:59:39 PM
52	N069445-001C	SAMP	1	10/30/2024	5:01:56 PM
53	N069445-001C	SAMP	5	10/30/2024	5:04:13 PM
54	N069445-001C-PS	PS	1	10/30/2024	5:06:30 PM
55	N069445-001C-MS	MS	1	10/30/2024	5:08:47 PM
56	N069445-001C-MSD	MSD	1	10/30/2024	5:11:05 PM
57	CCV4	CCV	1	10/30/2024	5:13:21 PM
58	CCB4	CCB	1	10/30/2024	5:15:38 PM
59	ICSA3	ICSA	1	10/30/2024	5:17:56 PM
60	ICSAB3	ICSAB	1	10/30/2024	5:20:13 PM
61	MB-113724	MBLK	1	10/30/2024	5:24:59 PM
62	LCS-113724	LCS	1	10/30/2024	5:27:15 PM
63	N069529-001B	SAMP	5	10/30/2024	5:29:32 PM
64	N069529-001B	SAMP	25	10/30/2024	5:31:49 PM
65	N069529-001B-PS	PS	5	10/30/2024	5:34:06 PM
66	N069529-001B-MS	MS	5	10/30/2024	5:36:23 PM
67	N069529-001B-MSD	MSD	5	10/30/2024	5:38:40 PM
68	N069529-002B	SAMP	5	10/30/2024	5:40:57 PM
69	MB-113619 STLC	MBLK	5	10/30/2024	5:52:37 PM
70	CCV5	CCV	1	10/30/2024	5:54:54 PM
71	CCB5	CCB	1	10/30/2024	5:57:12 PM
72	MB-113713	MBLK	1	10/30/2024	6:03:27 PM
73	LCS-113713	LCS	1	10/30/2024	6:05:44 PM
74	N069528-001B	SAMP	1	10/30/2024	6:08:01 PM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
75	N069528-002A	SAMP	1	10/30/2024	6:10:18 PM
76	N069531-001A	SAMP	1	10/30/2024	6:12:35 PM
77	N069532-001A	SAMP	1	10/30/2024	6:14:53 PM
78	N069532-001A	SAMP	5	10/30/2024	6:17:10 PM
79	N069532-001A-PS	PS	1	10/30/2024	6:19:27 PM
80	N069532-001A-MS	MS	1	10/30/2024	6:21:45 PM
81	N069532-001A-MSD	MSD	1	10/30/2024	6:24:02 PM
82	CCV6	CCV	1	10/30/2024	6:26:18 PM
83	CCB6	CCB	1	10/30/2024	6:28:35 PM
84	N069532-002A	SAMP	1	10/30/2024	6:30:52 PM
85	N069533-001A	SAMP	1	10/30/2024	6:33:10 PM
86	N069533-002A	SAMP	1	10/30/2024	6:35:27 PM
87	N069534-001A	SAMP	1	10/30/2024	6:37:44 PM
88	N069534-002A	SAMP	1	10/30/2024	6:40:01 PM
89	N069534-003A	SAMP	1	10/30/2024	6:42:18 PM
90	N069534-004A	SAMP	1	10/30/2024	6:44:35 PM
91	N069534-005A	SAMP	1	10/30/2024	6:46:52 PM
92	N069534-006A	SAMP	1	10/30/2024	6:49:09 PM
93	N069535-001A	SAMP	1	10/30/2024	6:51:26 PM
94	CCV7	CCV	1	10/30/2024	6:53:43 PM
95	CCB7	CCB	1	10/30/2024	6:56:00 PM
96	N069535-002A	SAMP	1	10/30/2024	6:58:17 PM
97	N069535-003A	SAMP	1	10/30/2024	7:00:34 PM
98	N069535-004A	SAMP	1	10/30/2024	7:02:51 PM
99	N069535-005A	SAMP	1	10/30/2024	7:05:09 PM
100	N069535-006A	SAMP	1	10/30/2024	7:07:26 PM
101	N069535-007A	SAMP	1	10/30/2024	7:09:43 PM
102	N069535-003A	SAMP	1	10/30/2024	7:12:00 PM
103	CCV8	CCV	1	10/30/2024	7:16:28 PM
104	CCB8	CCB	1	10/30/2024	7:18:45 PM
105	ICSA4	ICSA	1	10/30/2024	7:21:02 PM
106	ICSAB4	ICSAB	1	10/30/2024	7:23:18 PM
107	MB-113714	MBLK	1	10/30/2024	7:25:36 PM
108	LCS-113714	LCS	1	10/30/2024	7:27:53 PM
109	N069536-001A	SAMP	1	10/30/2024	7:30:10 PM
110	N069536-001A	SAMP	5	10/30/2024	7:32:27 PM
111	N069536-001A-PS	PS	1	10/30/2024	7:34:44 PM
112	N069536-001A-MS	MS	1	10/30/2024	7:37:01 PM
113	N069536-001A-MSD	MSD	1	10/30/2024	7:39:17 PM
114	N069536-002A	SAMP	1	10/30/2024	7:41:34 PM
115	N069536-003A	SAMP	1	10/30/2024	7:43:52 PM
116	N069537-001A	SAMP	1	10/30/2024	7:46:09 PM
117	CCV9	CCV	1	10/30/2024	7:48:25 PM
118	CCB9	CCB	1	10/30/2024	7:50:42 PM
119	N069538-001A	SAMP	1	10/30/2024	7:52:59 PM
120	N069540-001A	SAMP	1	10/30/2024	7:55:16 PM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
121	N069541-001A	SAMP	1	10/30/2024	7:57:33 PM
122	N069541-002A	SAMP	1	10/30/2024	7:59:50 PM
123	N069541-003A	SAMP	1	10/30/2024	8:02:06 PM
124	CCV10	CCV	1	10/30/2024	8:05:52 PM
125	CCB10	CCB	1	10/30/2024	8:08:09 PM
126	MB-113730	MBLK	1	10/30/2024	8:10:26 PM
127	LCS-113730	LCS	1	10/30/2024	8:12:43 PM
128	N069555-001A	SAMP	1	10/30/2024	8:15:00 PM
129	N069555-001A	SAMP	5	10/30/2024	8:17:17 PM
130	N069555-001A-PS	PS	1	10/30/2024	8:19:35 PM
131	N069555-001A-MS	MS	1	10/30/2024	8:21:52 PM
132	N069555-001A-MSD	MSD	1	10/30/2024	8:24:09 PM
133	N069555-002A	SAMP	1	10/30/2024	8:26:26 PM
134	CCV11	CCV	1	10/30/2024	8:29:10 PM
135	CCB11	CCB	1	10/30/2024	8:31:27 PM
136	ICSA5	ICSA	1	10/30/2024	8:33:44 PM
137	ICSAB5	ICSAB	1	10/30/2024	8:36:01 PM

SAMPLE PREPARATION LOG



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321

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 10/30/2024 10:41:22 AM

Reviewed/ Date: KDG / 11/7/2024

Prep End Date: 10/30/2024 2:20:00 PM

Initials/ Date: _____

Prep Batch 113723 Prep Code:3010_W DISS

Technician: **Diane Jetajobe**

Prep Factor Units Temp. (°C): Location:
mL / mL 95.1 DB-4-37

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-113723	Aqueous		25	<input type="checkbox"/>	25	1.000		
50ML LOT # MP3971								
MB-113723	Aqueous		25	<input type="checkbox"/>	25	1.000		
THERMOMETER ID: DIGESTION 7								
N069445-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
redigest								
N069445-001B-MS	Groundwater		25	<input type="checkbox"/>	25	1.000		
N069445-001B-MSD	Groundwater		25	<input type="checkbox"/>	25	1.000		
N069498-007B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069542-001B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069542-002B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069542-003B	Water	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17140	NITRIC ACID
17147	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
MWST-240820AA	ICP Solution C	LCS,MS,MSD	0.5
MWST-240820Y	ICP Solution A	LCS,MS,MSD	0.5
MWST-240820Z	ICP Solution B	LCS,MS,MSD	0.5

INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

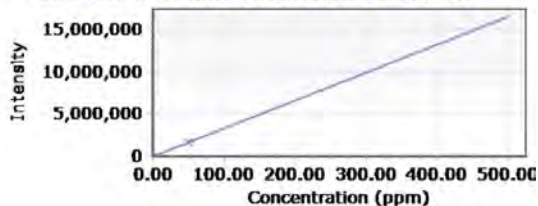
CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

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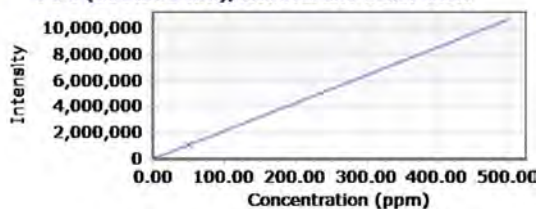
Cu I (324.754 nm), Interferent Calibration



Intensity = 33101.85948620 * Concentration + 684.20878678
 Correlation coefficient: 1.00000
 %RSE:N/A

Standards	Intensity	Method Conc	Calculated Conc	% Error
IEC Blank	684.20879	0.00000	0.00000	N/A
Interferent 09 (Cu)	1655777.1 8310	50.00000	50.00000	0.00000

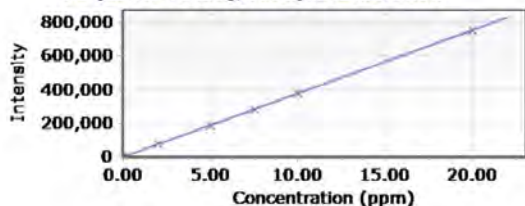
Fe I (239.563 nm), Interferent Calibration



Intensity = 21449.83771380 * Concentration + 29.10415739
 Correlation coefficient: 1.00000
 %RSE:N/A

Standards	Intensity	Method Conc	Calculated Conc	% Error
IEC Blank	29.10416	0.00000	0.00000	N/A
Interferent 10 (Fe)	1072520.9 8985	50.00000	50.00000	0.00000

Fe (259.940 nm), Analyte Calibration

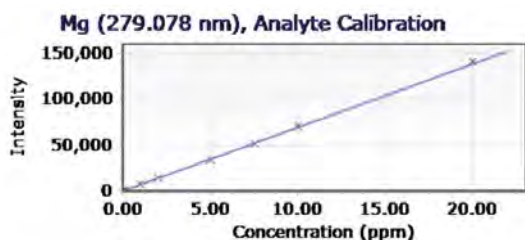


Intensity = 37794.19780520 * Concentration + 58.35826216
 Correlation coefficient: 0.99999
 %RSE:9.70340840

Standards	Intensity	Method Conc	Calculated Conc	% Error
Blank	26.20730	0.00000	-0.00085	N/A

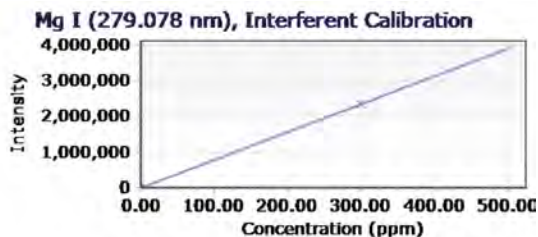


Standards	Intensity	Method Conc	Calculated Conc	% Error
Standard 1	811.97128	0.02000	0.01994	0.30044
Standard 2	2357.70109	0.05000	0.06084	21.67703
Standard 3	75526.03211	2.00000	1.99681	0.15971
Standard 4	189097.11600	5.00000	5.00179	0.03586
Standard 5	281619.77529	7.50000	7.44986	0.66856
Standard 6	379215.28728	10.00000	10.03215	0.32146
Standard 7	752398.64619	20.00000	19.90624	0.46881



Intensity = 6914.45638243 * Concentration + 60.24460121
 Correlation coefficient: 0.99997
 %RSE:1.98816684

Standards	Intensity	Method Conc	Calculated Conc	% Error
Blank	23.63999	0.00000	-0.00529	N/A
Standard 1	765.71885	0.10000	0.10203	2.02888
Standard 2	7191.50626	1.00000	1.03136	3.13554
Standard 3	13893.94745	2.00000	2.00069	0.03464
Standard 4	34627.18921	5.00000	4.99923	0.01544
Standard 5	52074.81945	7.50000	7.52258	0.30111
Standard 6	70011.18339	10.00000	10.11662	1.16622
Standard 7	141238.23239	20.00000	20.41780	2.08900



Intensity = 7830.79440384 * Concentration + 25.13274543

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICV	SampType: ICV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005						
Client ID: ICV	Batch ID: R195005	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276150						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10060.300	20	10000	0	101	90	110				

Sample ID: LLCCV1	SampType: CCV1	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005						
Client ID: ZZZZZZ	Batch ID: R195005	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276152						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	20.130	20	20.00	0	101	80	120				

Sample ID: CCV1	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005						
Client ID: CCV	Batch ID: R195005	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276166						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10059.250	20	10000	0	101	90	110				

Sample ID: CCV2	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005						
Client ID: CCV	Batch ID: R195005	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276174						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	9955.190	20	10000	0	99.6	90	110				

Sample ID: CCV3	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005						
Client ID: CCV	Batch ID: R195005	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276188						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	9922.940	20	10000	0	99.2	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID: CCV4	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005						
Client ID: CCV	Batch ID: R195005	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276198						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	9950.880	20	10000	0	99.5	90	110				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out

E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values

H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
(M) Test is modified

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICB	SampType: ICB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005						
Client ID: ICB	Batch ID: R195005	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276151						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 1.220 20

Sample ID: CCB1	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005						
Client ID: CCB	Batch ID: R195005	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276167						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 1.420 20

Sample ID: CCB2	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005						
Client ID: CCB	Batch ID: R195005	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276175						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 5.510 20

Sample ID: CCB3	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005						
Client ID: CCB	Batch ID: R195005	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276189						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 0.170 20

Sample ID: CCB4	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005						
Client ID: CCB	Batch ID: R195005	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276199						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 1.550 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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NEVADA
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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICSA1	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005						
Client ID: ICSA	Batch ID: R195005	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276154						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10231.400	50	10000	0	102	80	120				
Calcium	10139.280	500	10000	0	101	80	120				
Iron	10486.900	20	10000	0	105	80	120				
Magnesium	10250.280	100	10000	0	103	80	120				

Sample ID: ICSA1	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005						
Client ID: ICSA	Batch ID: R195005	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276155						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10215.090	50	10000	0	102	80	120				
Calcium	9956.970	500	10000	0	99.6	80	120				
Iron	10182.940	20	10000	0	102	80	120				
Magnesium	10099.530	100	10000	0	101	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005						
Client ID: ICSA	Batch ID: R195005	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276176						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10168.810	50	10000	0	102	80	120				
Calcium	10098.190	500	10000	0	101	80	120				
Iron	10375.790	20	10000	0	104	80	120				
Magnesium	10148.170	100	10000	0	101	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005						
Client ID: ICSA	Batch ID: R195005	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276177						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10176.960	50	10000	0	102	80	120				
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICSAB2	SampType: ICSAB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005						
Client ID: ICSAB	Batch ID: R195005	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276177						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	9904.210	500	10000	0	99.0	80	120				
Iron	10125.350	20	10000	0	101	80	120				
Magnesium	9983.410	100	10000	0	99.8	80	120				

Sample ID: ICSA3	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005						
Client ID: ICSA	Batch ID: R195005	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276200						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	10219.800	50	10000	0	102	80	120				
Calcium	10036.240	500	10000	0	100	80	120				
Iron	10327.350	20	10000	0	103	80	120				
Magnesium	10088.270	100	10000	0	101	80	120				

Sample ID: ICSAB3	SampType: ICSAB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005						
Client ID: ICSAB	Batch ID: R195005	TestNo: EPA 6010B		Analysis Date: 10/30/2024	SeqNo: 6276201						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	10215.470	50	10000	0	102	80	120				
Calcium	9821.000	500	10000	0	98.2	80	120				
Iron	10087.400	20	10000	0	101	80	120				
Magnesium	9928.370	100	10000	0	99.3	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

INTERNAL STANDARD SUMMARY



ASSET LABORATORIES
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INTERNAL STANDARD: 241030B

Instrument ID: NV00922-ICP4

Sample Name	Type	DF	Yttrium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
Blank	BLK	1	1	100	65-125	PASS
Standard 1	ICAL	1	1.01	101	65-125	PASS
Standard 2	ICAL	1	1.06	106	65-125	PASS
Standard 3	ICAL	1	1.11	111	65-125	PASS
Standard 4	ICAL	1	1.07	107	65-125	PASS
Standard 5	ICAL	1	1.07	107	65-125	PASS
Standard 6	ICAL	1	1.02	102	65-125	PASS
Standard 7	ICAL	1	1.01	101	65-125	PASS
ICV	ICV	1	1.01	101	65-125	PASS
ICB	ICB	1	1.02	102	65-125	PASS
LLCCV1	CCV1	1	1.03	103	65-125	PASS
LLCCV2	CCV1	1	1.05	105	65-125	PASS
ICSA1	ICSA	1	1.05	105	65-125	PASS
ICSAB1	ICSAB	1	1.07	107	65-125	PASS
CCV1	CCV	1	1.04	104	65-125	PASS
CCB1	CCB	1	1.04	104	65-125	PASS
CCV2	CCV	1	1.01	101	65-125	PASS
CCB2	CCB	1	1.04	104	65-125	PASS
ICSA2	ICSA	1	1.02	102	65-125	PASS
ICSAB2	ICSAB	1	1.04	104	65-125	PASS
MB-113723	MBLK	1	1.05	105	65-125	PASS
LCS-113723	LCS	1	0.96	96	65-125	PASS
N069445-001B	SAMP	1	0.92	92	65-125	PASS
N069445-001B	SAMP	5	1	100	65-125	PASS
N069445-001B-PS	PS	1	0.88	88	65-125	PASS
N069445-001B-MS	MS	1	0.92	92	65-125	PASS
N069445-001B-MSD	MSD	1	0.95	95	65-125	PASS
N069498-007B	SAMP	1	0.96	96	65-125	PASS
N069542-001B	SAMP	1	0.91	91	65-125	PASS
N069542-002B	SAMP	1	0.93	93	65-125	PASS
CCV3	CCV	1	1.03	103	65-125	PASS
CCB3	CCB	1	1.08	108	65-125	PASS
N069542-003B	SAMP	1	0.93	93	65-125	PASS
CCV4	CCV	1	1.08	108	65-125	PASS
CCB4	CCB	1	1.08	108	65-125	PASS
ICSA3	ICSA	1	1.09	109	65-125	PASS
ICSAB3	ICSAB	1	1.12	112	65-125	PASS
CCV5	CCV	1	1.06	106	65-125	PASS
CCB5	CCB	1	1.06	106	65-125	PASS
CCV6	CCV	1	1.07	107	65-125	PASS
CCB6	CCB	1	1.07	107	65-125	PASS

INTERNAL STANDARD: 241030B

Instrument ID: NV00922-ICP4

Sample Name	Type	DF	Yttrium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
CCV7	CCV	1	1.07	107	65-125	PASS
CCB7	CCB	1	1.06	106	65-125	PASS
CCV8	CCV	1	1.06	106	65-125	PASS
CCB8	CCB	1	1.06	106	65-125	PASS
ICSA4	ICSA	1	1.08	108	65-125	PASS
ICSAB4	ICSAB	1	1.1	110	65-125	PASS
CCV9	CCV	1	1.07	107	65-125	PASS
CCB9	CCB	1	1.06	106	65-125	PASS
CCV10	CCV	1	1.06	106	65-125	PASS
CCB10	CCB	1	1.06	106	65-125	PASS
CCV11	CCV	1	1.05	105	65-125	PASS
CCB11	CCB	1	1.05	105	65-125	PASS
ICSA5	ICSA	1	1.07	107	65-125	PASS
ICSAB5	ICSAB	1	1.1	110	65-125	PASS

SERIAL DILUTION/ POST DIGESTION SPIKE



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ASSET Laboratories

ICP-Metals in Water

Work Order No.: N069498
 Test Method: EPA 6010B
 Analysis Date: 10/30/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 113723

Instrument ID: NV00922-ICP4
 Instrument Description: Agilent 5800VDV

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Fe. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069445-001B DT 5x	Iron	Fe	µg/L	86.2	NA	91.98	6.28%	10

Reviewed by:

d/Rocha 11/26/2024

Note: NA - Not Applicable

11/19/24 16:50

N069498_6010B_113723_DT

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPB

Sample ID: N069445-001B-PS	SampType: PS	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195005						
Client ID: ZZZZZZ	Batch ID: 113723	TestNo: EPA 6010B EPA 3010A	Analysis Date: 10/30/2024	SeqNo: 6276182							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	209.600	20	100.0	91.98	118	80	120				

Qualifiers:

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- DO Surrogate Diluted Out
- E Value above quantitation range
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MDL STUDY



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Method Detection Limits

Analytical Method: EPA 6010B
Digestion Method: 3010_W
Digestion Date: 1/31/2024-2/16/24
Instrument Name: ICP2/ ICP3
Analyst/Technician: DJ

Matrix: WATER
Unit: mg/L

Analyte	1	2	3	4	5	6	7	SD	AMT SPIKED (ppm)	MDLs	PQL	MDL
Beryllium	0.0010	0.0010	0.0010	0.0012	0.0012	0.0009	0.0009	0.00013	0.0010	0.00042	0.0010	0.0004
Boron	0.1015	0.0996	0.0981	0.0955	0.0962	0.0921	0.0811	0.00679	0.1000	0.02134	0.1000	0.0519
Magnesium	0.1018	0.1005	0.1004	0.1023	0.1006	0.0924	0.0926	0.00426	0.1000	0.01340	0.1000	0.0134
Silicon	0.0175	0.0205	0.0214	0.0114	0.0100	0.0210	0.0211	0.00489	0.0200	0.01537	0.0200	0.0154
Chromium	0.0009	0.0009	0.0009	0.0011	0.0009	0.0009	0.0010	0.00007	0.0010	0.00023	0.0010	0.0002
Manganese	0.0096	0.0095	0.0093	0.0101	0.0102	0.0102	0.0104	0.00042	0.0100	0.00133	0.0100	0.0013
Iron	0.0219	0.0207	0.0210	0.0226	0.0224	0.0193	0.0175	0.00184	0.0200	0.00577	0.0200	0.0058
Cobalt	0.0020	0.0018	0.0019	0.0019	0.0018	0.0021	0.0020	0.00013	0.0025	0.00039	0.0025	0.0004
Nickel	0.0055	0.0055	0.0052	0.0028	0.0033	0.0048	0.0047	0.00109	0.0050	0.00342	0.0050	0.0034
Copper	0.0056	0.0058	0.0054	0.0063	0.0058	0.0050	0.0053	0.00041	0.0050	0.00128	0.0050	0.0014
Zinc	0.0110	0.0103	0.0100	0.0106	0.0108	0.0092	0.0088	0.00086	0.0100	0.00269	0.0100	0.0027
Arsenic	0.0100	0.0080	0.0060	0.0084	0.0112	0.0132	0.0065	0.00256	0.0100	0.00805	0.0100	0.0081
Selenium	0.0110	0.0126	0.0120	0.0079	0.0137	0.0079	0.0072	0.00264	0.0100	0.00829	0.0100	0.0083
Molybdenum	0.0056	0.0053	0.0057	0.0044	0.0045	0.0051	0.0044	0.00056	0.0050	0.00177	0.0050	0.0018
Silver	0.0025	0.0025	0.0024	0.0019	0.0018	0.0033	0.0031	0.00056	0.0025	0.00175	0.0025	0.0018
Cadmium	0.0027	0.0026	0.0026	0.0016	0.0018	0.0023	0.0025	0.00043	0.0025	0.00136	0.0025	0.0014
Tin	0.0104	0.0095	0.0097	0.0114	0.0111	0.0087	0.0089	0.00104	0.0100	0.00328	0.0100	0.0033
Antimony	0.0090	0.0093	0.0110	0.0136	0.0122	0.0112	0.0087	0.00180	0.0100	0.00565	0.0100	0.0056
Barium	0.0026	0.0026	0.0026	0.0028	0.0028	0.0024	0.0024	0.00016	0.0025	0.00051	0.0025	0.0005
Thallium	0.0172	0.0169	0.0170	0.0165	0.0144	0.0131	0.0130	0.00188	0.0150	0.00592	0.0150	0.0059
Lead	0.0058	0.0060	0.0061	0.0046	0.0083	0.0049	0.0048	0.00125	0.0050	0.00393	0.0050	0.0039
Calcium	0.2188	0.2125	0.2073	0.2186	0.2230	0.1767	0.1699	0.02155	0.2000	0.06772	0.2000	0.0677
Vanadium	0.0026	0.0025	0.0027	0.0030	0.0029	0.0024	0.0023	0.00026	0.0025	0.00081	0.0025	0.0008
Aluminum	0.0523	0.0513	0.0508	0.0490	0.0501	0.0509	0.0482	0.00140	0.0500	0.00439	0.0500	0.0044
Titanium	0.0119	0.0116	0.0108	0.0100	0.0103	0.0105	0.0107	0.00069	0.0100	0.00216	0.0100	0.0022

Method Detection Limits (Blanks)

Analyte	1	2	3	4	5	6	7	SD	Average	MDLb
Beryllium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00006	0.0000	0.00019
Boron	0.000	0.000	-0.001	-0.005	-0.006	-0.045	-0.047	0.02126	-0.0149	0.05194
Magnesium	-0.001	-0.001	-0.001	0.000	0.001	0.000	-0.001	0.00074	-0.0004	0.00192
Silicon	-0.001	-0.004	-0.004	-0.002	-0.001	-0.012	-0.011	0.00477	-0.0049	0.01013
Chromium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00004	-0.0001	0.00008
Manganese	-0.001	-0.001	-0.001	0.000	0.000	0.000	0.000	0.00044	-0.0005	0.00090
Iron	0.000	0.000	0.000	-0.001	-0.001	-0.003	-0.003	0.00140	-0.0010	0.00337
Cobalt	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00012	-0.0001	0.00029
Nickel	0.000	0.000	0.000	-0.002	-0.002	0.000	0.000	0.00089	-0.0006	0.00224
Copper	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.00033	0.0003	0.00138
Zinc	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.00033	0.0000	0.00102
Arsenic	-0.001	-0.003	0.000	0.000	0.000	0.000	0.000	0.00091	-0.0007	0.00221
Selenium	0.004	0.000	0.002	0.001	0.003	-0.001	0.002	0.00153	0.0017	0.00649
Molybdenum	0.000	0.000	0.000	-0.001	-0.001	0.000	0.000	0.00032	-0.0003	0.00074
Silver	-0.001	-0.001	-0.001	-0.001	-0.001	0.000	0.000	0.00049	-0.0007	0.00083
Cadmium	0.000	0.000	0.000	-0.001	0.000	0.000	0.000	0.00029	-0.0001	0.00081
Tin	-0.001	-0.001	-0.001	0.001	0.000	0.000	-0.001	0.00063	-0.0005	0.00150
Antimony	0.000	-0.001	0.000	0.000	-0.001	0.004	0.000	0.00161	0.0002	0.00524
Barium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00008	0.0000	0.00025
Thallium	0.001	0.000	0.002	0.001	0.000	-0.001	-0.001	0.00104	0.0002	0.00343
Lead	0.000	-0.001	-0.001	-0.001	0.000	0.001	-0.001	0.00068	-0.0004	0.00173
Calcium	0.001	0.001	0.001	-0.003	-0.005	-0.003	-0.017	0.00638	-0.0036	0.01650
Vanadium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00012	0.0000	0.00038
Aluminum	0.000	0.001	0.001	-0.001	-0.001	-0.001	-0.002	0.00105	-0.0003	0.00300
Titanium	0.001	0.000	0.001	-0.001	-0.001	-.00003	0.000	0.00064	0.0000	0.00199

Note: Higher value between MDLs and MDLb will be used.

Method Detection Limits

Analytical Method: EPA 6010B
Digestion Method: EPA 3010A
Digestion Date: 2/8-2/12/2024
Analysis Date: 2/16-2/23/2024
Instrument Name: ICP-04
Analyst/Technician: NS/DBJ

Matrix: WATER
Unit: mg/L

Analyte	1	2	3	4	5	6	7	SD	AMT SPIKED (ppm)	MDLs	PQL	MDL
Beryllium	0.00096	0.00098	0.00096	0.00094	0.00114	0.00100	0.00093	0.00007	0.0010	0.00022	0.0010	0.0004
Boron	0.09627	0.09657	0.09643	0.09117	0.09044	0.09475	0.09499	0.00255	0.1000	0.00800	0.1000	0.0080
Magnesium	0.10052	0.10036	0.09959	0.10705	0.10731	0.09987	0.10054	0.00344	0.1000	0.01079	0.1000	0.0153
Silicon	0.01997	0.01949	0.01947	0.02053	0.02103	0.02063	0.02079	0.00063	0.0200	0.00198	0.0200	0.0020
Chromium	0.00100	0.00096	0.00096	0.00116	0.00117	0.00109	0.00115	0.00009	0.0010	0.00030	0.0010	0.0005
Manganese	0.00965	0.00966	0.00962	0.00727	0.00736	0.00964	0.00963	0.00113	0.0100	0.00356	0.0100	0.0037
Iron	0.01670	0.01666	0.01669	0.01930	0.01911	0.01418	0.01399	0.00209	0.0200	0.00657	0.0200	0.0066
Cobalt	0.00276	0.00227	0.00246	0.00248	0.00246	0.00188	0.00221	0.00028	0.0025	0.00087	0.0025	0.0009
Nickel	0.00479	0.00493	0.00510	0.00476	0.00489	0.00457	0.00453	0.00020	0.0050	0.00063	0.0050	0.0006
Copper	0.00508	0.00506	0.00488	0.00503	0.00521	0.00474	0.00486	0.00016	0.0050	0.00050	0.0050	0.0005
Zinc	0.01247	0.01227	0.01233	0.01015	0.01017	0.00939	0.00952	0.00139	0.0100	0.00438	0.0100	0.0044
Arsenic	0.00990	0.00949	0.00882	0.01052	0.01052	0.01070	0.01000	0.00067	0.0100	0.00210	0.0100	0.0021
Selenium	0.00898	0.00986	0.01063	0.01176	0.01126	0.01021	0.01046	0.00091	0.0100	0.00286	0.0100	0.0032
Molybdenum	0.00546	0.00537	0.00512	0.00602	0.00529	0.00458	0.00502	0.00044	0.0050	0.00139	0.0050	0.0021
Silver	0.00245	0.00240	0.00249	0.00200	0.00194	0.00221	0.00211	0.00022	0.0025	0.00070	0.0025	0.0010
Cadmium	0.00248	0.00248	0.00244	0.00239	0.00240	0.00219	0.00224	0.00012	0.0025	0.00036	0.0025	0.0004
Tin	0.00982	0.01010	0.00968	0.01041	0.01050	0.00990	0.00999	0.00030	0.0100	0.00095	0.0100	0.0010
Antimony	0.01076	0.01056	0.00998	0.01034	0.01208	0.00938	0.00979	0.00087	0.0100	0.00274	0.0100	0.0027
Barium	0.00266	0.00257	0.00258	0.00258	0.00257	0.00249	0.00254	0.00005	0.0025	0.00016	0.0025	0.0008
Thallium	0.01580	0.01557	0.01597	0.01222	0.01292	0.01486	0.01560	0.00151	0.0150	0.00475	0.0150	0.0048
Lead	0.00431	0.00500	0.00446	0.00447	0.00503	0.00422	0.00371	0.00046	0.0050	0.00144	0.0050	0.0014
Calcium	0.20228	0.20108	0.20096	0.20023	0.20038	0.19290	0.19351	0.00386	0.2000	0.01211	0.2000	0.0121
Vanadium	0.00265	0.00253	0.00241	0.00232	0.00229	0.00240	0.00246	0.00012	0.0025	0.00039	0.0025	0.0006
Aluminum	0.05361	0.05332	0.05336	0.05134	0.05238	0.05032	0.04987	0.00153	0.0500	0.00482	0.0500	0.0075
Titanium	0.01017	0.01017	0.01014	0.01005	0.01003	0.01004	0.01004	0.00007	0.0100	0.00020	0.0100	0.0012
Sodium	0.10464	0.10886	0.11103	0.10060	0.10108	0.10829	0.10960	0.00421	0.1000	0.01321	0.1000	0.0132
Strontium	0.02468	0.02576	0.02592	0.02543	0.02579	0.02513	0.02569	0.00044	0.0250	0.00139	0.0250	0.0014

BLANK

Analyte	1	2	3	4	5	6	7	SD	Average	MDL	PQL
Beryllium	-0.00048	-0.00014	-0.00014	0.00001	0.00001	-0.00003	-0.00002	0.00017	-0.00011	0.00043	0.0010
Boron	-0.00209	-0.00259	-0.00248	-0.00694	-0.00772	-0.00175	-0.00221	0.00252	-0.00368	0.00423	0.1000
Magnesium	0.00244	0.00147	0.00205	0.00943	0.00934	0.00459	0.00401	0.00334	0.00476	0.01526	0.1000
Silicon	-0.00009	-0.00039	-0.00061	-0.00016	-0.00044	-0.00044	-0.00071	0.00022	-0.00041	0.00029	0.0200
Chromium	0.00017	0.00009	0.00006	0.00027	0.00032	0.00008	0.00012	0.00010	0.00016	0.00047	0.0010
Manganese	-0.00054	-0.00051	-0.00054	-0.00311	-0.00312	0.00037	0.00037	0.00149	-0.00101	0.00368	0.0100
Iron	-0.00361	-0.00368	-0.00350	-0.00126	-0.00121	0.00037	-0.00627	0.00219	-0.00274	0.00416	0.0200
Cobalt	-0.00033	0.00009	-0.00016	-0.00021	-0.00058	-0.00032	-0.00036	0.00021	-0.00027	0.00038	0.0025
Nickel	-0.00036	-0.00009	-0.00024	-0.00021	-0.00033	-0.00022	-0.00023	0.00009	-0.00024	0.00004	0.0050
Copper	0.00005	0.00002	0.00000	0.00019	0.00028	-0.00001	0.00000	0.00011	0.00008	0.00043	0.0050
Zinc	0.00056	-0.00003	-0.00006	-0.00024	-0.00022	-0.00079	-0.00081	0.00047	-0.00023	0.00126	0.0100
Arsenic	-0.00003	-0.00086	-0.00030	-0.00052	0.00012	0.00051	0.00034	0.00049	-0.00011	0.00142	0.0100
Selenium	-0.00105	-0.00101	0.00003	-0.00013	-0.00033	0.00092	0.00175	0.00101	0.00003	0.00321	0.0100
Molybdenum	0.00035	0.00064	-0.00012	0.00102	0.00080	-0.00015	-0.00059	0.00059	0.00028	0.00212	0.0050
Silver	-0.00021	-0.00023	-0.00022	-0.00146	-0.00143	-0.00071	-0.00064	0.00055	-0.00070	0.00102	0.0025
Cadmium	-0.00003	-0.00002	-0.00003	-0.00008	-0.00009	-0.00026	-0.00030	0.00012	-0.00012	0.00025	0.0025
Tin	-0.00048	-0.00035	0.00010	-0.00014	0.00016	-0.00005	-0.00008	0.00023	-0.00012	0.00060	0.0100
Antimony	0.00008	0.00020	0.00049	-0.00016	0.00141	0.00021	0.00121	0.00059	0.00049	0.00236	0.0100
Barium	0.00006	0.00062	0.00005	0.00003	-0.00010	-0.00003	-0.00006	0.00024	0.00008	0.00085	0.0025
Thallium	0.00113	0.00056	0.00015	0.00095	0.00031	0.00135	0.00088	0.00044	0.00076	0.00214	0.0150
Lead	-0.00006	-0.00093	-0.00022	-0.00025	-0.00031	-0.00180	-0.00134	0.00067	-0.00070	0.00139	0.0050
Calcium	-0.00505	0.00006	0.00001	-0.00038	-0.00024	-0.00119	-0.00204	0.00183	-0.00126	0.00450	0.2000
Vanadium	0.00027	0.00033	0.00044	0.00022	0.00016	0.00010	0.00011	0.00012	0.00023	0.00062	0.0025
Aluminum	0.00375	0.00381	0.00445	0.00041	0.00100	0.00108	0.00110	0.00169	0.00223	0.00754	0.0500
Titanium	0.00001	0.00001	-0.00001	-0.00006	-0.00010	0.00000	0.00088	0.00034	0.00010	0.00119	0.0100
Sodium	0.00136	0.00379	0.00132	-0.00038	-0.00214	-0.00015	0.00331	0.00210	0.00102	0.00761	0.1000
Strontium	-0.00115	-0.00166	-0.00116	-0.00120	-0.00012	-0.00045	-0.00044	0.00055	-0.00088	0.00085	0.0200

Note: ICP-04 is an additional instrument, MDL is within 0.5 to 2.0 of existing MDL. Retain existing MDL.

EPA 6020 Dissolved



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 113638
ASSET #: N069498

Instrument ID: NV00922-ICP8
Analyst: DBJ

Method:

- EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 10/29/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.		X			X	
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)		X			X	
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

Mn is OLR in N069263-001B-PS/MS/MSD/N069498-003B. For dilution.
% RSD of As in N069498-002B/003B/004B/005B/006B. For rerun.
% RSD of Se in N069263-001B (sample ref)/ N069498-007B/008B. For rerun.
Cr is OLR in N069498-001B/005B. For dilution.

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
2nd Level Reviewer NS 10/30/2024

Date: —
Date: _____



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 113638
ASSET #: N069498

Instrument ID: NV00922-ICP8
Analyst: DBJ

Method:

EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 10/30/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)		X			X	
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.			X			X
24. LCS compounds within control limits.			X			X
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

As, Se rerun
Mn and Cr dilution.
% RSD of As in N069498-003B/006B failed. For rerun
% RSD of Se in N069498-008B failed. For rerun.
% RSD of As and Se in LLCCV2 failed. However, % recovery passed criteria.

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ

Date: _____

2nd Level Reviewer _____

Date: 11/1/2024



Metals Technical Batch Review Checklist (ARCUS02)

DVVHW#0DER UDWR UIHV#0 ODV YHJDV

FIRST LEVEL REVIEW:

QC Batch Number: 113638
ASSET #: N069498

Instrument ID: NV00922-ICP8
Analyst: DBJ

Method:

- EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 11/1/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ?(r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.			X			X
24. LCS compounds within control limits.			X			X
25. MS/MSD, RPD's are within control limits			X			X
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

As and Se rerun.

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
2nd Level Reviewer NS 11/12/2024

Date: _____
Date: _____

SAMPLE CALCULATION



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SAMPLE CALCULATION

METHOD: EPA 6020
TEST NAME: Heavy Metals by ICP-MS
MATRIX: Groundwater

FORMULA:

Calculate the Molybdenum concentration, in ug/L in the original sample as follows:

$$\text{Molybdenum, ug/L} = A * DF * PF$$

where:

A = ug/L, calculated concentration
DF = Dilution Factor
PF = Final Volume of Digestate, mL / Amount of Sample, mL

For Sample **N069498-001B**, the concentration in ug/L is calculated as follows:

$$\text{Molybdenum, ug/L} = 16.0102 * 1 * (25 / 25)$$

$$\text{Molybdenum, ug/L} = 16.01023$$

Reporting results in two significant figures,

$$\text{Molybdenum, ug/L} = 16$$

Reviewed by:



11/27/2024

% RSD SUMMARY



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PERCENT RSD SUMMARY: 241029A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	52 Cr [2]				55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.08	28.099	15	<PQL	0.07	29.297	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.49	7.907	15	PASS	0.42	14.663	15	PASS
Std3-5/50 ppb	ICAL	1	4.8	1.64	15	PASS	4.7	2.259	15	PASS
Std4-10/100 ppb	ICAL	1	10	1.594	15	PASS	10.21	0.461	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.59	0.237	15	PASS	19.96	2.722	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	38.88	1.626	15	PASS	38.66	2.268	15	PASS
Std7-100/1000 ppb	ICAL	1	99.36	3.023	15	PASS	99.95	1.955	15	PASS
Std8-200/2000 ppb	ICAL	1	200.59	1.496	15	PASS	200.29	1.654	15	PASS
ICV	ICV	1	10.23	1.733	15	PASS	101.91	0.832	15	PASS
ICB	ICB	1	0.02	59.505	15	<PQL	0.09	18.976	15	<PQL
LLCCV1	CCV1	1	0.11	15.302	20	PASS	0.17	25.078	20	<PQL
LLCCV2	CCV1	1	1	4.624	20	PASS	0.56	8.449	20	PASS
MLCCV1	CCV	1	19.39	2.069	15	PASS	19.34	2.317	15	PASS
ICSA1	ICSA	1	0.02	10.645	15	PASS	0.03	127.481	15	<PQL
ICSAB1	ICSAB	1	20.36	0.948	15	PASS	20.13	1.653	15	PASS
CCV1	CCV	1	19.49	0.653	15	PASS	19.07	3.147	15	PASS
CCV1	CCV	1	19.43	0.97	15	PASS	18.77	0.888	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV2	CCV	1	19.78	1.15	15	PASS	19.54	1.2	15	PASS
CCB2	CCB	1	0	3231.657	15	<PQL	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	20.11	0.068	15	PASS	19.78	1.022	15	PASS
CCV3	CCV	1	19.02	1.719	15	PASS	18.61	1.552	15	PASS
CCB3	CCB	1	0	298.21	15	<PQL	<0.000	N/A	15	<PQL
CCV4	CCV	1	19.52	3.564	15	PASS	19.25	2.14	15	PASS
CCB4	CCB	1	0.03	49.917	15	<PQL	<0.000	N/A	15	<PQL
CCV5	CCV	1	19.12	3.794	15	PASS	18.74	5.623	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	0	2817.683	15	<PQL	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	19.47	2.129	15	PASS	18.94	3.216	15	PASS
MB-113638	MBLK	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
LCS-113638	LCS	1	10.54	1.75	15	PASS	96.23	3.201	15	PASS
N069263-001B	SAMP	1	0.56	9.416	15	PASS	441.81	0.41	15	PASS
N069263-001B	SAMP	5	0.11	22.209	15	<PQL	94.68	1.264	15	PASS
N069263-001B-PS	PS	1	9.8	0.856	15	PASS	526.77	1.452	15	PASS
N069263-001B-MS	MS	1	9.69	1.622	15	PASS	524.5	1.222	15	PASS
N069263-001B-MSD	MSD	1	9.7	2.573	15	PASS	521.62	2.469	15	PASS
N069263-002B	SAMP	1	0.5	10.142	15	PASS	445.24	1.016	15	PASS
N069263-003B	SAMP	1	1.11	0.773	15	PASS	363.03	0.821	15	PASS
CCV6	CCV	1	19.35	1.962	15	PASS	19.24	2.067	15	PASS

PERCENT RSD SUMMARY: 241029A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	52 Cr [2]				55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
CCB6	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
N069444-001B	SAMP	1	0.86	9.528	15	PASS	470.76	0.89	15	PASS
N069444-002B	SAMP	1	1.04	1.91	15	PASS	452.57	1.614	15	PASS
N069444-003B	SAMP	1	0.33	1.688	15	PASS	172.79	2.284	15	PASS
N069445-001B	SAMP	1	3.19	5.754	15	PASS	541.64	0.503	15	PASS
N069498-001B	SAMP	1	344.16	1.887	15	PASS	8.17	8.175	15	PASS
N069498-002B	SAMP	1	45.41	2.15	15	PASS	0.62	8.402	15	PASS
N069498-003B	SAMP	1	0.38	10.149	15	PASS	1439.09	1.633	15	PASS
N069498-005B	SAMP	1	534.53	0.942	15	PASS	5.46	4.72	15	PASS
N069498-006B	SAMP	1	1.5	4.677	15	PASS	6.03	3.943	15	PASS
CCV7	CCV	1	18.61	2.775	15	PASS	18.61	2.354	15	PASS
CCB7	CCB	1	0.01	73.053	15	<PQL	<0.000	N/A	15	<PQL
N069498-007B	SAMP	1	16.27	4.209	15	PASS	15.61	1.733	15	PASS
N069498-008B	SAMP	1	22.42	1.211	15	PASS	8.36	1.724	15	PASS
CCV8	CCV	1	19.5	1.003	15	PASS	19.19	2.997	15	PASS
CCB8	CCB	1	0	2068.587	15	<PQL	<0.000	N/A	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	19.76	2.561	15	PASS	19.36	4.596	15	PASS
CCV9	CCV	1	19.62	1.876	15	PASS	18.81	1.465	15	PASS
CCB9	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV10	CCV	1	18.8	0.963	15	PASS	18.76	0.927	15	PASS
CCB10	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV11	CCV	1	19.03	3.634	15	PASS	18.71	2.723	15	PASS
CCB11	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA5	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB5	ICSAB	1	19.98	1.144	15	PASS	19.49	2.375	15	PASS

PERCENT RSD SUMMARY: 241029A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	75 As [2]				78 Se [1]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.05	159.85	15	<PQL	0.09	85.12	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.57	43.613	15	FAIL	0.42	10.502	15	PASS
Std3-5/50 ppb	ICAL	1	4.77	9.31	15	PASS	5.44	17.444	15	FAIL
Std4-10/100 ppb	ICAL	1	9.83	1.718	15	PASS	10.42	2.957	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.78	2.34	15	PASS	19.55	1.718	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	38.85	2.086	15	PASS	40.58	3	15	PASS
Std7-100/1000 ppb	ICAL	1	99.89	3.127	15	PASS	102.5	4.018	15	PASS
Std8-200/2000 ppb	ICAL	1	200.32	0.71	15	PASS	198.65	1.939	15	PASS
ICV	ICV	1	10.66	3.15	15	PASS	10.11	6.283	15	PASS
ICB	ICB	1	<0.000	N/A	15	<PQL	0.02	173.205	15	<PQL
LLCCV1	CCV1	1	0.11	116.392	20	FAIL	0.12	78.241	20	<PQL
LLCCV2	CCV1	1	0.03	412.108	20	<PQL	0.58	31.557	20	FAIL
MLCCV1	CCV	1	19.91	2.652	15	PASS	20.35	7.738	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	0.07	86.603	15	<PQL
ICSAB1	ICSAB	1	20.07	4.043	15	PASS	20.03	6.39	15	PASS
CCV1	CCV	1	20.07	2.763	15	PASS	19.93	3.804	15	PASS
CCV1	CCV	1	19.49	4.234	15	PASS	19.11	6.05	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL	0.03	86.695	15	<PQL
CCV2	CCV	1	19.61	3.966	15	PASS	20.15	2.852	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL	0.01	173.205	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	0.03	173.205	15	<PQL
ICSAB2	ICSAB	1	20.35	3.963	15	PASS	20.57	3.884	15	PASS
CCV3	CCV	1	20.13	6.693	15	PASS	19.21	3.801	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL	0.03	86.608	15	<PQL
CCV4	CCV	1	19.9	3.446	15	PASS	18.67	2.538	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL	0	N/A	15	<PQL
CCV5	CCV	1	19.55	2.338	15	PASS	20.14	4.566	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL	0.02	173.205	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	0	N/A	15	<PQL
ICSAB3	ICSAB	1	20.8	4.519	15	PASS	20.2	2.184	15	PASS
MB-113638	MBLK	1	<0.000	N/A	15	<PQL	0.02	173.205	15	<PQL
LCS-113638	LCS	1	9.8	9.704	15	PASS	9.55	3.889	15	PASS
N069263-001B	SAMP	1	12.6	3.822	15	PASS	1.43	29.596	15	NR!
N069263-001B	SAMP	5	2.29	11.467	15	PASS	0.19	43.599	15	<PQL
N069263-001B-PS	PS	1	21.37	5.29	15	PASS	10.41	6.747	15	PASS
N069263-001B-MS	MS	1	22.44	6.121	15	PASS	10.38	4.625	15	PASS
N069263-001B-MSD	MSD	1	21.16	4.483	15	PASS	10.47	1.679	15	PASS
N069263-002B	SAMP	1	15.54	1.679	15	PASS	1.08	12.095	15	PASS
N069263-003B	SAMP	1	25.55	5.385	15	PASS	1.71	12.083	15	PASS
CCV6	CCV	1	20.64	4.165	15	PASS	19.51	6.672	15	PASS

PERCENT RSD SUMMARY: 241029A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	75 As [2]				78 Se [1]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
CCB6	CCB	1	<0.000	N/A	15	<PQL	0.01	173.205	15	<PQL
N069444-001B	SAMP	1	9.87	6.376	15	PASS	1.42	30.158	15	NR!
N069444-002B	SAMP	1	14.51	6.098	15	PASS	1.54	20.219	15	NR!
N069444-003B	SAMP	1	26.32	2.658	15	PASS	2.41	13.803	15	PASS
N069445-001B	SAMP	1	2.54	12.712	15	PASS	0.18	18.209	15	<PQL
N069498-001B	SAMP	1	1.65	4.352	15	PASS	5.91	11.644	15	PASS
N069498-002B	SAMP	1	1.82	27.476	15	NR!	3.44	24.021	15	NR!
N069498-003B	SAMP	1	0.75	18.993	15	NR!	0.06	99.28	15	<PQL
N069498-005B	SAMP	1	1.31	29.862	15	NR!	4.15	5.011	15	PASS
N069498-006B	SAMP	1	1.19	18.247	15	NR!	0.8	14.464	15	PASS
CCV7	CCV	1	19.58	4.684	15	PASS	19.81	2.458	15	PASS
CCB7	CCB	1	<0.000	N/A	15	<PQL	0.02	173.205	15	<PQL
N069498-007B	SAMP	1	0.99	19.302	15	NR!	1.02	27.17	15	NR!
N069498-008B	SAMP	1	0.92	33.84	15	NR!	0.96	47.496	15	NR!
CCV8	CCV	1	18.98	1.73	15	PASS	19.07	6.629	15	PASS
CCB8	CCB	1	<0.000	N/A	15	<PQL	0.03	173.205	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL	0.02	173.205	15	<PQL
ICSAB4	ICSAB	1	20.13	6.299	15	PASS	19.48	3.604	15	PASS
CCV9	CCV	1	20.1	3.311	15	PASS	19.83	2.921	15	PASS
CCB9	CCB	1	<0.000	N/A	15	<PQL	0.03	86.65	15	<PQL
CCV10	CCV	1	19.57	4.831	15	PASS	19.83	6.787	15	PASS
CCB10	CCB	1	<0.000	N/A	15	<PQL	0.02	173.205	15	<PQL
CCV11	CCV	1	20	3.743	15	PASS	19.4	4.669	15	PASS
CCB11	CCB	1	<0.000	N/A	15	<PQL	0.03	86.627	15	<PQL
ICSA5	ICSA	1	<0.000	N/A	15	<PQL	0.02	173.205	15	<PQL
ICSAB5	ICSAB	1	19.85	5.031	15	PASS	19.55	5.679	15	PASS

PERCENT RSD SUMMARY: 241029A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	95 Mo [2]			
			Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.08	12.289	15	PASS
Std2-0.5/5 ppb	ICAL	1	0.47	17.679	15	<PQL
Std3-5/50 ppb	ICAL	1	4.53	1.316	15	PASS
Std4-10/100 ppb	ICAL	1	9.61	2.948	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.24	2.506	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	38.41	2.215	15	PASS
Std7-100/1000 ppb	ICAL	1	97.95	0.689	15	PASS
Std8-200/2000 ppb	ICAL	1	201.45	1.938	15	PASS
ICV	ICV	1	9.79	1.109	15	PASS
ICB	ICB	1	0.11	18.65	15	<PQL
LLCCV1	CCV1	1	0.11	27.731	20	<PQL
LLCCV2	CCV1	1	0.53	3.583	20	PASS
MLCCV1	CCV	1	19.38	1.8	15	PASS
ICSA1	ICSA	1	0.04	28.954	15	<PQL
ICSAB1	ICSAB	1	19.2	1.563	15	PASS
CCV1	CCV	1	19.33	2.741	15	PASS
CCV1	CCV	1	19.98	1.76	15	PASS
CCB1	CCB	1	0.06	21.294	15	<PQL
CCV2	CCV	1	19.87	3.215	15	PASS
CCB2	CCB	1	0.05	34.055	15	<PQL
ICSA2	ICSA	1	0.01	63.875	15	<PQL
ICSAB2	ICSAB	1	19.74	0.658	15	PASS
CCV3	CCV	1	19.41	2.387	15	PASS
CCB3	CCB	1	0.04	14.609	15	PASS
CCV4	CCV	1	19.41	1.705	15	PASS
CCB4	CCB	1	0.04	54.135	15	<PQL
CCV5	CCV	1	19.65	2.035	15	PASS
CCB5	CCB	1	0.06	46.079	15	<PQL
ICSA3	ICSA	1	0.01	218.852	15	<PQL
ICSAB3	ICSAB	1	19.68	4.815	15	PASS
MB-113638	MBLK	1	0.04	62.137	15	<PQL
LCS-113638	LCS	1	9.58	1.295	15	PASS
N069263-001B	SAMP	1	24.13	3.624	15	PASS
N069263-001B	SAMP	5	4.94	2.722	15	PASS
N069263-001B-PS	PS	1	34.22	1.067	15	PASS
N069263-001B-MS	MS	1	33.99	2.952	15	PASS
N069263-001B-MSD	MSD	1	33.52	1.56	15	PASS
N069263-002B	SAMP	1	28.19	1.866	15	PASS
N069263-003B	SAMP	1	38.28	1.494	15	PASS
CCV6	CCV	1	19.49	4.097	15	PASS

PERCENT RSD SUMMARY: 241029A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	95 Mo [2]			
			Conc. [ppb]	RSD	Criteria	Comment
CCB6	CCB	1	0.04	50.952	15	<PQL
N069444-001B	SAMP	1	22.7	1.275	15	PASS
N069444-002B	SAMP	1	26.1	0.934	15	PASS
N069444-003B	SAMP	1	39.74	1.603	15	PASS
N069445-001B	SAMP	1	29.96	1.903	15	PASS
N069498-001B	SAMP	1	16.01	2.325	15	PASS
N069498-002B	SAMP	1	68.62	0.441	15	PASS
N069498-003B	SAMP	1	29.21	2.666	15	PASS
N069498-005B	SAMP	1	10.79	3.824	15	PASS
N069498-006B	SAMP	1	15.56	3.918	15	PASS
CCV7	CCV	1	20.09	0.55	15	PASS
CCB7	CCB	1	0.03	12.342	15	PASS
N069498-007B	SAMP	1	8.86	1.101	15	PASS
N069498-008B	SAMP	1	18.43	1.726	15	PASS
CCV8	CCV	1	19.33	4.28	15	PASS
CCB8	CCB	1	0.03	12.399	15	PASS
ICSA4	ICSA	1	0.02	49.559	15	<PQL
ICSAB4	ICSAB	1	19.86	0.818	15	PASS
CCV9	CCV	1	20.03	0.518	15	PASS
CCB9	CCB	1	0.04	112.303	15	<PQL
CCV10	CCV	1	19.61	0.473	15	PASS
CCB10	CCB	1	0.03	55.696	15	<PQL
CCV11	CCV	1	19.91	0.963	15	PASS
CCB11	CCB	1	0.06	73.002	15	<PQL
ICSA5	ICSA	1	0.01	176.914	15	<PQL
ICSAB5	ICSAB	1	19.8	1.612	15	PASS

PERCENT RSD SUMMARY: 241030B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	52 Cr [2]				55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Std1-0.1/1 ppb	ICAL	1	0.09	5.02	15	PASS	0.07	31.685	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.45	11.554	15	PASS	0.45	4.792	15	PASS
Std3-5/50 ppb	ICAL	1	4.49	2.095	15	PASS	4.65	2.997	15	PASS
Std4-10/100 ppb	ICAL	1	9.45	0.943	15	PASS	9.38	1.882	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	18.55	1.268	15	PASS	18.87	1.57	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	38.5	1.021	15	PASS	37.97	1.277	15	PASS
Std7-100/1000 ppb	ICAL	1	97.07	0.845	15	PASS	97.63	1.355	15	PASS
Std8-200/2000 ppb	ICAL	1	201.95	2.812	15	PASS	201.75	1.963	15	PASS
ICV	ICV	1	9.74	4.222	15	PASS	95.75	2.102	15	PASS
ICB	ICB	1	<0.000	N/A	15	<PQL	0.01	106.067	15	<PQL
LLCCV1	CCV	1	0.07	12.504	20	PASS	0.1	3.352	20	PASS
LLCCV2	CCV	1	1.01	3.447	20	PASS	0.55	5.551	20	PASS
MLCCV1	CCV	1	18.67	2.273	15	PASS	18.77	0.622	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	19.21	0.82	15	PASS	19.4	1.995	15	PASS
CCV1	CCV	1	18.61	1.881	15	PASS	18.38	0.781	15	PASS
CCB1	CCB	1	0.01	180.946	15	<PQL	<0.000	N/A	15	<PQL
CCV1	CCV	1	18.67	0.653	15	PASS	18.6	1.211	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	0	236.862	15	<PQL	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	19.28	3.139	15	PASS	19.53	1.499	15	PASS
N069263-001B	SAMP	10	0.05	29.032	15	<PQL	46.06	0.693	15	PASS
N069263-001B	SAMP	50	0.01	54.533	15	<PQL	8.88	4.55	15	PASS
N069263-001B-PS	PS	10	9.49	2.822	15	PASS	135.27	1.193	15	PASS
N069263-001B-MS	MS	10	1.04	2.506	15	PASS	55.27	0.627	15	PASS
N069263-001B-MSD	MSD	10	1.07	8.462	15	PASS	57.1	1.645	15	PASS
N069263-002B	SAMP	10	0.15	9.833	15	PASS	47.05	1.701	15	PASS
N069263-003B	SAMP	10	0.09	17.035	15	<PQL	37.57	0.328	15	PASS
N069444-001B	SAMP	10	0.09	15.823	15	<PQL	49.32	1.025	15	PASS
N069444-002B	SAMP	10	0.11	19.078	15	<PQL	48.31	1.863	15	PASS
N069445-001B	SAMP	10	0.35	6.377	15	PASS	57.6	1.046	15	PASS
CCV2	CCV	1	18.93	1.519	15	PASS	18.41	0.973	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
N069498-001B	SAMP	1	340.45	0.189	15	PASS	8.11	4.209	15	PASS
N069498-001B	SAMP	10	36.05	0.761	15	PASS	0.85	7.278	15	PASS
N069498-002B	SAMP	1	45.22	3.06	15	PASS	0.73	12.612	15	PASS
N069498-002B	SAMP	5	8.93	0.623	15	PASS	0.09	30.191	15	<PQL
N069498-003B	SAMP	1	0.44	4.636	15	PASS	1462.86	0.634	15	PASS
N069498-003B	SAMP	10	0.04	36.11	15	<PQL	143.81	0.435	15	PASS
N069498-005B	SAMP	1	523.93	1.361	15	PASS	5.55	0.7	15	PASS
N069498-005B	SAMP	10	52.6	0.84	15	PASS	0.62	3.518	15	PASS

PERCENT RSD SUMMARY: 241030B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	52 Cr [2]				55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
CCV3	CCV	1	18.47	2.21	15	PASS	18.36	0.516	15	PASS
CCB3	CCB	1	0.01	73.164	15	<PQL	<0.000	N/A	15	<PQL
N069498-006B	SAMP	1	1.5	8.056	15	PASS	6.11	6.775	15	PASS
N069498-007B	SAMP	1	16.03	3.801	15	PASS	15.83	1.394	15	PASS
N069498-008B	SAMP	1	21.67	2.597	15	PASS	8.34	3.089	15	PASS
CCV4	CCV	1	18.84	0.35	15	PASS	18.73	2.799	15	PASS
CCB4	CCB	1	0	214.779	15	<PQL	<0.000	N/A	15	<PQL
CCV5	CCV	1	18.72	1.388	15	PASS	18.62	2.884	15	PASS
CCB5	CCB	1	0	484.292	15	<PQL	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	0	93.054	15	<PQL	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	19.23	3.319	15	PASS	19.47	2.159	15	PASS
CCV6	CCV	1	18.72	2.741	15	PASS	18.84	2.01	15	PASS
CCB6	CCB	1	0	43.76	15	<PQL	0	742.63	15	<PQL
CCV7	CCV	1	17.96	0.785	15	PASS	18.6	2.445	15	PASS
CCB7	CCB	1	0	351.809	15	<PQL	<0.000	N/A	15	<PQL
CCV8	CCV	1	17.58	3.726	15	PASS	18.76	1.215	15	PASS
CCB8	CCB	1	0.01	208.256	15	<PQL	0	542.479	15	<PQL
ICSA4	ICSA	1	0.02	41.502	15	<PQL	0.03	176.405	15	<PQL
ICSAB4	ICSAB	1	19.05	2.699	15	PASS	19.78	3.194	15	PASS
N069498-001B	SAMP	1	329.13	3.73	15	PASS	8.6	3.466	15	PASS
N069498-002B	SAMP	1	44.15	1.612	15	PASS	0.8	16.222	15	NR!
N069498-003B	SAMP	1	0.45	19.128	15	<PQL	1413.21	2.087	15	PASS
N069498-005B	SAMP	1	495.75	3.212	15	PASS	5.57	6.602	15	PASS
N069498-006B	SAMP	1	1.57	5.294	15	PASS	5.92	6.713	15	PASS
N069498-007B	SAMP	1	15.37	0.452	15	PASS	15.91	1.278	15	PASS
N069498-008B	SAMP	1	20.48	4.401	15	PASS	8.53	4.598	15	PASS
CCV9	CCV	1	17.43	0.962	15	PASS	18.69	1.924	15	PASS
CCB9	CCB	1	0.02	37.275	15	<PQL	<0.000	N/A	15	<PQL
N069498-001B	SAMP	1	332.26	5.065	15	PASS	8.37	4.971	15	PASS
N069498-002B	SAMP	1	43.19	4.639	15	PASS	0.73	14.559	15	PASS
N069498-003B	SAMP	1	0.46	30.327	15	<PQL	1410	3.156	15	PASS
N069498-005B	SAMP	1	502.56	3.101	15	PASS	5.91	3.998	15	PASS
N069498-006B	SAMP	1	1.54	11.351	15	PASS	6	4.402	15	PASS
N069498-007B	SAMP	1	14.84	2.048	15	PASS	15.04	3.621	15	PASS
N069498-008B	SAMP	1	21.11	3.994	15	PASS	8.78	3.333	15	PASS
CCV10	CCV	1	17.19	3.563	15	PASS	18.8	2.297	15	PASS
CCB10	CCB	1	0.04	21.21	15	<PQL	0.02	147.12	15	<PQL
ICSA5	ICSA	1	0.06	18.016	15	<PQL	0.02	155.026	15	<PQL
ICSAB5	ICSAB	1	18.16	1.238	15	PASS	19.22	2.635	15	PASS

PERCENT RSD SUMMARY: 241030B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	75 As [2]				78 Se [1]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Std1-0.1/1 ppb	ICAL	1	0.1	9.321	15	PASS	0.08	26.874	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.49	15.395	15	FAIL	0.46	21.433	15	<PQL
Std3-5/50 ppb	ICAL	1	4.71	4.824	15	PASS	4.75	9.738	15	PASS
Std4-10/100 ppb	ICAL	1	8.82	2.976	15	PASS	9.12	6.565	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	18.29	3.824	15	PASS	18.53	8.26	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	38.12	3.636	15	PASS	37.71	1.694	15	PASS
Std7-100/1000 ppb	ICAL	1	98.84	1.153	15	PASS	96.78	1.317	15	PASS
Std8-200/2000 ppb	ICAL	1	201.19	3.198	15	PASS	202.27	2.099	15	PASS
ICV	ICV	1	9.81	4.637	15	PASS	9.48	1.795	15	PASS
ICB	ICB	1	0.02	95.2	15	<PQL	0.02	58.497	15	<PQL
LLCCV1	CCV	1	0.1	29.961	20	NR!	0.09	35.092	20	<PQL
LLCCV2	CCV	1	0.11	34.352	20	NR!	0.56	36.444	20	NR!
MLCCV1	CCV	1	19.01	4.49	15	PASS	18.43	0.616	15	PASS
ICSA1	ICSA	1	0.01	78.996	15	<PQL	0.01	149.758	15	<PQL
ICSAB1	ICSAB	1	18.84	1.925	15	PASS	18.79	1.187	15	PASS
CCV1	CCV	1	19.11	1.965	15	PASS	17.65	2.027	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL	0.03	1.487	15	PASS
CCV1	CCV	1	19.61	3.076	15	PASS	19.65	6.03	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL	0.01	159.935	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	0.01	328.167	15	<PQL
ICSAB2	ICSAB	1	20.03	1.474	15	PASS	19.29	4.18	15	PASS
N069263-001B	SAMP	10	1.21	11.216	15	PASS	0.13	52.999	15	<PQL
N069263-001B	SAMP	50	0.21	26.136	15	NR!	0.02	141.184	15	<PQL
N069263-001B-PS	PS	10	10.77	4.87	15	PASS	9.57	0.892	15	PASS
N069263-001B-MS	MS	10	2.11	8.848	15	PASS	1.08	10.827	15	PASS
N069263-001B-MSD	MSD	10	2.19	9.435	15	PASS	1.12	15.156	15	NR!
N069263-002B	SAMP	10	1.55	10.152	15	PASS	0.16	42.715	15	<PQL
N069263-003B	SAMP	10	2.49	9.766	15	PASS	0.17	25.097	15	<PQL
N069444-001B	SAMP	10	0.91	11.549	15	PASS	0.16	25.789	15	<PQL
N069444-002B	SAMP	10	1.33	13.355	15	PASS	0.17	30.941	15	<PQL
N069445-001B	SAMP	10	0.27	32.445	15	NR!	0.01	139.247	15	<PQL
CCV2	CCV	1	19.53	4.322	15	PASS	20.12	4.308	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL	0.01	150.205	15	<PQL
N069498-001B	SAMP	1	1.63	7.733	15	PASS	6.32	2.527	15	PASS
N069498-001B	SAMP	10	0.11	118.345	15	NR!	0.6	23.368	15	NR!
N069498-002B	SAMP	1	2.54	6.049	15	PASS	2.89	16.552	15	NR!
N069498-002B	SAMP	5	0.45	4.274	15	PASS	0.56	4.362	15	PASS
N069498-003B	SAMP	1	0.7	29.631	15	NR!	0.04	50.038	15	<PQL
N069498-003B	SAMP	10	0	521.76	15	<PQL	0	873.703	15	<PQL
N069498-005B	SAMP	1	1.69	8.981	15	PASS	3.78	3.616	15	PASS
N069498-005B	SAMP	10	0.11	102.04	15	NR!	0.43	28.641	15	<PQL

PERCENT RSD SUMMARY: 241030B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	75 As [2]				78 Se [1]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
CCV3	CCV	1	19.84	3.375	15	PASS	18.93	2.215	15	PASS
CCB3	CCB	1	0.01	531.95	15	<PQL	0.01	158.371	15	<PQL
N069498-006B	SAMP	1	1.43	24.44	15	NR!	0.89	9.558	15	PASS
N069498-007B	SAMP	1	1.21	10.663	15	PASS	1.11	10.694	15	PASS
N069498-008B	SAMP	1	0.85	25.022	15	NR!	1.08	23.148	15	NR!
CCV4	CCV	1	20.54	1.552	15	PASS	20.14	1.347	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL	0	590.246	15	<PQL
CCV5	CCV	1	21.3	3.169	15	PASS	19.73	8.721	15	PASS
CCB5	CCB	1	0.01	243.167	15	<PQL	0.02	228.225	15	<PQL
ICSA3	ICSA	1	0.03	60.172	15	<PQL	0	598.2	15	<PQL
ICSAB3	ICSAB	1	21.46	2.492	15	PASS	19.77	10.48	15	PASS
CCV6	CCV	1	21.69	4.886	15	PASS	19.76	5.293	15	PASS
CCB6	CCB	1	0.07	51.166	15	<PQL	<0.000	N/A	15	<PQL
CCV7	CCV	1	23.67	8.474	15	PASS	22.51	1.612	15	PASS
CCB7	CCB	1	0.1	53.9	15	<PQL	0.03	120.287	15	<PQL
CCV8	CCV	1	25.29	4.417	15	PASS	22.82	4.279	15	PASS
CCB8	CCB	1	0.08	40.839	15	<PQL	0.04	118.764	15	<PQL
ICSA4	ICSA	1	0.12	78.516	15	NR!	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	26.47	4.653	15	PASS	21	6.942	15	PASS
N069498-001B	SAMP	1	2.35	2.734	15	PASS	7.09	3.951	15	PASS
N069498-002B	SAMP	1	2.95	4.249	15	PASS	3.66	15.111	15	NR!
N069498-003B	SAMP	1	1.03	8.949	15	PASS	0.06	4.894	15	PASS
N069498-005B	SAMP	1	2	20.619	15	NR!	4.79	9.209	15	PASS
N069498-006B	SAMP	1	2.04	21.587	15	NR!	0.95	11.918	15	PASS
N069498-007B	SAMP	1	1.55	19.683	15	NR!	1.29	32.989	15	NR!
N069498-008B	SAMP	1	1.22	8.825	15	PASS	0.88	6.193	15	PASS
CCV9	CCV	1	24.92	2.138	15	PASS	23.17	3.638	15	PASS
CCB9	CCB	1	0.15	17.816	15	NR!	0.04	116.211	15	<PQL
N069498-001B	SAMP	1	2.32	4.14	15	PASS	7	11.713	15	PASS
N069498-002B	SAMP	1	3.26	9.542	15	PASS	3.29	17.083	15	NR!
N069498-003B	SAMP	1	0.99	11.157	15	PASS	0.05	97.146	15	<PQL
N069498-005B	SAMP	1	2.4	17.03	15	NR!	4.25	10.729	15	PASS
N069498-006B	SAMP	1	1.64	13.173	15	PASS	1.09	16.901	15	NR!
N069498-007B	SAMP	1	1.78	4.144	15	PASS	1.02	26.462	15	NR!
N069498-008B	SAMP	1	1.79	7.896	15	PASS	0.93	31.799	15	NR!
CCV10	CCV	1	26.52	9.81	15	PASS	25.2	5.494	15	PASS
CCB10	CCB	1	0.12	55.274	15	NR!	<0.000	N/A	15	<PQL
ICSA5	ICSA	1	0.25	40.894	15	NR!	0.01	256.034	15	<PQL
ICSAB5	ICSAB	1	28.09	6.374	15	PASS	24.03	2.381	15	PASS

PERCENT RSD SUMMARY: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	75 As [2]				78 Se [1]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.07	31.267	15	<PQL	0.08	36.466	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.49	18.652	15	FAIL	0.39	19.134	15	<PQL
Std3-5/50 ppb	ICAL	1	4.98	5.725	15	PASS	4.57	0.724	15	PASS
Std4-10/100 ppb	ICAL	1	9.44	7.267	15	PASS	9.06	5.089	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	18.8	4.353	15	PASS	18.35	2.233	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.94	4.285	15	PASS	38.66	3.275	15	PASS
Std7-100/1000 ppb	ICAL	1	95.88	2.592	15	PASS	96.18	0.94	15	PASS
Std8-200/2000 ppb	ICAL	1	202.22	1.143	15	PASS	202.4	1.077	15	PASS
ICV	ICV	1	9.84	0.64	15	PASS	10.08	6.658	15	PASS
ICB	ICB	1	<0.000	N/A	15	<PQL	0.01	171.077	15	<PQL
LLCCV1	CCV	1	0.1	60.127	20	NR!	0.07	39.213	20	<PQL
LLICV2	CCV	1	0.12	32.98	20	NR!	0.43	22.564	20	<PQL
MLCCV1	CCV	1	19.62	1.385	15	PASS	19.48	4.03	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	0.06	63.549	15	<PQL
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	0.01	177.885	15	<PQL
ICSAB1	ICSAB	1	19.31	0.281	15	PASS	19.33	6.385	15	PASS
CCV1	CCV	1	18.85	5.053	15	PASS	18.09	1.667	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL	0	5178.335	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	<0.000	0	15	PASS
ICSAB2	ICSAB	1	19.12	2.83	15	PASS	19.28	1.063	15	PASS
N069263-001B	SAMP	1	10.85	3.351	15	PASS	1.23	5.556	15	PASS
N069498-003B	SAMP	1	0.54	8.623	15	PASS	0.06	48.505	15	<PQL
N069498-006B	SAMP	1	1.39	5.095	15	PASS	0.77	13.028	15	PASS
N069498-008B	SAMP	1	0.77	4.983	15	PASS	1.03	11.248	15	PASS
CCV2	CCV	1	18.75	1.13	15	PASS	18.69	6.822	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL	0.04	118.513	15	<PQL
CCV3	CCV	1	17.97	0.752	15	PASS	19.33	0.588	15	PASS
CCB3	CCB	1	0.02	213.997	15	<PQL	0.01	171.851	15	<PQL
CCV4	CCV	1	18.35	6.145	15	PASS	18.93	4.464	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL	0.03	42.02	15	<PQL
CCV5	CCV	1	17.78	4.976	15	PASS	19.06	4.562	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL	0.02	55.817	15	<PQL
CCV6	CCV	1	18.6	5.378	15	PASS	19.18	3.356	15	PASS
CCB6	CCB	1	<0.000	N/A	15	<PQL	0.04	156.706	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	<0.000	0	15	PASS
ICSAB3	ICSAB	1	18.38	5.411	15	PASS	19.72	1.733	15	PASS
CCV7	CCV	1	17.87	0.863	15	PASS	19.79	3.314	15	PASS
CCB7	CCB	1	<0.000	N/A	15	<PQL	0.02	140.907	15	<PQL
CCV8	CCV	1	17.32	3.38	15	PASS	18.75	3.762	15	PASS
CCB8	CCB	1	<0.000	N/A	15	<PQL	0.04	59.778	15	<PQL

PERCENT RSD SUMMARY: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	75 As [2]				78 Se [1]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
CCV9	CCV	1	18.45	2.617	15	PASS	18.93	3.16	15	PASS
CCB9	CCB	1	<0.000	N/A	15	<PQL	0.01	156.136	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL	0.02	142.725	15	<PQL
ICSAB4	ICSAB	1	18.57	1.167	15	PASS	19.45	1.26	15	PASS

ANALYSIS RUN LOG



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INJECTION LOG: 241029A

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1029001.d	RINSE	ICAL	1	10/29/24 1:11 PM
A1029002.d	RINSE	ICAL	1	10/29/24 1:17 PM
A1029003.d	Cal Blk	IBLK	1	10/29/24 1:23 PM
A1029004.d	Std1-0.1/1 ppb	ICAL	1	10/29/24 1:29 PM
A1029005.d	Std2-0.5/5 ppb	ICAL	1	10/29/24 1:35 PM
A1029006.d	Std3-5/50 ppb	ICAL	1	10/29/24 1:41 PM
A1029007.d	Std4-10/100 ppb	ICAL	1	10/29/24 1:47 PM
A1029008.d	Std5-4.0/20/200 ppb	ICAL	1	10/29/24 1:53 PM
A1029009.d	Std6-8.0/40/400 ppb	ICAL	1	10/29/24 1:59 PM
A1029010.d	Std7-100/1000 ppb	ICAL	1	10/29/24 2:05 PM
A1029011.d	Std8-200/2000 ppb	ICAL	1	10/29/24 2:11 PM
A1029012.d	ICV	ICV	1	10/29/24 2:17 PM
A1029013.d	ICB	ICB	1	10/29/24 2:23 PM
A1029014.d	LLCCV1	CCV1	1	10/29/24 2:29 PM
A1029015.d	LLCCV2	CCV1	1	10/29/24 2:35 PM
A1029016.d	MLCCV1	CCV	1	10/29/24 2:41 PM
A1029017.d	ICSA1	ICSA	1	10/29/24 2:47 PM
A1029018.d	ICSAB1	ICSAB	1	10/29/24 2:53 PM
A1029019.d	MB-113637	MBLK	1	10/29/24 3:02 PM
A1029020.d	LCS-113637	LCS	1	10/29/24 3:16 PM
A1029021.d	N069266-007E	SAMP	1	10/29/24 3:22 PM
A1029022.d	N069266-007E	SAMP	5	10/29/24 3:28 PM
A1029023.d	N069266-007E-PS	PS	1	10/29/24 3:33 PM
A1029024.d	N069266-007E-MS	MS	1	10/29/24 3:39 PM
A1029025.d	N069266-007E-MSD	MSD	1	10/29/24 3:45 PM
A1029026.d	N069266-029F	SAMP	1	10/29/24 3:51 PM
A1029027.d	N069319-001E	SAMP	1	10/29/24 3:57 PM
A1029028.d	CCV1	CCV	1	10/29/24 4:03 PM
A1029029.d	CCV1	CCV	1	10/29/24 4:09 PM
A1029030.d	CCB1	CCB	1	10/29/24 4:15 PM
A1029031.d	N069233-009A	SAMP	1	10/29/24 4:21 PM
A1029032.d	N069233-009C	SAMP	1	10/29/24 4:26 PM
A1029033.d	N069233-015A	SAMP	1	10/29/24 4:32 PM
A1029034.d	N069233-015E	SAMP	1	10/29/24 4:38 PM
A1029035.d	CCV2	CCV	1	10/29/24 4:44 PM
A1029036.d	CCB2	CCB	1	10/29/24 4:50 PM
A1029037.d	ICSA2	ICSA	1	10/29/24 4:56 PM
A1029038.d	ICSAB2	ICSAB	1	10/29/24 5:02 PM
A1029039.d	N068846-001B	SAMP	1	10/29/24 5:07 PM
A1029040.d	N068846-001B	SAMP	5	10/29/24 5:13 PM
A1029041.d	N068846-001B-PS	PS	1	10/29/24 5:19 PM
A1029042.d	N068846-001B-MS	MS	1	10/29/24 5:25 PM

INJECTION LOG: 241029A

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1029043.d	N068846-001B-MSD	MSD	1	10/29/24 5:31 PM
A1029044.d	N069146-013C-MS	MS	1	10/29/24 5:37 PM
A1029045.d	N069146-013C-MS	MS	10	10/29/24 5:43 PM
A1029046.d	N069146-013C-MSD	MSD	1	10/29/24 5:49 PM
A1029047.d	N069146-013C-MSD	MSD	10	10/29/24 5:55 PM
A1029048.d	CCV3	CCV	1	10/29/24 6:00 PM
A1029049.d	CCB3	CCB	1	10/29/24 6:06 PM
A1029050.d	MB-113639	MBLK	1	10/29/24 6:12 PM
A1029051.d	LCS-113639	LCS	1	10/29/24 6:18 PM
A1029052.d	N069392-001A	SAMP	1	10/29/24 6:24 PM
A1029053.d	N069392-001A	SAMP	5	10/29/24 6:30 PM
A1029054.d	N069392-001A	SAMP	10	10/29/24 6:36 PM
A1029055.d	N069392-001A	SAMP	50	10/29/24 6:41 PM
A1029056.d	N069392-001A-PS	PS	1	10/29/24 6:47 PM
A1029057.d	N069392-001A-PS	PS	10	10/29/24 6:53 PM
A1029058.d	N069392-001A-MS	MS	1	10/29/24 6:59 PM
A1029059.d	N069392-001A-MS	MS	10	10/29/24 7:05 PM
A1029060.d	CCV4	CCV	1	10/29/24 7:11 PM
A1029061.d	CCB4	CCB	1	10/29/24 7:17 PM
A1029062.d	N069392-001A-MSD	MSD	1	10/29/24 7:23 PM
A1029063.d	N069392-001A-MSD	MSD	10	10/29/24 7:28 PM
A1029064.d	N069392-002A	SAMP	1	10/29/24 7:34 PM
A1029065.d	N069392-002A	SAMP	10	10/29/24 7:40 PM
A1029066.d	N069392-003A	SAMP	1	10/29/24 7:46 PM
A1029067.d	N069392-003A	SAMP	10	10/29/24 7:52 PM
A1029068.d	N069392-004A	SAMP	1	10/29/24 7:58 PM
A1029069.d	N069392-004A	SAMP	10	10/29/24 8:04 PM
A1029070.d	N069392-005A	SAMP	1	10/29/24 8:10 PM
A1029071.d	N069392-005A	SAMP	10	10/29/24 8:15 PM
A1029072.d	CCV5	CCV	1	10/29/24 8:21 PM
A1029073.d	CCB5	CCB	1	10/29/24 8:27 PM
A1029074.d	ICSA3	ICSA	1	10/29/24 8:33 PM
A1029075.d	ICSAB3	ICSAB	1	10/29/24 8:39 PM
A1029076.d	MB-113638	MBLK	1	10/29/24 8:45 PM
A1029077.d	LCS-113638	LCS	1	10/29/24 8:51 PM
A1029078.d	N069263-001B	SAMP	1	10/29/24 8:56 PM
A1029079.d	N069263-001B	SAMP	5	10/29/24 9:02 PM
A1029080.d	N069263-001B-PS	PS	1	10/29/24 9:08 PM
A1029081.d	N069263-001B-MS	MS	1	10/29/24 9:14 PM
A1029082.d	N069263-001B-MSD	MSD	1	10/29/24 9:20 PM
A1029083.d	N069263-002B	SAMP	1	10/29/24 9:26 PM
A1029084.d	N069263-003B	SAMP	1	10/29/24 9:32 PM

INJECTION LOG: 241029A

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1029085.d	RINSE	ICAL	1	10/29/24 9:38 PM
A1029086.d	CCV6	CCV	1	10/29/24 9:44 PM
A1029087.d	CCB6	CCB	1	10/29/24 9:49 PM
A1029088.d	N069444-001B	SAMP	1	10/29/24 9:55 PM
A1029089.d	N069444-002B	SAMP	1	10/29/24 10:01 PM
A1029090.d	N069444-003B	SAMP	1	10/29/24 10:07 PM
A1029091.d	N069445-001B	SAMP	1	10/29/24 10:13 PM
A1029092.d	N069498-001B	SAMP	1	10/29/24 10:19 PM
A1029093.d	N069498-002B	SAMP	1	10/29/24 10:25 PM
A1029094.d	N069498-003B	SAMP	1	10/29/24 10:31 PM
A1029095.d	N069498-005B	SAMP	1	10/29/24 10:37 PM
A1029096.d	N069498-006B	SAMP	1	10/29/24 10:43 PM
A1029097.d	RINSE	ICAL	1	10/29/24 10:49 PM
A1029098.d	CCV7	CCV	1	10/29/24 10:55 PM
A1029099.d	CCB7	CCB	1	10/29/24 11:00 PM
A1029100.d	N069498-007B	SAMP	1	10/29/24 11:06 PM
A1029101.d	N069498-008B	SAMP	1	10/29/24 11:12 PM
A1029102.d	RINSE	ICAL	1	10/29/24 11:18 PM
A1029103.d	CCV8	CCV	1	10/29/24 11:24 PM
A1029104.d	CCB8	CCB	1	10/29/24 11:30 PM
A1029105.d	ICSA4	ICSA	1	10/29/24 11:36 PM
A1029106.d	ICSAB4	ICSAB	1	10/29/24 11:41 PM
A1029107.d	MB-113640	MBLK	1	10/29/24 11:47 PM
A1029108.d	LCS-113640	LCS	1	10/29/24 11:53 PM
A1029109.d	N069263-001C	SAMP	1	10/29/24 11:59 PM
A1029110.d	N069263-001C	SAMP	5	10/30/24 12:05 AM
A1029111.d	N069263-001C-PS	PS	1	10/30/24 12:11 AM
A1029112.d	N069263-001C-MS	MS	1	10/30/24 12:17 AM
A1029113.d	N069263-001C-MSD	MSD	1	10/30/24 12:23 AM
A1029114.d	N069263-002C	SAMP	1	10/30/24 12:29 AM
A1029115.d	N069263-003C	SAMP	1	10/30/24 12:35 AM
A1029116.d	RINSE	ICAL	1	10/30/24 12:40 AM
A1029117.d	CCV9	CCV	1	10/30/24 12:46 AM
A1029118.d	CCB9	CCB	1	10/30/24 12:52 AM
A1029119.d	N069444-001C	SAMP	1	10/30/24 12:58 AM
A1029120.d	N069444-002C	SAMP	1	10/30/24 1:04 AM
A1029121.d	N069444-003C	SAMP	1	10/30/24 1:10 AM
A1029122.d	N069445-001C	SAMP	1	10/30/24 1:16 AM
A1029123.d	RINSE	ICAL	1	10/30/24 1:22 AM
A1029124.d	CCV10	CCV	1	10/30/24 1:28 AM
A1029125.d	CCB10	CCB	1	10/30/24 1:33 AM
A1029126.d	MB-113690	MBLK	1	10/30/24 1:39 AM

INJECTION LOG: 241029A**Instrument ID: NV00922-ICP8**

Data File	Sample Name	Type	DF	Acq. Date-Time
A1029127.d	LCS-113690	LCS	1	10/30/24 1:45 AM
A1029128.d	N069510-001A	SAMP	1	10/30/24 1:51 AM
A1029129.d	N069510-001A	SAMP	5	10/30/24 1:57 AM
A1029130.d	N069510-001A-PS	PS	1	10/30/24 2:03 AM
A1029131.d	N069510-001A-MS	MS	1	10/30/24 2:09 AM
A1029132.d	N069510-001A-MSD	MSD	1	10/30/24 2:14 AM
A1029133.d	RINSE	ICAL	1	10/30/24 2:20 AM
A1029134.d	CCV11	CCV	1	10/30/24 2:26 AM
A1029135.d	CCB11	CCB	1	10/30/24 2:32 AM
A1029136.d	ICSA5	ICSA	1	10/30/24 2:38 AM
A1029137.d	ICSAB5	ICSAB	1	10/30/24 2:44 AM
A1029138.d	RINSE	ICAL	1	10/30/24 2:49 AM
A1029139.d	RINSE	ICAL	1	10/30/24 2:55 AM
A1029140.d	RINSE	ICAL	1	10/30/24 3:01 AM

INJECTION LOG: 241030B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1030001.d	RINSE	ICAL	1	10/30/24 6:15 PM
B1030002.d	RINSE	ICAL	1	10/30/24 6:20 PM
B1030003.d	Cal Blk	IBLK	1	10/30/24 6:26 PM
B1030004.d	Std1-0.1/1 ppb	ICAL	1	10/30/24 6:32 PM
B1030005.d	Std2-0.5/5 ppb	ICAL	1	10/30/24 6:39 PM
B1030006.d	Std3-5/50 ppb	ICAL	1	10/30/24 6:45 PM
B1030007.d	Std4-10/100 ppb	ICAL	1	10/30/24 6:51 PM
B1030008.d	Std5-4.0/20/200 ppb	ICAL	1	10/30/24 6:57 PM
B1030009.d	Std6-8.0/40/400 ppb	ICAL	1	10/30/24 7:03 PM
B1030010.d	Std7-100/1000 ppb	ICAL	1	10/30/24 7:09 PM
B1030011.d	Std8-200/2000 ppb	ICAL	1	10/30/24 7:15 PM
B1030012.d	ICV	ICV	1	10/30/24 7:24 PM
B1030013.d	ICB	ICB	1	10/30/24 7:29 PM
B1030014.d	LLCCV1	CCV	1	10/30/24 7:35 PM
B1030015.d	LLCCV2	CCV	1	10/30/24 7:41 PM
B1030016.d	MLCCV1	CCV	1	10/30/24 7:50 PM
B1030017.d	ICSA1	ICSA	1	10/30/24 7:56 PM
B1030018.d	ICSAB1	ICSAB	1	10/30/24 8:01 PM
B1030019.d	N069392-003A	SAMP	1	10/30/24 8:07 PM
B1030020.d	N069392-005A	SAMP	1	10/30/24 8:13 PM
B1030021.d	N069233-004E	SAMP	5	10/30/24 8:19 PM
B1030022.d	N069146-013C	SAMP	1	10/30/24 8:25 PM
B1030023.d	RINSE	ICAL	1	10/30/24 8:31 PM
B1030024.d	CCV1	CCV	1	10/30/24 8:37 PM
B1030025.d	CCB1	CCB	1	10/30/24 8:43 PM
B1030026.d	CCV1	CCV	1	10/30/24 8:48 PM
B1030027.d	CCB1	CCB	1	10/30/24 8:54 PM
B1030028.d	ICSA2	ICSA	1	10/30/24 9:00 PM
B1030029.d	ICSAB2	ICSAB	1	10/30/24 9:06 PM
B1030030.d	N069263-001B	SAMP	10	10/30/24 9:12 PM
B1030031.d	N069263-001B	SAMP	50	10/30/24 9:18 PM
B1030032.d	N069263-001B-PS	PS	10	10/30/24 9:24 PM
B1030033.d	N069263-001B-MS	MS	10	10/30/24 9:30 PM
B1030034.d	N069263-001B-MSD	MSD	10	10/30/24 9:35 PM
B1030035.d	N069263-002B	SAMP	10	10/30/24 9:41 PM
B1030036.d	N069263-003B	SAMP	10	10/30/24 9:47 PM
B1030037.d	N069444-001B	SAMP	10	10/30/24 9:53 PM
B1030038.d	N069444-002B	SAMP	10	10/30/24 9:59 PM
B1030039.d	N069445-001B	SAMP	10	10/30/24 10:05 PM
B1030040.d	CCV2	CCV	1	10/30/24 10:11 PM
B1030041.d	CCB2	CCB	1	10/30/24 10:17 PM
B1030042.d	N069498-001B	SAMP	1	10/30/24 10:36 PM

INJECTION LOG: 241030B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1030043.d	N069498-001B	SAMP	10	10/30/24 10:42 PM
B1030044.d	N069498-002B	SAMP	1	10/30/24 10:48 PM
B1030045.d	N069498-002B	SAMP	5	10/30/24 10:54 PM
B1030046.d	N069498-003B	SAMP	1	10/30/24 11:00 PM
B1030047.d	N069498-003B	SAMP	10	10/30/24 11:06 PM
B1030048.d	N069498-005B	SAMP	1	10/30/24 11:12 PM
B1030049.d	N069498-005B	SAMP	10	10/30/24 11:18 PM
B1030050.d	CCV3	CCV	1	10/30/24 11:23 PM
B1030051.d	CCB3	CCB	1	10/30/24 11:29 PM
B1030052.d	N069498-006B	SAMP	1	10/30/24 11:35 PM
B1030053.d	N069498-007B	SAMP	1	10/30/24 11:41 PM
B1030054.d	N069498-008B	SAMP	1	10/30/24 11:47 PM
B1030055.d	RINSE	ICAL	1	10/30/24 11:53 PM
B1030056.d	CCV4	CCV	1	10/30/24 11:59 PM
B1030057.d	CCB4	CCB	1	10/31/24 12:05 AM
B1030058.d	MB-113640	MBLK	1	10/31/24 12:10 AM
B1030059.d	LCS-113640	LCS	1	10/31/24 12:16 AM
B1030060.d	N069263-001C	SAMP	10	10/31/24 12:22 AM
B1030061.d	N069263-001C	SAMP	50	10/31/24 12:28 AM
B1030062.d	N069263-001C-PS	PS	10	10/31/24 12:34 AM
B1030063.d	N069263-001C-MS	MS	10	10/31/24 12:40 AM
B1030064.d	N069263-001C-MSD	MSD	10	10/31/24 12:46 AM
B1030065.d	N069445-001C	SAMP	10	10/31/24 12:52 AM
B1030066.d	CCV5	CCV	1	10/31/24 12:58 AM
B1030067.d	CCB5	CCB	1	10/31/24 1:03 AM
B1030068.d	ICSA3	ICSA	1	10/31/24 1:09 AM
B1030069.d	ICSAB3	ICSAB	1	10/31/24 1:15 AM
B1030070.d	MB-113718	MBLK	1	10/31/24 1:21 AM
B1030071.d	LCS-113718	LCS	1	10/31/24 1:27 AM
B1030072.d	N069543-001B	SAMP	1	10/31/24 1:33 AM
B1030073.d	N069543-002B	SAMP	1	10/31/24 1:39 AM
B1030074.d	N069543-002B	SAMP	5	10/31/24 1:45 AM
B1030075.d	N069543-002B-PS	PS	1	10/31/24 1:51 AM
B1030076.d	N069543-002B-MS	MS	1	10/31/24 1:57 AM
B1030077.d	N069543-002B-MSD	MSD	1	10/31/24 2:02 AM
B1030078.d	N069543-003B	SAMP	1	10/31/24 2:08 AM
B1030079.d	RINSE	ICAL	1	10/31/24 2:14 AM
B1030080.d	CCV6	CCV	1	10/31/24 2:20 AM
B1030081.d	CCB6	CCB	1	10/31/24 2:26 AM
B1030082.d	N069543-004B	SAMP	1	10/31/24 2:32 AM
B1030083.d	N069543-005B	SAMP	1	10/31/24 2:38 AM
B1030084.d	N069543-006B	SAMP	1	10/31/24 2:44 AM

INJECTION LOG: 241030B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1030085.d	N069543-007B	SAMP	1	10/31/24 2:50 AM
B1030086.d	N069543-008B	SAMP	1	10/31/24 2:56 AM
B1030087.d	N069543-009B	SAMP	1	10/31/24 3:02 AM
B1030088.d	N069543-010B	SAMP	1	10/31/24 3:08 AM
B1030089.d	N069543-011B	SAMP	1	10/31/24 3:13 AM
B1030090.d	N069543-012B	SAMP	1	10/31/24 3:19 AM
B1030091.d	RINSE	ICAL	1	10/31/24 3:25 AM
B1030092.d	CCV7	CCV	1	10/31/24 3:31 AM
B1030093.d	CCB7	CCB	1	10/31/24 3:37 AM
B1030094.d	N069543-013B	SAMP	1	10/31/24 3:43 AM
B1030095.d	N069543-014B	SAMP	1	10/31/24 3:49 AM
B1030096.d	N069543-015B	SAMP	1	10/31/24 3:55 AM
B1030097.d	N069543-016B	SAMP	1	10/31/24 4:01 AM
B1030098.d	N069543-017B	SAMP	1	10/31/24 4:06 AM
B1030099.d	N069543-019B	SAMP	1	10/31/24 4:12 AM
B1030100.d	N069543-020B	SAMP	1	10/31/24 4:18 AM
B1030101.d	RINSE	ICAL	1	10/31/24 4:24 AM
B1030102.d	CCV8	CCV	1	10/31/24 4:30 AM
B1030103.d	CCB8	CCB	1	10/31/24 4:36 AM
B1030104.d	ICSA4	ICSA	1	10/31/24 4:42 AM
B1030105.d	ICSAB4	ICSAB	1	10/31/24 4:48 AM
B1030106.d	N069498-001B	SAMP	1	10/31/24 4:54 AM
B1030107.d	N069498-002B	SAMP	1	10/31/24 5:00 AM
B1030108.d	N069498-003B	SAMP	1	10/31/24 5:06 AM
B1030109.d	N069498-005B	SAMP	1	10/31/24 5:11 AM
B1030110.d	N069498-006B	SAMP	1	10/31/24 5:17 AM
B1030111.d	N069498-007B	SAMP	1	10/31/24 5:23 AM
B1030112.d	N069498-008B	SAMP	1	10/31/24 5:29 AM
B1030113.d	RINSE	ICAL	1	10/31/24 5:35 AM
B1030114.d	CCV9	CCV	1	10/31/24 5:41 AM
B1030115.d	CCB9	CCB	1	10/31/24 5:47 AM
B1030116.d	N069498-001B	SAMP	1	10/31/24 5:53 AM
B1030117.d	N069498-002B	SAMP	1	10/31/24 5:59 AM
B1030118.d	N069498-003B	SAMP	1	10/31/24 6:05 AM
B1030119.d	N069498-005B	SAMP	1	10/31/24 6:10 AM
B1030120.d	N069498-006B	SAMP	1	10/31/24 6:16 AM
B1030121.d	N069498-007B	SAMP	1	10/31/24 6:22 AM
B1030122.d	N069498-008B	SAMP	1	10/31/24 6:28 AM
B1030123.d	RINSE	ICAL	1	10/31/24 6:34 AM
B1030124.d	CCV10	CCV	1	10/31/24 6:40 AM
B1030125.d	CCB10	CCB	1	10/31/24 6:46 AM
B1030126.d	ICSA5	ICSA	1	10/31/24 6:52 AM

INJECTION LOG: 241030B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1030127.d	ICSAB5	ICSAB	1	10/31/24 6:57 AM
B1030128.d	RINSE	ICAL	1	10/31/24 7:03 AM
B1030129.d	RINSE	ICAL	1	10/31/24 7:09 AM
B1030130.d	RINSE	ICAL	1	10/31/24 7:15 AM

INJECTION LOG: 241101C

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1101001.d	RINSE	ICAL	1	11/01/24 8:03 PM
B1101002.d	RINSE	ICAL	1	11/01/24 8:09 PM
B1101003.d	RINSE	ICAL	1	11/01/24 8:14 PM
B1101004.d	Cal Blk	IBLK	1	11/01/24 8:20 PM
B1101005.d	Std1-0.1/1 ppb	ICAL	1	11/01/24 8:26 PM
B1101006.d	Std2-0.5/5 ppb	ICAL	1	11/01/24 8:32 PM
B1101007.d	Std3-5/50 ppb	ICAL	1	11/01/24 8:39 PM
B1101008.d	Std4-10/100 ppb	ICAL	1	11/01/24 8:45 PM
B1101009.d	Std5-4.0/20/200 ppb	ICAL	1	11/01/24 8:51 PM
B1101010.d	Std6-8.0/40/400 ppb	ICAL	1	11/01/24 8:57 PM
B1101011.d	Std7-100/1000 ppb	ICAL	1	11/01/24 9:03 PM
B1101012.d	Std8-200/2000 ppb	ICAL	1	11/01/24 9:09 PM
B1101013.d	ICV	ICV	1	11/01/24 9:33 PM
B1101014.d	ICB	ICB	1	11/01/24 9:39 PM
B1101015.d	LLCCV1	CCV1	1	11/01/24 9:45 PM
B1101016.d	LLCCV1	CCV1	1	11/01/24 9:51 PM
B1101017.d	MLCCV1	CCV	1	11/01/24 9:57 PM
B1101018.d	ICSA1	ICSA	1	11/01/24 10:03 PM
B1101019.d	ICSA1	ICSA	1	11/01/24 10:08 PM
B1101020.d	ICSAB1	ICSAB	1	11/01/24 10:14 PM
B1101022.d	N069234-002A	SAMP	1	11/01/24 10:20 PM
B1101023.d	N069234-002D	SAMP	1	11/01/24 10:26 PM
B1101024.d	N069234-007A	SAMP	1	11/01/24 10:32 PM
B1101025.d	N069234-007D	SAMP	1	11/01/24 10:38 PM
B1101026.d	N069234-016A	SAMP	1	11/01/24 10:44 PM
B1101027.d	N069234-016D	SAMP	1	11/01/24 10:50 PM
B1101028.d	RINSE	ICAL	1	11/01/24 10:56 PM
B1101029.d	CCV1	CCV	1	11/01/24 11:01 PM
B1101030.d	CCB1	CCB	1	11/01/24 11:07 PM
B1101031.d	ICSA2	ICSA	1	11/01/24 11:13 PM
B1101032.d	ICSAB2	ICSAB	1	11/01/24 11:19 PM
B1101033.d	N069263-001B	SAMP	1	11/01/24 11:25 PM
B1101034.d	N069498-003B	SAMP	1	11/01/24 11:31 PM
B1101035.d	N069498-006B	SAMP	1	11/01/24 11:37 PM
B1101036.d	N069498-008B	SAMP	1	11/01/24 11:43 PM
B1101037.d	CCV2	CCV	1	11/02/24 1:01 AM
B1101038.d	CCB2	CCB	1	11/02/24 1:07 AM
B1101039.d	MB-113718	MBLK	1	11/02/24 1:13 AM
B1101040.d	LCS-113718	LCS	1	11/02/24 1:19 AM
B1101041.d	N069543-001B	SAMP	1	11/02/24 1:25 AM
B1101042.d	N069543-002B	SAMP	1	11/02/24 1:31 AM
B1101043.d	N069543-002B	SAMP	5	11/02/24 1:37 AM

INJECTION LOG: 241101C

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1101044.d	N069543-002B	SAMP	10	11/02/24 1:43 AM
B1101045.d	N069543-002B	SAMP	50	11/02/24 1:49 AM
B1101046.d	N069543-002B-PS	PS	1	11/02/24 1:54 AM
B1101047.d	N069543-002B-PS	PS	10	11/02/24 2:00 AM
B1101048.d	CCV3	CCV	1	11/02/24 2:06 AM
B1101049.d	CCB3	CCB	1	11/02/24 2:12 AM
B1101050.d	N069543-002B-MS	MS	1	11/02/24 2:18 AM
B1101051.d	N069543-002B-MS	MS	10	11/02/24 2:24 AM
B1101052.d	N069543-002B-MSD	MSD	1	11/02/24 2:30 AM
B1101053.d	N069543-002B-MSD	MSD	10	11/02/24 2:36 AM
B1101054.d	N069543-003B	SAMP	1	11/02/24 2:42 AM
B1101055.d	N069543-003B	SAMP	10	11/02/24 2:48 AM
B1101056.d	N069543-004B	SAMP	1	11/02/24 2:54 AM
B1101057.d	N069543-005B	SAMP	1	11/02/24 3:00 AM
B1101058.d	N069543-006B	SAMP	1	11/02/24 3:06 AM
B1101059.d	RINSE	ICAL	1	11/02/24 3:12 AM
B1101060.d	CCV4	CCV	1	11/02/24 3:17 AM
B1101061.d	CCB4	CCB	1	11/02/24 3:23 AM
B1101062.d	N069543-007B	SAMP	1	11/02/24 3:29 AM
B1101063.d	N069543-008B	SAMP	1	11/02/24 3:35 AM
B1101064.d	N069543-009B	SAMP	1	11/02/24 3:41 AM
B1101065.d	N069543-010B	SAMP	1	11/02/24 3:47 AM
B1101066.d	N069543-011B	SAMP	1	11/02/24 3:53 AM
B1101067.d	N069543-012B	SAMP	1	11/02/24 3:59 AM
B1101068.d	N069543-013B	SAMP	1	11/02/24 4:05 AM
B1101069.d	N069543-014B	SAMP	1	11/02/24 4:11 AM
B1101070.d	N069543-015B	SAMP	1	11/02/24 4:17 AM
B1101071.d	RINSE	ICAL	1	11/02/24 4:23 AM
B1101072.d	CCV5	CCV	1	11/02/24 4:29 AM
B1101073.d	CCB5	CCB	1	11/02/24 4:35 AM
B1101074.d	N069543-016B	SAMP	1	11/02/24 4:40 AM
B1101075.d	N069543-017B	SAMP	1	11/02/24 4:46 AM
B1101076.d	N069543-019B	SAMP	1	11/02/24 4:52 AM
B1101077.d	N069543-020B	SAMP	1	11/02/24 4:58 AM
B1101078.d	RINSE	ICAL	1	11/02/24 5:04 AM
B1101079.d	CCV6	CCV	1	11/02/24 5:10 AM
B1101080.d	CCB6	CCB	1	11/02/24 5:16 AM
B1101081.d	ICSA3	ICSA	1	11/02/24 5:22 AM
B1101082.d	ICSAB3	ICSAB	1	11/02/24 5:28 AM
B1101083.d	MB-113746	MBLK	1	11/02/24 5:34 AM
B1101084.d	LCS-113746	LCS	1	11/02/24 5:39 AM
B1101085.d	N069542-001B	SAMP	1	11/02/24 5:45 AM

INJECTION LOG: 241101C

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1101086.d	N069542-002B	SAMP	1	11/02/24 5:51 AM
B1101087.d	N069542-003B	SAMP	1	11/02/24 5:57 AM
B1101088.d	N069582-002B	SAMP	1	11/02/24 6:03 AM
B1101089.d	N069582-003B	SAMP	1	11/02/24 6:09 AM
B1101090.d	N069582-004B	SAMP	1	11/02/24 6:15 AM
B1101091.d	N069582-005B	SAMP	1	11/02/24 6:21 AM
B1101092.d	RINSE	ICAL	1	11/02/24 6:27 AM
B1101093.d	CCV7	CCV	1	11/02/24 6:33 AM
B1101094.d	CCB7	CCB	1	11/02/24 6:39 AM
B1101095.d	N069582-006B	SAMP	1	11/02/24 6:44 AM
B1101096.d	N069583-001B	SAMP	1	11/02/24 6:50 AM
B1101097.d	N069583-002B	SAMP	1	11/02/24 6:56 AM
B1101098.d	N069583-003B	SAMP	1	11/02/24 7:02 AM
B1101099.d	N069583-003B	SAMP	5	11/02/24 7:08 AM
B1101100.d	N069583-003B-PS	PS	1	11/02/24 7:14 AM
B1101101.d	N069583-003BMS	MS	1	11/02/24 7:20 AM
B1101102.d	N069583-003BMSD	MSD	1	11/02/24 7:26 AM
B1101103.d	N069583-004B	SAMP	1	11/02/24 7:32 AM
B1101104.d	RINSE	ICAL	1	11/02/24 7:38 AM
B1101105.d	CCV8	CCV	1	11/02/24 7:44 AM
B1101106.d	CCB8	CCB	1	11/02/24 7:49 AM
B1101107.d	N069583-006B	SAMP	1	11/02/24 7:55 AM
B1101108.d	N069583-008B	SAMP	1	11/02/24 8:01 AM
B1101109.d	N069583-009B	SAMP	1	11/02/24 8:07 AM
B1101110.d	N069583-010B	SAMP	1	11/02/24 8:13 AM
B1101111.d	N069585-001B	SAMP	1	11/02/24 8:19 AM
B1101112.d	RINSE	ICAL	1	11/02/24 8:25 AM
B1101113.d	CCV9	CCV	1	11/02/24 8:31 AM
B1101114.d	CCB9	CCB	1	11/02/24 8:37 AM
B1101115.d	ICSA4	ICSA	1	11/02/24 8:42 AM
B1101116.d	ICSAB4	ICSAB	1	11/02/24 8:48 AM
B1101117.d	RINSE	ICAL	1	11/02/24 8:54 AM
B1101118.d	RINSE	ICAL	1	11/02/24 9:00 AM
B1101119.d	RINSE	ICAL	1	11/02/24 9:06 AM

SAMPLE PREPARATION LOG



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

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ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 10/29/2024 9:00:00 AM

Reviewed/ Date: *JRB* 11/12/2024

Page: 1 of 2

Prep End Date: 10/29/2024 1:00:00 PM

Initials/ Date: for _____

Prep Factor Units Temp. (°C): Location:

Prep Batch 113638 Prep Code: 3010_W_MSDISS_TPK

Technician: Diane Jetajobe

mL / mL 94.9 DB-4-35

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-113638	Aqueous		25	<input type="checkbox"/>	25	1.000		
50ML LOT# J96406-5447								
MB-113638	Aqueous		25	<input type="checkbox"/>	25	1.000		
THERMOMETER ID: DIGESTION 7								
N069263-001B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069263-001B-MS	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069263-001B-MSD	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069263-002B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069263-003B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069444-001B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069444-002B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069444-003B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069445-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069498-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17140	NITRIC ACID
17147	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-240815C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-240815D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-240815E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-240815F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: **10/29/2024 9:00:00 AM**

Reviewed/ Date: *JRB* **11/12/2024**

Page: 2 of 2

Prep End Date: **10/29/2024 1:00:00 PM**

Initials/ Date: for _____

Prep Factor Units Temp. (°C): Location:

Prep Batch **113638** Prep Code: **3010_W_MSDISS_TPK**

Technician: **Diane Jetajobe**

mL / mL **94.9 DB-4-35**

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N069498-002B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069498-003B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069498-005B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069498-006B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069498-007B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069498-008B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17140	NITRIC ACID
17147	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-240815C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-240815D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-240815E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-240815F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

INSTRUMENT TUNING CHECK



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CALIFORNIA
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NEVADA
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P: 702.307.2659 F: 702.307.2691

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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\241026A.b
Acq. Date-Time 2024-10-29 13:05:42
Report Comment ---
Instrument Name G8421A SG19193757

[No Gas]

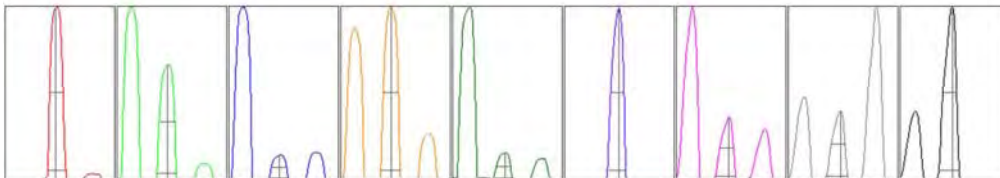
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	9399	93987.85	500.00		1.433	5.000
24	10.00	20512	205115.94	500.00		2.200	5.000
25	10.00	2715	27145.35	500.00		2.874	5.000
26	10.00	3156	31562.95	500.00		2.837	5.000
59	10.00	26510	265103.39	500.00		2.343	5.000
115	10.00	33834	338338.75	500.00		1.956	5.000
206	10.00	8347	83470.09	500.00		1.737	5.000
207	10.00	6620	66204.92	500.00		1.815	5.000
208	10.00	16536	165361.42	500.00		1.731	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.476 %
Doubly Charged 70 / 140 1.100 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	9356.56	8.90	8.90 - 9.10	
24	20330.90	23.90	23.90 - 24.10	
25	2765.32	24.90	24.90 - 25.10	
26	3141.98	25.90	25.90 - 26.10	
59	25661.69	58.95	58.90 - 59.10	
115	32431.06	115.00	114.90 - 115.10	
206	8419.50	205.95	205.90 - 206.10	
207	6909.01	206.95	206.90 - 207.10	
208	17569.19	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.37	0.486	0.900	
24	0.43	0.537	0.900	
25	0.42	0.522	0.900	
26	0.42	0.535	0.900	
59	0.39	0.496	0.900	
115	0.37	0.490	0.900	
206	0.38	0.566	0.900	
207	0.38	0.584	0.900	
208	0.38	0.575	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.07 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	2.0 mm	Torch V	1.6 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2631 V Pulse HV 1855 V

[H2]

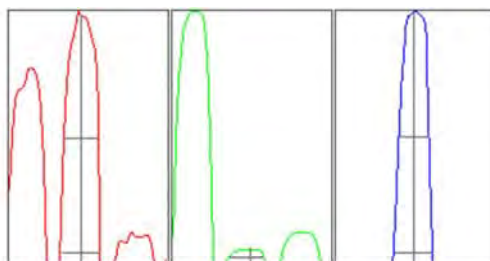
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		151	1510.87			7.910	
59		2572	25721.87			2.444	
115		24801	248007.43			1.906	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.373 %
 Doubly Charged 70 / 140 0.323 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	160.76	25.90	25.90 - 26.10	
59	2609.38	59.00	58.90 - 59.10	
115	25686.72	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.64	0.742	0.900	
59	0.64	0.774	0.900	
115	0.57	0.733	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.07 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0007	QP Bias	-15.0 V
Mass Offset	126	Axis Offset	-0.07		

Hardware Settings

Torch

Torch H	2.0 mm	Torch V	1.6 mm
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EM

Discriminator	4.5 mV	Analog HV	2631 V	Pulse HV	1855 V
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[He]

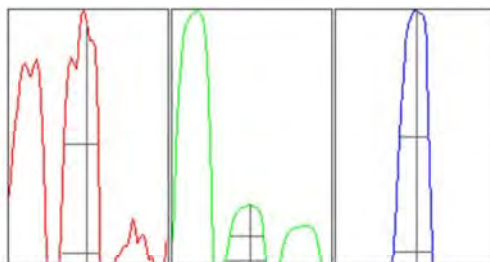
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		66	658.61			12.197	
59		4831	48305.40			1.819	
115		4182	41819.14			2.310	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.152 %
Doubly Charged	70 / 140 1.104 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	73.00	26.00	25.90 - 26.10	
59	4929.73	59.00	58.90 - 59.10	
115	4326.51	115.05	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.63	0.741	0.900	
59	0.63	0.770	0.900	
115	0.56	0.731	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.07 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0007	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	-0.07		

Hardware Settings

Torch

Torch H	2.0 mm	Torch V	1.6 mm
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EM

Discriminator	4.5 mV	Analog HV	2631 V	Pulse HV	1855 V
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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\241029A.b
Acq. Date-Time 2024-10-30 11:32:42
Report Comment --
Instrument Name G8421A SG19193757

[No Gas]

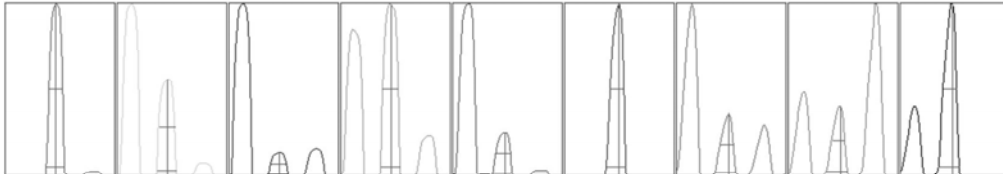
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	14718	147182.52	500.00		1.880	5.000
24	10.00	30724	307240.74	500.00		2.558	5.000
25	10.00	4034	40338.57	500.00		2.808	5.000
26	10.00	4605	46053.25	500.00		3.076	5.000
59	10.00	38189	381893.25	500.00		3.007	5.000
115	10.00	46885	468854.57	500.00		2.623	5.000
206	10.00	10271	102707.30	500.00		1.950	5.000
207	10.00	8019	80190.23	500.00		2.486	5.000
208	10.00	20223	202231.10	500.00		2.308	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.964 %
Doubly Charged 70 / 140 1.064 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	15037.83	8.90	8.90 - 9.10	
24	30065.80	23.90	23.90 - 24.10	
25	3951.19	24.90	24.90 - 25.10	
26	4635.20	25.90	25.90 - 26.10	
59	36696.04	58.95	58.90 - 59.10	
115	44691.17	115.00	114.90 - 115.10	
206	10373.15	205.95	205.90 - 206.10	
207	8481.76	206.95	206.90 - 207.10	
208	21120.23	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.38	0.489	0.900	
24	0.45	0.541	0.900	
25	0.44	0.544	0.900	
26	0.43	0.540	0.900	
59	0.41	0.535	0.900	
115	0.38	0.528	0.900	
206	0.37	0.580	0.900	
207	0.37	0.593	0.900	
208	0.38	0.583	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.07 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.8 mm	Torch V	1.5 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2628 V Pulse HV 1853 V

[H2]

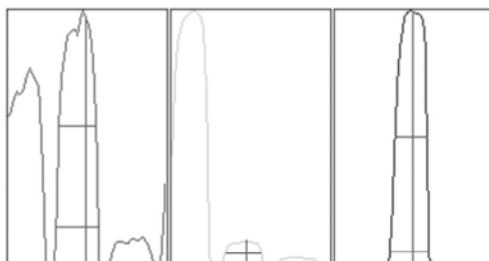
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		231	2309.76			7.634	
59		3389	33894.49			2.902	
115		36414	364137.90			2.148	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.762 %
 Doubly Charged 70 / 140 0.352 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	252.78	26.00	25.90 - 26.10	
59	3554.41	58.95	58.90 - 59.10	
115	37563.66	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.68	0.804	0.900	
59	0.66	0.746	0.900	
115	0.61	0.734	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.07 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	132	Axis Gain	1.0007	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	-0.09		

Hardware Settings

Torch

Torch H	1.8 mm	Torch V	1.5 mm
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EM

Discriminator	4.5 mV	Analog HV	2628 V	Pulse HV	1853 V
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[He]

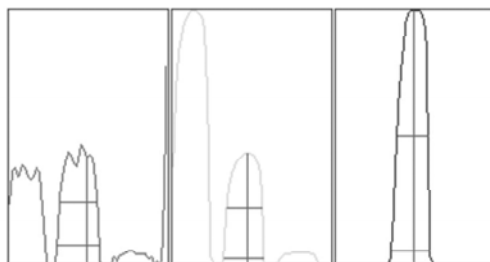
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		101	1011.03			10.946	
59		7478	74782.43			1.944	
115		6284	62841.32			2.413	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.307 %
Doubly Charged	70 / 140 1.135 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	95.26	26.00	25.90 - 26.10	
59	7663.12	58.95	58.90 - 59.10	
115	6364.13	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.69	0.801	0.900	
59	0.66	0.746	0.900	
115	0.59	0.732	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.07 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	132	Axis Gain	1.0007	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.09		

Hardware Settings

Torch

Torch H	1.8 mm	Torch V	1.5 mm
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EM

Discriminator	4.5 mV	Analog HV	2628 V	Pulse HV	1853 V
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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\241031A2.b
Acq. Date-Time 2024-11-01 08:40:26
Report Comment ---
Instrument Name G8421A SG19193757

[No Gas]

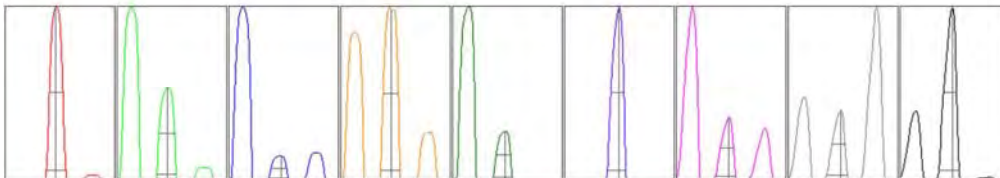
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	7356	73559.99	500.00		2.032	5.000
24	10.00	20517	205168.32	500.00		2.486	5.000
25	10.00	2713	27133.34	500.00		3.226	5.000
26	10.00	3106	31059.03	500.00		2.715	5.000
59	10.00	30751	307510.11	500.00		3.166	5.000
115	10.00	39048	390475.77	500.00		1.887	5.000
206	10.00	8592	85918.90	500.00		1.818	5.000
207	10.00	6781	67813.70	500.00		1.630	5.000
208	10.00	16982	169817.76	500.00		1.559	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.370 %
Doubly Charged 70 / 140 0.996 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	7530.09	8.90	8.90 - 9.10	
24	20369.50	23.90	23.90 - 24.10	
25	2614.33	24.95	24.90 - 25.10	
26	3048.83	25.90	25.90 - 26.10	
59	29609.26	58.95	58.90 - 59.10	
115	37460.70	115.00	114.90 - 115.10	
206	8565.55	205.95	205.90 - 206.10	
207	7135.03	206.95	206.90 - 207.10	
208	17872.34	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.38	0.526	0.900	
24	0.43	0.539	0.900	
25	0.43	0.533	0.900	
26	0.42	0.537	0.900	
59	0.40	0.498	0.900	
115	0.37	0.490	0.900	
206	0.37	0.559	0.900	
207	0.36	0.582	0.900	
208	0.36	0.573	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.2 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2635 V Pulse HV 1863 V

[H2]

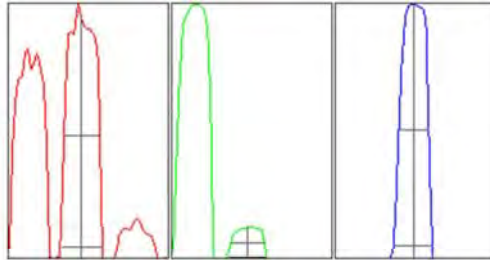
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		163	1628.88			9.264	
59		3302	33015.53			3.035	
115		32124	321242.76			1.905	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.266 %
 Doubly Charged 70 / 140 0.332 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	160.26	25.90	25.90 - 26.10	
59	3418.62	58.95	58.90 - 59.10	
115	33020.69	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.67	0.788	0.900	
59	0.63	0.738	0.900	
115	0.57	0.732	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0003	QP Bias	-15.0 V
Mass Offset	126	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2635 V	Pulse HV	1863 V
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[He]

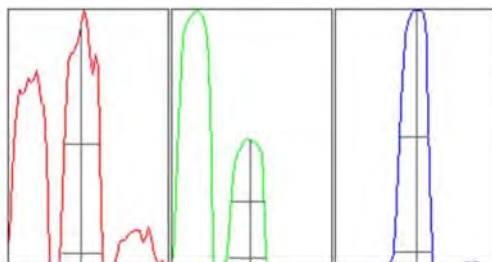
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		68	684.01			14.980	
59		5890	58899.04			2.185	
115		5350	53501.17			2.585	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.114 %
Doubly Charged	70 / 140 1.167 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	72.75	25.90	25.90 - 26.10	
59	6029.36	59.00	58.90 - 59.10	
115	5411.85	115.05	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.66	0.790	0.900	
59	0.62	0.740	0.900	
115	0.56	0.730	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0003	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2635 V	Pulse HV	1863 V
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INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INITIAL CALIBRATION SUMMARY: 241029A

Instrument ID: NV00922-ICP8

Analyte	Data File	A1029003.d	A1029004.d	A1029005.d	A1029006.d	A1029007.d	A1029008.d	A1029009.d	A1029010.d	A1029011.d	R
	Acq. Date-Time	10/29/2024 01:23 PM	10/29/2024 01:29 PM	10/29/2024 01:35 PM	10/29/2024 01:41 PM	10/29/2024 01:47 PM	10/29/2024 01:53 PM	10/29/2024 01:59 PM	10/29/2024 02:05 PM	10/29/2024 02:11 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
	Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	
45 Sc (ISTD) [2]	CPS	14215		14245	14513	14023.7	14574.2	14664.3	14527.5	14595.3	
55 Mn [2]	CPS	80		288.9	2488	5127.5	10338.8	20066.6	51263.3	103155.2	1.0000
52 Cr [2]	CPS	71.1		547.8	4827.4	9635.1	19542.6	38955.6	98477.3	199753.5	1.0000
72 Ge (ISTD) [1]	CPS	26771.9		26433.5	26335.6	26048.5	26643.9	26108.6	26396.9	27000	
78 Se [1]	CPS	0		30	382.2	724.5	1391.2	2828	7225	14323	0.9999
72 Ge (ISTD) [2]	CPS	7952	7754.1	7587.3	7751.9	7878.6	7833	7816.3	7937.5	7847.5	
75 As [2]	CPS	17.8	22.2	78.9	546.7	1127.8	2236.8	4366.2	11368.4	22542.3	1.0000
103 Rh (ISTD) [2]	CPS	214574.7		214123.2	213972.7	212120.6	214109.7	213299.3	215156.3	213436.1	
95 Mo [2]	CPS	4.4		250	2391.3	5025.2	10148.8	20188.3	51916.8	105911.7	0.9999

Standard Code
ICAL: 2MSST-240311B
ICAL: 2MSST-240311C
ICAL: 2MWST-240815K
ICV: 2MWST-240815G
LLICV: 2MWST-240815J
IS Mix: 2MWST-240815A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION SUMMARY: 241030B

Instrument ID: NV00922-ICP8

Analyte	Data File	B1030003.d	B1030004.d	B1030005.d	B1030006.d	B1030007.d	B1030008.d	B1030009.d	B1030010.d	B1030011.d	R
	Acq. Date-Time	10/30/2024 06:26 PM	10/30/2024 06:32 PM	10/30/2024 06:39 PM	10/30/2024 06:45 PM	10/30/2024 06:51 PM	10/30/2024 06:57 PM	10/30/2024 07:03 PM	10/30/2024 07:09 PM	10/30/2024 07:15 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L		
45 Sc (ISTD) [2]	CPS	30470		29535	29740.9	29404.8	29631.8	29061.9	28853.8	28188.2	
55 Mn [2]	CPS	96.7		572.2	5038.6	9970.8	20101.1	39587.2	100889.6	203596.1	0.9999
52 Cr [2]	CPS	92.2		1024.5	9483.8	19649.4	38779.6	78840.5	197204.4	400699.4	0.9998
72 Ge (ISTD) [1]	CPS	54112.4		52985.4	53290.9	52610.8	53586.3	52026.9	52798.2	49903.5	
78 Se [1]	CPS	1.1		80	821.1	1554.5	3214.8	6356.8	16549.5	32690.5	0.9998
72 Ge (ISTD) [2]	CPS	16338.2	15618.6	15508.5	15895.5	16036.8	15718.7	15587.5	15168.2	15172.6	
75 As [2]	CPS	21.1	46.7	143.3	1238.9	2323.5	4700.7	9696.2	24419.4	49686.4	0.9999

Standard Code
ICAL: 2MSST-240311B
ICAL: 2MSST-240311C
ICAL: 2MWST-240815K
ICV: 2MWST-240815G
LLICV: 2MWST-240815J
IS Mix: 2MWST-240815A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION SUMMARY: 241101C

Instrument ID: NV00922-ICP8

Analyte	Data File	B1101004.d	B1101005.d	B1101006.d	B1101007.d	B1101008.d	B1101009.d	B1101010.d	B1101011.d	B1101012.d	R
	Acq. Date-Time	11/01/2024 08:20 PM	11/01/2024 08:26 PM	11/01/2024 08:32 PM	11/01/2024 08:39 PM	11/01/2024 08:45 PM	11/01/2024 08:51 PM	11/01/2024 08:57 PM	11/01/2024 09:03 PM	11/01/2024 09:09 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
	Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	
72 Ge (ISTD) [1]	CPS	62044.8		61219.4	61029.9	61363.3	61225.1	60591.6	58450.6	56620.9	
78 Se [1]	CPS	1.1		63.3	720	1432.3	2895.8	6034.5	14479.8	29513.4	0.9997
72 Ge (ISTD) [2]	CPS	17199.1	17383.7	17099	17053.4	16748.6	16859.8	16586.2	16517.2	15996.8	
75 As [2]	CPS	8.9	25.6	126.7	1202.3	2231.3	4457.3	9311.6	22255.2	45449.7	0.9997

Standard Code
ICAL: 2MSST-240311B
ICAL: 2MSST-240311C
ICAL: 2MWST-240815K
ICV: 2MWST-240815G
LLICV: 2MWST-240815J
IS Mix: 2MWST-240815A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: ICV	Batch ID: R194972	TestNo: EPA 6020		Analysis Date: 10/29/2024	SeqNo: 6273980						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	10.664	0.10	10.00	0	107	90	110				
Manganese	101.907	0.50	100.0	0	102	90	110				
Molybdenum	9.789	0.50	10.00	0	97.9	90	110				
Selenium	10.107	0.50	10.00	0	101	90	110				

Sample ID LLCCV1	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: ZZZZZZ	Batch ID: R194972	TestNo: EPA 6020		Analysis Date: 10/29/2024	SeqNo: 6273982						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.113	0.10	0.1000	0	113	80	120				
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Sample ID LLCCV2	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: ZZZZZZ	Batch ID: R194972	TestNo: EPA 6020		Analysis Date: 10/29/2024	SeqNo: 6273983						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	0.564	0.50	0.5000	0	113	80	120				
Molybdenum	0.533	0.50	0.5000	0	107	80	120				
Selenium	0.583	0.50	0.5000	0	117	80	120				

Sample ID MLCCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: CCV	Batch ID: R194972	TestNo: EPA 6020		Analysis Date: 10/29/2024	SeqNo: 6273984						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.913	0.10	20.00	0	99.6	90	110				
Manganese	19.340	0.50	20.00	0	96.7	90	110				
Molybdenum	19.380	0.50	20.00	0	96.9	90	110				
Selenium	20.346	0.50	20.00	0	102	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: CCV	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6273997							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.486	0.10	20.00	0	97.4	90	110				
Manganese	18.768	0.50	20.00	0	93.8	90	110				
Molybdenum	19.977	0.50	20.00	0	99.9	90	110				
Selenium	19.108	0.50	20.00	0	95.5	90	110				

Sample ID CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: CCV	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274003							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.607	0.10	20.00	0	98.0	90	110				
Manganese	19.544	0.50	20.00	0	97.7	90	110				
Molybdenum	19.875	0.50	20.00	0	99.4	90	110				
Selenium	20.146	0.50	20.00	0	101	90	110				

Sample ID CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: CCV	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274016							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.129	0.10	20.00	0	101	90	110				
Manganese	18.607	0.50	20.00	0	93.0	90	110				
Molybdenum	19.408	0.50	20.00	0	97.0	90	110				
Selenium	19.206	0.50	20.00	0	96.0	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: CCV	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274028							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.900	0.10	20.00	0	99.5	90	110				
Manganese	19.250	0.50	20.00	0	96.2	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: CCV	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274028							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	19.414	0.50	20.00	0	97.1	90	110				
Selenium	18.674	0.50	20.00	0	93.4	90	110				

Sample ID CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: CCV	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274040							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.549	0.10	20.00	0	97.7	90	110				
Manganese	18.745	0.50	20.00	0	93.7	90	110				
Molybdenum	19.653	0.50	20.00	0	98.3	90	110				
Selenium	20.135	0.50	20.00	0	101	90	110				

Sample ID CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: CCV	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274053							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.637	0.10	20.00	0	103	90	110				
Manganese	19.238	0.50	20.00	0	96.2	90	110				
Molybdenum	19.487	0.50	20.00	0	97.4	90	110				
Selenium	19.514	0.50	20.00	0	97.6	90	110				

Sample ID CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: CCV	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274064							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.576	0.10	20.00	0	97.9	90	110				
Manganese	18.612	0.50	20.00	0	93.1	90	110				
Molybdenum	20.092	0.50	20.00	0	100	90	110				
Selenium	19.811	0.50	20.00	0	99.1	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV8	SampType: CCV	TestCode: 6020_DIS_TP Units: µg/L				Prep Date:			RunNo: 194972		
Client ID: CCV	Batch ID: R194972	TestNo: EPA 6020				Analysis Date: 10/29/2024			SeqNo: 6274068		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.977	0.10	20.00	0	94.9	90	110				
Manganese	19.185	0.50	20.00	0	95.9	90	110				
Molybdenum	19.326	0.50	20.00	0	96.6	90	110				
Selenium	19.066	0.50	20.00	0	95.3	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: ICV	Batch ID: R195051	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6278620							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.810	0.10	10.00	0	98.1	90	110				
Manganese	95.755	0.50	100.0	0	95.8	90	110				
Molybdenum	9.469	0.50	10.00	0	94.7	90	110				
Selenium	9.481	0.50	10.00	0	94.8	90	110				

Sample ID LLCCV2	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: ZZZZZ	Batch ID: R195051	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6278623							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.112	0.10	0.1000	0	112	80	120				
Manganese	0.552	0.50	0.5000	0	110	80	120				
Molybdenum	0.489	0.50	0.5000	0	97.9	80	120				
Selenium	0.555	0.50	0.5000	0	111	80	120				

Sample ID MLCCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: CCV	Batch ID: R195051	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6278624							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.008	0.10	20.00	0	95.0	90	110				
Manganese	18.765	0.50	20.00	0	93.8	90	110				
Molybdenum	18.122	0.50	20.00	0	90.6	90	110				
Selenium	18.430	0.50	20.00	0	92.1	90	110				

Sample ID CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: CCV	Batch ID: R195051	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6278633							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.614	0.10	20.00	0	98.1	90	110				
Manganese	18.604	0.50	20.00	0	93.0	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: CCV	Batch ID: R195051	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6278633							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	18.139	0.50	20.00	0	90.7	90	110				
Selenium	19.648	0.50	20.00	0	98.2	90	110				

Sample ID CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: CCV	Batch ID: R195051	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6278647							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.529	0.10	20.00	0	97.6	90	110				
Manganese	18.413	0.50	20.00	0	92.1	90	110				
Molybdenum	18.048	0.50	20.00	0	90.2	90	110				
Selenium	20.117	0.50	20.00	0	101	90	110				

Sample ID CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: CCV	Batch ID: R195051	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6278657							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.844	0.10	20.00	0	99.2	90	110				
Manganese	18.360	0.50	20.00	0	91.8	90	110				
Molybdenum	18.230	0.50	20.00	0	91.1	90	110				
Selenium	18.932	0.50	20.00	0	94.7	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: CCV	Batch ID: R195051	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6278662							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.542	0.10	20.00	0	103	90	110				
Manganese	18.731	0.50	20.00	0	93.7	90	110				
Molybdenum	18.518	0.50	20.00	0	92.6	90	110				
Selenium	20.138	0.50	20.00	0	101	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV5	SampType: CCV	TestCode: 6020_DIS_TP Units: µg/L				Prep Date:			RunNo: 195051		
Client ID: CCV	Batch ID: R195051	TestNo: EPA 6020				Analysis Date: 10/31/2024			SeqNo: 6278672		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	21.304	0.10	20.00	0	107	90	110				
Manganese	18.623	0.50	20.00	0	93.1	90	110				
Molybdenum	18.295	0.50	20.00	0	91.5	90	110				
Selenium	19.733	0.50	20.00	0	98.7	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195127						
Client ID: ICV	Batch ID: R195127	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282638							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	10.076	0.50	10.00	0	101	90	110				

Sample ID LLCCV2	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195127						
Client ID: ZZZZZ	Batch ID: R195127	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282641							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	0.432	0.50	0.5000	0	86.4	80	120				

Sample ID MLCCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195127						
Client ID: CCV	Batch ID: R195127	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282642							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	19.477	0.50	20.00	0	97.4	90	110				

Sample ID CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195127						
Client ID: CCV	Batch ID: R195127	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282652							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	18.094	0.50	20.00	0	90.5	90	110				

Sample ID CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195127						
Client ID: CCV	Batch ID: R195127	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282660							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	18.689	0.50	20.00	0	93.4	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195127						
Client ID: CCV	Batch ID: R195127	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282671							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	19.333	0.50	20.00	0	96.7	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195127						
Client ID: CCV	Batch ID: R195127	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282682							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	18.927	0.50	20.00	0	94.6	90	110				

Sample ID CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195127						
Client ID: CCV	Batch ID: R195127	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282693							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	19.058	0.50	20.00	0	95.3	90	110				

Sample ID CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195127						
Client ID: CCV	Batch ID: R195127	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282699							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	19.176	0.50	20.00	0	95.9	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195128						
Client ID: ICV	Batch ID: R195128	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282734							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.839	0.10	10.00	0	98.4	90	110				
Selenium	10.076	0.50	10.00	0	101	90	110				

Sample ID LLCCV1	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195128						
Client ID: ZZZZZ	Batch ID: R195128	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282736							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.102	0.10	0.1000	0	102	80	120				

Sample ID LLCCV2	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195128						
Client ID: ZZZZZ	Batch ID: R195128	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282737							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	0.432	0.50	0.5000	0	86.4	80	120				

Sample ID MLCCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195128						
Client ID: CCV	Batch ID: R195128	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282738							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.620	0.10	20.00	0	98.1	90	110				
Selenium	19.477	0.50	20.00	0	97.4	90	110				

Sample ID CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195128						
Client ID: CCV	Batch ID: R195128	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282748							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.848	0.10	20.00	0	94.2	90	110				
Selenium	18.094	0.50	20.00	0	90.5	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
 Work Order: N069498
 Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195128						
Client ID: CCV	Batch ID: R195128	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282756							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.754	0.10	20.00	0	93.8	90	110				
Selenium	18.689	0.50	20.00	0	93.4	90	110				

Sample ID CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195128						
Client ID: CCV	Batch ID: R195128	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282767							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	17.972	0.10	20.00	0	89.9	90	110				S
Selenium	19.333	0.50	20.00	0	96.7	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195128						
Client ID: CCV	Batch ID: R195128	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282778							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.346	0.10	20.00	0	91.7	90	110				
Selenium	18.927	0.50	20.00	0	94.6	90	110				

Sample ID CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195128						
Client ID: CCV	Batch ID: R195128	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282789							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	17.778	0.10	20.00	0	88.9	90	110				S
Selenium	19.058	0.50	20.00	0	95.3	90	110				

Sample ID CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195128						
Client ID: CCV	Batch ID: R195128	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282795							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.605	0.10	20.00	0	93.0	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

% Rec of As in several IQCs failed. However, IQCS that enclosed samples passed criteria.

[Signature] 11/27/2024

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV6	SampType: CCV	TestCode: 6020_DIS_TP Units: µg/L				Prep Date:			RunNo: 195128		
Client ID: CCV	Batch ID: R195128	TestNo: EPA 6020				Analysis Date: 11/2/2024			SeqNo: 6282795		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	19.176	0.50	20.00	0	95.9	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194971
Client ID: ICV	Batch ID: R194971	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6273837	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	10.229	1.0	10.00	0	102 90 110

Sample ID LLCCV2	SampType: CCV1	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194971
Client ID: ZZZZZ	Batch ID: R194971	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6273840	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	0.998	1.0	1.000	0	99.8 80 120

Sample ID MLCCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194971
Client ID: CCV	Batch ID: R194971	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6273841	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	19.393	1.0	20.00	0	97.0 90 110

Sample ID CCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194971
Client ID: CCV	Batch ID: R194971	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6273854	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	19.433	1.0	20.00	0	97.2 90 110

Sample ID CCV2	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194971
Client ID: CCV	Batch ID: R194971	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6273860	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	19.779	1.0	20.00	0	98.9 90 110

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCV3	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194971						
Client ID: CCV	Batch ID: R194971	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6273873							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.021	1.0	20.00	0	95.1	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194971						
Client ID: CCV	Batch ID: R194971	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6273885							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.525	1.0	20.00	0	97.6	90	110				

Sample ID CCV5	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194971						
Client ID: CCV	Batch ID: R194971	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6273897							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.117	1.0	20.00	0	95.6	90	110				

Sample ID CCV6	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194971						
Client ID: CCV	Batch ID: R194971	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6273910							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.351	1.0	20.00	0	96.8	90	110				

Sample ID CCV7	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194971						
Client ID: CCV	Batch ID: R194971	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6273921							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.610	1.0	20.00	0	93.0	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCV8	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194971						
Client ID: CCV	Batch ID: R194971	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6273925							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.501	1.0	20.00	0	97.5	90	110				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out

E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values

H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
(M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195055						
Client ID: ICV	Batch ID: R195055	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6278916							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.739	1.0	10.00	0	97.4	90	110				

Sample ID LLCCV2	SampType: CCV1	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195055						
Client ID: ZZZZZ	Batch ID: R195055	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6278919							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	1.008	1.0	1.000	0	101	80	120				

Sample ID MLCCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195055						
Client ID: CCV	Batch ID: R195055	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6278920							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.669	1.0	20.00	0	93.3	90	110				

Sample ID CCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195055						
Client ID: CCV	Batch ID: R195055	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6278929							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.673	1.0	20.00	0	93.4	90	110				

Sample ID CCV2	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195055						
Client ID: CCV	Batch ID: R195055	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6278943							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.925	1.0	20.00	0	94.6	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCV3	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195055						
Client ID: CCV	Batch ID: R195055	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6278953							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.474	1.0	20.00	0	92.4	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195055						
Client ID: CCV	Batch ID: R195055	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6278958							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.843	1.0	20.00	0	94.2	90	110				

Sample ID CCV5	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195055						
Client ID: CCV	Batch ID: R195055	TestNo: EPA 6020	Analysis Date: 10/31/2024	SeqNo: 6278968							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.721	1.0	20.00	0	93.6	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: ICB	Batch ID: R194972	TestNo: EPA 6020		Analysis Date: 10/29/2024	SeqNo: 6273981						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Manganese	0.088	0.50									
Molybdenum	0.111	0.50									
Selenium	ND	0.50									

Sample ID CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: CCB	Batch ID: R194972	TestNo: EPA 6020		Analysis Date: 10/29/2024	SeqNo: 6273998						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: CCB	Batch ID: R194972	TestNo: EPA 6020		Analysis Date: 10/29/2024	SeqNo: 6274004						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: CCB	Batch ID: R194972	TestNo: EPA 6020		Analysis Date: 10/29/2024	SeqNo: 6274017						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: CCB	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274017							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: CCB	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274029							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: CCB	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274041							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: CCB	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274054							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972
Client ID: CCB	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274054	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Selenium	ND	0.50			

Sample ID CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972
Client ID: CCB	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274065	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Manganese	ND	0.50			
Molybdenum	ND	0.50			
Selenium	ND	0.50			

Sample ID CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972
Client ID: CCB	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274069	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Manganese	ND	0.50			
Molybdenum	ND	0.50			
Selenium	ND	0.50			

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: ICB	Batch ID: R195051	TestNo: EPA 6020		Analysis Date: 10/30/2024	SeqNo: 6278621						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: CCB	Batch ID: R195051	TestNo: EPA 6020		Analysis Date: 10/30/2024	SeqNo: 6278634						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: CCB	Batch ID: R195051	TestNo: EPA 6020		Analysis Date: 10/30/2024	SeqNo: 6278648						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: CCB	Batch ID: R195051	TestNo: EPA 6020		Analysis Date: 10/30/2024	SeqNo: 6278658						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051
Client ID: CCB	Batch ID: R195051	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6278658	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Molybdenum	ND	0.50			
Selenium	ND	0.50			

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051
Client ID: CCB	Batch ID: R195051	TestNo: EPA 6020	Analysis Date: 10/31/2024	SeqNo: 6278663	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Manganese	ND	0.50			
Molybdenum	ND	0.50			
Selenium	ND	0.50			

Sample ID CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051
Client ID: CCB	Batch ID: R195051	TestNo: EPA 6020	Analysis Date: 10/31/2024	SeqNo: 6278673	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Manganese	ND	0.50			
Molybdenum	ND	0.50			
Selenium	ND	0.50			

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195127
Client ID: ICB	Batch ID: R195127	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282639	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Selenium	ND	0.50			
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Sample ID CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195127
Client ID: CCB	Batch ID: R195127	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282653	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Selenium	ND	0.50			
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Sample ID CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195127
Client ID: CCB	Batch ID: R195127	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282661	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Selenium	ND	0.50			
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Sample ID CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195127
Client ID: CCB	Batch ID: R195127	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282672	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Selenium	ND	0.50			
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Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195127
Client ID: CCB	Batch ID: R195127	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282683	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Selenium	ND	0.50			
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195127						
Client ID: CCB	Batch ID: R195127	TestNo: EPA 6020		Analysis Date: 11/2/2024	SeqNo: 6282694						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Selenium	ND	0.50
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Sample ID CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195127						
Client ID: CCB	Batch ID: R195127	TestNo: EPA 6020		Analysis Date: 11/2/2024	SeqNo: 6282700						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Selenium	ND	0.50
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195128
Client ID: ICB	Batch ID: R195128	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282735	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Selenium	ND	0.50			

Sample ID CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195128
Client ID: CCB	Batch ID: R195128	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282749	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Selenium	ND	0.50			

Sample ID CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195128
Client ID: CCB	Batch ID: R195128	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282757	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Selenium	ND	0.50			

Sample ID CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195128
Client ID: CCB	Batch ID: R195128	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282768	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Selenium	ND	0.50			

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195128
Client ID: CCB	Batch ID: R195128	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282779	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195128
Client ID: CCB	Batch ID: R195128	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282779	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Selenium	ND	0.50			

Sample ID CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195128
Client ID: CCB	Batch ID: R195128	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282790	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Selenium	ND	0.50			

Sample ID CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195128
Client ID: CCB	Batch ID: R195128	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282796	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Selenium	ND	0.50			

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194971
Client ID: ICB	Batch ID: R194971	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6273838	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB1	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194971
Client ID: CCB	Batch ID: R194971	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6273855	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB2	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194971
Client ID: CCB	Batch ID: R194971	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6273861	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB3	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194971
Client ID: CCB	Batch ID: R194971	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6273874	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB4	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194971
Client ID: CCB	Batch ID: R194971	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6273886	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCB5	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194971
Client ID: CCB	Batch ID: R194971	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6273898	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0									
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Sample ID CCB6	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194971
Client ID: CCB	Batch ID: R194971	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6273911	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0									
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Sample ID CCB7	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194971
Client ID: CCB	Batch ID: R194971	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6273922	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0									
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Sample ID CCB8	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194971
Client ID: CCB	Batch ID: R194971	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6273926	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195055
Client ID: ICB	Batch ID: R195055	TestNo: EPA 6020		Analysis Date: 10/30/2024	SeqNo: 6278917
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0			
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Sample ID CCB1	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195055
Client ID: CCB	Batch ID: R195055	TestNo: EPA 6020		Analysis Date: 10/30/2024	SeqNo: 6278930
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0			
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Sample ID CCB2	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195055
Client ID: CCB	Batch ID: R195055	TestNo: EPA 6020		Analysis Date: 10/30/2024	SeqNo: 6278944
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0			
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Sample ID CCB3	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195055
Client ID: CCB	Batch ID: R195055	TestNo: EPA 6020		Analysis Date: 10/30/2024	SeqNo: 6278954
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0			
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Sample ID CCB4	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195055
Client ID: CCB	Batch ID: R195055	TestNo: EPA 6020		Analysis Date: 10/31/2024	SeqNo: 6278959
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0			
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID	CCB5	SampType:	CCB	TestCode:	6020DIS_CrP	Units:	µg/L	Prep Date:		RunNo:	195055											
Client ID:	CCB	Batch ID:	R195055	TestNo:	EPA 6020			Analysis Date:	10/31/2024	SeqNo:	6278969											
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual
Chromium		ND		1.0																		

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: ICSA	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6273985							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSA B1	SampType: ICSA B	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: ICSA B	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6273986							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	20.068	0.10	20.00	0	100	80	120				
Manganese	20.133	0.50	20.00	0	101	80	120				
Molybdenum	19.198	0.50	20.00	0	96.0	80	120				
Selenium	20.034	0.50	20.00	0	100	80	120				

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: ICSA	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274005							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSA B2	SampType: ICSA B	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: ICSA B	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274006							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	20.348	0.10	20.00	0	102	80	120				
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSAB2	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: ICSAB	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274006							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	19.780	0.50	20.00	0	98.9	80	120				
Molybdenum	19.737	0.50	20.00	0	98.7	80	120				
Selenium	20.567	0.50	20.00	0	103	80	120				

Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: ICSA	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274042							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSAB3	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: ICSAB	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274043							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.805	0.10	20.00	0	104	80	120				
Manganese	18.942	0.50	20.00	0	94.7	80	120				
Molybdenum	19.685	0.50	20.00	0	98.4	80	120				
Selenium	20.200	0.50	20.00	0	101	80	120				

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: ICSA	Batch ID: R194972	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6274070							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: ICSA	Batch ID: R194972	TestNo: EPA 6020		Analysis Date: 10/29/2024	SeqNo: 6274070						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Selenium	ND	0.50
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Sample ID ICSAB4	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: ICSAB	Batch ID: R194972	TestNo: EPA 6020		Analysis Date: 10/29/2024	SeqNo: 6274071						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	20.130	0.10	20.00	0	101	80	120
Manganese	19.356	0.50	20.00	0	96.8	80	120
Molybdenum	19.857	0.50	20.00	0	99.3	80	120
Selenium	19.483	0.50	20.00	0	97.4	80	120

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: ICSA	Batch ID: R195051	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6278625							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: ICSA	Batch ID: R195051	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6278625							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.841	0.10	20.00	0	94.2	80	120				
Manganese	19.401	0.50	20.00	0	97.0	80	120				
Molybdenum	18.530	0.50	20.00	0	92.6	80	120				
Selenium	18.793	0.50	20.00	0	94.0	80	120				

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: ICSA	Batch ID: R195051	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6278635							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: ICSA	Batch ID: R195051	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6278636							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.030	0.10	20.00	0	100	80	120				
Manganese	19.533	0.50	20.00	0	97.7	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSAB2	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: ICSAB	Batch ID: R195051	TestNo: EPA 6020	Analysis Date: 10/30/2024	SeqNo: 6278636							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	18.852	0.50	20.00	0	94.3	80	120				
Selenium	19.290	0.50	20.00	0	96.4	80	120				

Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: ICSA	Batch ID: R195051	TestNo: EPA 6020	Analysis Date: 10/31/2024	SeqNo: 6278674							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSAB3	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: ICSAB	Batch ID: R195051	TestNo: EPA 6020	Analysis Date: 10/31/2024	SeqNo: 6278675							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	21.463	0.10	20.00	0	107	80	120				
Manganese	19.465	0.50	20.00	0	97.3	80	120				
Molybdenum	19.098	0.50	20.00	0	95.5	80	120				
Selenium	19.771	0.50	20.00	0	98.9	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195127
Client ID: ICSA	Batch ID: R195127	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282644	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Selenium	ND	0.50									
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Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195127
Client ID: ICSA	Batch ID: R195127	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282644	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Selenium	19.334	0.50	20.00	0	96.7	80	120				
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Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195127
Client ID: ICSA	Batch ID: R195127	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282654	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Selenium	ND	0.50									
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Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195127
Client ID: ICSA	Batch ID: R195127	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282655	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Selenium	19.276	0.50	20.00	0	96.4	80	120				
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Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195127
Client ID: ICSA	Batch ID: R195127	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282701	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Selenium	ND	0.50									
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSAB3	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195127						
Client ID: ICSAB	Batch ID: R195127	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282702							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	19.719	0.50	20.00	0	98.6	80	120				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out

E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values

H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
(M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195128
Client ID: ICSA	Batch ID: R195128	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282740	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Selenium	ND	0.50			

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195128
Client ID: ICSA	Batch ID: R195128	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282740	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	19.313	0.10	20.00	0	96.6 80 120
Selenium	19.334	0.50	20.00	0	96.7 80 120

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195128
Client ID: ICSA	Batch ID: R195128	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282750	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Selenium	ND	0.50			

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195128
Client ID: ICSA	Batch ID: R195128	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282751	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	19.116	0.10	20.00	0	95.6 80 120
Selenium	19.276	0.50	20.00	0	96.4 80 120

Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195128
Client ID: ICSA	Batch ID: R195128	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282797	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195128
Client ID: ICSA	Batch ID: R195128	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282797	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Selenium	ND	0.50									
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Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195128
Client ID: ICSA	Batch ID: R195128	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282797	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	18.380	0.10	20.00	0	91.9	80	120				
Selenium	19.719	0.50	20.00	0	98.6	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194971						
Client ID: ICSA	Batch ID: R194971	TestNo: EPA 6020		Analysis Date: 10/29/2024	SeqNo: 6273842						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194971						
Client ID: ICSA	Batch ID: R194971	TestNo: EPA 6020		Analysis Date: 10/29/2024	SeqNo: 6273842						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.363	1.0	20.00	0	102	80	120				
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Sample ID ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194971						
Client ID: ICSA	Batch ID: R194971	TestNo: EPA 6020		Analysis Date: 10/29/2024	SeqNo: 6273862						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194971						
Client ID: ICSA	Batch ID: R194971	TestNo: EPA 6020		Analysis Date: 10/29/2024	SeqNo: 6273863						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.114	1.0	20.00	0	101	80	120				
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Sample ID ICSA3	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194971						
Client ID: ICSA	Batch ID: R194971	TestNo: EPA 6020		Analysis Date: 10/29/2024	SeqNo: 6273899						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICSAB3	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194971						
Client ID: ICSAB	Batch ID: R194971	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6273900							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.471	1.0	20.00	0	97.4	80	120				

Sample ID ICSA4	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194971						
Client ID: ICSA	Batch ID: R194971	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6273927							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID ICSAB4	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194971						
Client ID: ICSAB	Batch ID: R194971	TestNo: EPA 6020	Analysis Date: 10/29/2024	SeqNo: 6273928							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.759	1.0	20.00	0	98.8	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195055						
Client ID: ICSA	Batch ID: R195055	TestNo: EPA 6020		Analysis Date: 10/30/2024	SeqNo: 6278921						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195055						
Client ID: ICSA	Batch ID: R195055	TestNo: EPA 6020		Analysis Date: 10/30/2024	SeqNo: 6278921						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.211	1.0	20.00	0	96.1	80	120				
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Sample ID ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195055						
Client ID: ICSA	Batch ID: R195055	TestNo: EPA 6020		Analysis Date: 10/30/2024	SeqNo: 6278931						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195055						
Client ID: ICSA	Batch ID: R195055	TestNo: EPA 6020		Analysis Date: 10/30/2024	SeqNo: 6278932						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.277	1.0	20.00	0	96.4	80	120				
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Sample ID ICSA3	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195055						
Client ID: ICSA	Batch ID: R195055	TestNo: EPA 6020		Analysis Date: 10/31/2024	SeqNo: 6278970						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICSAB3	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195055						
Client ID: ICSAB	Batch ID: R195055	TestNo: EPA 6020	Analysis Date: 10/31/2024	SeqNo: 6278971							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.226	1.0	20.00	0	96.1	80	120				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out

E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values

H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
(M) Test is modified

INTERNAL STANDARD SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INTERNAL STANDARD: 241029A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	45 Sc (ISTD) [2]					72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	14215	14215	100	PASS	30-150	7952	7952	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	14513	14215	102.1	PASS	30-150	7754.1	7952	97.51	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	14245	14215	100.21	PASS	30-150	7587.3	7952	95.41	PASS	30-150
Std3-5/50 ppb	ICAL	1	14513	14215	102.1	PASS	30-150	7751.9	7952	97.48	PASS	30-150
Std4-10/100 ppb	ICAL	1	14023.7	14215	98.65	PASS	30-150	7878.6	7952	99.08	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	14574.2	14215	102.53	PASS	30-150	7833	7952	98.5	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	14664.3	14215	103.16	PASS	30-150	7816.3	7952	98.29	PASS	30-150
Std7-100/1000 ppb	ICAL	1	14527.5	14215	102.2	PASS	30-150	7937.5	7952	99.82	PASS	30-150
Std8-200/2000 ppb	ICAL	1	14595.3	14215	102.68	PASS	30-150	7847.5	7952	98.69	PASS	30-150
ICV	ICV	1	14243.9	14215	100.2	PASS	30-150	7840.8	7952	98.6	PASS	30-150
ICB	ICB	1	14258.3	14215	100.3	PASS	30-150	7886.4	7952	99.18	PASS	30-150
LLCCV1	CCV1	1	14037	14215	98.75	PASS	30-150	7516.2	7952	94.52	PASS	30-150
LLCCV2	CCV1	1	14411.8	14215	101.38	PASS	30-150	7664.1	7952	96.38	PASS	30-150
MLCCV1	CCV	1	14434.1	14215	101.54	PASS	30-150	7651.8	7952	96.22	PASS	30-150
ICSA1	ICSA	1	14409.6	14215	101.37	PASS	30-150	7717.4	7952	97.05	PASS	30-150
ICSAB1	ICSAB	1	14285	14215	100.49	PASS	30-150	7765.2	7952	97.65	PASS	30-150
CCV1	CCV	1	16495.9	14215	116.05	PASS	30-150	8521.1	7952	107.16	PASS	30-150
CCV1	CCV	1	16583.8	14215	116.66	PASS	30-150	8536.7	7952	107.35	PASS	30-150
CCB1	CCB	1	16073.3	14215	113.07	PASS	30-150	8387.7	7952	105.48	PASS	30-150
CCV2	CCV	1	16263.5	14215	114.41	PASS	30-150	8453.3	7952	106.3	PASS	30-150
CCB2	CCB	1	16083.4	14215	113.14	PASS	30-150	8199.9	7952	103.12	PASS	30-150
ICSA2	ICSA	1	16015.5	14215	112.67	PASS	30-150	8486.7	7952	106.72	PASS	30-150
ICSAB2	ICSAB	1	16095.6	14215	113.23	PASS	30-150	8427.8	7952	105.98	PASS	30-150
CCV3	CCV	1	16341.4	14215	114.96	PASS	30-150	8318.8	7952	104.61	PASS	30-150
CCB3	CCB	1	16022.2	14215	112.71	PASS	30-150	8255.5	7952	103.82	PASS	30-150
CCV4	CCV	1	16191.2	14215	113.9	PASS	30-150	8487.8	7952	106.74	PASS	30-150
CCB4	CCB	1	15852	14215	111.52	PASS	30-150	8550	7952	107.52	PASS	30-150
CCV5	CCV	1	16245.7	14215	114.29	PASS	30-150	8533.4	7952	107.31	PASS	30-150
CCB5	CCB	1	15894.3	14215	111.81	PASS	30-150	8292.1	7952	104.28	PASS	30-150
ICSA3	ICSA	1	15943.2	14215	112.16	PASS	30-150	8262.1	7952	103.9	PASS	30-150
ICSAB3	ICSAB	1	16445.9	14215	115.69	PASS	30-150	8249.9	7952	103.75	PASS	30-150
MB-113638	MBLK	1	15543.9	14215	109.35	PASS	30-150	8347.7	7952	104.98	PASS	30-150
LCS-113638	LCS	1	15918.7	14215	111.99	PASS	30-150	8550	7952	107.52	PASS	30-150
N069263-001B	SAMP	1	14174.9	14215	99.72	PASS	30-150	7221.6	7952	90.81	PASS	30-150
N069263-001B	SAMP	5	14925.6	14215	105	PASS	30-150	7829.7	7952	98.46	PASS	30-150
N069263-001B-PS	PS	1	13871.3	14215	97.58	PASS	30-150	7349.4	7952	92.42	PASS	30-150
N069263-001B-MS	MS	1	14166.1	14215	99.66	PASS	30-150	7487.3	7952	94.16	PASS	30-150
N069263-001B-MSD	MSD	1	14203.9	14215	99.92	PASS	30-150	7306.1	7952	91.88	PASS	30-150
N069263-002B	SAMP	1	13957	14215	98.19	PASS	30-150	7389.5	7952	92.93	PASS	30-150
N069263-003B	SAMP	1	14014.8	14215	98.59	PASS	30-150	7053.8	7952	88.7	PASS	30-150
CCV6	CCV	1	15690.7	14215	110.38	PASS	30-150	8268.8	7952	103.98	PASS	30-150

INTERNAL STANDARD: 241029A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	45 Sc (ISTD) [2]					72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
CCB6	CCB	1	15486.1	14215	108.94	PASS	30-150	8143.2	7952	102.4	PASS	30-150
N069444-001B	SAMP	1	13543.3	14215	95.27	PASS	30-150	7057.1	7952	88.75	PASS	30-150
N069444-002B	SAMP	1	13656.7	14215	96.07	PASS	30-150	6969.3	7952	87.64	PASS	30-150
N069444-003B	SAMP	1	13399.9	14215	94.27	PASS	30-150	6931.5	7952	87.17	PASS	30-150
N069445-001B	SAMP	1	13503.3	14215	94.99	PASS	30-150	6820.3	7952	85.77	PASS	30-150
N069498-001B	SAMP	1	13610	14215	95.74	PASS	30-150	6865.9	7952	86.34	PASS	30-150
N069498-002B	SAMP	1	12205.6	14215	85.86	PASS	30-150	6232.3	7952	78.37	PASS	30-150
N069498-003B	SAMP	1	12823.9	14215	90.21	PASS	30-150	6499.1	7952	81.73	PASS	30-150
N069498-005B	SAMP	1	13344.3	14215	93.87	PASS	30-150	6924.8	7952	87.08	PASS	30-150
N069498-006B	SAMP	1	13299.8	14215	93.56	PASS	30-150	6765.9	7952	85.08	PASS	30-150
CCV7	CCV	1	15793.1	14215	111.1	PASS	30-150	8201	7952	103.13	PASS	30-150
CCB7	CCB	1	15089.1	14215	106.15	PASS	30-150	8078.7	7952	101.59	PASS	30-150
N069498-007B	SAMP	1	13288.7	14215	93.48	PASS	30-150	6894.8	7952	86.71	PASS	30-150
N069498-008B	SAMP	1	12714.9	14215	89.45	PASS	30-150	6309	7952	79.34	PASS	30-150
CCV8	CCV	1	15133.6	14215	106.46	PASS	30-150	8255.4	7952	103.82	PASS	30-150
CCB8	CCB	1	14799.9	14215	104.11	PASS	30-150	8050.9	7952	101.24	PASS	30-150
ICSA4	ICSA	1	15133.6	14215	106.46	PASS	30-150	8038.7	7952	101.09	PASS	30-150
ICSAB4	ICSAB	1	15274.8	14215	107.46	PASS	30-150	8118.7	7952	102.1	PASS	30-150
CCV9	CCV	1	14701	14215	103.42	PASS	30-150	7798.6	7952	98.07	PASS	30-150
CCB9	CCB	1	14499.7	14215	102	PASS	30-150	7748.5	7952	97.44	PASS	30-150
CCV10	CCV	1	14903.3	14215	104.84	PASS	30-150	7891.9	7952	99.24	PASS	30-150
CCB10	CCB	1	14568.6	14215	102.49	PASS	30-150	7756.3	7952	97.54	PASS	30-150
CCV11	CCV	1	14947.8	14215	105.16	PASS	30-150	7853	7952	98.76	PASS	30-150
CCB11	CCB	1	14355.1	14215	100.99	PASS	30-150	7825.2	7952	98.41	PASS	30-150
ICSA5	ICSA	1	14657.6	14215	103.11	PASS	30-150	7695.2	7952	96.77	PASS	30-150
ICSAB5	ICSAB	1	14584.2	14215	102.6	PASS	30-150	7980.9	7952	100.36	PASS	30-150

INTERNAL STANDARD: 241029A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [1]					103 Rh (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	26771.9	26771.9	100	PASS	30-150	214574.7	214574.7	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	26455.8	26771.9	98.82	PASS	30-150	213754.8	214574.7	99.62	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	26433.5	26771.9	98.74	PASS	30-150	214123.2	214574.7	99.79	PASS	30-150
Std3-5/50 ppb	ICAL	1	26335.6	26771.9	98.37	PASS	30-150	213972.7	214574.7	99.72	PASS	30-150
Std4-10/100 ppb	ICAL	1	26048.5	26771.9	97.3	PASS	30-150	212120.6	214574.7	98.86	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	26643.9	26771.9	99.52	PASS	30-150	214109.7	214574.7	99.78	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	26108.6	26771.9	97.52	PASS	30-150	213299.3	214574.7	99.41	PASS	30-150
Std7-100/1000 ppb	ICAL	1	26396.9	26771.9	98.6	PASS	30-150	215156.3	214574.7	100.27	PASS	30-150
Std8-200/2000 ppb	ICAL	1	27000	26771.9	100.85	PASS	30-150	213436.1	214574.7	99.47	PASS	30-150
ICV	ICV	1	26239.9	26771.9	98.01	PASS	30-150	212794.6	214574.7	99.17	PASS	30-150
ICB	ICB	1	26292.2	26771.9	98.21	PASS	30-150	211596.3	214574.7	98.61	PASS	30-150
LLCCV1	CCV1	1	26741.8	26771.9	99.89	PASS	30-150	212003.9	214574.7	98.8	PASS	30-150
LLCCV2	CCV1	1	26501.5	26771.9	98.99	PASS	30-150	213231.2	214574.7	99.37	PASS	30-150
MLCCV1	CCV	1	26739.6	26771.9	99.88	PASS	30-150	211938.7	214574.7	98.77	PASS	30-150
ICSA1	ICSA	1	25356.3	26771.9	94.71	PASS	30-150	212116.1	214574.7	98.85	PASS	30-150
ICSAB1	ICSAB	1	26465.9	26771.9	98.86	PASS	30-150	212888.9	214574.7	99.21	PASS	30-150
CCV1	CCV	1	29959.6	26771.9	111.91	PASS	30-150	221829.9	214574.7	103.38	PASS	30-150
CCV1	CCV	1	29330.7	26771.9	109.56	PASS	30-150	222677.7	214574.7	103.78	PASS	30-150
CCB1	CCB	1	28723	26771.9	107.29	PASS	30-150	219511.6	214574.7	102.3	PASS	30-150
CCV2	CCV	1	28997.9	26771.9	108.31	PASS	30-150	223497.7	214574.7	104.16	PASS	30-150
CCB2	CCB	1	29222.7	26771.9	109.15	PASS	30-150	220962.5	214574.7	102.98	PASS	30-150
ICSA2	ICSA	1	29069.1	26771.9	108.58	PASS	30-150	221728.3	214574.7	103.33	PASS	30-150
ICSAB2	ICSAB	1	28934.5	26771.9	108.08	PASS	30-150	223711.2	214574.7	104.26	PASS	30-150
CCV3	CCV	1	29420.9	26771.9	109.89	PASS	30-150	219398.7	214574.7	102.25	PASS	30-150
CCB3	CCB	1	29009	26771.9	108.36	PASS	30-150	217547.4	214574.7	101.39	PASS	30-150
CCV4	CCV	1	29671.3	26771.9	110.83	PASS	30-150	219441.9	214574.7	102.27	PASS	30-150
CCB4	CCB	1	28554.9	26771.9	106.66	PASS	30-150	216551.9	214574.7	100.92	PASS	30-150
CCV5	CCV	1	29472.1	26771.9	110.09	PASS	30-150	218844.3	214574.7	101.99	PASS	30-150
CCB5	CCB	1	28777.5	26771.9	107.49	PASS	30-150	215599.7	214574.7	100.48	PASS	30-150
ICSA3	ICSA	1	28951.2	26771.9	108.14	PASS	30-150	216493.5	214574.7	100.89	PASS	30-150
ICSAB3	ICSAB	1	29041.3	26771.9	108.48	PASS	30-150	220211.9	214574.7	102.63	PASS	30-150
MB-113638	MBLK	1	28188.7	26771.9	105.29	PASS	30-150	213202.4	214574.7	99.36	PASS	30-150
LCS-113638	LCS	1	28804.2	26771.9	107.59	PASS	30-150	220053.6	214574.7	102.55	PASS	30-150
N069263-001B	SAMP	1	24185.7	26771.9	90.34	PASS	30-150	177198.8	214574.7	82.58	PASS	30-150
N069263-001B	SAMP	5	26562.7	26771.9	99.22	PASS	30-150	196532.1	214574.7	91.59	PASS	30-150
N069263-001B-PS	PS	1	24034.3	26771.9	89.77	PASS	30-150	175483.5	214574.7	81.78	PASS	30-150
N069263-001B-MS	MS	1	24459.4	26771.9	91.36	PASS	30-150	181212	214574.7	84.45	PASS	30-150
N069263-001B-MSD	MSD	1	24271.4	26771.9	90.66	PASS	30-150	179840.8	214574.7	83.81	PASS	30-150
N069263-002B	SAMP	1	23834	26771.9	89.03	PASS	30-150	176033.5	214574.7	82.04	PASS	30-150
N069263-003B	SAMP	1	23694.9	26771.9	88.51	PASS	30-150	174786.9	214574.7	81.46	PASS	30-150
CCV6	CCV	1	28856.5	26771.9	107.79	PASS	30-150	215596.5	214574.7	100.48	PASS	30-150

INTERNAL STANDARD: 241029A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [1]					103 Rh (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
CCB6	CCB	1	28729.6	26771.9	107.31	PASS	30-150	213897.9	214574.7	99.68	PASS	30-150
N069444-001B	SAMP	1	23234.3	26771.9	86.79	PASS	30-150	170960.9	214574.7	79.67	PASS	30-150
N069444-002B	SAMP	1	23247.7	26771.9	86.84	PASS	30-150	169544.4	214574.7	79.01	PASS	30-150
N069444-003B	SAMP	1	23595.9	26771.9	88.14	PASS	30-150	169426	214574.7	78.96	PASS	30-150
N069445-001B	SAMP	1	22709.1	26771.9	84.82	PASS	30-150	165435.3	214574.7	77.1	PASS	30-150
N069498-001B	SAMP	1	22842.6	26771.9	85.32	PASS	30-150	167836.3	214574.7	78.22	PASS	30-150
N069498-002B	SAMP	1	20044.6	26771.9	74.87	PASS	30-150	145559	214574.7	67.84	PASS	30-150
N069498-003B	SAMP	1	21536.4	26771.9	80.44	PASS	30-150	154641.4	214574.7	72.07	PASS	30-150
N069498-005B	SAMP	1	23182	26771.9	86.59	PASS	30-150	164447.8	214574.7	76.64	PASS	30-150
N069498-006B	SAMP	1	22771.4	26771.9	85.06	PASS	30-150	164262.7	214574.7	76.55	PASS	30-150
CCV7	CCV	1	27625.5	26771.9	103.19	PASS	30-150	207232.4	214574.7	96.58	PASS	30-150
CCB7	CCB	1	27408.5	26771.9	102.38	PASS	30-150	203468.5	214574.7	94.82	PASS	30-150
N069498-007B	SAMP	1	22459.9	26771.9	83.89	PASS	30-150	163958.3	214574.7	76.41	PASS	30-150
N069498-008B	SAMP	1	21118.1	26771.9	78.88	PASS	30-150	152274.6	214574.7	70.97	PASS	30-150
CCV8	CCV	1	27875.9	26771.9	104.12	PASS	30-150	204201	214574.7	95.17	PASS	30-150
CCB8	CCB	1	27508.7	26771.9	102.75	PASS	30-150	200814.5	214574.7	93.59	PASS	30-150
ICSA4	ICSA	1	27515.3	26771.9	102.78	PASS	30-150	200880.6	214574.7	93.62	PASS	30-150
ICSAB4	ICSAB	1	27841.5	26771.9	104	PASS	30-150	205058.7	214574.7	95.57	PASS	30-150
CCV9	CCV	1	27436.3	26771.9	102.48	PASS	30-150	200323.3	214574.7	93.36	PASS	30-150
CCB9	CCB	1	26607.2	26771.9	99.38	PASS	30-150	197334.6	214574.7	91.97	PASS	30-150
CCV10	CCV	1	26839.8	26771.9	100.25	PASS	30-150	198673.4	214574.7	92.59	PASS	30-150
CCB10	CCB	1	26925.5	26771.9	100.57	PASS	30-150	195023.5	214574.7	90.89	PASS	30-150
CCV11	CCV	1	27016.8	26771.9	100.91	PASS	30-150	195721.6	214574.7	91.21	PASS	30-150
CCB11	CCB	1	26488.1	26771.9	98.94	PASS	30-150	192370.3	214574.7	89.65	PASS	30-150
ICSA5	ICSA	1	27165.9	26771.9	101.47	PASS	30-150	197900.2	214574.7	92.23	PASS	30-150
ICSAB5	ICSAB	1	26899.9	26771.9	100.48	PASS	30-150	196448.6	214574.7	91.55	PASS	30-150

INTERNAL STANDARD: 241030B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	45 Sc (ISTD) [2]					72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	30470	30470	100	PASS	30-150	16338.2	16338.2	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	29605.1	30470	97.16	PASS	30-150	15618.6	16338.2	95.6	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	29535	30470	96.93	PASS	30-150	15508.5	16338.2	94.92	PASS	30-150
Std3-5/50 ppb	ICAL	1	29740.9	30470	97.61	PASS	30-150	15895.5	16338.2	97.29	PASS	30-150
Std4-10/100 ppb	ICAL	1	29404.8	30470	96.5	PASS	30-150	16036.8	16338.2	98.16	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	29631.8	30470	97.25	PASS	30-150	15718.7	16338.2	96.21	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	29061.9	30470	95.38	PASS	30-150	15587.5	16338.2	95.41	PASS	30-150
Std7-100/1000 ppb	ICAL	1	28853.8	30470	94.7	PASS	30-150	15168.2	16338.2	92.84	PASS	30-150
Std8-200/2000 ppb	ICAL	1	28188.2	30470	92.51	PASS	30-150	15172.6	16338.2	92.87	PASS	30-150
ICV	ICV	1	29010.8	30470	95.21	PASS	30-150	15647.5	16338.2	95.77	PASS	30-150
ICB	ICB	1	28961.8	30470	95.05	PASS	30-150	15397.3	16338.2	94.24	PASS	30-150
LLCCV1	CCV	1	28843.8	30470	94.66	PASS	30-150	15481.8	16338.2	94.76	PASS	30-150
LLCCV2	CCV	1	28430.8	30470	93.31	PASS	30-150	15287.2	16338.2	93.57	PASS	30-150
MLCCV1	CCV	1	28877.2	30470	94.77	PASS	30-150	15041.4	16338.2	92.06	PASS	30-150
ICSA1	ICSA	1	28813.7	30470	94.56	PASS	30-150	15504	16338.2	94.89	PASS	30-150
ICSAB1	ICSAB	1	28944	30470	94.99	PASS	30-150	15536.3	16338.2	95.09	PASS	30-150
CCV1	CCV	1	27996.8	30470	91.88	PASS	30-150	14628.8	16338.2	89.54	PASS	30-150
CCB1	CCB	1	27681.8	30470	90.85	PASS	30-150	15064.8	16338.2	92.21	PASS	30-150
CCV1	CCV	1	27263.4	30470	89.48	PASS	30-150	14305.2	16338.2	87.56	PASS	30-150
CCB1	CCB	1	26863.8	30470	88.16	PASS	30-150	14516.5	16338.2	88.85	PASS	30-150
ICSA2	ICSA	1	26250.6	30470	86.15	PASS	30-150	14426.4	16338.2	88.3	PASS	30-150
ICSAB2	ICSAB	1	26853.9	30470	88.13	PASS	30-150	14553.2	16338.2	89.08	PASS	30-150
N069263-001B	SAMP	10	25994.7	30470	85.31	PASS	30-150	14103.9	16338.2	86.32	PASS	30-150
N069263-001B	SAMP	50	25929	30470	85.1	PASS	30-150	14244	16338.2	87.18	PASS	30-150
N069263-001B-PS	PS	10	25782.1	30470	84.61	PASS	30-150	13953.8	16338.2	85.41	PASS	30-150
N069263-001B-MS	MS	10	25818.9	30470	84.74	PASS	30-150	14228.4	16338.2	87.09	PASS	30-150
N069263-001B-MSD	MSD	10	23257.4	30470	76.33	PASS	30-150	12790.6	16338.2	78.29	PASS	30-150
N069263-002B	SAMP	10	23643.4	30470	77.6	PASS	30-150	13139.7	16338.2	80.42	PASS	30-150
N069263-003B	SAMP	10	23690.2	30470	77.75	PASS	30-150	12905.1	16338.2	78.99	PASS	30-150
N069444-001B	SAMP	10	23242.9	30470	76.28	PASS	30-150	12725	16338.2	77.88	PASS	30-150
N069444-002B	SAMP	10	22656.5	30470	74.36	PASS	30-150	12507.1	16338.2	76.55	PASS	30-150
N069445-001B	SAMP	10	22033.4	30470	72.31	PASS	30-150	12154.5	16338.2	74.39	PASS	30-150
CCV2	CCV	1	25085.5	30470	82.33	PASS	30-150	13583.5	16338.2	83.14	PASS	30-150
CCB2	CCB	1	25554	30470	83.87	PASS	30-150	13916	16338.2	85.17	PASS	30-150
N069498-001B	SAMP	1	24213.1	30470	79.47	PASS	30-150	12666.1	16338.2	77.52	PASS	30-150
N069498-001B	SAMP	10	26535.5	30470	87.09	PASS	30-150	14504.2	16338.2	88.77	PASS	30-150
N069498-002B	SAMP	1	17911.9	30470	58.79	PASS	30-150	9351.6	16338.2	57.24	PASS	30-150
N069498-002B	SAMP	5	21409.3	30470	70.26	PASS	30-150	11615.3	16338.2	71.09	PASS	30-150
N069498-003B	SAMP	1	17866.2	30470	58.64	PASS	30-150	9679.6	16338.2	59.25	PASS	30-150
N069498-003B	SAMP	10	24086.3	30470	79.05	PASS	30-150	12970.7	16338.2	79.39	PASS	30-150
N069498-005B	SAMP	1	21215.7	30470	69.63	PASS	30-150	11516.3	16338.2	70.49	PASS	30-150

INTERNAL STANDARD: 241030B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	45 Sc (ISTD) [2]					72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
N069498-005B	SAMP	10	22257	30470	73.05	PASS	30-150	12356.9	16338.2	75.63	PASS	30-150
CCV3	CCV	1	25244.6	30470	82.85	PASS	30-150	13755.8	16338.2	84.19	PASS	30-150
CCB3	CCB	1	25606.3	30470	84.04	PASS	30-150	13968.2	16338.2	85.49	PASS	30-150
N069498-006B	SAMP	1	17058.8	30470	55.99	PASS	30-150	9656.2	16338.2	59.1	PASS	30-150
N069498-007B	SAMP	1	18222.2	30470	59.8	PASS	30-150	10207.7	16338.2	62.48	PASS	30-150
N069498-008B	SAMP	1	14819.9	30470	48.64	PASS	30-150	8291	16338.2	50.75	PASS	30-150
CCV4	CCV	1	18946.3	30470	62.18	PASS	30-150	10710.2	16338.2	65.55	PASS	30-150
CCB4	CCB	1	19428	30470	63.76	PASS	30-150	10654.6	16338.2	65.21	PASS	30-150
CCV5	CCV	1	18781.7	30470	61.64	PASS	30-150	10583.5	16338.2	64.78	PASS	30-150
CCB5	CCB	1	19584.8	30470	64.28	PASS	30-150	11032.6	16338.2	67.53	PASS	30-150
ICSA3	ICSA	1	19928.6	30470	65.4	PASS	30-150	11091.6	16338.2	67.89	PASS	30-150
ICSAB3	ICSAB	1	20028.7	30470	65.73	PASS	30-150	11546.3	16338.2	70.67	PASS	30-150
CCV6	CCV	1	18192.2	30470	59.71	PASS	30-150	10510.1	16338.2	64.33	PASS	30-150
CCB6	CCB	1	18911.8	30470	62.07	PASS	30-150	10827	16338.2	66.27	PASS	30-150
CCV7	CCV	1	12252.3	30470	40.21	PASS	30-150	6929.3	16338.2	42.41	PASS	30-150
CCB7	CCB	1	12368	30470	40.59	PASS	30-150	7054.9	16338.2	43.18	PASS	30-150
CCV8	CCV	1	11810.9	30470	38.76	PASS	30-150	6717	16338.2	41.11	PASS	30-150
CCB8	CCB	1	11687.5	30470	38.36	PASS	30-150	6773.6	16338.2	41.46	PASS	30-150
ICSA4	ICSA	1	11810.9	30470	38.76	PASS	30-150	6810.3	16338.2	41.68	PASS	30-150
ICSAB4	ICSAB	1	12098.9	30470	39.71	PASS	30-150	7002.6	16338.2	42.86	PASS	30-150
N069498-001B	SAMP	1	10542.3	30470	34.6	PASS	30-150	6174.5	16338.2	37.79	PASS	30-150
N069498-002B	SAMP	1	7321.6	30470	24.03	NR!	30-150	4243.9	16338.2	25.98	NR!	30-150
N069498-003B	SAMP	1	7042.6	30470	23.11	NR!	30-150	4062.7	16338.2	24.87	NR!	30-150
N069498-005B	SAMP	1	7687.4	30470	25.23	NR!	30-150	4407.3	16338.2	26.98	NR!	30-150
N069498-006B	SAMP	1	7450.6	30470	24.45	NR!	30-150	4253.9	16338.2	26.04	NR!	30-150
N069498-007B	SAMP	1	9082.5	30470	29.81	NR!	30-150	5185.3	16338.2	31.74	PASS	30-150
N069498-008B	SAMP	1	7077.1	30470	23.23	NR!	30-150	4086.1	16338.2	25.01	NR!	30-150
CCV9	CCV	1	10225.4	30470	33.56	PASS	30-150	5684.3	16338.2	34.79	PASS	30-150
CCB9	CCB	1	10009.7	30470	32.85	PASS	30-150	5971.1	16338.2	36.55	PASS	30-150
N069498-001B	SAMP	1	7881.9	30470	25.87	NR!	30-150	4672.9	16338.2	28.6	NR!	30-150
N069498-002B	SAMP	1	5967.8	30470	19.59	NR!	30-150	3413.7	16338.2	20.89	NR!	30-150
N069498-003B	SAMP	1	5625.4	30470	18.46	NR!	30-150	3269.2	16338.2	20.01	NR!	30-150
N069498-005B	SAMP	1	6015.6	30470	19.74	NR!	30-150	3554.9	16338.2	21.76	NR!	30-150
N069498-006B	SAMP	1	6162.3	30470	20.22	NR!	30-150	3528.2	16338.2	21.59	NR!	30-150
N069498-007B	SAMP	1	7476.2	30470	24.54	NR!	30-150	4153.9	16338.2	25.42	NR!	30-150
N069498-008B	SAMP	1	5765.5	30470	18.92	NR!	30-150	3403.7	16338.2	20.83	NR!	30-150
CCV10	CCV	1	7748.5	30470	25.43	NR!	30-150	4417.3	16338.2	27.04	NR!	30-150
CCB10	CCB	1	7823	30470	25.67	NR!	30-150	4522.9	16338.2	27.68	NR!	30-150
ICSA5	ICSA	1	7837.4	30470	25.72	NR!	30-150	4472.9	16338.2	27.38	NR!	30-150
ICSAB5	ICSAB	1	8082	30470	26.52	NR!	30-150	4575.1	16338.2	28	NR!	30-150

INTERNAL STANDARD: 241030B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	54112.4	54112.4	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	53927.3	54112.4	99.66	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	52985.4	54112.4	97.92	PASS	30-150
Std3-5/50 ppb	ICAL	1	53290.9	54112.4	98.48	PASS	30-150
Std4-10/100 ppb	ICAL	1	52610.8	54112.4	97.23	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	53586.3	54112.4	99.03	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	52026.9	54112.4	96.15	PASS	30-150
Std7-100/1000 ppb	ICAL	1	52798.2	54112.4	97.57	PASS	30-150
Std8-200/2000 ppb	ICAL	1	49903.5	54112.4	92.22	PASS	30-150
ICV	ICV	1	53090.1	54112.4	98.11	PASS	30-150
ICB	ICB	1	52809.4	54112.4	97.59	PASS	30-150
LLCCV1	CCV	1	52423.6	54112.4	96.88	PASS	30-150
LLCCV2	CCV	1	52448.1	54112.4	96.92	PASS	30-150
MLCCV1	CCV	1	52183.9	54112.4	96.44	PASS	30-150
ICSA1	ICSA	1	53210.6	54112.4	98.33	PASS	30-150
ICSAB1	ICSAB	1	52330	54112.4	96.71	PASS	30-150
CCV1	CCV	1	51570.9	54112.4	95.3	PASS	30-150
CCB1	CCB	1	51699.1	54112.4	95.54	PASS	30-150
CCV1	CCV	1	49463.3	54112.4	91.41	PASS	30-150
CCB1	CCB	1	49237.1	54112.4	90.99	PASS	30-150
ICSA2	ICSA	1	49911.4	54112.4	92.24	PASS	30-150
ICSAB2	ICSAB	1	48779.1	54112.4	90.14	PASS	30-150
N069263-001B	SAMP	10	48195.1	54112.4	89.07	PASS	30-150
N069263-001B	SAMP	50	47419.5	54112.4	87.63	PASS	30-150
N069263-001B-PS	PS	10	45920.8	54112.4	84.86	PASS	30-150
N069263-001B-MS	MS	10	47684.7	54112.4	88.12	PASS	30-150
N069263-001B-MSD	MSD	10	44406.7	54112.4	82.06	PASS	30-150
N069263-002B	SAMP	10	45729.2	54112.4	84.51	PASS	30-150
N069263-003B	SAMP	10	41376.6	54112.4	76.46	PASS	30-150
N069444-001B	SAMP	10	43516.6	54112.4	80.42	PASS	30-150
N069444-002B	SAMP	10	42810.3	54112.4	79.11	PASS	30-150
N069445-001B	SAMP	10	40933.3	54112.4	75.64	PASS	30-150
CCV2	CCV	1	45798.3	54112.4	84.64	PASS	30-150
CCB2	CCB	1	46139.3	54112.4	85.27	PASS	30-150
N069498-001B	SAMP	1	41104.8	54112.4	75.96	PASS	30-150
N069498-001B	SAMP	10	48396.8	54112.4	89.44	PASS	30-150
N069498-002B	SAMP	1	32118.1	54112.4	59.35	PASS	30-150
N069498-002B	SAMP	5	41442.3	54112.4	76.59	PASS	30-150
N069498-003B	SAMP	1	32109.2	54112.4	59.34	PASS	30-150
N069498-003B	SAMP	10	43495.4	54112.4	80.38	PASS	30-150
N069498-005B	SAMP	1	38103.2	54112.4	70.41	PASS	30-150

INTERNAL STANDARD: 241030B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria
N069498-005B	SAMP	10	43509.9	54112.4	80.41	PASS	30-150
CCV3	CCV	1	47852.9	54112.4	88.43	PASS	30-150
CCB3	CCB	1	49242.7	54112.4	91	PASS	30-150
N069498-006B	SAMP	1	33221.5	54112.4	61.39	PASS	30-150
N069498-007B	SAMP	1	32076.9	54112.4	59.28	PASS	30-150
N069498-008B	SAMP	1	25929.4	54112.4	47.92	PASS	30-150
CCV4	CCV	1	37078.6	54112.4	68.52	PASS	30-150
CCB4	CCB	1	37652.1	54112.4	69.58	PASS	30-150
CCV5	CCV	1	37667.7	54112.4	69.61	PASS	30-150
CCB5	CCB	1	39289.3	54112.4	72.61	PASS	30-150
ICSA3	ICSA	1	38832.6	54112.4	71.76	PASS	30-150
ICSAB3	ICSAB	1	38540.8	54112.4	71.22	PASS	30-150
CCV6	CCV	1	36340.2	54112.4	67.16	PASS	30-150
CCB6	CCB	1	37794.7	54112.4	69.84	PASS	30-150
CCV7	CCV	1	25326.3	54112.4	46.8	PASS	30-150
CCB7	CCB	1	26350.1	54112.4	48.7	PASS	30-150
CCV8	CCV	1	24286.9	54112.4	44.88	PASS	30-150
CCB8	CCB	1	24785.5	54112.4	45.8	PASS	30-150
ICSA4	ICSA	1	25399.7	54112.4	46.94	PASS	30-150
ICSAB4	ICSAB	1	26201	54112.4	48.42	PASS	30-150
N069498-001B	SAMP	1	21793.4	54112.4	40.27	PASS	30-150
N069498-002B	SAMP	1	15617.5	54112.4	28.86	NR!	30-150
N069498-003B	SAMP	1	14603.2	54112.4	26.99	NR!	30-150
N069498-005B	SAMP	1	16105.7	54112.4	29.76	NR!	30-150
N069498-006B	SAMP	1	16200.3	54112.4	29.94	NR!	30-150
N069498-007B	SAMP	1	18457.1	54112.4	34.11	PASS	30-150
N069498-008B	SAMP	1	14317.4	54112.4	26.46	NR!	30-150
CCV9	CCV	1	21799	54112.4	40.28	PASS	30-150
CCB9	CCB	1	21961.4	54112.4	40.58	PASS	30-150
N069498-001B	SAMP	1	16588.5	54112.4	30.66	PASS	30-150
N069498-002B	SAMP	1	13038.6	54112.4	24.1	NR!	30-150
N069498-003B	SAMP	1	11866.6	54112.4	21.93	NR!	30-150
N069498-005B	SAMP	1	13474.5	54112.4	24.9	NR!	30-150
N069498-006B	SAMP	1	13732.4	54112.4	25.38	NR!	30-150
N069498-007B	SAMP	1	15752.1	54112.4	29.11	NR!	30-150
N069498-008B	SAMP	1	13266.6	54112.4	24.52	NR!	30-150
CCV10	CCV	1	17050	54112.4	31.51	PASS	30-150
CCB10	CCB	1	17220.2	54112.4	31.82	PASS	30-150
ICSA5	ICSA	1	17563.9	54112.4	32.46	PASS	30-150
ICSAB5	ICSAB	1	17571.7	54112.4	32.47	PASS	30-150

INTERNAL STANDARD: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]					72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	17199.1	17199.1	100	PASS	30-150	62044.8	62044.8	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	17383.7	17199.1	101.07	PASS	30-150	61865.3	62044.8	99.71	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	17099	17199.1	99.42	PASS	30-150	61219.4	62044.8	98.67	PASS	30-150
Std3-5/50 ppb	ICAL	1	17053.4	17199.1	99.15	PASS	30-150	61029.9	62044.8	98.36	PASS	30-150
Std4-10/100 ppb	ICAL	1	16748.6	17199.1	97.38	PASS	30-150	61363.3	62044.8	98.9	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	16859.8	17199.1	98.03	PASS	30-150	61225.1	62044.8	98.68	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	16586.2	17199.1	96.44	PASS	30-150	60591.6	62044.8	97.66	PASS	30-150
Std7-100/1000 ppb	ICAL	1	16517.2	17199.1	96.04	PASS	30-150	58450.6	62044.8	94.21	PASS	30-150
Std8-200/2000 ppb	ICAL	1	15996.8	17199.1	93.01	PASS	30-150	56620.9	62044.8	91.26	PASS	30-150
ICV	ICV	1	16673	17199.1	96.94	PASS	30-150	60744.4	62044.8	97.9	PASS	30-150
ICB	ICB	1	16804.2	17199.1	97.7	PASS	30-150	60794.5	62044.8	97.98	PASS	30-150
LLCCV1	CCV	1	16598.4	17199.1	96.51	PASS	30-150	59880.2	62044.8	96.51	PASS	30-150
LLICV2	CCV	1	16759.7	17199.1	97.45	PASS	30-150	60161.2	62044.8	96.96	PASS	30-150
MLCCV1	CCV	1	16531.7	17199.1	96.12	PASS	30-150	60341.8	62044.8	97.26	PASS	30-150
ICSA1	ICSA	1	16271.5	17199.1	94.61	PASS	30-150	57259.7	62044.8	92.29	PASS	30-150
ICSA1	ICSA	1	17651.8	17199.1	102.63	PASS	30-150	63268.3	62044.8	101.97	PASS	30-150
ICSAB1	ICSAB	1	17605.1	17199.1	102.36	PASS	30-150	64087	62044.8	103.29	PASS	30-150
CCV1	CCV	1	17122.3	17199.1	99.55	PASS	30-150	60145.5	62044.8	96.94	PASS	30-150
CCB1	CCB	1	17002.2	17199.1	98.86	PASS	30-150	60414.3	62044.8	97.37	PASS	30-150
ICSA2	ICSA	1	16799.8	17199.1	97.68	PASS	30-150	59631.4	62044.8	96.11	PASS	30-150
ICSAB2	ICSAB	1	17048.9	17199.1	99.13	PASS	30-150	59723	62044.8	96.26	PASS	30-150
N069263-001B	SAMP	1	15659.7	17199.1	91.05	PASS	30-150	52862.8	62044.8	85.2	PASS	30-150
N069498-003B	SAMP	1	14337.4	17199.1	83.36	PASS	30-150	48451.4	62044.8	78.09	PASS	30-150
N069498-006B	SAMP	1	15170.4	17199.1	88.2	PASS	30-150	51690.2	62044.8	83.31	PASS	30-150
N069498-008B	SAMP	1	14270.7	17199.1	82.97	PASS	30-150	47680.2	62044.8	76.85	PASS	30-150
CCV2	CCV	1	16337.1	17199.1	94.99	PASS	30-150	55940.7	62044.8	90.16	PASS	30-150
CCB2	CCB	1	15821	17199.1	91.99	PASS	30-150	55526	62044.8	89.49	PASS	30-150
CCV3	CCV	1	18001	17199.1	104.66	PASS	30-150	62737.3	62044.8	101.12	PASS	30-150
CCB3	CCB	1	17885.4	17199.1	103.99	PASS	30-150	61750.2	62044.8	99.53	PASS	30-150
CCV4	CCV	1	17333.7	17199.1	100.78	PASS	30-150	59867.8	62044.8	96.49	PASS	30-150
CCB4	CCB	1	17205.7	17199.1	100.04	PASS	30-150	58661.3	62044.8	94.55	PASS	30-150
CCV5	CCV	1	17848.7	17199.1	103.78	PASS	30-150	60008.4	62044.8	96.72	PASS	30-150
CCB5	CCB	1	17832	17199.1	103.68	PASS	30-150	58796.2	62044.8	94.76	PASS	30-150
CCV6	CCV	1	17563.9	17199.1	102.12	PASS	30-150	59058.3	62044.8	95.19	PASS	30-150
CCB6	CCB	1	17032.2	17199.1	99.03	PASS	30-150	57459.3	62044.8	92.61	PASS	30-150
ICSA3	ICSA	1	17340.3	17199.1	100.82	PASS	30-150	57580.9	62044.8	92.81	PASS	30-150
ICSAB3	ICSAB	1	17185.7	17199.1	99.92	PASS	30-150	57266.5	62044.8	92.3	PASS	30-150
CCV7	CCV	1	16475	17199.1	95.79	PASS	30-150	55052.2	62044.8	88.73	PASS	30-150
CCB7	CCB	1	16328.2	17199.1	94.94	PASS	30-150	53811.4	62044.8	86.73	PASS	30-150
CCV8	CCV	1	17446	17199.1	101.44	PASS	30-150	56521.6	62044.8	91.1	PASS	30-150
CCB8	CCB	1	16481.7	17199.1	95.83	PASS	30-150	55135.8	62044.8	88.86	PASS	30-150

INTERNAL STANDARD: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]					72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
CCV9	CCV	1	17117.9	17199.1	99.53	PASS	30-150	57523.9	62044.8	92.71	PASS	30-150
CCB9	CCB	1	17179.1	17199.1	99.88	PASS	30-150	55618.6	62044.8	89.64	PASS	30-150
ICSA4	ICSA	1	16805.3	17199.1	97.71	PASS	30-150	55794.6	62044.8	89.93	PASS	30-150
ICSAB4	ICSAB	1	16976.6	17199.1	98.71	PASS	30-150	55699.9	62044.8	89.77	PASS	30-150

SERIAL DILUTION/ POST DIGESTION SPIKE



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ICP-MS-Metals in Water

Work Order No.: N069498
 Test Method: EPA 6020
 Analysis Date: 10/29, 30/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 113638

Instrument ID: NV00922-ICP8 (ICPMS-03)
 Instrument Description: Agilent 7800


Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Cr & Se. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069263-001B DT 5x	Arsenic	As	µg/L	11.44407	PASS	12.59956	9.17%	10
N069263-001B DT 5x	Molybdenum	Mo	µg/L	24.71785	PASS	24.13066	2.43%	10
N069263-001B DT 5x	Chromium	Cr	µg/L	0	NA	0.5638568	100.00%	10
N069263-001B DT 50x	Manganese	Mn	µg/L	443.7973	PASS	460.5615	3.64%	10
N069263-001B DT 5x	Selenium	Se	µg/L	0	NA	1.225642	100.00%	10

Reviewed by:

 11/27/2024

Note: NA - Not Applicable

11/27/24 23:01

N069498_6020_113638_DT

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID N069263-001B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: ZZZZZZ	Batch ID: 113638	TestNo: EPA 6020 EPA 3010A	Analysis Date: 10/29/2024	SeqNo: 6274048							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	21.373	0.10	10.00	12.60	87.7	80	120				
Molybdenum	34.223	0.50	10.00	24.13	101	80	120				

Sample ID N069263-001B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195051						
Client ID: ZZZZZZ	Batch ID: 113638	TestNo: EPA 6020 EPA 3010A	Analysis Date: 10/30/2024	SeqNo: 6278639							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	1352.698	5.0	1000	460.6	89.2	80	120				

Sample ID N069263-001B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 194972						
Client ID: ZZZZZZ	Batch ID: 113638	TestNo: EPA 6020 EPA 3010A	Analysis Date: 10/29/2024	SeqNo: 6306089							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	10.407	0.50	10.00	1.226	91.8	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069498
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID N069263-001B-PS	SampType: PS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 194971						
Client ID: ZZZZZZ	Batch ID: 113638	TestNo: EPA 6020	EPA 3010A	Analysis Date: 10/29/2024	SeqNo: 6273905						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.802	1.0	10.00	0.5639	92.4	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

MDL STUDY



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Method Detection Limit

Analytical Method: **EPA 6020B**
 Digestion Method: **3010**
 Date of Analysis: **2/15-2/19/2024**
 Digestion Date: **2/15-2/19/2024**
 Instrument Name: **NV0922-ICP8**
 Analysts: **DJ**

Matrix: **Water**
 Unit: **ug/L**

Analyte	1	2	3	4	5	6	7	AMT SPIKED, ppb	SD	MDLs	PQL	MDL
ANTIMONY	0.543	0.521	0.559	0.527	0.573	0.559	0.572	0.50	0.0208	0.0653	0.50	0.0653
ARSENIC	0.102	0.123	0.107	0.116	0.096	0.161	0.115	0.10	0.0212	0.0668	0.10	0.0668
BARIUM	1.103	1.065	1.083	1.081	1.094	1.066	1.060	1.00	0.0159	0.0499	1.00	0.0499
BERYLLIUM	0.533	0.524	0.557	0.541	0.564	0.565	0.502	0.50	0.0233	0.0733	0.50	0.0733
CADMIUM	0.523	0.562	0.529	0.559	0.491	0.544	0.533	0.50	0.0243	0.0763	0.50	0.0763
CHROMIUM	1.015	0.996	1.000	1.100	1.030	1.081	1.052	1.00	0.0402	0.1264	1.00	0.1264
COBALT	0.524	0.523	0.541	0.559	0.528	0.534	0.551	0.50	0.0138	0.0433	0.50	0.0433
COPPER	1.043	1.028	1.026	1.016	1.068	1.098	1.021	1.00	0.0301	0.0947	1.00	0.0947
IRON	11.041	10.660	10.783	11.168	10.989	10.919	10.802	10.00	0.1734	0.5449	10.00	0.5449
LEAD	1.076	1.068	1.091	1.077	1.083	1.040	1.040	1.00	0.0203	0.0637	1.00	0.0637
MANGANESE	0.558	0.529	0.519	0.541	0.532	0.525	0.554	0.50	0.0148	0.0465	0.50	0.0465
MOLYBDENUM	0.564	0.571	0.574	0.537	0.518	0.554	0.550	0.50	0.0200	0.0629	0.50	0.0629
NICKEL	1.025	1.059	1.057	0.947	0.974	1.069	1.036	1.00	0.0465	0.1461	1.00	0.1461
SELENIUM	0.679	0.622	0.547	0.429	0.439	0.552	0.506	0.50	0.0911	0.2863	0.50	0.2863
SILVER	0.525	0.538	0.555	0.545	0.551	0.530	0.518	0.50	0.0140	0.0439	0.50	0.0439
THALLIUM	0.503	0.493	0.491	0.555	0.525	0.504	0.499	0.50	0.0227	0.0713	0.50	0.0713
URANIUM	0.517	0.513	0.528	0.542	0.526	0.533	0.523	0.50	0.0097	0.0306	0.50	0.0306
VANADIUM	1.081	1.076	1.027	1.054	1.069	1.043	1.080	1.00	0.0209	0.0658	1.00	0.0658
ZINC	10.646	10.643	10.661	10.514	10.927	10.516	10.419	10.00	0.1631	0.5126	10.00	0.7534
ALUMINUM	10.305	10.064	10.146	10.336	10.592	10.459	10.670	10.00	0.2224	0.6990	10.00	0.6990



Method Detection Limit (Blanks)

Analyte	1	2	3	4	5	6	7	Mean	SD	MDLb
ANTIMONY	0.011	0.009	0.001	0.001	0.003	0.018	0.012	0.0080	0.0065	0.0285
ARSENIC	0.021	0.013	0.004	0.008	0.000	0.001	0.000	0.0067	0.0079	0.0316
BARIUM	0.000	0.018	0.014	0.000	0.003	0.001	0.003	0.0054	0.0072	0.0280
BERYLLIUM	0.003	0.005	0.007	0.002	0.005	0.014	0.003	0.0057	0.0039	0.0179
CADMIUM	0.000	0.002	0.000	0.000	0.000	0.001	0.000	0.0004	0.0007	0.0026
CHROMIUM	0.000	0.000	0.000	0.000	0.000	0.001	0.004	0.0008	0.0016	0.0059
COBALT	0.000	0.000	0.000	0.000	0.000	0.003	0.001	0.0006	0.0012	0.0042
COPPER	0.000	0.000	0.069	0.000	0.010	0.000	0.000	0.0113	0.0258	0.0924
IRON	0.000	0.000	0.000	0.236	0.187	0.020	0.112	0.0792	0.0996	0.3922
LEAD	0.001	0.000	0.000	0.002	0.001	0.001	0.001	0.0011	0.0009	0.0037
MANGANESE	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.0008	0.0020	0.0071
MOLYBDENUM	0.017	0.013	0.007	0.015	0.004	0.022	0.009	0.0126	0.0062	0.0321
NICKEL	0.000	0.000	0.062	0.000	0.000	0.017	0.013	0.0132	0.0228	0.0849
SELENIUM	0.007	0.027	0.000	0.000	0.019	0.000	0.013	0.0093	0.0107	0.0428
SILVER	0.004	0.002	0.002	0.000	0.000	0.001	0.000	0.0012	0.0014	0.0057
THALLIUM	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.0003	0.0008	0.0028
URANIUM	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.0001	0.0004	0.0013
VANADIUM	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.0003	0.0004	0.0016
ZINC	0.000	0.000	0.257	0.175	0.513	0.000	0.000	0.1350	0.1968	0.7534
ALUMINUM	0.000	0.000	0.106	0.000	0.000	0.170	0.295	0.0816	0.1160	0.4460

Note: Higher value between **MDLs** and **MDLb** will be used.



LOD PQL VERIFICATION 2024

Analytical Method: EPA 6020 / 200.8
Digestion Method: EPA 3010A
Date of Analysis: 1/20/2024
Digestion Date: 1/20/2024
Instrument Name: ICPMS3
Analysts: DBJ

Matrix: Water
Units: ug/L

N062388

Analyte	MDLs	LOD	ACTUAL LOD	PQL	ACTUAL PQL	% RECOVERY
ANTIMONY	0.0652	0.025	0.288	0.50	0.552	110
ARSENIC	0.0667	0.050	0.055	0.10	0.107	107
BARIUM	0.0498	0.500	0.547	1.00	1.049	105
BERYLLIUM	0.0732	0.250	0.253	0.50	0.502	100
CADMIUM	0.0763	0.250	0.255	0.50	0.498	100
CHROMIUM	0.1263	0.500	0.536	1.00	1.048	105
COBALT	0.0433	0.250	0.261	0.50	0.518	104
COPPER	0.0946	0.100	0.620	1.00	0.941	94
IRON	0.5444	5.000	5.219	10.00	10.531	105
LEAD	0.0636	0.500	0.513	1.00	1.035	104
MANGANESE	0.0464	0.250	0.261	0.50	0.602	120
MOLYBDENUM	0.0628	0.250	0.275	0.50	0.534	107
NICKEL	0.1460	0.500	0.492	1.00	1.184	118
SELENIUM	0.2861	0.250	0.272	0.50	0.536	107
SILVER	0.0438	0.250	0.277	0.50	0.534	107
THALLIUM	0.0712	0.250	0.264	0.50	0.508	102
URANIUM	0.0306	0.250	0.261	0.50	0.523	105
VANADIUM	0.0657	0.500	0.557	1.00	1.063	106
ZINC	0.5121	5.000	5.394	10.00	10.481	105
ALUMINUM	0.6983	5.000	5.519	10.00	10.395	104

ARCADIS

Project: PG&E Topock - RCM

Project No.: 30211191

ASSET Laboratories Work Order:

N069543

ANALYTICAL and QC RESULTS SAMPLE RECEIVING ITEMS

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November 15, 2024

Laura Madsen
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661
TEL: 1 720 344 3771
FAX:

Workorder No.: N069543

RE: PG&E Topock - RCM, 30211191

Attention: Laura Madsen

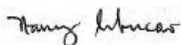
Enclosed are the results for sample(s) received on October 29, 2024 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

The reported results relate only to the samples as received and parameters tested by the laboratory.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,



Nancy Sibucio
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - Las Vegas.



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CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - RCM, 30211191
Lab Order: N069543

CASE NARRATIVE**SAMPLE RECEIVING/GENERAL COMMENTS:**

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 218.6:

Dilution was necessary for some samples due to matrix interference. Samples were analyzed at lower dilution however matrix spike recovery and/or retention time criteria were not met indicating possible matrix interference. Samples were reported at dilution that meets matrix spike recovery limit and the detected peak within retention time window.

Because the results for total dissolved chromium (0 ug/L) and hexavalent chromium (1.1 ug/L) for sample N069543-002 (MW-62-190-Q424) are discrepant, sample re-analysis and Matrix Spike protocol were performed and result confirmed initial analysis.

Because the results for total dissolved chromium (1.5 ug/L) and hexavalent chromium (0.36 ug/L) for sample N069543-007 (MW-83-245-Q424) are discrepant, sample re-analysis and Matrix Spike protocol were performed and result confirmed initial analysis.

Because the results for total dissolved chromium (6.0 ug/L) and hexavalent chromium (8.0 ug/L) for sample N069543-008 (TW-04-Q424) are discrepant, sample re-analysis and Matrix Spike protocol were performed and result confirmed initial analysis.

Because the results for total dissolved chromium (5.1 ug/L) and hexavalent chromium (7.7 ug/L) for sample N069543-009 (MW-932-Q424) are discrepant, sample re-analysis and Matrix Spike protocol were performed and result confirmed initial analysis.

Because the results for total dissolved chromium (3.7 ug/L) and hexavalent chromium (2.1 ug/L) for sample N069543-019 (MW-933-Q424) are discrepant, sample re-analysis and Matrix Spike protocol were performed and result confirmed initial analysis.

Because the results for total dissolved chromium (3.9 ug/L) and hexavalent chromium (2.4 ug/L) for

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CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - RCM, 30211191
Lab Order: N069543

CASE NARRATIVE

sample N069543-020 (TWB-01-Q424) are discrepant, sample re-analysis and Matrix Spike protocol were performed and result confirmed initial analysis.

Analytical Comments for EPA 300.0:

Dilution was necessary due to precipitation of samples upon the addition of eluent.

Analytical Comments for EPA 6020_Dissolved:

Because the results for total dissolved chromium (0 ug/L) and hexavalent chromium (1.1 ug/L) for sample N069543-002 (MW-62-190-Q424) are discrepant, sample from both the total dissolved chromium and hexavalent chromium containers were redigested and analyzed for total dissolved chromium. The results from the redigested samples were 0.04 and 0.3 ug/L, respectively. Since these data confirmed the original result for total dissolved chromium, the original result is reported.

Because the results for total dissolved chromium (1.5 ug/L) and hexavalent chromium (0.36 ug/L) for sample N069543-007 (MW-83-245-Q424) are discrepant, sample from both the total dissolved chromium and hexavalent chromium containers were redigested and analyzed for total dissolved chromium. The results from the redigested samples were 1.8 and 2.0 ug/L, respectively. Since these data confirmed the original result for total dissolved chromium, the original result is reported.

Because the results for total dissolved chromium (6.0 ug/L) and hexavalent chromium (8.0 ug/L) for sample N069543-008 (TW-04-Q424) are discrepant, sample from both the total dissolved chromium and hexavalent chromium containers were redigested and analyzed for total dissolved chromium. The results from the redigested samples were 7.1 and 9.5 ug/L, respectively. Since these data confirmed the original result for total dissolved chromium, the original result is reported.

Because the results for total dissolved chromium (5.1 ug/L) and hexavalent chromium (7.7 ug/L) for sample N069543-009 (MW-932-Q424) are discrepant, sample from both the total dissolved chromium and hexavalent chromium containers were redigested and analyzed for total dissolved chromium. The results from the redigested samples were 6.0 and 8.8 ug/L, respectively. Since these data confirmed the original result for total dissolved chromium, the original result is reported.

Because the results for total dissolved chromium (3.7 ug/L) and hexavalent chromium (2.1 ug/L) for sample N069543-019 (MW-933-Q424) are discrepant, sample from both the total dissolved chromium and hexavalent chromium containers were redigested and analyzed for total dissolved chromium. The results from the redigested samples were 4.3 and 4.1 ug/L, respectively. Since these data confirmed the original result for total dissolved chromium, the original result is reported.

Because the results for total dissolved chromium (3.9 ug/L) and hexavalent chromium (2.4 ug/L) for



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CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - RCM, 30211191
Lab Order: N069543

CASE NARRATIVE

sample N069543-020 (TWB-01-Q424) are discrepant, sample from both the total dissolved chromium and hexavalent chromium containers were redigested and analyzed for total dissolved chromium. The results from the redigested samples were 4.7 and 4.0 ug/L, respectively. Since these data confirmed the original result for total dissolved chromium, the original result is reported.

N069543-005B was reanalyzed several times due to RSD not meeting the 15% criteria for Se. Se was reported at 0.709 ug/L with the lowest RSD of 15.7%. The results are comparable on all runs. Please see attached Corrective Action Report 8168.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Selenium in QC samples N069543-002B-MS and N069543-002B-MSD possibly due to matrix interference. Post Spike (PS) and Dilution Test (DT) were performed however, PS failed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.



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ASSET Laboratories

Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - RCM, 30211191
Lab Order: N069543
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N069543-001A	MW-62-110-Q424	Groundwater	10/29/2024 2:40:00 PM	10/29/2024	11/15/2024
N069543-001B	MW-62-110-Q424	Groundwater	10/29/2024 2:40:00 PM	10/29/2024	11/15/2024
N069543-001C	MW-62-110-Q424	Groundwater	10/29/2024 2:40:00 PM	10/29/2024	11/15/2024
N069543-002A	MW-62-190-Q424	Groundwater	10/29/2024 2:50:00 PM	10/29/2024	11/15/2024
N069543-002B	MW-62-190-Q424	Groundwater	10/29/2024 2:50:00 PM	10/29/2024	11/15/2024
N069543-002C	MW-62-190-Q424	Groundwater	10/29/2024 2:50:00 PM	10/29/2024	11/15/2024
N069543-003A	MW-921-Q424	Groundwater	10/29/2024 3:00:00 PM	10/29/2024	11/15/2024
N069543-003B	MW-921-Q424	Groundwater	10/29/2024 3:00:00 PM	10/29/2024	11/15/2024
N069543-003C	MW-921-Q424	Groundwater	10/29/2024 3:00:00 PM	10/29/2024	11/15/2024
N069543-004A	MW-83-090-Q424	Groundwater	10/29/2024 2:16:00 PM	10/29/2024	11/15/2024
N069543-004B	MW-83-090-Q424	Groundwater	10/29/2024 2:16:00 PM	10/29/2024	11/15/2024
N069543-004C	MW-83-090-Q424	Groundwater	10/29/2024 2:16:00 PM	10/29/2024	11/15/2024
N069543-005A	MW-83-180-Q424	Groundwater	10/29/2024 1:43:00 PM	10/29/2024	11/15/2024
N069543-005B	MW-83-180-Q424	Groundwater	10/29/2024 1:43:00 PM	10/29/2024	11/15/2024
N069543-005C	MW-83-180-Q424	Groundwater	10/29/2024 1:43:00 PM	10/29/2024	11/15/2024
N069543-006A	MW-83-225-Q424	Groundwater	10/29/2024 1:02:00 PM	10/29/2024	11/15/2024
N069543-006B	MW-83-225-Q424	Groundwater	10/29/2024 1:02:00 PM	10/29/2024	11/15/2024
N069543-006C	MW-83-225-Q424	Groundwater	10/29/2024 1:02:00 PM	10/29/2024	11/15/2024
N069543-007A	MW-83-245-Q424	Groundwater	10/29/2024 12:10:00 PM	10/29/2024	11/15/2024
N069543-007B	MW-83-245-Q424	Groundwater	10/29/2024 12:10:00 PM	10/29/2024	11/15/2024
N069543-007C	MW-83-245-Q424	Groundwater	10/29/2024 12:10:00 PM	10/29/2024	11/15/2024
N069543-008A	TW-04-Q424	Groundwater	10/29/2024 11:04:00 AM	10/29/2024	11/15/2024
N069543-008B	TW-04-Q424	Groundwater	10/29/2024 11:04:00 AM	10/29/2024	11/15/2024
N069543-009A	MW-932-Q424	Groundwater	10/29/2024 11:14:00 AM	10/29/2024	11/15/2024
N069543-009B	MW-932-Q424	Groundwater	10/29/2024 11:14:00 AM	10/29/2024	11/15/2024
N069543-010A	MW-84-057-Q424	Groundwater	10/29/2024 9:45:00 AM	10/29/2024	11/15/2024
N069543-010B	MW-84-057-Q424	Groundwater	10/29/2024 9:45:00 AM	10/29/2024	11/15/2024
N069543-010C	MW-84-057-Q424	Groundwater	10/29/2024 9:45:00 AM	10/29/2024	11/15/2024
N069543-011A	MW-84-095-Q424	Groundwater	10/29/2024 9:16:00 AM	10/29/2024	11/15/2024



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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - RCM, 30211191
Lab Order: N069543
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N069543-011B	MW-84-095-Q424	Groundwater	10/29/2024 9:16:00 AM	10/29/2024	11/15/2024
N069543-011C	MW-84-095-Q424	Groundwater	10/29/2024 9:16:00 AM	10/29/2024	11/15/2024
N069543-012A	MW-84-132-Q424	Groundwater	10/29/2024 11:12:00 AM	10/29/2024	11/15/2024
N069543-012B	MW-84-132-Q424	Groundwater	10/29/2024 11:12:00 AM	10/29/2024	11/15/2024
N069543-012C	MW-84-132-Q424	Groundwater	10/29/2024 11:12:00 AM	10/29/2024	11/15/2024
N069543-013A	MW-935-Q424	Groundwater	10/29/2024 11:22:00 AM	10/29/2024	11/15/2024
N069543-013B	MW-935-Q424	Groundwater	10/29/2024 11:22:00 AM	10/29/2024	11/15/2024
N069543-013C	MW-935-Q424	Groundwater	10/29/2024 11:22:00 AM	10/29/2024	11/15/2024
N069543-014A	MW-84-193-Q424	Groundwater	10/29/2024 10:36:00 AM	10/29/2024	11/15/2024
N069543-014B	MW-84-193-Q424	Groundwater	10/29/2024 10:36:00 AM	10/29/2024	11/15/2024
N069543-014C	MW-84-193-Q424	Groundwater	10/29/2024 10:36:00 AM	10/29/2024	11/15/2024
N069543-015A	MW-37D-Q424	Groundwater	10/29/2024 12:24:00 PM	10/29/2024	11/15/2024
N069543-015B	MW-37D-Q424	Groundwater	10/29/2024 12:24:00 PM	10/29/2024	11/15/2024
N069543-015C	MW-37D-Q424	Groundwater	10/29/2024 12:24:00 PM	10/29/2024	11/15/2024
N069543-016A	MW-37S-Q424	Groundwater	10/29/2024 1:01:00 PM	10/29/2024	11/15/2024
N069543-016B	MW-37S-Q424	Groundwater	10/29/2024 1:01:00 PM	10/29/2024	11/15/2024
N069543-016C	MW-37S-Q424	Groundwater	10/29/2024 1:01:00 PM	10/29/2024	11/15/2024
N069543-017A	MW-916-Q424	Groundwater	10/29/2024 1:11:00 PM	10/29/2024	11/15/2024
N069543-017B	MW-916-Q424	Groundwater	10/29/2024 1:11:00 PM	10/29/2024	11/15/2024
N069543-017C	MW-916-Q424	Groundwater	10/29/2024 1:11:00 PM	10/29/2024	11/15/2024
N069543-018A	EB-712-Q424	Groundwater	10/29/2024 2:30:00 PM	10/29/2024	11/15/2024
N069543-019A	MW-933-Q424	Groundwater	10/29/2024 10:09:00 AM	10/29/2024	11/15/2024
N069543-019B	MW-933-Q424	Groundwater	10/29/2024 10:09:00 AM	10/29/2024	11/15/2024
N069543-020A	TWB-01-Q424	Groundwater	10/29/2024 9:59:00 AM	10/29/2024	11/15/2024
N069543-020B	TWB-01-Q424	Groundwater	10/29/2024 9:59:00 AM	10/29/2024	11/15/2024
N069543-021A	EB-711-Q424	Groundwater	10/29/2024 3:10:00 PM	10/29/2024	11/15/2024



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-001

Client Sample ID: MW-62-110-Q424
Collection Date: 10/29/2024 2:40:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241030A	QC Batch: R195027						Analyst: RAB
Hexavalent Chromium	ND	0.19	1.0		µg/L	5	10/30/2024 08:11 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113718					10/30/2024	Analyst: DJ
Chromium	ND	0.13	1.0		µg/L	1	11/4/2024 01:56 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-002

Client Sample ID: MW-62-190-Q424
Collection Date: 10/29/2024 2:50:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241030A	QC Batch: R195027				PrepDate:		Analyst: RAB
Hexavalent Chromium	1.1	0.19	1.0		µg/L	5	10/30/2024 08:30 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113718				PrepDate: 10/30/2024		Analyst: DJ
Chromium	ND	0.13	1.0		µg/L	1	11/4/2024 02:02 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-003

Client Sample ID: MW-921-Q424
Collection Date: 10/29/2024 3:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241113A	QC Batch: R195632				PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.19	1.0		µg/L	5	11/13/2024 03:36 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113718				PrepDate: 10/30/2024		Analyst: DJ
Chromium	ND	0.13	1.0		µg/L	1	11/4/2024 02:32 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT:	ARCADIS U.S., Inc. - California	Client Sample ID:	MW-83-090-Q424
Lab Order:	N069543		
Project:	PG&E Topock - RCM, 30211191	Collection Date:	10/29/2024 2:16:00 PM
Lab ID:	N069543-004	Matrix:	GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241030A	QC Batch: R195027	PrepDate:	Analyst: RAB
Hexavalent Chromium	49 0.39	2.0	10 10/30/2024 11:08 AM
		µg/L	

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113718	PrepDate: 10/30/2024	Analyst: DJ
Chromium	49 0.13	1.0	1 11/4/2024 02:55 AM
		µg/L	

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-005

Client Sample ID: MW-83-180-Q424
Collection Date: 10/29/2024 1:43:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241030A	QC Batch: R195027				PrepDate:		Analyst: RAB
Hexavalent Chromium	8.2	0.19	1.0		µg/L	5	10/30/2024 09:08 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113718				PrepDate: 10/30/2024		Analyst: DJ
Chromium	8.8	0.13	1.0		µg/L	1	11/4/2024 03:01 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-006

Client Sample ID: MW-83-225-Q424
Collection Date: 10/29/2024 1:02:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241030A	QC Batch: R195027				PrepDate:		Analyst: RAB
Hexavalent Chromium	16	0.19	1.0		µg/L	5	10/30/2024 05:02 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113718				PrepDate: 10/30/2024		Analyst: DJ
Chromium	17	0.13	1.0		µg/L	1	11/4/2024 03:07 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-007

Client Sample ID: MW-83-245-Q424
Collection Date: 10/29/2024 12:10:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241030A	QC Batch: R195027				PrepDate:		Analyst: RAB
Hexavalent Chromium	0.36	0.039	0.20		µg/L	1	10/30/2024 12:16 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113718				PrepDate: 10/30/2024		Analyst: DJ
Chromium	1.5	0.13	1.0		µg/L	1	11/4/2024 03:13 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-008

Client Sample ID: TW-04-Q424
Collection Date: 10/29/2024 11:04:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241030A	QC Batch: R195027				PrepDate:		Analyst: RAB
Hexavalent Chromium	8.0	0.19	1.0		µg/L	5	10/30/2024 09:45 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113718				PrepDate: 10/30/2024		Analyst: DJ
Chromium	6.0	0.13	1.0		µg/L	1	11/4/2024 03:19 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-009

Client Sample ID: MW-932-Q424
Collection Date: 10/29/2024 11:14:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241030A	QC Batch: R195027				PrepDate:		Analyst: RAB
Hexavalent Chromium	7.7	0.19	1.0		µg/L	5	10/30/2024 10:04 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113718				PrepDate: 10/30/2024		Analyst: DJ
Chromium	5.1	0.13	1.0		µg/L	1	11/4/2024 03:25 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-010

Client Sample ID: MW-84-057-Q424
Collection Date: 10/29/2024 9:45:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241030A	QC Batch: R195027						Analyst: RAB
Hexavalent Chromium	32	0.19	1.0		µg/L	5	10/30/2024 11:19 AM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113718					10/30/2024	Analyst: DJ
Chromium	33	0.13	1.0		µg/L	1	11/4/2024 03:31 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California	Client Sample ID: MW-84-095-Q424
Lab Order: N069543	
Project: PG&E Topock - RCM, 30211191	Collection Date: 10/29/2024 9:16:00 AM
Lab ID: N069543-011	Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
				EPA 218.6			
RunID: NV00922-IC7_241030A	QC Batch: R195027			PrepDate:	Analyst: RAB		
Hexavalent Chromium	0.86	0.039	0.20		µg/L	1	10/30/2024 12:44 PM
DISSOLVED METALS BY ICP-MS							
				EPA 6020			
RunID: NV00922-ICP8_241103B	QC Batch: 113718			PrepDate: 10/30/2024	Analyst: DJ		
Chromium	ND	0.13	1.0		µg/L	1	11/4/2024 03:37 AM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-012

Client Sample ID: MW-84-132-Q424
Collection Date: 10/29/2024 11:12:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241030A	QC Batch: R195027				PrepDate:		Analyst: RAB
Hexavalent Chromium	2.0	0.039	0.20		µg/L	1	10/30/2024 01:03 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113718				PrepDate: 10/30/2024		Analyst: DJ
Chromium	2.4	0.13	1.0		µg/L	1	11/4/2024 03:43 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-013

Client Sample ID: MW-935-Q424
Collection Date: 10/29/2024 11:22:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241030A	QC Batch: R195027				PrepDate:		Analyst: RAB
Hexavalent Chromium	2.6	0.039	0.20		µg/L	1	10/30/2024 01:22 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113718				PrepDate: 10/30/2024		Analyst: DJ
Chromium	2.5	0.13	1.0		µg/L	1	11/4/2024 04:07 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-014

Client Sample ID: MW-84-193-Q424
Collection Date: 10/29/2024 10:36:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241030A	QC Batch: R195027				PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.19	1.0		µg/L	5	10/30/2024 10:23 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113718				PrepDate: 10/30/2024		Analyst: DJ
Chromium	ND	0.13	1.0		µg/L	1	11/4/2024 04:13 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-015

Client Sample ID: MW-37D-Q424
Collection Date: 10/29/2024 12:24:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241030A	QC Batch: R195027				PrepDate:		Analyst: RAB
Hexavalent Chromium	2.9	0.039	0.20		µg/L	1	10/30/2024 02:09 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113718				PrepDate: 10/30/2024		Analyst: DJ
Chromium	3.2	0.13	1.0		µg/L	1	11/4/2024 04:19 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California	Client Sample ID: MW-37S-Q424
Lab Order: N069543	
Project: PG&E Topock - RCM, 30211191	Collection Date: 10/29/2024 1:01:00 PM
Lab ID: N069543-016	Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241030A	QC Batch: R195027	PrepDate:	Analyst: RAB
Hexavalent Chromium	9.6 0.19	1.0	µg/L 5 10/30/2024 11:29 AM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113718	PrepDate: 10/30/2024	Analyst: DJ
Chromium	9.7 0.13	1.0	µg/L 1 11/4/2024 04:25 AM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-017

Client Sample ID: MW-916-Q424
Collection Date: 10/29/2024 1:11:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241030A	QC Batch: R195027				PrepDate:		Analyst: RAB
Hexavalent Chromium	9.5	0.19	1.0		µg/L	5	10/30/2024 06:36 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113718				PrepDate: 10/30/2024		Analyst: DJ
Chromium	9.4	0.13	1.0		µg/L	1	11/4/2024 04:30 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-018

Client Sample ID: EB-712-Q424
Collection Date: 10/29/2024 2:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241031A	QC Batch: R195071			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	10/31/2024 10:46 AM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-019

Client Sample ID: MW-933-Q424
Collection Date: 10/29/2024 10:09:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241031A	QC Batch: R195071				PrepDate:		Analyst: RAB
Hexavalent Chromium	2.1	0.19	1.0		µg/L	5	10/31/2024 04:44 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113718				PrepDate: 10/30/2024		Analyst: DJ
Chromium	3.7	0.13	1.0		µg/L	1	11/4/2024 04:36 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California	Client Sample ID: TWB-01-Q424
Lab Order: N069543	
Project: PG&E Topock - RCM, 30211191	Collection Date: 10/29/2024 9:59:00 AM
Lab ID: N069543-020	Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241031A	QC Batch: R195071	PrepDate:	Analyst: RAB
Hexavalent Chromium	2.4 0.19	1.0	µg/L 5 10/31/2024 05:22 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113718	PrepDate: 10/30/2024	Analyst: DJ
Chromium	3.9 0.13	1.0	µg/L 1 11/4/2024 04:42 AM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-021

Client Sample ID: EB-711-Q424
Collection Date: 10/29/2024 3:10:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241031A	QC Batch: R195071			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	10/31/2024 11:43 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID MB-R195027	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027							
Client ID: PBW	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277493							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.039	0.20									

Sample ID LCS-R195027	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027							
Client ID: LCSW	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277494							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.712	0.039	0.20	5.000	0	94.2	90	110				

Sample ID N069498-001ADUP	SampType: DUP	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027							
Client ID: ZZZZZ	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277496							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	344.785	1.9	10						340.7	1.18	20	

Sample ID N069498-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027							
Client ID: ZZZZZ	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277497							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	583.290	1.9	10	250.0	340.7	97.0	90	110				

Sample ID N069543-004AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027							
Client ID: ZZZZZ	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277501							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	100.424	0.39	2.0	50.00	49.31	102	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069543-004AMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027							
Client ID: ZZZZZZ	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277502								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	99.909	0.39	2.0	50.00	49.31	101	90	110	100.4	0.514	20	

Sample ID N069543-010AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027							
Client ID: ZZZZZZ	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277506								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	58.876	0.19	1.0	25.00	32.39	106	90	110				

Sample ID N069543-016AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027							
Client ID: ZZZZZZ	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277507								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	35.361	0.19	1.0	25.00	9.564	103	90	110				

Sample ID N069543-012AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027							
Client ID: ZZZZZZ	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277510								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	7.458	0.039	0.20	5.000	2.046	108	90	110				

Sample ID N069543-013AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027							
Client ID: ZZZZZZ	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277512								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	7.854	0.039	0.20	5.000	2.650	104	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| (M) Test is modified | | |



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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069543-007AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027							
Client ID: ZZZZZZ	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277513							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.335	0.039	0.20	1.000	0.3601	97.5	90	110				

Sample ID N069543-015AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027							
Client ID: ZZZZZZ	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277517							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	8.156	0.039	0.20	5.000	2.932	104	90	110				

Sample ID N069543-006AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027							
Client ID: ZZZZZZ	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277521							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	42.003	0.19	1.0	25.00	16.47	102	90	110				

Sample ID N069543-017AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027							
Client ID: ZZZZZZ	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277525							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	35.115	0.19	1.0	25.00	9.498	102	90	110				

Sample ID N069542-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027							
Client ID: ZZZZZZ	Batch ID: R195027	TestNo: EPA 218.6		Analysis Date: 10/30/2024	SeqNo: 6277527							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.174	0.19	1.0	5.000	0	103	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| (M) Test is modified | | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069542-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027							
Client ID: ZZZZZZ	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277529								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.015	0.19	1.0	5.000	0	100	90	110
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Sample ID N069542-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027							
Client ID: ZZZZZZ	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277533								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.411	0.19	1.0	5.000	0	108	90	110
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Sample ID N069543-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027							
Client ID: ZZZZZZ	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277535								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.156	0.19	1.0	5.000	0	103	90	110
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Sample ID N069543-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027							
Client ID: ZZZZZZ	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277537								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	6.349	0.19	1.0	5.000	1.084	105	90	110
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Sample ID N069543-005AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027							
Client ID: ZZZZZZ	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277541								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	13.243	0.19	1.0	5.000	8.224	100	90	110
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |



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Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069543-008AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027							
Client ID: ZZZZZ	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277545								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	12.809	0.19	1.0	5.000	7.971	96.8	90	110				

Sample ID N069543-009AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027							
Client ID: ZZZZZ	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277547								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	12.661	0.19	1.0	5.000	7.705	99.1	90	110				

Sample ID N069543-014AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027							
Client ID: ZZZZZ	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277549								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.088	0.19	1.0	5.000	0	102	90	110				

Sample ID N069543-011AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027							
Client ID: ZZZZZ	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277550								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.900	0.039	0.20	1.000	0.8599	104	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID MB-R195071	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: PBW	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279542							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.039 0.20

Sample ID LCS-R195071	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: LCSW	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279543							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 4.714 0.039 0.20 5.000 0 94.3 90 110

Sample ID N069543-018AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279545							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 1.057 0.039 0.20 1.000 0 106 90 110

Sample ID N069543-021AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279547							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 1.132 0.039 0.20 1.000 0.1996 93.3 90 110

Sample ID N069583-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279551							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium 5.145 0.19 1.0 5.000 0 103 90 110

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| (M) Test is modified | | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069583-003AMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279552							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.283	0.19	1.0	5.000	0	106	90	110	5.144	2.65	20	
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Sample ID N069583-006AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279557							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	0.943	0.039	0.20	1.000	0	94.3	90	110				
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Sample ID N069585-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279559							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	49.904	0.19	1.0	25.00	25.68	96.9	90	110				
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Sample ID N069585-001ADUP	SampType: DUP	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279560							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	25.685	0.19	1.0						25.68	0.0312	20	
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Sample ID N069582-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279562							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	46.817	0.19	1.0	25.00	23.36	93.8	90	110				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| (M) Test is modified | | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069582-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279563								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	63.441	0.19	1.0	25.00	37.59	103	90	110				

Sample ID N069543-019AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279567								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	7.503	0.19	1.0	5.000	2.146	107	90	110				

Sample ID N069543-020AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279569								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	7.435	0.19	1.0	5.000	2.386	101	90	110				

Sample ID N069582-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279571								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.010	0.039	0.20	1.000	0	101	90	110				

Sample ID N069583-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279573								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.413	0.19	1.0	5.000	0.8955	90.3	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
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ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069583-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279575								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.481	0.19	1.0	5.000	0	110	90	110				

Sample ID N069583-004AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279579								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	6.735	0.19	1.0	5.000	1.958	95.5	90	110				

Sample ID N069583-005AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279581								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.085	0.039	0.20	1.000	0	109	90	110				

Sample ID N069583-007AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279583								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.053	0.039	0.20	1.000	0	105	90	110				

Sample ID N069583-008AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279587								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.488	0.19	1.0	5.000	0	110	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069583-009AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279589								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.027	0.19	1.0	5.000	0	101	90	110				

Sample ID N069583-010AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279591								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.840	0.19	1.0	5.000	0	96.8	90	110				

Sample ID N069583-011AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279595								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.043	0.039	0.20	1.000	0	104	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID MB-R195632	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: PBW	Batch ID: R195632	TestNo: EPA 218.6		Analysis Date: 11/13/2024	SeqNo: 6313140							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	ND	0.039	0.20									
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Sample ID LCS-R195632	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: LCSW	Batch ID: R195632	TestNo: EPA 218.6		Analysis Date: 11/13/2024	SeqNo: 6313141							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.824	0.039	0.20	5.000	0	96.5	90	110				
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Sample ID N069927-001BREP	SampType: DUP	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: ZZZZZ	Batch ID: R195632	TestNo: EPA 218.6		Analysis Date: 11/13/2024	SeqNo: 6313148							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	17.628	0.19	1.0						18.53	5.00	20	
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Sample ID N069927-002BMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: ZZZZZ	Batch ID: R195632	TestNo: EPA 218.6		Analysis Date: 11/13/2024	SeqNo: 6313157							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

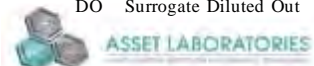
Hexavalent Chromium	96.685	0.39	2.0	50.00	45.88	102	90	110				
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Sample ID N069927-002BMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: ZZZZZ	Batch ID: R195632	TestNo: EPA 218.6		Analysis Date: 11/13/2024	SeqNo: 6313158							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	95.382	0.39	2.0	50.00	45.88	99.0	90	110	96.68	1.36	20	
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069891-006AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: ZZZZZ	Batch ID: R195632	TestNo: EPA 218.6		Analysis Date: 11/13/2024	SeqNo: 6313166							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.071	0.039	0.20	1.000	0	107	90	110				

Sample ID N069891-009AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: ZZZZZ	Batch ID: R195632	TestNo: EPA 218.6		Analysis Date: 11/13/2024	SeqNo: 6313168							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.580	0.039	0.20	1.000	0.5013	108	90	110				

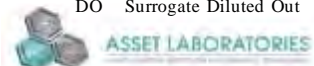
Sample ID N069891-016AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: ZZZZZ	Batch ID: R195632	TestNo: EPA 218.6		Analysis Date: 11/13/2024	SeqNo: 6313170							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	39.290	0.19	1.0	25.00	15.09	96.8	90	110				

Sample ID N069891-012AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: ZZZZZ	Batch ID: R195632	TestNo: EPA 218.6		Analysis Date: 11/13/2024	SeqNo: 6313172							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.304	0.039	0.20	1.000	0.2536	105	90	110				

Sample ID N069891-014AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: ZZZZZ	Batch ID: R195632	TestNo: EPA 218.6		Analysis Date: 11/13/2024	SeqNo: 6313176							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.297	0.039	0.20	1.000	0.3505	94.7	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| (M) Test is modified | | |



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ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069543-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: ZZZZZ	Batch ID: R195632	TestNo: EPA 218.6		Analysis Date: 11/13/2024	SeqNo: 6313178							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.914	0.19	1.0	5.000	0.8085	102	90	110
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Sample ID N069891-015AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: ZZZZZ	Batch ID: R195632	TestNo: EPA 218.6		Analysis Date: 11/13/2024	SeqNo: 6313180							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.919	0.19	1.0	5.000	0.5480	107	90	110
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Sample ID N069891-013AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: ZZZZZ	Batch ID: R195632	TestNo: EPA 218.6		Analysis Date: 11/13/2024	SeqNo: 6313184							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	1.128	0.039	0.20	1.000	0.1100	102	90	110
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Sample ID N069891-017AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: ZZZZZ	Batch ID: R195632	TestNo: EPA 218.6		Analysis Date: 11/13/2024	SeqNo: 6313186							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	1.082	0.039	0.20	1.000	0	108	90	110
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Sample ID N069889-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: ZZZZZ	Batch ID: R195632	TestNo: EPA 218.6		Analysis Date: 11/13/2024	SeqNo: 6313190							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.877	0.19	1.0	5.000	0.3770	110	90	110
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| (M) Test is modified | | |



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ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069889-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: ZZZZZ	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313192								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.282	0.19	1.0	5.000	0	106	90	110				

Sample ID N069889-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: ZZZZZ	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313196								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.999	0.19	1.0	5.000	0.9220	102	90	110				

Sample ID N069923-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: ZZZZZ	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313198								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	6.347	0.19	1.0	5.000	1.016	107	90	110				

Sample ID N069923-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: ZZZZZ	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313200								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	6.876	0.19	1.0	5.000	1.464	108	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID MB-113718	SampType: MBLK	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 10/30/2024	RunNo: 195188							
Client ID: PBW	Batch ID: 113718	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286847							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium ND 0.13 1.0

Sample ID LCS-113718	SampType: LCS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 10/30/2024	RunNo: 195188							
Client ID: LCSW	Batch ID: 113718	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286848							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 9.631 0.13 1.0 10.00 0 96.3 85 115

Sample ID N069543-002B-MS	SampType: MS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 10/30/2024	RunNo: 195188							
Client ID: ZZZZZ	Batch ID: 113718	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286853							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 8.660 0.13 1.0 10.00 0 86.6 75 125

Sample ID N069543-002B-MSD	SampType: MSD	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 10/30/2024	RunNo: 195188							
Client ID: ZZZZZ	Batch ID: 113718	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286854							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 8.771 0.13 1.0 10.00 0 87.7 75 125 8.660 1.28 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID N069543-002B-PS	SampType: PS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188							
Client ID: ZZZZZZ	Batch ID: 113718	TestNo: EPA 6020	EPA 3010A	Analysis Date: 11/4/2024	SeqNo: 6286852							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	8.620	0.13	1.0	10.00	0	86.2	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
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ICP-MS-Metals in Water

Work Order No.: N069543
 Test Method: EPA 6020
 Analysis Date: 11/1,3/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 113718

Instrument ID: NV00922-ICP8 (ICPMS-03)
 Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to As, Se, Cr. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069543-002B DT 5x	Molybdenum	Mo	µg/L	46.17906	PASS	46.89757	1.53%	10
N069543-002B DT 50x	Manganese	Mn	µg/L	595.7665	PASS	609.5377	2.26%	10
N069543-002B DT 5x	Arsenic	As	µg/L	4.722693	NA	4.341704	8.78%	10
N069543-002B DT 5x	Selenium	Se	µg/L	0	NA	0		10
N069543-002B DT 5x	Chromium	Cr	µg/L	0	NA	0		10

Note: NA - Not Applicable

11/12/24 18:59

N069543_6020_113718_DT

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-001

Client Sample ID: MW-62-110-Q424
Collection Date: 10/29/2024 2:40:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241030A	QC Batch: R194989	PrepDate:	Analyst: RAB
Nitrate as N	ND 0.24	0.50	mg/L 10 10/30/2024 10:24 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT:	ARCADIS U.S., Inc. - California	Client Sample ID:	MW-62-190-Q424
Lab Order:	N069543		
Project:	PG&E Topock - RCM, 30211191	Collection Date:	10/29/2024 2:50:00 PM
Lab ID:	N069543-002	Matrix:	GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241030A	QC Batch: R194989	PrepDate:	Analyst: RAB			
Nitrate as N	ND	0.12	0.25	mg/L	5	10/30/2024 10:39 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out	(M)	Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-003

Client Sample ID: MW-921-Q424
Collection Date: 10/29/2024 3:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241030A	QC Batch: R194989			PrepDate:		Analyst: RAB
Nitrate as N	ND	0.12	0.25	mg/L	5	10/30/2024 10:55 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-004

Client Sample ID: MW-83-090-Q424
Collection Date: 10/29/2024 2:16:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241030A	QC Batch: R194989			PrepDate:		Analyst: RAB
Nitrate as N	7.9	0.24	0.50	mg/L	10	10/30/2024 11:11 AM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-005

Client Sample ID: MW-83-180-Q424
Collection Date: 10/29/2024 1:43:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241030A	QC Batch: R194989	PrepDate:	Analyst: RAB
Nitrate as N	0.86 0.24	0.50	mg/L 10 10/30/2024 11:27 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-006

Client Sample ID: MW-83-225-Q424
Collection Date: 10/29/2024 1:02:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241030A	QC Batch: R194989	PrepDate:	Analyst: RAB
Nitrate as N	0.66 0.24	0.50	mg/L 10 10/30/2024 11:43 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-007

Client Sample ID: MW-83-245-Q424
Collection Date: 10/29/2024 12:10:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241030A	QC Batch: R194989			PrepDate:		Analyst: RAB
Nitrate as N	0.52	0.24	0.50	mg/L	10	10/30/2024 11:59 AM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-010

Client Sample ID: MW-84-057-Q424
Collection Date: 10/29/2024 9:45:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241030A	QC Batch: R194989	PrepDate:	Analyst: RAB
Nitrate as N	7.6 0.24	0.50	mg/L 10 10/30/2024 12:15 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out (M) Test is modified



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Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-011

Client Sample ID: MW-84-095-Q424
Collection Date: 10/29/2024 9:16:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241030A	QC Batch: R194989	PrepDate:	Analyst: RAB			
Nitrate as N	ND	0.12	0.25	mg/L	5	10/30/2024 01:03 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-012

Client Sample ID: MW-84-132-Q424
Collection Date: 10/29/2024 11:12:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241030A	QC Batch: R194989	PrepDate:	Analyst: RAB
Nitrate as N	1.3 0.12	0.25 mg/L	5 10/30/2024 01:19 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out (M) Test is modified



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Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-013

Client Sample ID: MW-935-Q424
Collection Date: 10/29/2024 11:22:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241030A	QC Batch: R194989			PrepDate:		Analyst: RAB
Nitrate as N	1.4	0.12	0.25	mg/L	5	10/30/2024 01:35 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-014

Client Sample ID: MW-84-193-Q424
Collection Date: 10/29/2024 10:36:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241030A	QC Batch: R194989			PrepDate:		Analyst: RAB
Nitrate as N	ND	0.12	0.25	mg/L	5	10/30/2024 01:51 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-015

Client Sample ID: MW-37D-Q424
Collection Date: 10/29/2024 12:24:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241030A	QC Batch: R194989	PrepDate:	Analyst: RAB
Nitrate as N	2.3 0.12 0.25	mg/L	5 10/30/2024 02:06 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-016

Client Sample ID: MW-37S-Q424
Collection Date: 10/29/2024 1:01:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241030A	QC Batch: R194989			PrepDate:		Analyst: RAB
Nitrate as N	1.4	0.12	0.25	mg/L	5	10/30/2024 02:22 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT:	ARCADIS U.S., Inc. - California	Client Sample ID:	MW-916-Q424
Lab Order:	N069543		
Project:	PG&E Topock - RCM, 30211191	Collection Date:	10/29/2024 1:11:00 PM
Lab ID:	N069543-017	Matrix:	GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241030A	QC Batch: R194989	PrepDate:	Analyst: RAB
Nitrate as N	1.2 0.12	0.25	mg/L 5 10/30/2024 02:38 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID	MB-R194989_NO3	SampType:	MBLK	TestCode:	300WLLNO3	Units:	mg/L	Prep Date:		RunNo:	194989			
Client ID:	PBW	Batch ID:	R194989	TestNo:	EPA 300.0			Analysis Date:	10/30/2024	SeqNo:	6275093			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.024 0.050

Sample ID	LCS-R194989_NO3	SampType:	LCS	TestCode:	300WLLNO3	Units:	mg/L	Prep Date:		RunNo:	194989			
Client ID:	LCSW	Batch ID:	R194989	TestNo:	EPA 300.0			Analysis Date:	10/30/2024	SeqNo:	6275094			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 1.330 0.024 0.050 1.250 0 106 90 110

Sample ID	N069543-001CMS	SampType:	MS	TestCode:	300WLLNO3	Units:	mg/L	Prep Date:		RunNo:	194989			
Client ID:	ZZZZZ	Batch ID:	R194989	TestNo:	EPA 300.0			Analysis Date:	10/30/2024	SeqNo:	6275112			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 12.821 0.24 0.50 12.50 0.2780 100 80 120

Sample ID	N069543-001CMSD	SampType:	MSD	TestCode:	300WLLNO3	Units:	mg/L	Prep Date:		RunNo:	194989			
Client ID:	ZZZZZ	Batch ID:	R194989	TestNo:	EPA 300.0			Analysis Date:	10/30/2024	SeqNo:	6275113			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 13.053 0.24 0.50 12.50 0.2780 102 80 120 12.82 1.79 20

Sample ID	N069543-005CMS	SampType:	MS	TestCode:	300WLLNO3	Units:	mg/L	Prep Date:		RunNo:	194989			
Client ID:	ZZZZZ	Batch ID:	R194989	TestNo:	EPA 300.0			Analysis Date:	10/30/2024	SeqNo:	6275114			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 13.950 0.24 0.50 12.50 0.8610 105 80 120

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID N069543-010CDUP	SampType: DUP	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194989							
Client ID: ZZZZZZ	Batch ID: R194989	TestNo: EPA 300.0		Analysis Date: 10/30/2024	SeqNo: 6275117							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	7.963	0.24	0.50						7.565	5.13	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-001

Client Sample ID: MW-62-110-Q424
Collection Date: 10/29/2024 2:40:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241103A	QC Batch:	113718	PrepDate:	10/30/2024	Analyst:	DJ
Arsenic	7.4	0.067	0.10	µg/L	1	11/4/2024	01:56 AM
Manganese	170	0.046	0.50	µg/L	1	11/2/2024	01:25 AM
Molybdenum	47	0.063	0.50	µg/L	1	11/2/2024	01:25 AM
Selenium	ND	0.29	0.50	µg/L	1	11/4/2024	01:56 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-002

Client Sample ID: MW-62-190-Q424
Collection Date: 10/29/2024 2:50:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241103A	QC Batch:	113718	PrepDate:	10/30/2024	Analyst:	DJ
Arsenic	4.3	0.067	0.10	µg/L	1	11/4/2024 02:02 AM	
Manganese	610	0.46	5.0	µg/L	10	11/2/2024 01:43 AM	
Molybdenum	47	0.063	0.50	µg/L	1	11/2/2024 01:31 AM	
Selenium	ND	0.29	0.50	µg/L	1	11/4/2024 02:02 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-003

Client Sample ID: MW-921-Q424
Collection Date: 10/29/2024 3:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241103A	QC Batch:	113718	PrepDate:	10/30/2024	Analyst:	DJ
Arsenic	4.1	0.067	0.10	µg/L	1	11/4/2024 02:32 AM	
Manganese	610	0.46	5.0	µg/L	10	11/2/2024 02:48 AM	
Molybdenum	47	0.063	0.50	µg/L	1	11/2/2024 02:42 AM	
Selenium	ND	0.29	0.50	µg/L	1	11/4/2024 02:32 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-004

Client Sample ID: MW-83-090-Q424
Collection Date: 10/29/2024 2:16:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241103A	QC Batch:	113718	PrepDate:	10/30/2024	Analyst:	DJ
Arsenic	0.68	0.067	0.10	µg/L	1	11/4/2024 02:55 AM	
Manganese	ND	0.046	0.50	µg/L	1	11/2/2024 02:54 AM	
Molybdenum	3.3	0.063	0.50	µg/L	1	11/2/2024 02:54 AM	
Selenium	5.7	0.29	0.50	µg/L	1	11/4/2024 02:55 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-005

Client Sample ID: MW-83-180-Q424
Collection Date: 10/29/2024 1:43:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241103A	QC Batch:	113718	PrepDate:	10/30/2024	Analyst:	DJ
Arsenic	4.4	0.067	0.10	µg/L	1	11/4/2024 03:01 AM	
Manganese	0.57	0.046	0.50	µg/L	1	11/2/2024 03:00 AM	
Molybdenum	32	0.063	0.50	µg/L	1	11/2/2024 03:00 AM	
Selenium	0.71	0.29	0.50	µg/L	1	11/4/2024 05:00 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-006

Client Sample ID: MW-83-225-Q424
Collection Date: 10/29/2024 1:02:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241103A	QC Batch:	113718	PrepDate:	10/30/2024	Analyst:	DJ
Arsenic	3.8	0.067	0.10	µg/L	1	11/4/2024 03:07 AM	
Manganese	0.65	0.046	0.50	µg/L	1	11/4/2024 03:07 AM	
Molybdenum	52	0.063	0.50	µg/L	1	11/2/2024 03:06 AM	
Selenium	0.52	0.29	0.50	µg/L	1	11/4/2024 04:54 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California	Client Sample ID: MW-83-245-Q424
Lab Order: N069543	
Project: PG&E Topock - RCM, 30211191	Collection Date: 10/29/2024 12:10:00 PM
Lab ID: N069543-007	Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103A	QC Batch: 113718			PrepDate: 10/30/2024		Analyst: DJ
Arsenic	2.1	0.067	0.10	µg/L	1	11/4/2024 03:13 AM
Manganese	12	0.046	0.50	µg/L	1	11/2/2024 03:29 AM
Molybdenum	1.4	0.063	0.50	µg/L	1	11/2/2024 03:29 AM
Selenium	ND	0.29	0.50	µg/L	1	11/4/2024 03:13 AM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-010

Client Sample ID: MW-84-057-Q424
Collection Date: 10/29/2024 9:45:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241103A	QC Batch:	113718	PrepDate:	10/30/2024	Analyst:	DJ
Arsenic	1.2	0.067	0.10	µg/L	1	11/4/2024 03:31 AM	
Manganese	22	0.046	0.50	µg/L	1	11/2/2024 03:47 AM	
Molybdenum	17	0.063	0.50	µg/L	1	11/2/2024 03:47 AM	
Selenium	3.9	0.29	0.50	µg/L	1	11/4/2024 03:31 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-011

Client Sample ID: MW-84-095-Q424
Collection Date: 10/29/2024 9:16:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241103A	QC Batch:	113718	PrepDate:	10/30/2024	Analyst:	DJ
Arsenic	0.67	0.067	0.10	µg/L	1	11/4/2024 03:37 AM	
Manganese	120	0.046	0.50	µg/L	1	11/2/2024 03:53 AM	
Molybdenum	7.9	0.063	0.50	µg/L	1	11/2/2024 03:53 AM	
Selenium	0.55	0.29	0.50	µg/L	1	11/4/2024 03:37 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-012

Client Sample ID: MW-84-132-Q424
Collection Date: 10/29/2024 11:12:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241103A	QC Batch:	113718	PrepDate:	10/30/2024	Analyst:	DJ
Arsenic	0.93	0.067	0.10	µg/L	1	11/4/2024 03:43 AM	
Manganese	1.1	0.046	0.50	µg/L	1	11/2/2024 03:59 AM	
Molybdenum	12	0.063	0.50	µg/L	1	11/2/2024 03:59 AM	
Selenium	0.99	0.29	0.50	µg/L	1	11/4/2024 03:43 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-013

Client Sample ID: MW-935-Q424
Collection Date: 10/29/2024 11:22:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241103A	QC Batch:	113718	PrepDate:	10/30/2024	Analyst:	DJ
Arsenic	1.2	0.067	0.10	µg/L	1	11/4/2024	04:07 AM
Manganese	0.97	0.046	0.50	µg/L	1	11/2/2024	04:05 AM
Molybdenum	12	0.063	0.50	µg/L	1	11/2/2024	04:05 AM
Selenium	0.89	0.29	0.50	µg/L	1	11/4/2024	04:07 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-014

Client Sample ID: MW-84-193-Q424
Collection Date: 10/29/2024 10:36:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241103A	QC Batch:	113718	PrepDate:	10/30/2024	Analyst:	DJ
Arsenic	2.4	0.067	0.10	µg/L	1	11/4/2024	04:13 AM
Manganese	94	0.046	0.50	µg/L	1	11/2/2024	04:11 AM
Molybdenum	49	0.063	0.50	µg/L	1	11/2/2024	04:11 AM
Selenium	ND	0.29	0.50	µg/L	1	11/4/2024	04:13 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-015

Client Sample ID: MW-37D-Q424
Collection Date: 10/29/2024 12:24:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241103A	QC Batch:	113718	PrepDate:	10/30/2024	Analyst:	DJ
Arsenic	4.8	0.067	0.10	µg/L	1	11/4/2024	04:19 AM
Manganese	0.54	0.046	0.50	µg/L	1	11/2/2024	04:17 AM
Molybdenum	87	0.063	0.50	µg/L	1	11/2/2024	04:17 AM
Selenium	2.1	0.29	0.50	µg/L	1	11/4/2024	04:19 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-016

Client Sample ID: MW-37S-Q424
Collection Date: 10/29/2024 1:01:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241103A	QC Batch:	113718	PrepDate:	10/30/2024	Analyst:	DJ
Arsenic	1.5	0.067	0.10	µg/L	1	11/4/2024	04:25 AM
Manganese	ND	0.046	0.50	µg/L	1	11/2/2024	04:40 AM
Molybdenum	12	0.063	0.50	µg/L	1	11/2/2024	04:40 AM
Selenium	0.89	0.29	0.50	µg/L	1	11/4/2024	04:25 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



ASSET LABORATORIES

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 3151 W. Post Rd., Las Vegas, NV 89118
 ELAP Cert 2676 | NV Cert NV00922
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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069543
Project: PG&E Topock - RCM, 30211191
Lab ID: N069543-017

Client Sample ID: MW-916-Q424
Collection Date: 10/29/2024 1:11:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241103A	QC Batch:	113718	PrepDate:	10/30/2024	Analyst:	DJ
Arsenic	1.7	0.067	0.10	µg/L	1	11/4/2024	04:30 AM
Manganese	0.66	0.046	0.50	µg/L	1	11/2/2024	04:46 AM
Molybdenum	12	0.063	0.50	µg/L	1	11/2/2024	04:46 AM
Selenium	0.80	0.29	0.50	µg/L	1	11/4/2024	04:30 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID MB-113718	SampType: MBLK	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/30/2024	RunNo: 195129							
Client ID: PBW	Batch ID: 113718	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/2/2024	SeqNo: 6282854							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	ND	0.046	0.50									
Molybdenum	ND	0.063	0.50									

Sample ID LCS-113718	SampType: LCS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/30/2024	RunNo: 195129							
Client ID: LCSW	Batch ID: 113718	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/2/2024	SeqNo: 6282855							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	91.975	0.046	0.50	100.0	0	92.0	85	115				
Molybdenum	9.394	0.063	0.50	10.00	0	93.9	85	115				

Sample ID N069543-002B-MS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/30/2024	RunNo: 195129							
Client ID: ZZZZZ	Batch ID: 113718	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/2/2024	SeqNo: 6282856							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	58.857	0.063	0.50	10.00	46.90	120	75	125				

Sample ID N069543-002B-MS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/30/2024	RunNo: 195129							
Client ID: ZZZZZ	Batch ID: 113718	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/2/2024	SeqNo: 6282866							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	729.594	0.46	5.0	100.0	609.5	120	75	125				

Sample ID N069543-002B-MSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/30/2024	RunNo: 195129							
Client ID: ZZZZZ	Batch ID: 113718	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/2/2024	SeqNo: 6282867							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	58.738	0.063	0.50	10.00	46.90	118	75	125	58.86	0.202	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID N069543-002B-MSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/30/2024	RunNo: 195129							
Client ID: ZZZZZZ	Batch ID: 113718	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/2/2024	SeqNo: 6282868							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	722.982	0.46	5.0	100.0	609.5	113	75	125	729.6	0.910	20	

Sample ID MB-113718	SampType: MBLK	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/30/2024	RunNo: 195177							
Client ID: PBW	Batch ID: 113718	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6285992							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.067	0.10									
Selenium	ND	0.29	0.50									

Sample ID LCS-113718	SampType: LCS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/30/2024	RunNo: 195177							
Client ID: LCSW	Batch ID: 113718	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6285993							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.402	0.067	0.10	10.00	0	94.0	85	115				
Selenium	9.640	0.29	0.50	10.00	0	96.4	85	115				

Sample ID N069543-002B-MS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/30/2024	RunNo: 195177							
Client ID: ZZZZZZ	Batch ID: 113718	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6285998							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	13.529	0.067	0.10	10.00	4.342	91.9	75	125				
Selenium	4.800	0.29	0.50	10.00	0	48.0	75	125				S

Sample ID N069543-002B-MSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/30/2024	RunNo: 195177							
Client ID: ZZZZZZ	Batch ID: 113718	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6285999							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	14.188	0.067	0.10	10.00	4.342	98.5	75	125	13.53	4.75	20	
Selenium	4.384	0.29	0.50	10.00	0	43.8	75	125	4.800	9.05	20	S

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| (M) Test is modified | | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID N069543-002B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195129							
Client ID: ZZZZZZ	Batch ID: 113718	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/2/2024	SeqNo: 6282861							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	58.624	0.063	0.50	10.00	46.90	117	80	120				

Sample ID N069543-002B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195129							
Client ID: ZZZZZZ	Batch ID: 113718	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/2/2024	SeqNo: 6282862							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	1514.956	0.46	5.0	1000	609.5	90.5	80	120				

Sample ID N069543-002B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177							
Client ID: ZZZZZZ	Batch ID: 113718	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6285997							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	13.602	0.067	0.10	10.00	4.342	92.6	80	120				
Selenium	6.029	0.29	0.50	10.00	0	60.3	80	120				S

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N069543
 Test Method: EPA 6020
 Analysis Date: 11/1,3/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 113718

Instrument ID: NV00922-ICP8 (ICPMS-03)
 Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to As, Se, Cr. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069543-002B DT 5x	Molybdenum	Mo	µg/L	46.17906	PASS	46.89757	1.53%	10
N069543-002B DT 50x	Manganese	Mn	µg/L	595.7665	PASS	609.5377	2.26%	10
N069543-002B DT 5x	Arsenic	As	µg/L	4.722693	NA	4.341704	8.78%	10
N069543-002B DT 5x	Selenium	Se	µg/L	0	NA	0		10
N069543-002B DT 5x	Chromium	Cr	µg/L	0	NA	0		10

Note: NA - Not Applicable

11/12/24 18:59

N069543_6020_113718_DT

SAMPLE RECEIVING ITEMS



ASSET LABORATORIES
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NEVADA
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Client: Arcadis		Report to: Laura Madsen		Bill to: Janet Newman		EDD Require:													
Address: 630 Plaza Dr, Suite 200		Company: Arcadis		Address:		Excel EDD		RTNE				1. Chilled							
Address: Highlands Ranch, CO 80129		Email: laura.madsen@arcadis.com		Address:		GeoTracker		RWQCB		✓		2. Headspace							
Phone: 720-344-3500		Address:		Email to: janet.newman@arcadis.com		Labspec		CalTrans				3. Container Intact							
Submitted By: <i>Riggie Top</i>		Address:		P.O.#		Others		LEVEL III		✓		4. Seal Present							
Title: <i>Field Tech</i>		Phone: 720-344-3771		Fax:		Specify:		RWQCB		Regulatory		5. IR number		✓					
Signature: <i>[Signature]</i> Date: <i>10/29/24</i>		Sampled By: <i>Riggie Top</i>		Ground		250 mL poly		1 L poly		500mL poly		500mL poly		500mL poly					
I hereby authorize ASSET Labs to perform the tests indicated below.		I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for		X Sediment		Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH		Nitrate as N, sulfate (EPA 300.0)		Dissolved metals (SW6020) FF; HNO3 Arsenic, Iron, Barium, Manganese		Dissolved metals (SW6020) FF; HNO3 Total Dissolved Chromium.		Dissolved metals (SW6020) FF; HNO3 Molybdenum, Selenium		Total Organic Carbon (SM5310C); H2SO4			
Project Name: PG&E Topock - RCM		Signature: <i>[Signature]</i> Date: <i>10/29/24</i>		Potable		NPDES		Other Solid		Dissolved metals (SW6020) FF; HNO3 Arsenic, Manganese		Dissolved metals (SW6020) FF; HNO3 Iron		Nitrate as N (EPA 300.0)					
Project Number: 30211191		Surface		Sample Date		Sample Time		Others		Turn Around Time		No. of Container		Container Type		PRESERVATION			
Item No.		Laboratory Work Order No.		Sample ID/Location		Sample Date		Sample Time		Others		Turn Around Time		No. of Container		Container Type		PRESERVATION	
1		N069543-001		MW-62-110-Q424		10/29/2024		14:40		X		E 3		P		BNS			
2		-002		MW-62-190-Q424		10/29/2024		14:50		X		E 3		P		BNS			
3		-003		MW-921-Q424		10/29/2024		15:00		X		E 3		P		BNS			
4		-004		MW-83-090-Q424		10/29/2024		14:16		X		E 3		P		BNS			
5		-005		MW-83-180-Q424		10/29/2024		13:43		X		E 3		P		BNS			
6		-006		MW-83-225-Q424		10/29/2024		13:02		X		E 3		P		BNS			
7		-007		MW-83-245-Q424		10/29/2024		12:10		X		E 3		P		BNS			
8		-008		TW-04-Q424		10/29/2024		11:04		X		E 2		P		BNS			
9		-009		MW-932-Q424		10/29/2024		11:14		X		E 2		P		BNS			
10		-010		MW-84-057-Q424		10/29/2024		9:45		X		E 3		P		BNS			
11		-011		MW-84-095-Q424		10/29/2024		9:16		X		E 3		P		BNS			
12		-012		MW-84-132-Q424		10/29/2024		11:12		X		E 3		P		BNS			
13		-013		MW-935-Q424		10/29/2024		11:22		X		E 3		P		BNS			
14		-014		MW-84-193-Q424		10/29/2024		10:36		X		E 3		P		BNS			
Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: <i>10/29/24 1545</i>				Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: <i>10/29/24 1545</i>				Turn Around Time (TAT)				Special Instruction:							
Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: <i>10/29/24 1846</i>				Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: <i>10/29/24 1848</i>				<input type="checkbox"/> A < 24 Hrs or Same Day TAT <input type="checkbox"/> B = Next Workday <input type="checkbox"/> C = 2 Workdays <input type="checkbox"/> D = 3 Workdays <input checked="" type="checkbox"/> E = Routine 5-7 Workdays											
Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: <i>10/29/24</i>				Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: <i>10/29/24</i>				TAT Starts at 8 AM the following day if samples received after 3:00PM.											
Terms				5. Trip Blanks and Equipment Blanks are billable sample.				Preservatives:				Container Type:							
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.				6. Asset Laboratories is not responsible for samples collected using incorrect methodology.				H=HCL N=HNO3 S=H2SO4 C=4°C				T=Tube V=VOA P=Pin							
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis.				7. Terms are net 30 days.				Z=Zn(AC)2 O=NaOH T=Na2S2O3				J=Jar B=Bedlar G=Glass							
3. Less than 24 Hrs =200% Next Day=100% 2 Workdays=50% 3 Workdays=35% 4 Workdays=20%				8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.				Others/Specify: B (NH4)2SO4/NH4OH				M=Metal M=Metal C=Can							
4. Custom EDD formats will be an additional 5% of the total project price.				9. For subcontract analysis, TAT and Surcharges will vary.															
4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project																			

White=Laboratory Copy

Yellow=Customer's Copy



ASSET LABORATORIES

ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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 California: 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
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 www.assetlaboratories.com

Page 1 of 1

Client: Arcadis		Report to: Laura Madsen		Bill to: Janet Newman		EDD Requirement		QA/QC		Sample Receipt Condition	
Address: 630 Plaza Dr, Suite 200		Company: Arcadis		Address:		Excel EDD		RTNE		Y N	
Address: Highlands Ranch, CO 80129		Email: laura.madsen@arcadis.com		Address:		Geotracker		RWQCB		1. Chilled	
Phone: 720-344-3500		Address:		Email to: janet.newman@arcadis.com		Labspec		CalTrans		2. Headspace	
Fax:		Address:		P.O.#		Others		LEVEL III		3. Container Intact	
Submitted By: Riggie Top		Phone: 949 293-2445		Fax:		Specify:		LEVEL IV		4. Seal Present	
Title: Field Tech		Phone: 720-344-3771		Fax:		RWQCB		Regulatory		5. IR number	
Signature: [Signature] Date: 10/29/24		Sampled By: Riggie Top		Ground: X Sediment		Global ID:		Specify State:		6. Method of Cooling:	
I hereby authorize ASSET Labs to perform the tests indicated below.		I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for		Potable: Soil		Matrix		Sample Temp: 1.5°C / 1.6°C		Court: ASSET	
Project Name: PG&E Topock - RCM		Signature: [Signature] Date: 10/29/24		NPDES: Other Solid		250 mL poly		1 L poly		Tracking No.:	
Project Number: 30211191		Surface		Surface		500mL poly		500mL poly		Remarks:	
Item No.		Laboratory Work Order No.		Sample ID/Location		Sample Date		Sample Time		Others	
						C(1)(V) FF (E218.6) (NH4)2, SO4, NH4, OH		Nitrate as N, sulfate (EPA 300.0)		Dissolved metals (SW6020) FF: HNO3 Arsenic, Iron, Barium, Manganese	
								Dissolved metals (SW6020) FF: HNO3 Total Dissolved Chromium.		Dissolved metals (SW6020) FF: HNO3 Molybdenum, Selenium	
								Total Organic Carbon (SM6310C); H2SO4		Dissolved metals (SW6020) FF: HNO3 Arsenic, Manganese	
								Ammonia as Nitrogen (SM4500NH3); H2SO4		Nitrate as N (EPA 300.0)	
										Turn Around Time	
										No. of Container	
										Container Type	
										PRESERVATION	
1		N069543-013		MW-37D-Q424		10/29/2024		12:24		X	
2		-016		MW-37S-Q424		10/29/2024		13:01		X	
3		-017		MW-916-Q424		10/29/2024		13:11		X	
4		-018		EB-712-Q424		10/29/2024		14:30		X	
5		-019		MW-933-Q424		10/29/2024		10:09		X	
6		-020		TWB-01-Q424		10/29/2024		9:59		X	
7		-021		EB-711-Q424		10/29/2024		15:10		X	
8											
9											
10											
11											
12											
13											
14											
Relinquished by (Signature and Printed Name): [Signature] Date/Time: 10/29/24 1545		Relinquished by (Signature and Printed Name): [Signature] Date/Time: 10/29/24 1545		Turn Around Time (TAT)		Special Instruction:					
Relinquished by (Signature and Printed Name): [Signature] Date/Time: 10/29/24 1848		Relinquished by (Signature and Printed Name): [Signature] Date/Time: 10/29/24 1848		<input type="checkbox"/> A < 24 Hrs or Same Day TAT <input type="checkbox"/> B = Next Workday <input type="checkbox"/> C = 2 Workdays <input type="checkbox"/> D = 3 Workdays <input checked="" type="checkbox"/> E = Routine 5-7 Workdays							
Relinquished by (Signature and Printed Name): [Signature] Date/Time: 10/29/24		Relinquished by (Signature and Printed Name): [Signature] Date/Time: 10/29/24		TAT Starts at 8 AM the following day if samples received after 3:00PM.							
Terms		Terms		Preservatives:		Container Type:					
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.		3. Trip Blanks and Equipment Blanks are billable sample.		H=HCL		T=Tube					
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis		6. Asset Laboratories is not responsible for samples collected using incorrect methodology.		N=HNO3		V=VOA					
Less than 24 Hrs.=200% Next Day=100% 2 Workdays=50% 3 Workdays=35% 4 Workdays=20%		7. Terms are net 30 days.		S=H2SO4		P=Pinl					
3. Custom EDD formats will be an additional 3% of the total project price.		8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.		C=4°C		G=Glass					
4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surchage applied on total project		9. For subcontract analysis, TAT and Surcharges will vary.		Z=Zn(AC)2		B=Tedlar					
				O=NaOH		M=Metal					
				T=Na2S2O3		C=Can					
				Others/Specify: B (NH4)2SO4/NH4OH							

White=Laboratory Copy

Yellow=Customer's Copy

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On: 10/29/2024 Workorder: N069543
 Rep sample Temp (Deg C): 1.5/1.6 IR Gun ID: 4
 Temp Blank: Yes No
 Carrier name: ASSET
 Last 4 digits of Tracking No.: NA Packing Material Used: None
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

- | | | | |
|---|--|--|--|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 14. Water - pH acceptable upon receipt?
Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 15. Did the bottle labels indicate correct preservatives used? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 16. Were there Non-Conformance issues at login?
Was Client notified? | Yes <input type="checkbox"/>
Yes <input type="checkbox"/> | No <input type="checkbox"/>
No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>
NA <input checked="" type="checkbox"/> |

Comments:

For:
 Checklist Completed By: EF YRodriguez
 10/30/2024

Reviewed By: for: [Signature]
 MBC 11/05/2024

ASSET Laboratories

WORK ORDER Summary

30-Oct-24

WorkOrder: N069543

Client ID: ARCUS02

Project: PG&E Topock - RCM, 30211191

QC Level: Level IV

Date Received: 10/29/2024 6:48 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N069543-001A	MW-62-110-Q424	10/29/2024 2:40:00 PM	11/13/2024	Groundwater	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-001B			11/13/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/13/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/13/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-001C			11/13/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-002A	MW-62-190-Q424	10/29/2024 2:50:00 PM	11/13/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-002B			11/13/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/13/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/13/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-002C			11/13/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-003A	MW-921-Q424	10/29/2024 3:00:00 PM	11/13/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-003B			11/13/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/13/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/13/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-003C			11/13/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-004A	MW-83-090-Q424	10/29/2024 2:16:00 PM	11/13/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-004B			11/13/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/13/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/13/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-004C			11/13/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-005A	MW-83-180-Q424	10/29/2024 1:43:00 PM	11/13/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-005B			11/13/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

30-Oct-24

WorkOrder: N069543

Client ID: ARCUS02

Project: PG&E Topock - RCM, 30211191

QC Level: Level IV

Date Received: 10/29/2024 6:48 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N069543-005B	MW-83-180-Q424	10/29/2024 1:43:00 PM	11/13/2024	Groundwater	EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/13/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-005C			11/13/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-006A	MW-83-225-Q424	10/29/2024 1:02:00 PM	11/13/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-006B			11/13/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/13/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/13/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-006C			11/13/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-007A	MW-83-245-Q424	10/29/2024 12:10:00 PM	11/13/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-007B			11/13/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/13/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/13/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-007C			11/13/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-008A	TW-04-Q424	10/29/2024 11:04:00 AM	11/13/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-008B			11/13/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/13/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-009A	MW-932-Q424	10/29/2024 11:14:00 AM	11/13/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-009B			11/13/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/13/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-010A	MW-84-057-Q424	10/29/2024 9:45:00 AM	11/13/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-010B			11/13/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/13/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

30-Oct-24

WorkOrder: N069543

Client ID: ARCUS02

Project: PG&E Topock - RCM, 30211191

QC Level: Level IV

Date Received: 10/29/2024 6:48 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N069543-010B	MW-84-057-Q424	10/29/2024 9:45:00 AM	11/13/2024	Groundwater	EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-010C			11/13/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-011A	MW-84-095-Q424	10/29/2024 9:16:00 AM	11/13/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-011B			11/13/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/13/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/13/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-011C			11/13/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-012A	MW-84-132-Q424	10/29/2024 11:12:00 AM	11/13/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-012B			11/13/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/13/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/13/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-012C			11/13/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-013A	MW-935-Q424	10/29/2024 11:22:00 AM	11/13/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-013B			11/13/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/13/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/13/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-013C			11/13/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-014A	MW-84-193-Q424	10/29/2024 10:36:00 AM	11/13/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-014B			11/13/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/13/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/13/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-014C			11/13/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

30-Oct-24

WorkOrder: N069543

Client ID: ARCUS02

Project: PG&E Topock - RCM, 30211191

QC Level: Level IV

Date Received: 10/29/2024 6:48 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N069543-015A	MW-37D-Q424	10/29/2024 12:24:00 PM	11/13/2024	Groundwater	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-015B			11/13/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/13/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/13/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-015C			11/13/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-016A	MW-37S-Q424	10/29/2024 1:01:00 PM	11/13/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-016B			11/13/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/13/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/13/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-016C			11/13/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-017A	MW-916-Q424	10/29/2024 1:11:00 PM	11/13/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-017B			11/13/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/13/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/13/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-017C			11/13/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-018A	EB-712-Q424	10/29/2024 2:30:00 PM	11/13/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-019A	MW-933-Q424	10/29/2024 10:09:00 AM	11/13/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-019B			11/13/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/13/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-020A	TWB-01-Q424	10/29/2024 9:59:00 AM	11/13/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-020B			11/13/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/13/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

30-Oct-24

WorkOrder: N069543

Client ID: ARCUS02

Project: PG&E Topock - RCM, 30211191

QC Level: Level IV

Date Received: 10/29/2024 6:48 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N069543-021A	EB-711-Q424	10/29/2024 3:10:00 PM	11/13/2024	Groundwater	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069543-022A	FOLDER	11/13/2024	11/13/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			11/13/2024		Folder	Level IV Report	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			11/13/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

List of Analysts

ASSET Laboratories Work Order: N069543

NAME	TEST METHOD
Ria Abes	EPA 218.6
Diane Jetajobe	EPA 300.0, EPA 6020_Dissolved



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

EPA 218.6



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”



IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
REV 2.0
011416

QC Batch Number: R195027
ASSET #: N069543

Instrument ID: NV00922-IC7
Analyst: RBA
Date Analyzed: 10/30/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria? (r = 0.995, r = 0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)	X			X		
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?	X			X		
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?	X			X		
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)	X			X		
14. For Hinkley DOM samples, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?		X			X	
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?	X				X	
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed?	X			X		
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)	X			X		
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments: **Dilution was necessary for some samples due to matrix interference.**

~~N069543-002A = 1.1 ppb ; N069543-002B (6020) = <1.0 ppb N069543-003A = 1.2 ppb ; N069543-003B (6020) = <1.0 ppb~~
N069543-007A = 0.36 ppb ; N069543-008B (6020) = 1.5 ppb N069543-008A = 8.0 ppb ; N069543-008B (6020) = 6.0 ppb
N069543-009A = 7.7 ppb ; N069543-009B (6020) = 5.1 ppb MS protocol performed. Recovery within criteria.

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA

Date: _____

2nd Level Reviewer d/rocha 11/11/2024

Date: _____



IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
REV 2.0
011416

QC Batch Number: R195071
ASSET #: N069543

Instrument ID: NV00922-IC7
Analyst: RBA
Date Analyzed: 10/31/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria? (r = 0.995, r = 0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)	X			X		
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?	X			X		
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?	X			X		
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)	X			X		
14. For Hinkley DOM samples, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?	X				X	
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?		X				X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed?	X			X		
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)	X			X		
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

N069543-019A = 2.1 ppb ; N069543-019B (6020) = 3.7 ppb ; N069543-020A = 2.4 ppb ; N069543-020B (6020) = 3.9 ppb
MS protocol performed. Recovery within criteria.

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

RBA

1st Level Reviewer _____

Date: _____

2nd Level Reviewer d/Rocha 11/13/2024

Date: _____



IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
REV 2.0
011416

QC Batch Number: R195632
ASSET #: N069543

Instrument ID: NV00922-IC7
Analyst: RBA
Date Analyzed: 11/13/2024

Method:

- | | | |
|------------------------------------|-------------------------------------|------------------------|
| <input type="checkbox"/> EPA 300.0 | <input checked="" type="checkbox"/> | EPA 218.6/EPA 218.7 |
| <input type="checkbox"/> EPA 7199 | <input type="checkbox"/> | EPA 218.6/EPA 218.7 LL |
| | <input type="checkbox"/> | Others _____ |

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria ? (r = 0.995, r =0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)	X			X		
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?	X			X		
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?	X			X		
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)	X			X		
14. For Hinkley DOM samples, matrix spike protocol performed on all samples ? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?	X			X		
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed ?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)	X			X		
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments: **Dilution was necessary for some samples due to matrix interference.**

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA

Date: _____

2nd Level Reviewer NS 11142024

Date: _____

SAMPLE CALCULATION



ASSET LABORATORIES
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CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

Sample Calculation

METHOD: EPA 218.6
TEST NAME: HEXAVALENT CHROMIUM BY IC
MATRIX: Groundwater

FORMULA:

Calculate the Hexavalent Chromium concentration, in $\mu\text{g/L}$, in the original sample as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = A * \text{DF}$$

where:

A = $\mu\text{g/L}$, IC Cr+6 calculated concentration
DF = dilution factor

For Sample **N069543-002A**, the concentration in $\mu\text{g/L}$ is calculated as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = 0.2168 * 5$$

$$\text{Cr}^{+6}, \mu\text{g/L} = 1.0840$$

Reporting results in two significant figures,

$$\text{Cr}^{+6}, \mu\text{g/L} = 1.1$$

Reviewed by:

d/Rocha 12/1/2024

ANALYSIS RUN LOG



ASSET LABORATORIES
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CALIFORNIA
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	ICV	ICV	1	Hexavalent Chromium	10/28/24 10:49 AM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/28/24 10:59 AM	Reported
11	ICB	ICB	1	Hexavalent Chromium	10/28/24 11:08 AM	Reported
12	MB-R194895	MBLK	1	Hexavalent Chromium	10/28/24 11:17 AM	Reported
13	LCS-R194895	LCS	1	Hexavalent Chromium	10/28/24 11:27 AM	Reported
14	N069445-001A	SAMP	1	Hexavalent Chromium	10/28/24 11:36 AM	Reported
15	N069445-001AMS	MS	1	Hexavalent Chromium	10/28/24 11:46 AM	Reported
16	N069445-001AMSD	MSD	1	Hexavalent Chromium	10/28/24 11:55 AM	Reported
17	N069445-001ADUP	DUP	1	Hexavalent Chromium	10/28/24 12:05 PM	Reported
18	N069453-001A	SAMP	1	Hexavalent Chromium	10/28/24 12:14 PM	Reported
19	N069453-002A	SAMP	1	Hexavalent Chromium	10/28/24 12:24 PM	Reported
20	N069453-003A	SAMP	1	Hexavalent Chromium	10/28/24 12:33 PM	Reported
21	N069453-004A	SAMP	1	Hexavalent Chromium	10/28/24 12:43 PM	Reported
22	CCV-1	CCV1	1	Hexavalent Chromium	10/28/24 12:52 PM	Reported
23	CCB-1	CCB	1	Hexavalent Chromium	10/28/24 1:02 PM	Reported
24	N069444-001A	SAMP	1	Hexavalent Chromium	10/28/24 1:11 PM	Reported
25	N069444-001AMS	MS	1	Hexavalent Chromium	10/28/24 1:20 PM	Reported
26	N069444-002A	SAMP	1	Hexavalent Chromium	10/28/24 1:30 PM	Reported
27	N069444-002AMS	MS	1	Hexavalent Chromium	10/28/24 1:39 PM	Reported
28	N069444-003A	SAMP	1	Hexavalent Chromium	10/28/24 1:49 PM	Not Reported
29	N069444-003AMS	MS	1	Hexavalent Chromium	10/28/24 1:58 PM	Not Reported
30	N069444-001A	SAMP	5	Hexavalent Chromium	10/28/24 2:08 PM	Not Reported
31	N069444-001AMS	MS	5	Hexavalent Chromium	10/28/24 2:17 PM	Not Reported
32	N069444-002A	SAMP	5	Hexavalent Chromium	10/28/24 2:27 PM	Not Reported
33	N069444-002AMS	MS	5	Hexavalent Chromium	10/28/24 2:36 PM	Not Reported
34	CCV-2	CCV	1	Hexavalent Chromium	10/28/24 2:46 PM	Reported
35	CCB-2	CCB	1	Hexavalent Chromium	10/28/24 2:55 PM	Reported
36	N069444-003A	SAMP	5	Hexavalent Chromium	10/28/24 3:04 PM	Reported
37	N069444-003AMS	MS	5	Hexavalent Chromium	10/28/24 3:14 PM	Reported
38	N069233-009A	SAMP	5	Hexavalent Chromium	10/28/24 3:23 PM	Not Reported
39	N069233-009AMS	MS	5	Hexavalent Chromium	10/28/24 3:33 PM	Not Reported
40	N069233-015A	SAMP	5	Hexavalent Chromium	10/28/24 3:42 PM	Not Reported
41	N069233-015AMS	MS	5	Hexavalent Chromium	10/28/24 3:52 PM	Not Reported
42	CCV-3	CCV1	1	Hexavalent Chromium	10/28/24 4:01 PM	Reported

INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	CCB-3	CCB	1	Hexavalent Chromium	10/28/24 4:11 PM	Reported
44	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 4:20 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241028A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	28/Oct/24 16:50:54
No. of Injections:	47	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	ICV,ICV,1,	9	1000	Unknown		10/28/2024 10:49	Finished	ICV @5ppb, IWST-240729B
10	PQL @0.2ppb,CCV2,	10	1000	Unknown		10/28/2024 10:59	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		10/28/2024 11:08	Finished	ICB R240926A
12	MB-H2O,MBLK,1,	12	1000	Unknown		10/28/2024 11:17	Finished	MB R240926A
13	LCS-H2O,LCS,1,	13	1000	Unknown		10/28/2024 11:27	Finished	LCS @5ppb, IWST-240729B
14	N069445-001A,SAMP	14	1000	Unknown		10/28/2024 11:36	Finished	SAMP,10 mL
15	N069445-001AMS,MS	15	1000	Unknown		10/28/2024 11:46	Finished	MS (1ppb), IWST-240729B,10r
16	N069445-001AMSD,N	16	1000	Unknown		10/28/2024 11:55	Finished	MSD (1ppb), IWST-240729B,1
17	N069445-001ADUP,D	17	1000	Unknown		10/28/2024 12:05	Finished	DUP,10 mL
18	N069453-001A,SAMP	18	1000	Unknown		10/28/2024 12:14	Finished	SAMP,10 mL
19	N069453-002A,SAMP	19	1000	Unknown		10/28/2024 12:24	Finished	SAMP,10 mL
20	N069453-003A,SAMP	20	1000	Unknown		10/28/2024 12:33	Finished	SAMP,10 mL
21	N069453-004A,SAMP	21	1000	Unknown		10/28/2024 12:43	Finished	SAMP,10 mL
22	CCV-1,CCV1,1,	22	1000	Unknown		10/28/2024 12:52	Finished	CCV @10ppb, IWST-240729A
23	CCB-1,CCB,1,	23	1000	Unknown		10/28/2024 13:02	Finished	CCB R240926A
24	N069444-001A,SAMP	24	1000	Unknown		10/28/2024 13:11	Finished	SAMP,10 mL
25	N069444-001AMS,MS	25	1000	Unknown		10/28/2024 13:20	Finished	MS (1ppb), IWST-240729B,10r
26	N069444-002A,SAMP	26	1000	Unknown		10/28/2024 13:30	Finished	SAMP,10 mL
27	N069444-002AMS,MS	27	1000	Unknown		10/28/2024 13:39	Finished	MS (1ppb), IWST-240729B,10r
28	N069444-003A,SAMP	28	1000	Unknown		10/28/2024 13:49	Finished	SAMP,10 mL
29	N069444-003AMS,MS	29	1000	Unknown		10/28/2024 13:58	Finished	MS (1ppb), IWST-240729B,10r
30	N069444-001A,SAMP	30	1000	Unknown		10/28/2024 14:08	Finished	SAMP,2>10 mL
31	N069444-001AMS,MS	31	1000	Unknown		10/28/2024 14:17	Finished	MS (1ppb), IWST-240729B,2>
32	N069444-002A,SAMP	32	1000	Unknown		10/28/2024 14:27	Finished	SAMP,2>10 mL
33	N069444-002AMS,MS	33	1000	Unknown		10/28/2024 14:36	Finished	MS (1ppb), IWST-240729B,2>
34	CCV-2,CCV,1,	34	1000	Unknown		10/28/2024 14:46	Finished	CCV @5ppb, IWST-240729A
35	CCB-2,CCB,1,	35	1000	Unknown		10/28/2024 14:55	Finished	CCB R240926A
36	N069444-003A,SAMP	36	1000	Unknown		10/28/2024 15:04	Finished	SAMP,2>10 mL
37	N069444-003AMS,MS	37	1000	Unknown		10/28/2024 15:14	Finished	MS (1ppb), IWST-240729B,2>
38	N069233-009A,SAMP	38	1000	Unknown		10/28/2024 15:23	Finished	SAMP,2>10 mL
39	N069233-009AMS,MS	39	1000	Unknown		10/28/2024 15:33	Finished	MS (1ppb), IWST-240729B,2>
40	N069233-015A,SAMP	40	1000	Unknown		10/28/2024 15:42	Finished	SAMP,2>10 mL
41	N069233-015AMS,MS	41	1000	Unknown		10/28/2024 15:52	Finished	MS (1ppb), IWST-240729B,2>
42	CCV-3,CCV1,1,	42	1000	Unknown		10/28/2024 16:01	Finished	CCV @10ppb, IWST-240729A
43	CCB-3,CCB,1,	43	1000	Unknown		10/28/2024 16:11	Finished	CCB R240926A
44	BLANK	44	1000	Unknown		10/28/2024 16:20	Finished	BLANK
45	SHUTDOWN	45	1000	Unknown		10/28/2024 16:30	Finished	
46	Eluent: R241025A	46	1000	Unknown		n.a.	Finished	
47	PCR: R241025B	47	1000	Unknown		n.a.	Finished	

INJECTION LOG: 241030A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	10/30/24 9:17 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	10/30/24 9:28 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/30/24 9:37 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	10/30/24 9:46 AM	Reported
13	MB-R195027	MBLK	1	Hexavalent Chromium	10/30/24 9:56 AM	Reported
14	LCS-R195027	LCS	1	Hexavalent Chromium	10/30/24 10:05 AM	Reported
15	N069498-001A	SAMP	50	Hexavalent Chromium	10/30/24 10:15 AM	Reported
16	N069498-001ADUP	DUP	50	Hexavalent Chromium	10/30/24 10:24 AM	Reported
17	N069498-001AMS	MS	50	Hexavalent Chromium	10/30/24 10:34 AM	Reported
18	N069543-004A	SAMP	10	Hexavalent Chromium	10/30/24 11:08 AM	Reported
19	N069543-010A	SAMP	5	Hexavalent Chromium	10/30/24 11:19 AM	Reported
20	N069543-016A	SAMP	5	Hexavalent Chromium	10/30/24 11:29 AM	Reported
21	N069543-004AMS	MS	10	Hexavalent Chromium	10/30/24 11:38 AM	Reported
22	N069543-004AMSD	MSD	10	Hexavalent Chromium	10/30/24 11:48 AM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	10/30/24 11:57 AM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	10/30/24 12:06 PM	Reported
25	N069543-007A	SAMP	1	Hexavalent Chromium	10/30/24 12:16 PM	Reported
26	N069543-010AMS	MS	5	Hexavalent Chromium	10/30/24 12:25 PM	Reported
27	N069543-016AMS	MS	5	Hexavalent Chromium	10/30/24 12:35 PM	Reported
28	N069543-011A	SAMP	1	Hexavalent Chromium	10/30/24 12:44 PM	Reported
29	N069543-011AMS	MS	1	Hexavalent Chromium	10/30/24 12:54 PM	Not Reported
30	N069543-012A	SAMP	1	Hexavalent Chromium	10/30/24 1:03 PM	Reported
31	N069543-012AMS	MS	1	Hexavalent Chromium	10/30/24 1:13 PM	Reported
32	N069543-013A	SAMP	1	Hexavalent Chromium	10/30/24 1:22 PM	Reported
33	N069543-013AMS	MS	1	Hexavalent Chromium	10/30/24 1:32 PM	Reported
34	N069543-007AMS	MS	1	Hexavalent Chromium	10/30/24 1:41 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	10/30/24 1:50 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	10/30/24 2:00 PM	Reported
37	N069543-015A	SAMP	1	Hexavalent Chromium	10/30/24 2:09 PM	Reported
38	N069543-015AMS	MS	1	Hexavalent Chromium	10/30/24 2:19 PM	Reported
39	N069542-001A	SAMP	1	Hexavalent Chromium	10/30/24 2:28 PM	Not Reported
40	N069542-001AMS	MS	1	Hexavalent Chromium	10/30/24 2:38 PM	Not Reported
41	N069542-002A	SAMP	1	Hexavalent Chromium	10/30/24 2:47 PM	Not Reported
42	N069542-002AMS	MS	1	Hexavalent Chromium	10/30/24 2:57 PM	Not Reported

INJECTION LOG: 241030A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069542-003A	SAMP	1	Hexavalent Chromium	10/30/24 3:06 PM	Not Reported
44	N069542-003AMS	MS	1	Hexavalent Chromium	10/30/24 3:16 PM	Not Reported
45	N069543-001A	SAMP	1	Hexavalent Chromium	10/30/24 3:26 PM	Not Reported
46	N069543-001AMS	MS	1	Hexavalent Chromium	10/30/24 3:37 PM	Not Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	10/30/24 3:46 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	10/30/24 3:56 PM	Reported
49	N069543-002A	SAMP	1	Hexavalent Chromium	10/30/24 4:05 PM	Not Reported
50	N069543-002AMS	MS	1	Hexavalent Chromium	10/30/24 4:14 PM	Not Reported
51	N069543-003A	SAMP	1	Hexavalent Chromium	10/30/24 4:24 PM	Not Reported
52	N069543-003AMS	MS	1	Hexavalent Chromium	10/30/24 4:33 PM	Not Reported
53	N069543-005A	SAMP	1	Hexavalent Chromium	10/30/24 4:43 PM	Not Reported
54	N069543-005AMS	MS	1	Hexavalent Chromium	10/30/24 4:52 PM	Not Reported
55	N069543-006A	SAMP	5	Hexavalent Chromium	10/30/24 5:02 PM	Reported
56	N069543-006AMS	MS	5	Hexavalent Chromium	10/30/24 5:11 PM	Reported
57	N069543-008A	SAMP	1	Hexavalent Chromium	10/30/24 5:21 PM	Not Reported
58	N069543-008AMS	MS	1	Hexavalent Chromium	10/30/24 5:30 PM	Not Reported
59	CCV-5	CCV	1	Hexavalent Chromium	10/30/24 5:40 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	10/30/24 5:49 PM	Reported
61	N069543-009A	SAMP	1	Hexavalent Chromium	10/30/24 5:59 PM	Not Reported
62	N069543-009AMS	MS	1	Hexavalent Chromium	10/30/24 6:08 PM	Not Reported
63	N069543-014A	SAMP	1	Hexavalent Chromium	10/30/24 6:17 PM	Not Reported
64	N069543-014AMS	MS	1	Hexavalent Chromium	10/30/24 6:27 PM	Not Reported
65	N069543-017A	SAMP	5	Hexavalent Chromium	10/30/24 6:36 PM	Reported
66	N069543-017AMS	MS	5	Hexavalent Chromium	10/30/24 6:46 PM	Reported
67	N069542-001A	SAMP	5	Hexavalent Chromium	10/30/24 6:55 PM	Reported
68	N069542-001AMS	MS	5	Hexavalent Chromium	10/30/24 7:05 PM	Reported
69	N069542-002A	SAMP	5	Hexavalent Chromium	10/30/24 7:14 PM	Reported
70	N069542-002AMS	MS	5	Hexavalent Chromium	10/30/24 7:24 PM	Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	10/30/24 7:33 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	10/30/24 7:43 PM	Reported
73	N069542-003A	SAMP	5	Hexavalent Chromium	10/30/24 7:52 PM	Reported
74	N069542-003AMS	MS	5	Hexavalent Chromium	10/30/24 8:01 PM	Reported
75	N069543-001A	SAMP	5	Hexavalent Chromium	10/30/24 8:11 PM	Reported
76	N069543-001AMS	MS	5	Hexavalent Chromium	10/30/24 8:20 PM	Reported
77	N069543-002A	SAMP	5	Hexavalent Chromium	10/30/24 8:30 PM	Reported
78	N069543-002AMS	MS	5	Hexavalent Chromium	10/30/24 8:39 PM	Reported
79	N069543-003A	SAMP	5	Hexavalent Chromium	10/30/24 8:49 PM	Not Reported
80	N069543-003AMS	MS	5	Hexavalent Chromium	10/30/24 8:58 PM	Not Reported
81	N069543-005A	SAMP	5	Hexavalent Chromium	10/30/24 9:08 PM	Reported
82	N069543-005AMS	MS	5	Hexavalent Chromium	10/30/24 9:17 PM	Reported
83	CCV-7	CCV	1	Hexavalent Chromium	10/30/24 9:27 PM	Reported
84	CCB-7	CCB	1	Hexavalent Chromium	10/30/24 9:36 PM	Reported

For RBA

jm 11/18/2024 104

INJECTION LOG: 241030A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N069543-008A	SAMP	5	Hexavalent Chromium	10/30/24 9:45 PM	Reported
86	N069543-008AMS	MS	5	Hexavalent Chromium	10/30/24 9:55 PM	Reported
87	N069543-009A	SAMP	5	Hexavalent Chromium	10/30/24 10:04 PM	Reported
88	N069543-009AMS	MS	5	Hexavalent Chromium	10/30/24 10:14 PM	Reported
89	N069543-014A	SAMP	5	Hexavalent Chromium	10/30/24 10:23 PM	Reported
90	N069543-014AMS	MS	5	Hexavalent Chromium	10/30/24 10:33 PM	Reported
91	N069543-011AMS	MS	1	Hexavalent Chromium	10/30/24 10:42 PM	Reported
92	CCV-8	CCV1	1	Hexavalent Chromium	10/30/24 10:52 PM	Reported
93	CCB-8	CCB	1	Hexavalent Chromium	10/30/24 11:01 PM	Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241030A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	30/Oct/24 23:31:55
No. of Injections:	96	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	BLANK	1	1000	Unknown		10/30/2024 09:17	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		10/30/2024 09:28	Finished	CCV @5ppb, IWST-240729A
11	PQL @0.2ppb,CCV2,	3	1000	Unknown		10/30/2024 09:37	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		10/30/2024 09:46	Finished	CCB R241001A
13	MB-H2O,MBLK,1,	5	1000	Unknown		10/30/2024 09:56	Finished	MB R241001A
14	LCS-H2O,LCS,1,	6	1000	Unknown		10/30/2024 10:05	Finished	LCS @5ppb, IWST-240729B
15	N069498-001A,SAMP	7	1000	Unknown		10/30/2024 10:15	Finished	SAMP,0.2>10 mL
16	N069498-001ADUP,D	8	1000	Unknown		10/30/2024 10:24	Finished	DUP,0.2>10 mL
17	N069498-001AMS,MS	9	1000	Unknown		10/30/2024 10:34	Finished	MS (5ppb), IWST-240729B,0.2
18	N069543-004A,SAMP	1	1000	Unknown		10/30/2024 11:08	Finished	SAMP,1>10 mL
19	N069543-010A,SAMP	2	1000	Unknown		10/30/2024 11:19	Finished	SAMP,2>10 mL
20	N069543-016A,SAMP	3	1000	Unknown		10/30/2024 11:29	Finished	SAMP,2>10 mL
21	N069543-004AMS,MS	4	1000	Unknown		10/30/2024 11:38	Finished	MS (5ppb), IWST-240729B,1>
22	N069543-004AMSD,N	5	1000	Unknown		10/30/2024 11:48	Finished	MSD (5ppb), IWST-240729B,1
23	CCV-2,CCV1,1,	6	1000	Unknown		10/30/2024 11:57	Finished	CCV @10ppb, IWST-240729A
24	CCB-2,CCB,1,	7	1000	Unknown		10/30/2024 12:06	Finished	CCB R241001A
25	N069543-007A,SAMP	8	1000	Unknown		10/30/2024 12:16	Finished	SAMP,10 mL
26	N069543-010AMS,MS	9	1000	Unknown		10/30/2024 12:25	Finished	MS (5ppb), IWST-240729B,2>
27	N069543-016AMS,MS	10	1000	Unknown		10/30/2024 12:35	Finished	MS (5ppb), IWST-240729B,2>
28	N069543-011A,SAMP	11	1000	Unknown		10/30/2024 12:44	Finished	SAMP,10 mL
29	N069543-011AMS,MS	12	1000	Unknown		10/30/2024 12:54	Finished	MS (5ppb), IWST-240729B,10r
30	N069543-012A,SAMP	13	1000	Unknown		10/30/2024 13:03	Finished	SAMP,10 mL
31	N069543-012AMS,MS	14	1000	Unknown		10/30/2024 13:13	Finished	MS (5ppb), IWST-240729B,10r
32	N069543-013A,SAMP	15	1000	Unknown		10/30/2024 13:22	Finished	SAMP,10 mL
33	N069543-013AMS,MS	16	1000	Unknown		10/30/2024 13:32	Finished	MS (5ppb), IWST-240729B,10r
34	N069543-007AMS,MS	17	1000	Unknown		10/30/2024 13:41	Finished	MS (1ppb), IWST-240729B,2> 10mL
35	CCV-3,CCV,1,	18	1000	Unknown		10/30/2024 13:50	Finished	CCV @5ppb, IWST-240729A
36	CCB-3,CCB,1,	19	1000	Unknown		10/30/2024 14:00	Finished	CCB R241001A
37	N069543-015A,SAMP	20	1000	Unknown		10/30/2024 14:09	Finished	SAMP,10 mL
38	N069543-015AMS,MS	21	1000	Unknown		10/30/2024 14:19	Finished	MS (5ppb), IWST-240729B,10r
39	N069542-001A,SAMP	22	1000	Unknown		10/30/2024 14:28	Finished	SAMP,10 mL
40	N069542-001AMS,MS	23	1000	Unknown		10/30/2024 14:38	Finished	MS (1ppb), IWST-240729B,10r
41	N069542-002A,SAMP	24	1000	Unknown		10/30/2024 14:47	Finished	SAMP,10 mL
42	N069542-002AMS,MS	25	1000	Unknown		10/30/2024 14:57	Finished	MS (1ppb), IWST-240729B,10r
43	N069542-003A,SAMP	26	1000	Unknown		10/30/2024 15:06	Finished	SAMP,10 mL
44	N069542-003AMS,MS	27	1000	Unknown		10/30/2024 15:16	Finished	MS (1ppb), IWST-240729B,10r
45	N069543-001A,SAMP	1	1000	Unknown		10/30/2024 15:26	Finished	SAMP,10 mL
46	N069543-001AMS,MS	2	1000	Unknown		10/30/2024 15:37	Finished	MS (1ppb), IWST-240729B,10r
47	CCV-4,CCV1,1,	3	1000	Unknown		10/30/2024 15:46	Finished	CCV @10ppb, IWST-240729A
48	CCB-4,CCB,1,	4	1000	Unknown		10/30/2024 15:56	Finished	CCB R241001A
49	N069543-002A,SAMP	5	1000	Unknown		10/30/2024 16:05	Finished	SAMP,10 mL
50	N069543-002AMS,MS	6	1000	Unknown		10/30/2024 16:14	Finished	MS (1ppb), IWST-240729B,10r
51	N069543-003A,SAMP	7	1000	Unknown		10/30/2024 16:24	Finished	SAMP,10 mL
52	N069543-003AMS,MS	8	1000	Unknown		10/30/2024 16:33	Finished	MS (1ppb), IWST-240729B,10r
53	N069543-005A,SAMP	9	1000	Unknown		10/30/2024 16:43	Finished	SAMP,10 mL
54	N069543-005AMS,MS	10	1000	Unknown		10/30/2024 16:52	Finished	MS (5ppb), IWST-240729B,10r
55	N069543-006A,SAMP	11	1000	Unknown		10/30/2024 17:02	Finished	SAMP,2>10 mL
56	N069543-006AMS,MS	12	1000	Unknown		10/30/2024 17:11	Finished	MS (5ppb), IWST-240729B,2>
57	N069543-008A,SAMP	13	1000	Unknown		10/30/2024 17:21	Finished	SAMP,10 mL
58	N069543-008AMS,MS	14	1000	Unknown		10/30/2024 17:30	Finished	MS (1ppb), IWST-240729B,10r
59	CCV-5,CCV,1,	15	1000	Unknown		10/30/2024 17:40	Finished	CCV @5ppb, IWST-240729A
60	CCB-5,CCB,1,	16	1000	Unknown		10/30/2024 17:49	Finished	CCB R241001A

61	N069543-009A,SAMF	17	1000	Unknown	10/30/2024 17:59	Finished	SAMP,10 mL
62	N069543-009AMS,M\$	18	1000	Unknown	10/30/2024 18:08	Finished	MS (1ppb), IWST-240729B,10r
63	N069543-014A,SAMF	19	1000	Unknown	10/30/2024 18:17	Finished	SAMP,10 mL
64	N069543-014AMS,M\$	20	1000	Unknown	10/30/2024 18:27	Finished	MS (5ppb), IWST-240729B,10r
65	N069543-017A,SAMF	21	1000	Unknown	10/30/2024 18:36	Finished	SAMP,2>10 mL
66	N069543-017AMS,M\$	22	1000	Unknown	10/30/2024 18:46	Finished	MS (5ppb), IWST-240729B,2>
67	N069542-001A,SAMF	23	1000	Unknown	10/30/2024 18:55	Finished	SAMP,2>10 mL
68	N069542-001AMS,M\$	24	1000	Unknown	10/30/2024 19:05	Finished	MS (1ppb), IWST-240729B,2>
69	N069542-002A,SAMF	25	1000	Unknown	10/30/2024 19:14	Finished	SAMP,2>10 mL
70	N069542-002AMS,M\$	26	1000	Unknown	10/30/2024 19:24	Finished	MS (1ppb), IWST-240729B,2>
71	CCV-6,CCV1,1,	27	1000	Unknown	10/30/2024 19:33	Finished	CCV @10ppb, IWST-240729A
72	CCB-6,CCB,1,	28	1000	Unknown	10/30/2024 19:43	Finished	CCB R241001A
73	N069542-003A,SAMF	29	1000	Unknown	10/30/2024 19:52	Finished	SAMP,2>10 mL
74	N069542-003AMS,M\$	30	1000	Unknown	10/30/2024 20:01	Finished	MS (1ppb), IWST-240729B,2>
75	N069543-001A,SAMF	31	1000	Unknown	10/30/2024 20:11	Finished	SAMP,2>10 mL
76	N069543-001AMS,M\$	32	1000	Unknown	10/30/2024 20:20	Finished	MS (1ppb), IWST-240729B,2>
77	N069543-002A,SAMF	33	1000	Unknown	10/30/2024 20:30	Finished	SAMP,2>10 mL
78	N069543-002AMS,M\$	34	1000	Unknown	10/30/2024 20:39	Finished	MS (1ppb), IWST-240729B,2>
79	N069543-003A,SAMF	35	1000	Unknown	10/30/2024 20:49	Finished	SAMP,2>10 mL
80	N069543-003AMS,M\$	36	1000	Unknown	10/30/2024 20:58	Finished	MS (1ppb), IWST-240729B,2>
81	N069543-005A,SAMF	37	1000	Unknown	10/30/2024 21:08	Finished	SAMP,2>10 mL
82	N069543-005AMS,M\$	38	1000	Unknown	10/30/2024 21:17	Finished	MS (1ppb), IWST-240729B,2>
83	CCV-7,CCV,1,	39	1000	Unknown	10/30/2024 21:27	Finished	CCV @5ppb, IWST-240729A
84	CCB-7,CCB,1,	40	1000	Unknown	10/30/2024 21:36	Finished	CCB R241001A
85	N069543-008A,SAMF	41	1000	Unknown	10/30/2024 21:45	Finished	SAMP,2>10 mL
86	N069543-008AMS,M\$	42	1000	Unknown	10/30/2024 21:55	Finished	MS (1ppb), IWST-240729B,2>
87	N069543-009A,SAMF	43	1000	Unknown	10/30/2024 22:04	Finished	SAMP,2>10 mL
88	N069543-009AMS,M\$	44	1000	Unknown	10/30/2024 22:14	Finished	MS (1ppb), IWST-240729B,2>
89	N069543-014A,SAMF	45	1000	Unknown	10/30/2024 22:23	Finished	SAMP,2>10 mL
90	N069543-014AMS,M\$	46	1000	Unknown	10/30/2024 22:33	Finished	MS (1ppb), IWST-240729B,2>
91	N069543-011AMS,M\$	47	1000	Unknown	10/30/2024 22:42	Finished	MS (1ppb), IWST-240729B,10r
92	CCV-8,CCV1,1,	48	1000	Unknown	10/30/2024 22:52	Finished	CCV @10ppb, IWST-240729A
93	CCB-8,CCB,1,	49	1000	Unknown	10/30/2024 23:01	Finished	CCB R241001A
94	SHUTDOWN	50	1000	Unknown	10/30/2024 23:11	Finished	
95	Eluent: R241029A	51	1000	Unknown	n.a.	Finished	
96	PCR: R241029B	CurrentVia	1000	Unknown	n.a.	Finished	



INJECTION LOG: 241031A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	10/31/24 9:46 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	10/31/24 9:59 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/31/24 10:08 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	10/31/24 10:18 AM	Reported
13	MB-R195071	MBLK	1	Hexavalent Chromium	10/31/24 10:27 AM	Reported
14	LCS-R195071	LCS	1	Hexavalent Chromium	10/31/24 10:37 AM	Reported
15	N069543-018A	SAMP	1	Hexavalent Chromium	10/31/24 10:46 AM	Reported
16	N069543-018AMS	MS	1	Hexavalent Chromium	10/31/24 10:56 AM	Reported
17	N069543-019A	SAMP	1	Hexavalent Chromium	10/31/24 11:05 AM	Not Reported
18	N069543-019AMS	MS	1	Hexavalent Chromium	10/31/24 11:15 AM	Not Reported
19	N069543-020A	SAMP	1	Hexavalent Chromium	10/31/24 11:24 AM	Not Reported
20	N069543-020AMS	MS	1	Hexavalent Chromium	10/31/24 11:33 AM	Not Reported
21	N069543-021A	SAMP	1	Hexavalent Chromium	10/31/24 11:43 AM	Reported
22	N069543-021AMS	MS	1	Hexavalent Chromium	10/31/24 11:52 AM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	10/31/24 12:02 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	10/31/24 12:11 PM	Reported
25	N069583-003A	SAMP	1	Hexavalent Chromium	10/31/24 12:22 PM	Not Reported
26	N069583-003AMS	MS	1	Hexavalent Chromium	10/31/24 12:33 PM	Not Reported
27	N069583-003A	SAMP	5	Hexavalent Chromium	10/31/24 12:43 PM	Reported
28	N069583-003AMS	MS	5	Hexavalent Chromium	10/31/24 12:52 PM	Reported
29	N069583-003AMSD	MSD	5	Hexavalent Chromium	10/31/24 1:02 PM	Reported
30	N069582-002A	SAMP	50	Hexavalent Chromium	10/31/24 1:52 PM	Not Reported
31	N069582-003A	SAMP	5	Hexavalent Chromium	10/31/24 2:05 PM	Reported
32	N069582-004A	SAMP	50	Hexavalent Chromium	10/31/24 2:14 PM	Not Reported
33	N069583-002A	SAMP	1	Hexavalent Chromium	10/31/24 2:24 PM	Not Reported
34	N069583-002AMS	MS	1	Hexavalent Chromium	10/31/24 2:33 PM	Not Reported
35	CCV-3	CCV	1	Hexavalent Chromium	10/31/24 2:43 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	10/31/24 2:52 PM	Reported
37	N069583-006A	SAMP	1	Hexavalent Chromium	10/31/24 3:02 PM	Reported
38	N069583-006AMS	MS	1	Hexavalent Chromium	10/31/24 3:11 PM	Reported
39	N069585-001A	SAMP	5	Hexavalent Chromium	10/31/24 3:21 PM	Reported
40	N069585-001AMS	MS	5	Hexavalent Chromium	10/31/24 3:30 PM	Reported
41	N069585-001ADUP	DUP	5	Hexavalent Chromium	10/31/24 3:39 PM	Reported
42	N069582-002A	SAMP	5	Hexavalent Chromium	10/31/24 4:04 PM	Reported

INJECTION LOG: 241031A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069582-002AMS	MS	5	Hexavalent Chromium	10/31/24 4:16 PM	Reported
44	N069582-003AMS	MS	5	Hexavalent Chromium	10/31/24 4:26 PM	Reported
45	N069582-004AMS	MS	50	Hexavalent Chromium	10/31/24 4:35 PM	Not Reported
46	N069543-019A	SAMP	5	Hexavalent Chromium	10/31/24 4:44 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	10/31/24 4:54 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	10/31/24 5:03 PM	Reported
49	N069543-019AMS	MS	5	Hexavalent Chromium	10/31/24 5:13 PM	Reported
50	N069543-020A	SAMP	5	Hexavalent Chromium	10/31/24 5:22 PM	Reported
51	N069543-020AMS	MS	5	Hexavalent Chromium	10/31/24 5:32 PM	Reported
52	N069582-001A	SAMP	1	Hexavalent Chromium	10/31/24 5:41 PM	Reported
53	N069582-001AMS	MS	1	Hexavalent Chromium	10/31/24 5:51 PM	Reported
54	N069583-001A	SAMP	5	Hexavalent Chromium	10/31/24 6:00 PM	Reported
55	N069583-001AMS	MS	5	Hexavalent Chromium	10/31/24 6:10 PM	Reported
56	N069583-002A	SAMP	5	Hexavalent Chromium	10/31/24 6:19 PM	Reported
57	N069583-002AMS	MS	5	Hexavalent Chromium	10/31/24 6:28 PM	Reported
58	N069583-004A	SAMP	1	Hexavalent Chromium	10/31/24 6:38 PM	Not Reported
59	CCV-5	CCV	1	Hexavalent Chromium	10/31/24 6:47 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	10/31/24 6:57 PM	Reported
61	N069583-004AMS	MS	1	Hexavalent Chromium	10/31/24 7:06 PM	Not Reported
62	N069583-004A	SAMP	5	Hexavalent Chromium	10/31/24 7:16 PM	Reported
63	N069583-004AMS	MS	5	Hexavalent Chromium	10/31/24 7:25 PM	Reported
64	N069583-005A	SAMP	1	Hexavalent Chromium	10/31/24 7:35 PM	Reported
65	N069583-005AMS	MS	1	Hexavalent Chromium	10/31/24 7:44 PM	Reported
66	N069583-007A	SAMP	1	Hexavalent Chromium	10/31/24 7:54 PM	Reported
67	N069583-007AMS	MS	1	Hexavalent Chromium	10/31/24 8:03 PM	Reported
68	N069583-008A	SAMP	1	Hexavalent Chromium	10/31/24 8:12 PM	Not Reported
69	N069583-008AMS	MS	1	Hexavalent Chromium	10/31/24 8:22 PM	Not Reported
70	N069583-008A	SAMP	5	Hexavalent Chromium	10/31/24 8:31 PM	Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	10/31/24 8:41 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	10/31/24 8:50 PM	Reported
73	N069583-008AMS	MS	5	Hexavalent Chromium	10/31/24 9:00 PM	Reported
74	N069583-009A	SAMP	1	Hexavalent Chromium	10/31/24 9:09 PM	Not Reported
75	N069583-009AMS	MS	1	Hexavalent Chromium	10/31/24 9:19 PM	Not Reported
76	N069583-009A	SAMP	5	Hexavalent Chromium	10/31/24 9:28 PM	Reported
77	N069583-009AMS	MS	5	Hexavalent Chromium	10/31/24 9:38 PM	Reported
78	N069583-010A	SAMP	1	Hexavalent Chromium	10/31/24 9:47 PM	Not Reported
79	N069583-010AMS	MS	1	Hexavalent Chromium	10/31/24 9:56 PM	Not Reported
80	N069583-010A	SAMP	5	Hexavalent Chromium	10/31/24 10:06 PM	Reported
81	N069583-010AMS	MS	5	Hexavalent Chromium	10/31/24 10:15 PM	Reported
82	N069583-011A	SAMP	1	Hexavalent Chromium	10/31/24 10:25 PM	Reported
83	CCV-7	CCV	1	Hexavalent Chromium	10/31/24 10:34 PM	Reported
84	CCB-7	CCB	1	Hexavalent Chromium	10/31/24 10:44 PM	Reported

INJECTION LOG: 241031A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N069583-011AMS	MS	1	Hexavalent Chromium	10/31/24 10:53 PM	Reported
86	CCV-8	CCV1	1	Hexavalent Chromium	10/31/24 11:03 PM	Reported
87	CCB-8	CCB	1	Hexavalent Chromium	10/31/24 11:12 PM	Reported
88	BLANK	BLANK	1	Hexavalent Chromium	10/31/24 11:22 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241031A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	31/Oct/24 23:52:19
No. of Injections:	91	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	BLANK	1	1000	Unknown		10/31/2024 09:46	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		10/31/2024 09:59	Finished	CCV @5ppb, IWST-240729A
11	PQL @0.2ppb,CCV2,	3	1000	Unknown		10/31/2024 10:08	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		10/31/2024 10:18	Finished	CCB R241001A
13	MB-H2O,MBLK,1,	5	1000	Unknown		10/31/2024 10:27	Finished	MB R241001A
14	LCS-H2O,LCS,1,	6	1000	Unknown		10/31/2024 10:37	Finished	LCS @5ppb, IWST-240729B
15	N069543-018A,SAMP	7	1000	Unknown		10/31/2024 10:46	Finished	SAMP,10 mL
16	N069543-018AMS,M	8	1000	Unknown		10/31/2024 10:56	Finished	MS (1ppb), IWST-240729B,10r
17	N069543-019A,SAMP	9	1000	Unknown		10/31/2024 11:05	Finished	SAMP,10 mL
18	N069543-019AMS,M	10	1000	Unknown		10/31/2024 11:15	Finished	MS (1ppb), IWST-240729B,10r
19	N069543-020A,SAMP	11	1000	Unknown		10/31/2024 11:24	Finished	SAMP,10 mL
20	N069543-020AMS,M	12	1000	Unknown		10/31/2024 11:33	Finished	MS (1ppb), IWST-240729B,10r
21	N069543-021A,SAMP	13	1000	Unknown		10/31/2024 11:43	Finished	SAMP,10 mL
22	N069543-021AMS,M	14	1000	Unknown		10/31/2024 11:52	Finished	MS (1ppb), IWST-240729B,10r
23	CCV-2,CCV1,1,	15	1000	Unknown		10/31/2024 12:02	Finished	CCV @10ppb, IWST-240729A
24	CCB-2,CCB,1,	16	1000	Unknown		10/31/2024 12:11	Finished	CCB R241001A
25	N069583-003A,SAMP	1	1000	Unknown		10/31/2024 12:22	Finished	SAMP,10 mL
26	N069583-003AMS,M	2	1000	Unknown		10/31/2024 12:33	Finished	MS (1ppb), IWST-240729B,10r
27	N069583-003A,SAMP	3	1000	Unknown		10/31/2024 12:43	Finished	SAMP,2>10 mL
28	N069583-003AMS,M	4	1000	Unknown		10/31/2024 12:52	Finished	MS (1ppb), IWST-240729B,2>
29	N069583-003AMSD,N	5	1000	Unknown		10/31/2024 13:02	Finished	MSD (1ppb), IWST-240729B,2>
30	N069582-002A,SAMP	1	1000	Unknown		10/31/2024 13:52	Finished	SAMP,0.2>10 mL
31	N069582-003A,SAMP	2	1000	Unknown		10/31/2024 14:05	Finished	SAMP,2>10 mL
32	N069582-004A,SAMP	3	1000	Unknown		10/31/2024 14:14	Finished	SAMP,0.2>10 mL
33	N069583-002A,SAMP	4	1000	Unknown		10/31/2024 14:24	Finished	SAMP,10 mL
34	N069583-002AMS,M	5	1000	Unknown		10/31/2024 14:33	Finished	MS (1ppb), IWST-240729B,10r
35	CCV-3,CCV,1,	6	1000	Unknown		10/31/2024 14:43	Finished	CCV @5ppb, IWST-240729A
36	CCB-3,CCB,1,	7	1000	Unknown		10/31/2024 14:52	Finished	CCB R241001A
37	N069583-006A,SAMP	8	1000	Unknown		10/31/2024 15:02	Finished	SAMP,10 mL
38	N069583-006AMS,M	9	1000	Unknown		10/31/2024 15:11	Finished	MS (1ppb), IWST-240729B,10r
39	N069585-001A,SAMP	10	1000	Unknown		10/31/2024 15:21	Finished	SAMP,2>10 mL
40	N069585-001AMS,M	11	1000	Unknown		10/31/2024 15:30	Finished	MS (5ppb), IWST-240729B,2>
41	N069585-001ADUP,D	12	1000	Unknown		10/31/2024 15:39	Finished	DUP,2>10 mL
42	N069582-002A,SAMP	1	1000	Unknown		10/31/2024 16:04	Finished	SAMP,2>10 mL
43	N069582-002AMS,M	2	1000	Unknown		10/31/2024 16:16	Finished	MS (5ppb), IWST-240729B,2>
44	N069582-003AMS,M	3	1000	Unknown		10/31/2024 16:26	Finished	MS (5ppb), IWST-240729B,2>
45	N069582-004AMS,M	4	1000	Unknown		10/31/2024 16:35	Finished	MS (5ppb), IWST-240729B,0.2
46	N069543-019A,SAMP	5	1000	Unknown		10/31/2024 16:44	Finished	SAMP,2>10 mL
47	CCV-4,CCV1,1,	6	1000	Unknown		10/31/2024 16:54	Finished	CCV @10ppb, IWST-240729A
48	CCB-4,CCB,1,	7	1000	Unknown		10/31/2024 17:03	Finished	CCB R241001A
49	N069543-019AMS,M	8	1000	Unknown		10/31/2024 17:13	Finished	MS (1ppb), IWST-240729B,2>
50	N069543-020A,SAMP	9	1000	Unknown		10/31/2024 17:22	Finished	SAMP,2>10 mL
51	N069543-020AMS,M	10	1000	Unknown		10/31/2024 17:32	Finished	MS (1ppb), IWST-240729B,2>
52	N069582-001A,SAMP	11	1000	Unknown		10/31/2024 17:41	Finished	SAMP,10 mL
53	N069582-001AMS,M	12	1000	Unknown		10/31/2024 17:51	Finished	MS (1ppb), IWST-240729B,10r
54	N069583-001A,SAMP	13	1000	Unknown		10/31/2024 18:00	Finished	SAMP,2>10 mL
55	N069583-001AMS,M	14	1000	Unknown		10/31/2024 18:10	Finished	MS (1ppb), IWST-240729B,2>
56	N069583-002A,SAMP	15	1000	Unknown		10/31/2024 18:19	Finished	SAMP,2>10 mL
57	N069583-002AMS,M	16	1000	Unknown		10/31/2024 18:28	Finished	MS (1ppb), IWST-240729B,2>
58	N069583-004A,SAMP	17	1000	Unknown		10/31/2024 18:38	Finished	SAMP,10 mL
59	CCV-5,CCV,1,	18	1000	Unknown		10/31/2024 18:47	Finished	CCV @5ppb, IWST-240729A
60	CCB-5,CCB,1,	19	1000	Unknown		10/31/2024 18:57	Finished	CCB R241001A

61	N069583-004AMS.M\$	20	1000	Unknown	10/31/2024 19:06	Finished	MS (1ppb), IWST-240729B,10r
62	N069583-004A,SAMF	21	1000	Unknown	10/31/2024 19:16	Finished	SAMP,2>10 mL
63	N069583-004AMS.M\$	22	1000	Unknown	10/31/2024 19:25	Finished	MS (1ppb), IWST-240729B,2>
64	N069583-005A,SAMF	23	1000	Unknown	10/31/2024 19:35	Finished	SAMP,10 mL
65	N069583-005AMS.M\$	24	1000	Unknown	10/31/2024 19:44	Finished	MS (1ppb), IWST-240729B,10r
66	N069583-007A,SAMF	25	1000	Unknown	10/31/2024 19:54	Finished	SAMP,10 mL
67	N069583-007AMS.M\$	26	1000	Unknown	10/31/2024 20:03	Finished	MS (1ppb), IWST-240729B,10r
68	N069583-008A,SAMF	27	1000	Unknown	10/31/2024 20:12	Finished	SAMP,10 mL
69	N069583-008AMS.M\$	28	1000	Unknown	10/31/2024 20:22	Finished	MS (1ppb), IWST-240729B,10r
70	N069583-008A,SAMF	29	1000	Unknown	10/31/2024 20:31	Finished	SAMP,2>10 mL
71	CCV-6,CCV1,1,	30	1000	Unknown	10/31/2024 20:41	Finished	CCV @10ppb, IWST-240729A
72	CCB-6,CCB,1,	31	1000	Unknown	10/31/2024 20:50	Finished	CCB R241001A
73	N069583-008AMS.M\$	32	1000	Unknown	10/31/2024 21:00	Finished	MS (1ppb), IWST-240729B,2>
74	N069583-009A,SAMF	33	1000	Unknown	10/31/2024 21:09	Finished	SAMP,10 mL
75	N069583-009AMS.M\$	34	1000	Unknown	10/31/2024 21:19	Finished	MS (1ppb), IWST-240729B,10r
76	N069583-009A,SAMF	35	1000	Unknown	10/31/2024 21:28	Finished	SAMP,2>10 mL
77	N069583-009AMS.M\$	36	1000	Unknown	10/31/2024 21:38	Finished	MS (1ppb), IWST-240729B,2>
78	N069583-010A,SAMF	37	1000	Unknown	10/31/2024 21:47	Finished	SAMP,10 mL
79	N069583-010AMS.M\$	38	1000	Unknown	10/31/2024 21:56	Finished	MS (1ppb), IWST-240729B,10r
80	N069583-010A,SAMF	39	1000	Unknown	10/31/2024 22:06	Finished	SAMP,2>10 mL
81	N069583-010AMS.M\$	40	1000	Unknown	10/31/2024 22:15	Finished	MS (1ppb), IWST-240729B,2>
82	N069583-011A,SAMF	41	1000	Unknown	10/31/2024 22:25	Finished	SAMP,10 mL
83	CCV-7,CCV,1,	42	1000	Unknown	10/31/2024 22:34	Finished	CCV @5ppb, IWST-240729A
84	CCB-7,CCB,1,	43	1000	Unknown	10/31/2024 22:44	Finished	CCB R241001A
85	N069583-011AMS.M\$	44	1000	Unknown	10/31/2024 22:53	Finished	MS (1ppb), IWST-240729B,10r
86	CCV-8,CCV1,1,	45	1000	Unknown	10/31/2024 23:03	Finished	CCV @10ppb, IWST-240729A
87	CCB-8,CCB,1,	46	1000	Unknown	10/31/2024 23:12	Finished	CCB R241001A
88	BLANK	47	1000	Unknown	10/31/2024 23:22	Finished	BLANK
89	SHUTDOWN	48	1000	Unknown	10/31/2024 23:31	Finished	
90	Eluent: R241029A	49	1000	Unknown	n.a.	Finished	
91	PCR: R241029B	50	1000	Unknown	n.a.	Finished	

INJECTION LOG: 241113A


Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	11/13/24 8:49 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	11/13/24 9:02 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	11/13/24 9:11 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	11/13/24 9:21 AM	Reported
13	MB-R195632	MBLK	1	Hexavalent Chromium	11/13/24 9:30 AM	Reported
14	LCS-R195632	LCS	1	Hexavalent Chromium	11/13/24 9:40 AM	Reported
15	N069927-001B	SAMP	5	Hexavalent Chromium	11/13/24 9:49 AM	Reported
16	N069927-002B	SAMP	10	Hexavalent Chromium	11/13/24 9:59 AM	Reported
17	N069927-004B	SAMP	5	Hexavalent Chromium	11/13/24 10:08 AM	Reported
18	N069927-005B	SAMP	5	Hexavalent Chromium	11/13/24 10:17 AM	Reported
19	N069927-006B	SAMP	2	Hexavalent Chromium	11/13/24 10:27 AM	Reported
20	N069927-003A	SAMP	1	Hexavalent Chromium	11/13/24 10:36 AM	Reported
21	N069927-001BREP	DUP	5	Hexavalent Chromium	11/13/24 10:46 AM	Reported
22	N069927-002BREP	DUP	10	Hexavalent Chromium	11/13/24 10:55 AM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	11/13/24 11:05 AM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	11/13/24 11:14 AM	Reported
25	N069927-004BREP	DUP	5	Hexavalent Chromium	11/13/24 11:24 AM	Reported
26	N069927-005BREP	DUP	5	Hexavalent Chromium	11/13/24 11:33 AM	Reported
27	N069927-006BREP	DUP	2	Hexavalent Chromium	11/13/24 11:43 AM	Reported
28	N069927-003AREP	DUP	1	Hexavalent Chromium	11/13/24 11:52 AM	Reported
29	N069927-001BMS	MS	5	Hexavalent Chromium	11/13/24 12:02 PM	Reported
30	N069927-002BMS	MS	10	Hexavalent Chromium	11/13/24 12:11 PM	Reported
31	N069927-002BMSD	MSD	10	Hexavalent Chromium	11/13/24 12:20 PM	Reported
32	N069927-004BMS	MS	5	Hexavalent Chromium	11/13/24 12:30 PM	Reported
33	N069927-005BMS	MS	5	Hexavalent Chromium	11/13/24 12:39 PM	Reported
34	N069927-006BMS	MS	2	Hexavalent Chromium	11/13/24 12:49 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	11/13/24 12:58 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	11/13/24 1:08 PM	Reported
37	N069927-003AMS	MS	1	Hexavalent Chromium	11/13/24 1:17 PM	Reported
38	N069891-006A	SAMP	1	Hexavalent Chromium	11/13/24 1:27 PM	Reported
39	N069891-006AMS	MS	1	Hexavalent Chromium	11/13/24 1:36 PM	Reported
40	N069891-009A	SAMP	1	Hexavalent Chromium	11/13/24 1:46 PM	Reported
41	N069891-009AMS	MS	1	Hexavalent Chromium	11/13/24 1:55 PM	Reported
42	N069891-016A	SAMP	5	Hexavalent Chromium	11/13/24 2:05 PM	Reported

INJECTION LOG: 241113A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069891-016AMS	MS	5	Hexavalent Chromium	11/13/24 2:14 PM	Reported
44	N069891-012A	SAMP	1	Hexavalent Chromium	11/13/24 2:23 PM	Reported
45	N069891-012AMS	MS	1	Hexavalent Chromium	11/13/24 2:33 PM	Reported
46	N069891-014A	SAMP	1	Hexavalent Chromium	11/13/24 2:42 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	11/13/24 2:52 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	11/13/24 3:01 PM	Reported
49	N069891-014AMS	MS	1	Hexavalent Chromium	11/13/24 3:11 PM	Reported
50	N069543-003A	SAMP	5	Hexavalent Chromium	11/13/24 3:36 PM	Reported
51	N069543-003AMS	MS	5	Hexavalent Chromium	11/13/24 3:48 PM	Reported
52	N069891-012A	SAMP	5	Hexavalent Chromium	11/13/24 3:58 PM	Not Reported
53	N069891-012AMS	MS	5	Hexavalent Chromium	11/13/24 4:07 PM	Not Reported
54	N069891-014A	SAMP	5	Hexavalent Chromium	11/13/24 4:16 PM	Not Reported
55	N069891-014AMS	MS	5	Hexavalent Chromium	11/13/24 4:26 PM	Not Reported
56	N069891-015A	SAMP	5	Hexavalent Chromium	11/13/24 4:35 PM	Reported
57	N069891-015AMS	MS	5	Hexavalent Chromium	11/13/24 4:45 PM	Reported
58	N069891-013A	SAMP	1	Hexavalent Chromium	11/13/24 4:54 PM	Reported
59	CCV-5	CCV	1	Hexavalent Chromium	11/13/24 5:04 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	11/13/24 5:13 PM	Reported
61	N069891-013AMS	MS	1	Hexavalent Chromium	11/13/24 5:23 PM	Reported
62	N069891-017A	SAMP	1	Hexavalent Chromium	11/13/24 5:32 PM	Reported
63	N069891-017AMS	MS	1	Hexavalent Chromium	11/13/24 5:42 PM	Reported
64	N069889-001A	SAMP	1	Hexavalent Chromium	11/13/24 5:51 PM	Not Reported
65	N069889-001AMS	MS	1	Hexavalent Chromium	11/13/24 6:01 PM	Not Reported
66	N069889-002A	SAMP	1	Hexavalent Chromium	11/13/24 6:10 PM	Not Reported
67	N069889-002AMS	MS	1	Hexavalent Chromium	11/13/24 6:19 PM	Not Reported
68	N069889-003A	SAMP	1	Hexavalent Chromium	11/13/24 6:29 PM	Not Reported
69	N069889-003AMS	MS	1	Hexavalent Chromium	11/13/24 6:38 PM	Not Reported
70	N069923-001A	SAMP	1	Hexavalent Chromium	11/13/24 6:48 PM	Not Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	11/13/24 6:57 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	11/13/24 7:07 PM	Reported
73	N069923-001AMS	MS	1	Hexavalent Chromium	11/13/24 7:16 PM	Not Reported
74	N069923-002A	SAMP	1	Hexavalent Chromium	11/13/24 7:26 PM	Not Reported
75	N069923-002AMS	MS	1	Hexavalent Chromium	11/13/24 7:35 PM	Not Reported
76	N069923-003A	SAMP	1	Hexavalent Chromium	11/13/24 7:45 PM	Not Reported
77	N069923-003AMS	MS	1	Hexavalent Chromium	11/13/24 7:54 PM	Not Reported
78	N069889-001A	SAMP	5	Hexavalent Chromium	11/13/24 8:04 PM	Reported
79	N069889-001AMS	MS	5	Hexavalent Chromium	11/13/24 8:13 PM	Reported
80	N069889-002A	SAMP	5	Hexavalent Chromium	11/13/24 8:22 PM	Reported
81	N069889-002AMS	MS	5	Hexavalent Chromium	11/13/24 8:32 PM	Reported
82	CCV-7	CCV	1	Hexavalent Chromium	11/13/24 8:41 PM	Reported
83	CCB-7	CCB	1	Hexavalent Chromium	11/13/24 8:51 PM	Reported
84	N069889-003A	SAMP	5	Hexavalent Chromium	11/13/24 9:00 PM	Reported

 11/19/2024
For RBA

INJECTION LOG: 241113A**Instrument ID: NV00922-IC7**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N069889-003AMS	MS	5	Hexavalent Chromium	11/13/24 9:10 PM	Reported
86	N069923-001A	SAMP	5	Hexavalent Chromium	11/13/24 9:19 PM	Reported
87	N069923-001AMS	MS	5	Hexavalent Chromium	11/13/24 9:29 PM	Reported
88	N069923-002A	SAMP	5	Hexavalent Chromium	11/13/24 9:38 PM	Reported
89	N069923-002AMS	MS	5	Hexavalent Chromium	11/13/24 9:48 PM	Reported
90	N069923-003A	SAMP	5	Hexavalent Chromium	11/13/24 9:57 PM	Not Reported
91	N069923-003AMS	MS	5	Hexavalent Chromium	11/13/24 10:07 PM	Not Reported
92	N069891-015A	SAMP	1	Hexavalent Chromium	11/13/24 10:16 PM	Not Reported
93	N069891-015AMS	MS	1	Hexavalent Chromium	11/13/24 10:25 PM	Not Reported
94	CCV-8	CCV1	1	Hexavalent Chromium	11/13/24 10:35 PM	Reported
95	CCB-8	CCB	1	Hexavalent Chromium	11/13/24 10:44 PM	Reported
96	BLANK	BLANK	1	Hexavalent Chromium	11/13/24 10:54 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241113A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	13/Nov/24 23:24:37
No. of Injections:	99	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	BLANK	1	1000	Unknown		11/13/2024 08:49	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		11/13/2024 09:02	Finished	CCV @5ppb, IWST-240729A
11	PQL@0.2ppb,CCV2,	3	1000	Unknown		11/13/2024 09:11	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		11/13/2024 09:21	Finished	CCB R241001A
13	MB-H2O,MBLK,1,	5	1000	Unknown		11/13/2024 09:30	Finished	MB R241001A
14	LCS-H2O,LCS,1,	6	1000	Unknown		11/13/2024 09:40	Finished	LCS @5ppb, IWST-240729B
15	N069927-001B,SAMP	7	1000	Unknown		11/13/2024 09:49	Finished	SAMP,2>10 mL
16	N069927-002B,SAMP	8	1000	Unknown		11/13/2024 09:59	Finished	SAMP,1>10 mL
17	N069927-004B,SAMP	9	1000	Unknown		11/13/2024 10:08	Finished	SAMP,2>10 mL
18	N069927-005B,SAMP	10	1000	Unknown		11/13/2024 10:17	Finished	SAMP,2>10 mL
19	N069927-006B,SAMP	11	1000	Unknown		11/13/2024 10:27	Finished	SAMP,5>10 mL
20	N069927-003A,SAMP	12	1000	Unknown		11/13/2024 10:36	Finished	SAMP,10 mL
21	N069927-001BREP,D	13	1000	Unknown		11/13/2024 10:46	Finished	REP,2>10 mL
22	N069927-002BREP,D	14	1000	Unknown		11/13/2024 10:55	Finished	REP,1>10 mL
23	CCV-2,CCV1,1,	15	1000	Unknown		11/13/2024 11:05	Finished	CCV @10ppb, IWST-240729A
24	CCB-2,CCB,1,	16	1000	Unknown		11/13/2024 11:14	Finished	CCB R241001A
25	N069927-004BREP,D	17	1000	Unknown		11/13/2024 11:24	Finished	REP,2>10 mL
26	N069927-005BREP,D	18	1000	Unknown		11/13/2024 11:33	Finished	REP,2>10 mL
27	N069927-006BREP,D	19	1000	Unknown		11/13/2024 11:43	Finished	REP,5>10 mL
28	N069927-003AREP,D	20	1000	Unknown		11/13/2024 11:52	Finished	REP,10 mL
29	N069927-001BMS,M	21	1000	Unknown		11/13/2024 12:02	Finished	MS (5ppb), IWST-240729B,2>
30	N069927-002BMS,M	22	1000	Unknown		11/13/2024 12:11	Finished	MS (5ppb), IWST-240729B,1>
31	N069927-002BMSD,N	23	1000	Unknown		11/13/2024 12:20	Finished	MSD (5ppb), IWST-240729B,1>
32	N069927-004BMS,M	24	1000	Unknown		11/13/2024 12:30	Finished	MS (5ppb), IWST-240729B,2>
33	N069927-005BMS,M	25	1000	Unknown		11/13/2024 12:39	Finished	MS (5ppb), IWST-240729B,2>
34	N069927-006BMS,M	26	1000	Unknown		11/13/2024 12:49	Finished	MS (5ppb), IWST-240729B,5>
35	CCV-3,CCV,1,	27	1000	Unknown		11/13/2024 12:58	Finished	CCV @5ppb, IWST-240729A
36	CCB-3,CCB,1,	28	1000	Unknown		11/13/2024 13:08	Finished	CCB R241001A
37	N069927-003AMS,M	29	1000	Unknown		11/13/2024 13:17	Finished	MS (1ppb), IWST-240729B,10r
38	N069891-006A,SAMP	30	1000	Unknown		11/13/2024 13:27	Finished	SAMP,10 mL
39	N069891-006AMS,M	31	1000	Unknown		11/13/2024 13:36	Finished	MS (1ppb), IWST-240729B,10r
40	N069891-009A,SAMP	32	1000	Unknown		11/13/2024 13:46	Finished	SAMP,10 mL
41	N069891-009AMS,M	33	1000	Unknown		11/13/2024 13:55	Finished	MS (1ppb), IWST-240729B,10r
42	N069891-016A,SAMP	34	1000	Unknown		11/13/2024 14:05	Finished	SAMP,2>10 mL
43	N069891-016AMS,M	35	1000	Unknown		11/13/2024 14:14	Finished	MS (5ppb), IWST-240729B,2>
44	N069891-012A,SAMP	36	1000	Unknown		11/13/2024 14:23	Finished	SAMP,10 mL
45	N069891-012AMS,M	37	1000	Unknown		11/13/2024 14:33	Finished	MS (1ppb), IWST-240729B,10r
46	N069891-014A,SAMP	38	1000	Unknown		11/13/2024 14:42	Finished	SAMP,10 mL
47	CCV-4,CCV1,1,	39	1000	Unknown		11/13/2024 14:52	Finished	CCV @10ppb, IWST-240729A
48	CCB-4,CCB,1,	40	1000	Unknown		11/13/2024 15:01	Finished	CCB R241001A
49	N069891-014AMS,M	41	1000	Unknown		11/13/2024 15:11	Finished	MS (1ppb), IWST-240729B,10r
50	N069543-003A,SAMP	1	1000	Unknown		11/13/2024 15:36	Finished	SAMP,2>10 mL
51	N069543-003AMS,M	2	1000	Unknown		11/13/2024 15:48	Finished	MS (1ppb), IWST-240729B,2>
52	N069891-012A,SAMP	3	1000	Unknown		11/13/2024 15:58	Finished	SAMP,2>10 mL
53	N069891-012AMS,M	4	1000	Unknown		11/13/2024 16:07	Finished	MS (1ppb), IWST-240729B,2>
54	N069891-014A,SAMP	5	1000	Unknown		11/13/2024 16:16	Finished	SAMP,2>10 mL
55	N069891-014AMS,M	6	1000	Unknown		11/13/2024 16:26	Finished	MS (1ppb), IWST-240729B,2>
56	N069891-015A,SAMP	7	1000	Unknown		11/13/2024 16:35	Finished	SAMP,2>10 mL
57	N069891-015AMS,M	8	1000	Unknown		11/13/2024 16:45	Finished	MS (1ppb), IWST-240729B,2>
58	N069891-013A,SAMP	9	1000	Unknown		11/13/2024 16:54	Finished	SAMP,10 mL
59	CCV-5,CCV,1,	10	1000	Unknown		11/13/2024 17:04	Finished	CCV @5ppb, IWST-240729A
60	CCB-5,CCB,1,	11	1000	Unknown		11/13/2024 17:13	Finished	CCB R241001A

61	N069891-013AMS.MS	12	1000	Unknown	11/13/2024 17:23	Finished	MS (1ppb), IWST-240729B,10r
62	N069891-017A,SAMP	13	1000	Unknown	11/13/2024 17:32	Finished	SAMP,10 mL
63	N069891-017AMS.MS	14	1000	Unknown	11/13/2024 17:42	Finished	MS (1ppb), IWST-240729B,10r
64	N069889-001A,SAMP	15	1000	Unknown	11/13/2024 17:51	Finished	SAMP,10 mL
65	N069889-001AMS.MS	16	1000	Unknown	11/13/2024 18:01	Finished	MS (1ppb), IWST-240729B,10r
66	N069889-002A,SAMP	17	1000	Unknown	11/13/2024 18:10	Finished	SAMP,10 mL
67	N069889-002AMS.MS	18	1000	Unknown	11/13/2024 18:19	Finished	MS (1ppb), IWST-240729B,10r
68	N069889-003A,SAMP	19	1000	Unknown	11/13/2024 18:29	Finished	SAMP,10 mL
69	N069889-003AMS.MS	20	1000	Unknown	11/13/2024 18:38	Finished	MS (1ppb), IWST-240729B,10r
70	N069923-001A,SAMP	21	1000	Unknown	11/13/2024 18:48	Finished	SAMP,10 mL
71	CCV-6,CCV1,1,	22	1000	Unknown	11/13/2024 18:57	Finished	CCV @10ppb, IWST-240729A
72	CCB-6,CCB,1,	23	1000	Unknown	11/13/2024 19:07	Finished	CCB R241001A
73	N069923-001AMS.MS	24	1000	Unknown	11/13/2024 19:16	Finished	MS (1ppb), IWST-240729B,10r
74	N069923-002A,SAMP	25	1000	Unknown	11/13/2024 19:26	Finished	SAMP,10 mL
75	N069923-002AMS.MS	26	1000	Unknown	11/13/2024 19:35	Finished	MS (1ppb), IWST-240729B,10r
76	N069923-003A,SAMP	27	1000	Unknown	11/13/2024 19:45	Finished	SAMP,10 mL
77	N069923-003AMS.MS	28	1000	Unknown	11/13/2024 19:54	Finished	MS (1ppb), IWST-240729B,10r
78	N069889-001A,SAMP	29	1000	Unknown	11/13/2024 20:04	Finished	SAMP,2>10 mL
79	N069889-001AMS.MS	30	1000	Unknown	11/13/2024 20:13	Finished	MS (1ppb), IWST-240729B,2>
80	N069889-002A,SAMP	31	1000	Unknown	11/13/2024 20:22	Finished	SAMP,2>10 mL
81	N069889-002AMS.MS	32	1000	Unknown	11/13/2024 20:32	Finished	MS (1ppb), IWST-240729B,2>
82	CCV-7,CCV,1,	33	1000	Unknown	11/13/2024 20:41	Finished	CCV @5ppb, IWST-240729A
83	CCB-7,CCB,1,	34	1000	Unknown	11/13/2024 20:51	Finished	CCB R241001A
84	N069889-003A,SAMP	35	1000	Unknown	11/13/2024 21:00	Finished	SAMP,2>10 mL
85	N069889-003AMS.MS	36	1000	Unknown	11/13/2024 21:10	Finished	MS (1ppb), IWST-240729B,2>
86	N069923-001A,SAMP	37	1000	Unknown	11/13/2024 21:19	Finished	SAMP,2>10 mL
87	N069923-001AMS.MS	38	1000	Unknown	11/13/2024 21:29	Finished	MS (1ppb), IWST-240729B,2>
88	N069923-002A,SAMP	39	1000	Unknown	11/13/2024 21:38	Finished	SAMP,2>10 mL
89	N069923-002AMS.MS	40	1000	Unknown	11/13/2024 21:48	Finished	MS (1ppb), IWST-240729B,2>
90	N069923-003A,SAMP	41	1000	Unknown	11/13/2024 21:57	Finished	SAMP,2>10 mL
91	N069923-003AMS.MS	42	1000	Unknown	11/13/2024 22:07	Finished	MS (1ppb), IWST-240729B,2>
92	N069891-015A,SAMP	43	1000	Unknown	11/13/2024 22:16	Finished	SAMP,10 mL
93	N069891-015AMS.MS	44	1000	Unknown	11/13/2024 22:25	Finished	MS (1ppb), IWST-240729B,10r
94	CCV-8,CCV1,1,	45	1000	Unknown	11/13/2024 22:35	Finished	CCV @10ppb, IWST-240729A
95	CCB-8,CCB,1,	46	1000	Unknown	11/13/2024 22:44	Finished	CCB R241001A
96	BLANK	47	1000	Unknown	11/13/2024 22:54	Finished	BLANK
97	SHUTDOWN	48	1000	Unknown	11/13/2024 23:03	Finished	
98	Eluent: R241111A	49	1000	Unknown	n.a.	Finished	
99	PCR: R241111B	50	1000	Unknown	n.a.	Finished	



SAMPLE PREPARATION LOG



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL TECHNOLOGIES

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NEVADA
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P: 702.307.2659 F: 702.307.2691

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Hexavalent Chromium Preparation and Runlog

Sample Preparation

Date Prepared: 10/30/24 Reagent ID: _____
 Time Prepared: 10784 Sulfuric Acid: 16020 pH meter ID: 01
 Prepared By: MA Diphenylcarbazide: 16810
 NH4OH + NH4SO4 eluent: N241029A 60N NaOH
 NH4OH + NH4SO4 buffer: N24101A N241002A

	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	N069542-1A	9.32	-	-250ml	-250 ml		
2)	2A	9.70	-				
3)	3A	9.75	-				
4)	N069543-1A	8.90	9.47			+4	
5)	2A	8.80	9.41			+4	
6)	3A	8.65	9.58			+6	
7)	4A	9.41	-				
8)	5A	9.36	-				
9)	6A	9.32	-				
10)	7A	9.44	-				
11)	8A	9.42	-				
12)	9A	9.41	-				
13)	10A	9.33	-				
14)	11A	8.75	9.63			+7	
15)	12A	8.91	9.45			+4	
	13A	8.74	9.56			+5	

Sample Preparation

Date Prepared: 10/30/24 Reagent ID: _____
 Time Prepared: 10784 Sulfuric Acid: 16020 pH meter ID: 01
 Prepared By: MA Diphenylcarbazide: 16810
 NH4OH + NH4SO4 eluent: N241029A
 NH4OH + NH4SO4 buffer: N241001A

	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	N069543-14A	9.33	-	-250ml	-250ml		
2)	15A	9.46	-				
3)	16A	9.52	-				
4)	17A	9.54	-				
5)	18A	9.70	-				
6)	19A	9.55	-				
7)	20A	9.54	-				
8)	21A	9.72	-				
9)							
10)							
11)							
12)							
13)							
14)							
15)							

Logbook No. 26



INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
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(EPA 218.6) - INITIAL CALIBRATION

Instrument ID: NV00922-IC7
Date Calibrated: 10/28/2024

Initial Calibration:

Hexavalent Chromium	STD1	STD2	STD3	STD4	STD5	STD6	
COMPOUND, in ug/L	0.2	1	5	10	15	20	R ²
Area,mAU*min	0.0527	0.2779	1.4196	2.8235	4.2553	5.6829	1.0000
Measured, in ug/L	0.185700	0.979400	5.002800	9.950700	14.996600	20.027700	
Relative Error (%RE)	-7.2%		0.1%				

	Stock	Working
Standard Concentration:	1,000,000 PPB	1,000 PPB
Standard ID:	ISST-240705H	IWST-240729A

Calibration Acceptance Criteria: > 0.999 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
INTEGRATION • INNOVATION • IMPROVEMENT • INTEGRITY

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: ICV	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6277487							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.730	0.20	5.000	0	94.6	90	110				

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: ZZZZZZ	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6277488							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.211	0.20	0.2000	0	106	80	120				

Sample ID CCV-1	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: CCV	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277490							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.008	0.20	5.000	0	100	95	105				

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: ZZZZZZ	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277491							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.204	0.20	0.2000	0	102	80	120				

Sample ID CCV-2	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: ZZZZZZ	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277503							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.744	0.20	10.00	0	97.4	95	105				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCV-3	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: CCV	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277514							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.062	0.20	5.000	0	101	95	105				

Sample ID CCV-4	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: ZZZZZ	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277518							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	10.007	0.20	10.00	0	100	95	105				

Sample ID CCV-5	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: CCV	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277522							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.012	0.20	5.000	0	100	95	105				

Sample ID CCV-6	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: ZZZZZ	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277530							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.838	0.20	10.00	0	98.4	95	105				

Sample ID CCV-7	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027						
Client ID: CCV	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277542							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.929	0.20	5.000	0	98.6	95	105				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCV-8	SampType: CCV1	TestCode: 218.6_WPGE Units: µg/L			Prep Date:			RunNo: 195027			
Client ID: ZZZZZZ	Batch ID: R195027	TestNo: EPA 218.6			Analysis Date: 10/30/2024			SeqNo: 6277551			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.895	0.20	10.00	0	99.0	95	105				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: ICV	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6279536	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	4.730	0.20	5.000	0	94.6 90 110

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6279537	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	0.211	0.20	0.2000	0	106 80 120

Sample ID CCV-1	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: CCV	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279539	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	4.948	0.20	5.000	0	99.0 95 105

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279540	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	0.193	0.20	0.2000	0	96.5 80 120

Sample ID CCV-2	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279548	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	9.882	0.20	10.00	0	98.8 95 105

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCV-3	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: CCV	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279554	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	4.909	0.20	5.000	0	98.2 95 105

Sample ID CCV-4	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279565	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	9.967	0.20	10.00	0	99.7 95 105

Sample ID CCV-5	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: CCV	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279576	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	4.851	0.20	5.000	0	97.0 95 105

Sample ID CCV-6	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279585	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	9.809	0.20	10.00	0	98.1 95 105

Sample ID CCV-7	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: CCV	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279593	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	4.943	0.20	5.000	0	98.9 95 105

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCV-8	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279596							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.891	0.20	10.00	0	98.9	95	105				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out

E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values

H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
(M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: ICV	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6313134	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	4.730	0.20	5.000	0	94.6 90 110

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: ZZZZZ	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6313135	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	0.211	0.20	0.2000	0	106 80 120

Sample ID CCV-1	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: CCV	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313137	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	5.115	0.20	5.000	0	102 95 105

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: ZZZZZ	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313138	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	0.227	0.20	0.2000	0	114 80 120

Sample ID CCV-2	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: ZZZZZ	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313150	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	10.173	0.20	10.00	0	102 95 105

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCV-3	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: CCV	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313182	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	4.935	0.20	5.000	0	98.7 95 105

Sample ID CCV-4	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: ZZZZZ	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313174	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	10.060	0.20	10.00	0	101 95 105

Sample ID CCV-5	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: CCV	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313182	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	4.997	0.20	5.000	0	99.9 95 105

Sample ID CCV-6	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: ZZZZZ	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313187	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	10.275	0.20	10.00	0	103 95 105

Sample ID CCV-7	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: CCV	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313193	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	5.127	0.20	5.000	0	103 95 105

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCV-8	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632						
Client ID: ZZZZZZ	Batch ID: R195632	TestNo: EPA 218.6		Analysis Date: 11/13/2024	SeqNo: 6313203						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	10.352	0.20	10.00	0	104	95	105				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
INTEGRATION • INNOVATION • IMPROVEMENT

CALIFORNIA
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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027
Client ID: ICB	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6277489	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-1	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027
Client ID: CCB	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277492	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-2	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027
Client ID: CCB	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277504	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-3	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027
Client ID: CCB	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277515	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-4	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027
Client ID: CCB	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277519	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCB-5	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027
Client ID: CCB	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277523	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-6	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027
Client ID: CCB	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277531	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-7	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027
Client ID: CCB	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277543	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-8	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195027
Client ID: CCB	Batch ID: R195027	TestNo: EPA 218.6	Analysis Date: 10/30/2024	SeqNo: 6277552	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: ICB	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6279538	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-1	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: CCB	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279541	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-2	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: CCB	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279549	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-3	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: CCB	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279555	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-4	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: CCB	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279566	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCB-5	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: CCB	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279577						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

ND

0.20

Sample ID CCB-6	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: CCB	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279586						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

ND

0.20

Sample ID CCB-7	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: CCB	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279594						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

ND

0.20

Sample ID CCB-8	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: CCB	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279597						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

ND

0.20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: ICB	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6313136	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-1	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: CCB	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313139	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-2	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: CCB	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313151	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-3	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: CCB	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313163	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-4	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: CCB	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313175	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCB-5	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: CCB	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313183	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-6	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: CCB	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313188	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-7	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: CCB	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313194	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-8	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: CCB	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313204	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

RETENTION TIME SUMMARY



ASSET LABORATORIES
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"Serving Clients with Passion and Professionalism"

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/30/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.723	
CCV-2	5.731	
CCV-3	5.731	
CCV-4	5.731	
CCV-5	5.731	
CCV-6	5.731	
CCV-7	5.731	
CCV-8	5.731	

Average 5.730
Actual RT Window 5.650 - 5.810
Applied RT Window 5.530 - 5.930

MB-R195027	N.A.	N.A.
LCS-R195027	5.731	PASS
N069498-001A	5.731	PASS
N069498-001ADUP	5.731	PASS
N069498-001AMS	5.723	PASS
N069543-004A	5.723	PASS
N069543-010A	5.723	PASS
N069543-016A	5.706	PASS
N069543-004AMS	5.731	PASS
N069543-004AMSD	5.723	PASS
N069543-007A	5.715	PASS
N069543-010AMS	5.723	PASS
N069543-016AMS	5.706	PASS
N069543-011A	5.640	PASS
N069543-011AMS	5.631	PASS
N069543-012A	5.590	PASS
N069543-012AMS	5.598	PASS
N069543-013A	5.581	PASS
N069543-013AMS	5.581	PASS
N069543-007AMS	5.731	PASS

Reviewed by:

M. Rocha 11/11/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/30/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.723	
CCV-2	5.731	
CCV-3	5.731	
CCV-4	5.731	
CCV-5	5.731	
CCV-6	5.731	
CCV-7	5.731	
CCV-8	5.731	

Average 5.730
Actual RT Window 5.650 - 5.810
Applied RT Window 5.530 - 5.930

N069543-015A	5.548	PASS
N069543-015AMS	5.548	PASS
N069542-001A	N.A.	N.A.
N069542-001AMS	5.540	PASS
N069542-002A	N.A.	N.A.
N069542-002AMS	5.573	PASS
N069542-003A	N.A.	N.A.
N069542-003AMS	5.573	PASS
N069543-001A	N.A.	N.A.
N069543-002A	N.A.	N.A.
N069543-002AMS	N.A.	N.A.
N069543-003A	N.A.	N.A.
N069543-003AMS	N.A.	N.A.
N069543-006A	5.681	PASS
N069543-006AMS	5.681	PASS
N069543-008A	N.A.	N.A.
N069543-008AMS	N.A.	N.A.
N069543-009A	N.A.	N.A.
N069543-014A	N.A.	N.A.
N069543-017A	5.706	PASS

Reviewed by:

MRecha 11/11/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/30/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.723	
CCV-2	5.731	
CCV-3	5.731	
CCV-4	5.731	
CCV-5	5.731	
CCV-6	5.731	
CCV-7	5.731	
CCV-8	5.731	

Average 5.730
Actual RT Window 5.650 - 5.810
Applied RT Window 5.530 - 5.930

N069543-017AMS	5.706	PASS
N069542-001A	N.A.	N.A.
N069542-001AMS	5.706	PASS
N069542-002A	N.A.	N.A.
N069542-002AMS	5.706	PASS
N069542-003A	N.A.	N.A.
N069542-003AMS	5.706	PASS
N069543-001A	N.A.	N.A.
N069543-001AMS	5.690	PASS
N069543-002A	5.656	PASS
N069543-002AMS	5.665	PASS
N069543-003A	5.665	PASS
N069543-003AMS	5.665	PASS
N069543-005A	5.690	PASS
N069543-005AMS	5.698	PASS
N069543-008A	5.648	PASS
N069543-008AMS	5.656	PASS
N069543-009A	5.665	PASS
N069543-009AMS	5.656	PASS
N069543-014A	N.A.	N.A.

Reviewed by:

M. Rocha 11/11/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/30/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.723	
CCV-2	5.731	
CCV-3	5.731	
CCV-4	5.731	
CCV-5	5.731	
CCV-6	5.731	
CCV-7	5.731	
CCV-8	5.731	

Average 5.730
Actual RT Window 5.650 - 5.810
Applied RT Window 5.530 - 5.930

N069543-014AMS	5.690	PASS
N069543-011AMS	5.631	PASS

Reviewed by:

MRecha 11/11/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/31/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.723	
CCV-2	5.723	
CCV-3	5.723	
CCV-4	5.715	
CCV-5	5.715	
CCV-6	5.715	
CCV-7	5.715	
CCV-8	5.715	

Average 5.718
Actual RT Window 5.638 - 5.798
Applied RT Window 5.518 - 5.918

MB-R195071	N.A.	N.A.
LCS-R195071	5.731	PASS
N069543-018A	N.A.	N.A.
N069543-018AMS	5.715	PASS
N069543-021A	5.715	PASS
N069543-021AMS	5.723	PASS
N069583-003A	N.A.	N.A.
N069583-003A	N.A.	N.A.
N069583-003AMS	5.681	PASS
N069583-003AMSD	5.690	PASS
N069582-002A	5.740	PASS
N069582-003A	5.715	PASS
N069582-004A	5.715	PASS
N069583-002A	N.A.	N.A.
N069583-002AMS	5.556	PASS
N069583-006A	N.A.	N.A.
N069583-006AMS	5.715	PASS
N069585-001A	5.715	PASS
N069585-001AMS	5.715	PASS
N069585-001ADUP	5.715	PASS

Reviewed by:

MRecha 11/13/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/31/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.723	
CCV-2	5.723	
CCV-3	5.723	
CCV-4	5.715	
CCV-5	5.715	
CCV-6	5.715	
CCV-7	5.715	
CCV-8	5.715	

Average 5.718
Actual RT Window 5.638 - 5.798
Applied RT Window 5.518 - 5.918

N069582-002A	5.640	PASS
N069582-002AMS	5.631	PASS
N069582-003AMS	5.715	PASS
N069582-004AMS	5.715	PASS
N069543-019A	5.673	PASS
N069543-019AMS	5.673	PASS
N069543-020A	5.673	PASS
N069543-020AMS	5.665	PASS
N069582-001A	N.A.	N.A.
N069582-001AMS	5.715	PASS
N069583-001A	5.715	PASS
N069583-001AMS	5.706	PASS
N069583-002A	N.A.	N.A.
N069583-002AMS	5.690	PASS
N069583-004A	5.673	PASS
N069583-004AMS	5.673	PASS
N069583-005A	N.A.	N.A.
N069583-005AMS	5.706	PASS
N069583-007A	N.A.	N.A.
N069583-007AMS	5.715	PASS

Reviewed by:

M. Rocha 11/13/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/31/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.723	
CCV-2	5.723	
CCV-3	5.723	
CCV-4	5.715	
CCV-5	5.715	
CCV-6	5.715	
CCV-7	5.715	
CCV-8	5.715	

Average 5.718
Actual RT Window 5.638 - 5.798
Applied RT Window 5.518 - 5.918

N069583-008A	N.A.	N.A.
N069583-008AMS	5.573	PASS
N069583-008A	N.A.	N.A.
N069583-008AMS	5.681	PASS
N069583-009A	N.A.	N.A.
N069583-009AMS	N.A.	N.A.
N069583-009A	N.A.	N.A.
N069583-009AMS	5.656	PASS
N069583-010A	N.A.	N.A.
N069583-010AMS	N.A.	N.A.
N069583-010A	N.A.	N.A.
N069583-010AMS	5.623	PASS
N069583-011A	N.A.	N.A.
N069583-011AMS	5.715	PASS

Reviewed by:

M. Rocha 11/13/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 11/13/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.673	
CCV-2	5.698	
CCV-3	5.723	
CCV-4	5.773	
CCV-5	5.606	
CCV-6	5.606	
CCV-7	5.606	
CCV-8	5.615	

Average 5.663
Actual RT Window 5.583 - 5.743
Applied RT Window 5.463 - 5.863

MB-R195632	N.A.	N.A.
LCS-R195632	5.690	PASS
N069927-001B	5.681	PASS
N069927-002B	5.681	PASS
N069927-004B	5.681	PASS
N069927-005B	5.681	PASS
N069927-006B	5.681	PASS
N069927-003A	N.A.	N.A.
N069927-001BREP	5.690	PASS
N069927-002BREP	5.690	PASS
N069927-004BREP	5.690	PASS
N069927-005BREP	5.698	PASS
N069927-006BREP	5.698	PASS
N069927-003AREP	N.A.	N.A.
N069927-001BMS	5.715	PASS
N069927-002BMS	5.715	PASS
N069927-002BMSD	5.715	PASS
N069927-004BMS	5.715	PASS
N069927-005BMS	5.715	PASS
N069927-006BMS	5.715	PASS

Reviewed by:

MRecha 12/1/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 11/13/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.673	
CCV-2	5.698	
CCV-3	5.723	
CCV-4	5.773	
CCV-5	5.606	
CCV-6	5.606	
CCV-7	5.606	
CCV-8	5.615	

Average 5.663
Actual RT Window 5.583 - 5.743
Applied RT Window 5.463 - 5.863

N069927-003AMS	5.740	PASS
N069891-006A	N.A.	N.A.
N069891-006AMS	5.740	PASS
N069891-009A	5.573	PASS
N069891-009AMS	5.581	PASS
N069891-016A	5.723	PASS
N069891-016AMS	5.723	PASS
N069891-012A	5.615	PASS
N069891-012AMS	5.590	PASS
N069891-014A	5.606	PASS
N069891-014AMS	5.606	PASS
N069543-003A	5.740	PASS
N069543-003AMS	5.523	PASS
N069891-012A	5.581	PASS
N069891-012AMS	5.573	PASS
N069891-014A	5.565	PASS
N069891-014AMS	5.573	PASS
N069891-015A	5.556	PASS
N069891-015AMS	5.565	PASS
N069891-013A	5.590	PASS

Reviewed by:

M. Rocha 12/1/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 11/13/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.673	
CCV-2	5.698	
CCV-3	5.723	
CCV-4	5.773	
CCV-5	5.606	
CCV-6	5.606	
CCV-7	5.606	
CCV-8	5.615	

Average 5.663
Actual RT Window 5.583 - 5.743
Applied RT Window 5.463 - 5.863

N069891-013AMS	5.606	PASS
N069891-017A	N.A.	N.A.
N069891-017AMS	5.598	PASS
N069889-001A	N.A.	N.A.
N069889-002A	N.A.	N.A.
N069923-003A	N.A.	N.A.
N069889-001A	5.531	PASS
N069889-001AMS	5.581	PASS
N069889-002A	N.A.	N.A.
N069889-002AMS	5.590	PASS
N069889-003A	5.606	PASS
N069889-003AMS	5.581	PASS
N069923-001A	5.581	PASS
N069923-001AMS	5.590	PASS
N069923-002A	5.598	PASS
N069923-002AMS	5.581	PASS
N069923-003A	N.A.	N.A.

Reviewed by:

M. Rocha 12/1/2024

MDL STUDY



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL AND ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

METHOD DETECTION LIMIT (Spiked)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): 10/4/2022, 11/15/2022, 1/4/2023, 3/1/2023, 4/4/2023, 5/16/2023, 7/10/2023, 8/2/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: ug/L

Instrument Name: **IC-07**

Datafile 221004A D12 221115A D12 230104A D11 230301C D14 230404A D11 230516A D11 230710A D12 230802A D11

Analyte	#1	#2	#3	#4	#5	#6	#7	#8	Spike Conc., ug/L	SD	t _(n-1) value	MDLs	PQL
Hexavalent Chromium	0.199	0.194	0.169	0.190	0.167	0.194	0.201	0.185	0.20	0.0129	2.998	0.0387	0.20

METHOD DETECTION LIMIT (Blanks)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Instrument Name: **IC-07**

Analyte	MDLb	#of Records
Hexavalent Chromium	0.00	166

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

RAW DATA



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INITIAL CALIBRATION



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INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	ICV	ICV	1	Hexavalent Chromium	10/28/24 10:49 AM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/28/24 10:59 AM	Reported
11	ICB	ICB	1	Hexavalent Chromium	10/28/24 11:08 AM	Reported
12	MB-R194895	MBLK	1	Hexavalent Chromium	10/28/24 11:17 AM	Reported
13	LCS-R194895	LCS	1	Hexavalent Chromium	10/28/24 11:27 AM	Reported
14	N069445-001A	SAMP	1	Hexavalent Chromium	10/28/24 11:36 AM	Reported
15	N069445-001AMS	MS	1	Hexavalent Chromium	10/28/24 11:46 AM	Reported
16	N069445-001AMSD	MSD	1	Hexavalent Chromium	10/28/24 11:55 AM	Reported
17	N069445-001ADUP	DUP	1	Hexavalent Chromium	10/28/24 12:05 PM	Reported
18	N069453-001A	SAMP	1	Hexavalent Chromium	10/28/24 12:14 PM	Reported
19	N069453-002A	SAMP	1	Hexavalent Chromium	10/28/24 12:24 PM	Reported
20	N069453-003A	SAMP	1	Hexavalent Chromium	10/28/24 12:33 PM	Reported
21	N069453-004A	SAMP	1	Hexavalent Chromium	10/28/24 12:43 PM	Reported
22	CCV-1	CCV1	1	Hexavalent Chromium	10/28/24 12:52 PM	Reported
23	CCB-1	CCB	1	Hexavalent Chromium	10/28/24 1:02 PM	Reported
24	N069444-001A	SAMP	1	Hexavalent Chromium	10/28/24 1:11 PM	Reported
25	N069444-001AMS	MS	1	Hexavalent Chromium	10/28/24 1:20 PM	Reported
26	N069444-002A	SAMP	1	Hexavalent Chromium	10/28/24 1:30 PM	Reported
27	N069444-002AMS	MS	1	Hexavalent Chromium	10/28/24 1:39 PM	Reported
28	N069444-003A	SAMP	1	Hexavalent Chromium	10/28/24 1:49 PM	Not Reported
29	N069444-003AMS	MS	1	Hexavalent Chromium	10/28/24 1:58 PM	Not Reported
30	N069444-001A	SAMP	5	Hexavalent Chromium	10/28/24 2:08 PM	Not Reported
31	N069444-001AMS	MS	5	Hexavalent Chromium	10/28/24 2:17 PM	Not Reported
32	N069444-002A	SAMP	5	Hexavalent Chromium	10/28/24 2:27 PM	Not Reported
33	N069444-002AMS	MS	5	Hexavalent Chromium	10/28/24 2:36 PM	Not Reported
34	CCV-2	CCV	1	Hexavalent Chromium	10/28/24 2:46 PM	Reported
35	CCB-2	CCB	1	Hexavalent Chromium	10/28/24 2:55 PM	Reported
36	N069444-003A	SAMP	5	Hexavalent Chromium	10/28/24 3:04 PM	Reported
37	N069444-003AMS	MS	5	Hexavalent Chromium	10/28/24 3:14 PM	Reported
38	N069233-009A	SAMP	5	Hexavalent Chromium	10/28/24 3:23 PM	Not Reported
39	N069233-009AMS	MS	5	Hexavalent Chromium	10/28/24 3:33 PM	Not Reported
40	N069233-015A	SAMP	5	Hexavalent Chromium	10/28/24 3:42 PM	Not Reported
41	N069233-015AMS	MS	5	Hexavalent Chromium	10/28/24 3:52 PM	Not Reported
42	CCV-3	CCV1	1	Hexavalent Chromium	10/28/24 4:01 PM	Reported

INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	CCB-3	CCB	1	Hexavalent Chromium	10/28/24 4:11 PM	Reported
44	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 4:20 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241028A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	28/Oct/24 16:50:54
No. of Injections:	47	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	ICV,ICV,1,	9	1000	Unknown		10/28/2024 10:49	Finished	ICV @5ppb, IWST-240729B
10	PQL @0.2ppb,CCV2,	10	1000	Unknown		10/28/2024 10:59	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		10/28/2024 11:08	Finished	ICB R240926A
12	MB-H2O,MBLK,1,	12	1000	Unknown		10/28/2024 11:17	Finished	MB R240926A
13	LCS-H2O,LCS,1,	13	1000	Unknown		10/28/2024 11:27	Finished	LCS @5ppb, IWST-240729B
14	N069445-001A,SAMP	14	1000	Unknown		10/28/2024 11:36	Finished	SAMP,10 mL
15	N069445-001AMS,MS	15	1000	Unknown		10/28/2024 11:46	Finished	MS (1ppb), IWST-240729B,10r
16	N069445-001AMSD,N	16	1000	Unknown		10/28/2024 11:55	Finished	MSD (1ppb), IWST-240729B,10r
17	N069445-001ADUP,D	17	1000	Unknown		10/28/2024 12:05	Finished	DUP,10 mL
18	N069453-001A,SAMP	18	1000	Unknown		10/28/2024 12:14	Finished	SAMP,10 mL
19	N069453-002A,SAMP	19	1000	Unknown		10/28/2024 12:24	Finished	SAMP,10 mL
20	N069453-003A,SAMP	20	1000	Unknown		10/28/2024 12:33	Finished	SAMP,10 mL
21	N069453-004A,SAMP	21	1000	Unknown		10/28/2024 12:43	Finished	SAMP,10 mL
22	CCV-1,CCV1,1,	22	1000	Unknown		10/28/2024 12:52	Finished	CCV @10ppb, IWST-240729A
23	CCB-1,CCB,1,	23	1000	Unknown		10/28/2024 13:02	Finished	CCB R240926A
24	N069444-001A,SAMP	24	1000	Unknown		10/28/2024 13:11	Finished	SAMP,10 mL
25	N069444-001AMS,MS	25	1000	Unknown		10/28/2024 13:20	Finished	MS (1ppb), IWST-240729B,10r
26	N069444-002A,SAMP	26	1000	Unknown		10/28/2024 13:30	Finished	SAMP,10 mL
27	N069444-002AMS,MS	27	1000	Unknown		10/28/2024 13:39	Finished	MS (1ppb), IWST-240729B,10r
28	N069444-003A,SAMP	28	1000	Unknown		10/28/2024 13:49	Finished	SAMP,10 mL
29	N069444-003AMS,MS	29	1000	Unknown		10/28/2024 13:58	Finished	MS (1ppb), IWST-240729B,10r
30	N069444-001A,SAMP	30	1000	Unknown		10/28/2024 14:08	Finished	SAMP,2>10 mL
31	N069444-001AMS,MS	31	1000	Unknown		10/28/2024 14:17	Finished	MS (1ppb), IWST-240729B,2>10
32	N069444-002A,SAMP	32	1000	Unknown		10/28/2024 14:27	Finished	SAMP,2>10 mL
33	N069444-002AMS,MS	33	1000	Unknown		10/28/2024 14:36	Finished	MS (1ppb), IWST-240729B,2>10
34	CCV-2,CCV,1,	34	1000	Unknown		10/28/2024 14:46	Finished	CCV @5ppb, IWST-240729A
35	CCB-2,CCB,1,	35	1000	Unknown		10/28/2024 14:55	Finished	CCB R240926A
36	N069444-003A,SAMP	36	1000	Unknown		10/28/2024 15:04	Finished	SAMP,2>10 mL
37	N069444-003AMS,MS	37	1000	Unknown		10/28/2024 15:14	Finished	MS (1ppb), IWST-240729B,2>10
38	N069233-009A,SAMP	38	1000	Unknown		10/28/2024 15:23	Finished	SAMP,2>10 mL
39	N069233-009AMS,MS	39	1000	Unknown		10/28/2024 15:33	Finished	MS (1ppb), IWST-240729B,2>10
40	N069233-015A,SAMP	40	1000	Unknown		10/28/2024 15:42	Finished	SAMP,2>10 mL
41	N069233-015AMS,MS	41	1000	Unknown		10/28/2024 15:52	Finished	MS (1ppb), IWST-240729B,2>10
42	CCV-3,CCV1,1,	42	1000	Unknown		10/28/2024 16:01	Finished	CCV @10ppb, IWST-240729A
43	CCB-3,CCB,1,	43	1000	Unknown		10/28/2024 16:11	Finished	CCB R240926A
44	BLANK	44	1000	Unknown		10/28/2024 16:20	Finished	BLANK
45	SHUTDOWN	45	1000	Unknown		10/28/2024 16:30	Finished	
46	Eluent: R241025A	46	1000	Unknown		n.a.	Finished	
47	PCR: R241025B	47	1000	Unknown		n.a.	Finished	

Reviewed by:

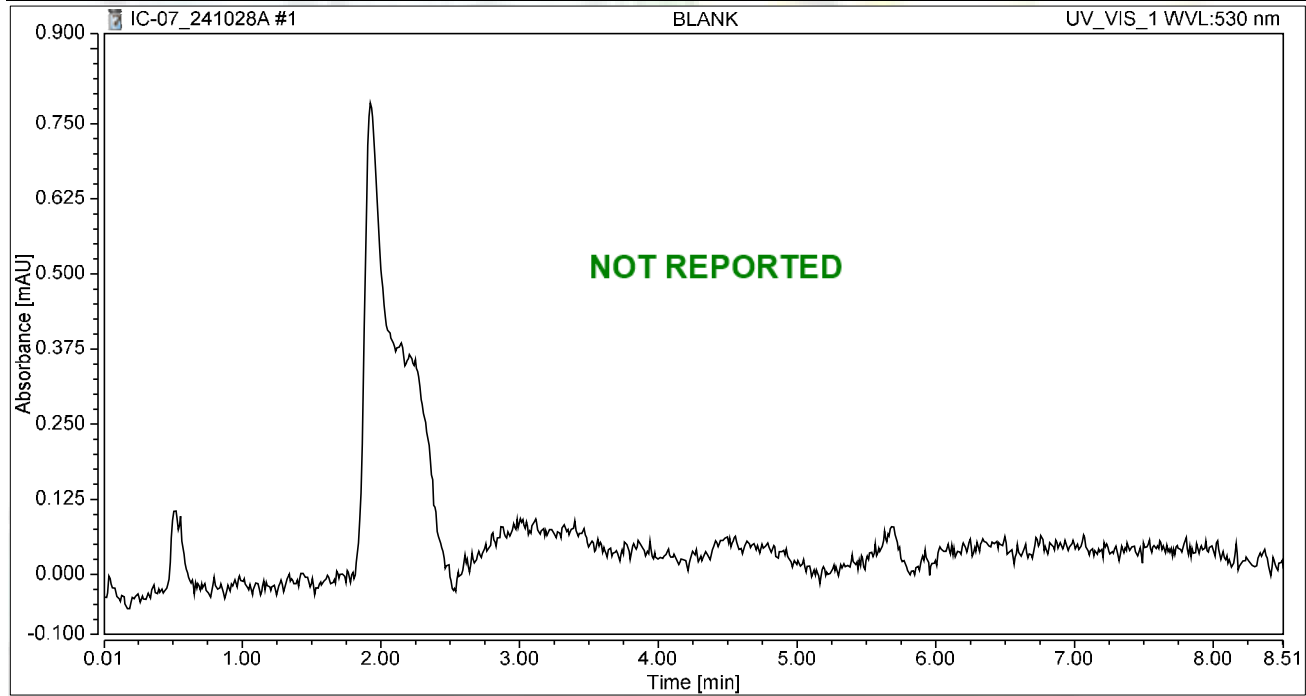
d/rocha 11/3/2024

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 09:30	Sample Weight:	1.0000

Chromatogram



Integration Results

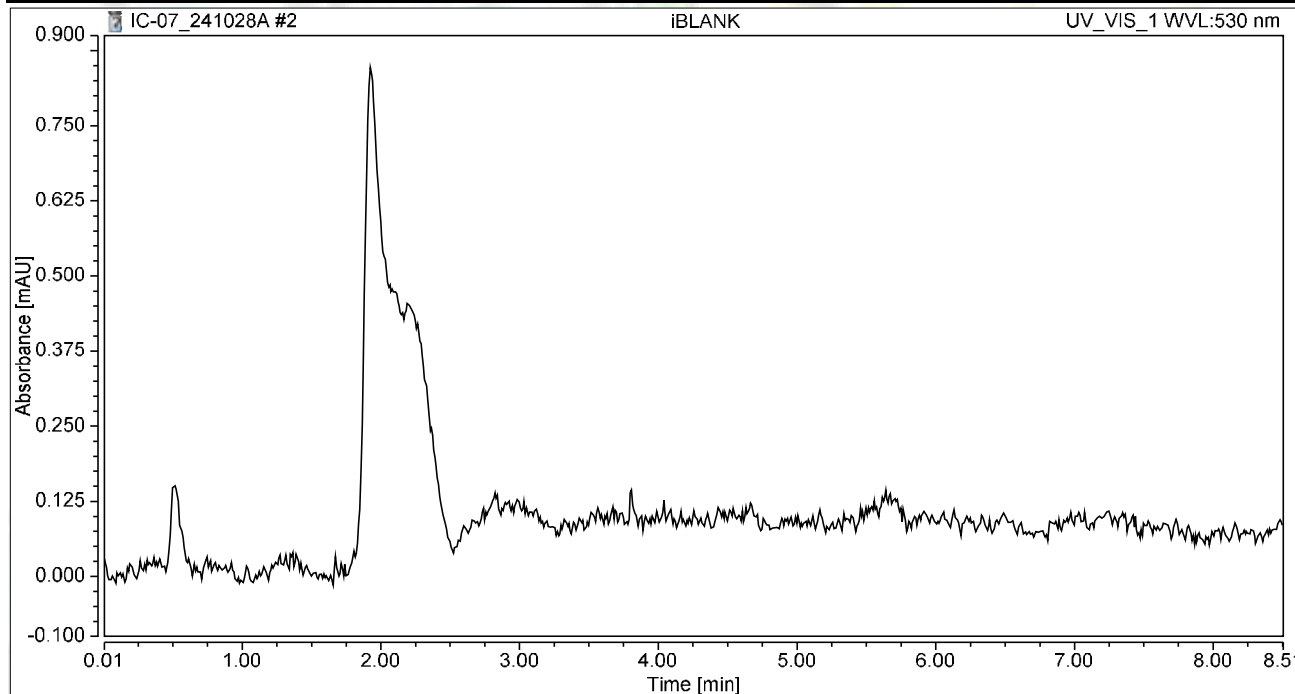
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	iBLANK	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 09:43	Sample Weight:	1.0000

Chromatogram



Integration Results

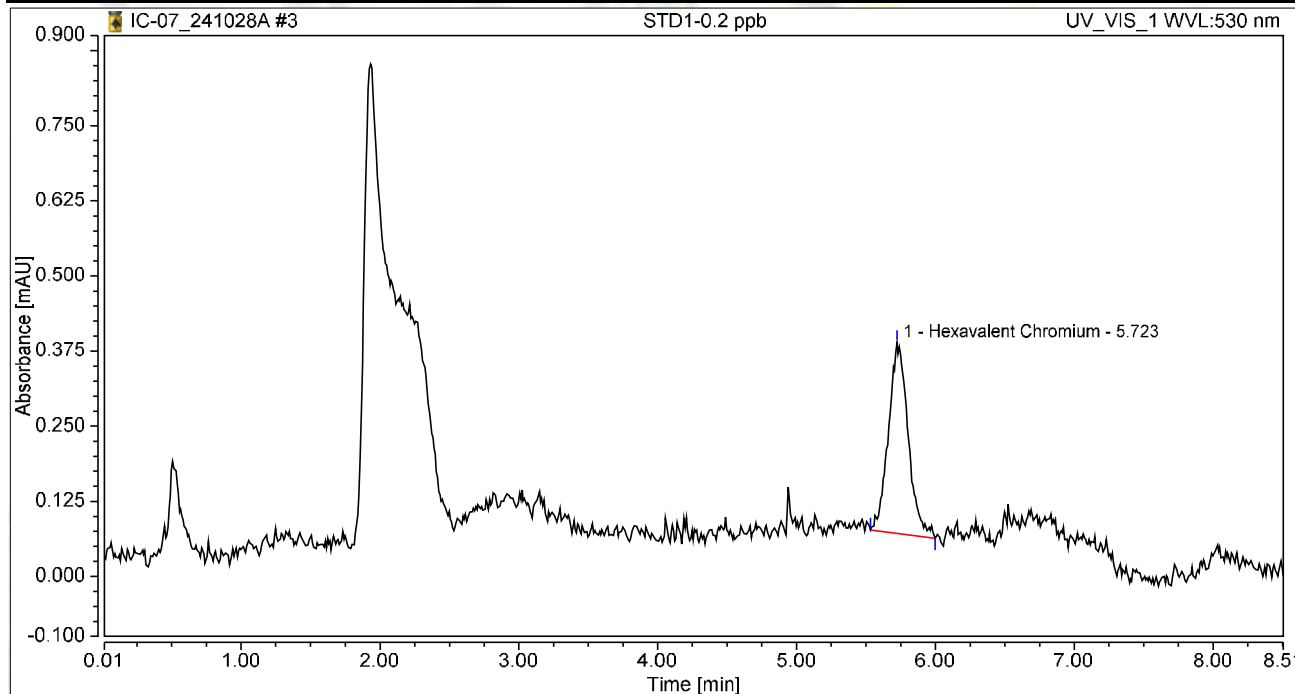
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	STD1-0.2 ppb	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	01	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 09:52	Sample Weight:	1.0000

Chromatogram



Integration Results

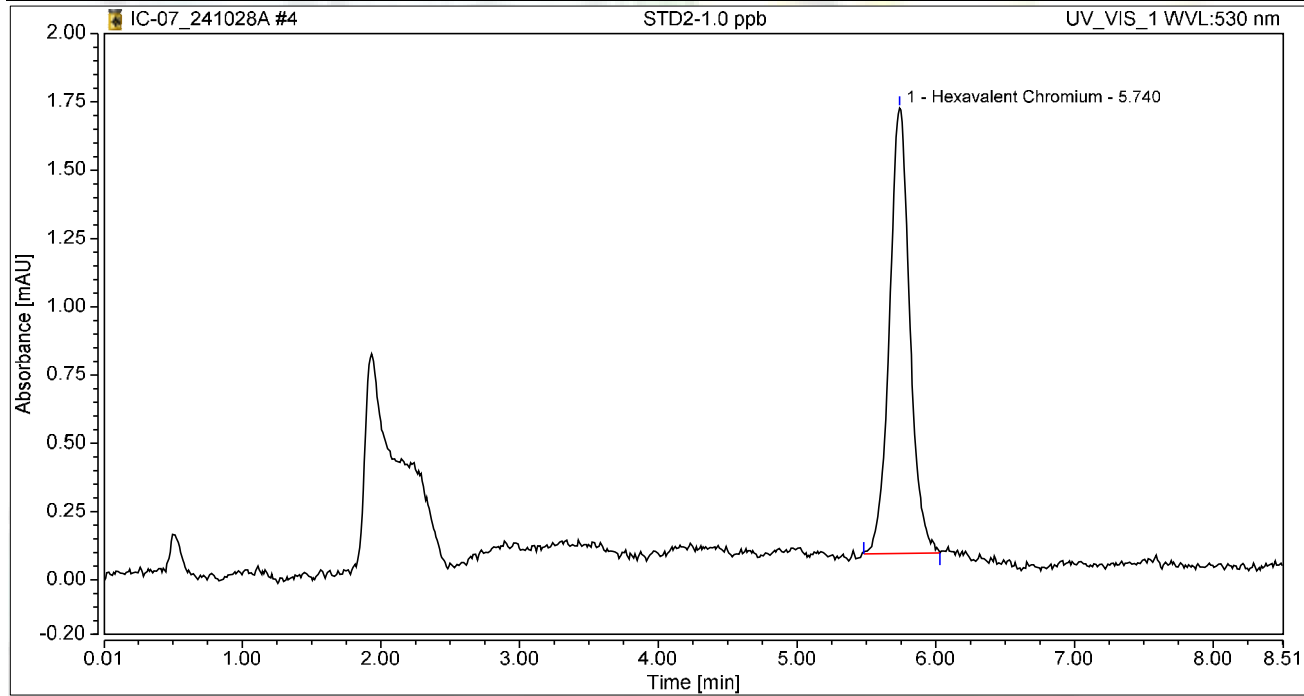
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.053	0.318	100.00	100.00	0.1857
Total:			0.053	0.318	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD2-1.0 ppb	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	02	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:02	Sample Weight:	1.0000

Chromatogram



Integration Results

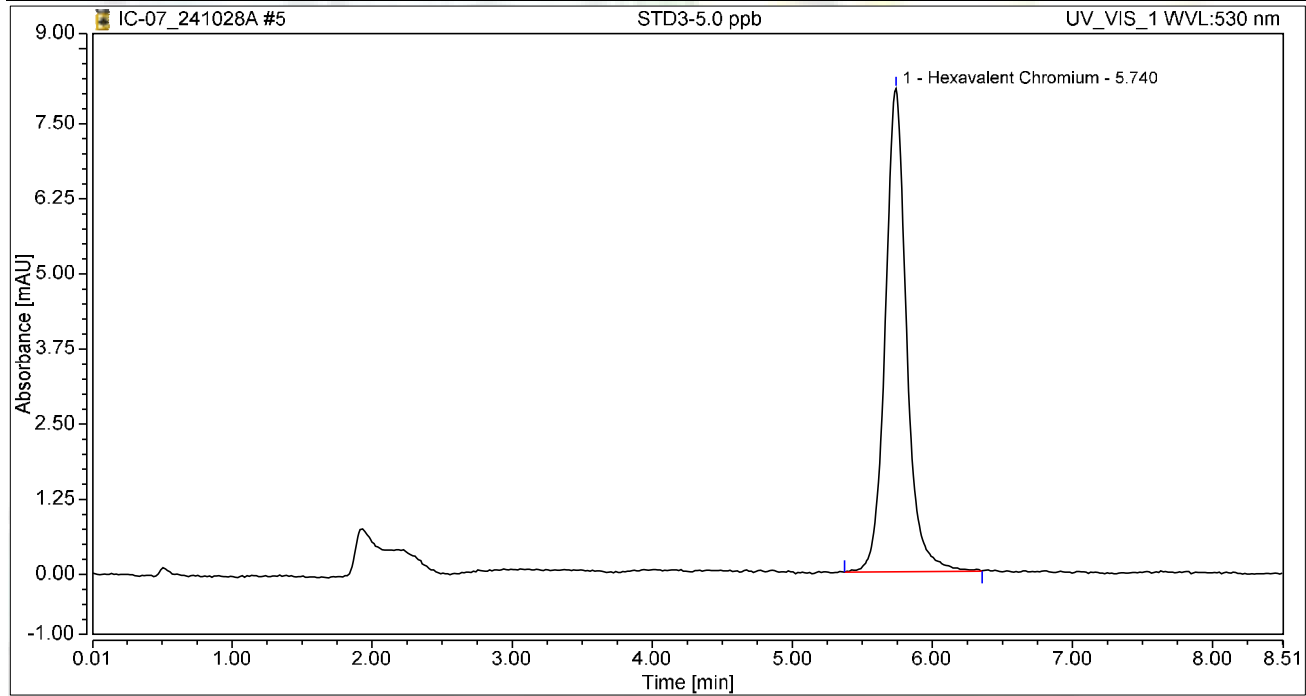
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	0.278	1.631	100.00	100.00	0.9794
Total:			0.278	1.631	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD3-5.0 ppb	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	03	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:11	Sample Weight:	1.0000

Chromatogram



Integration Results

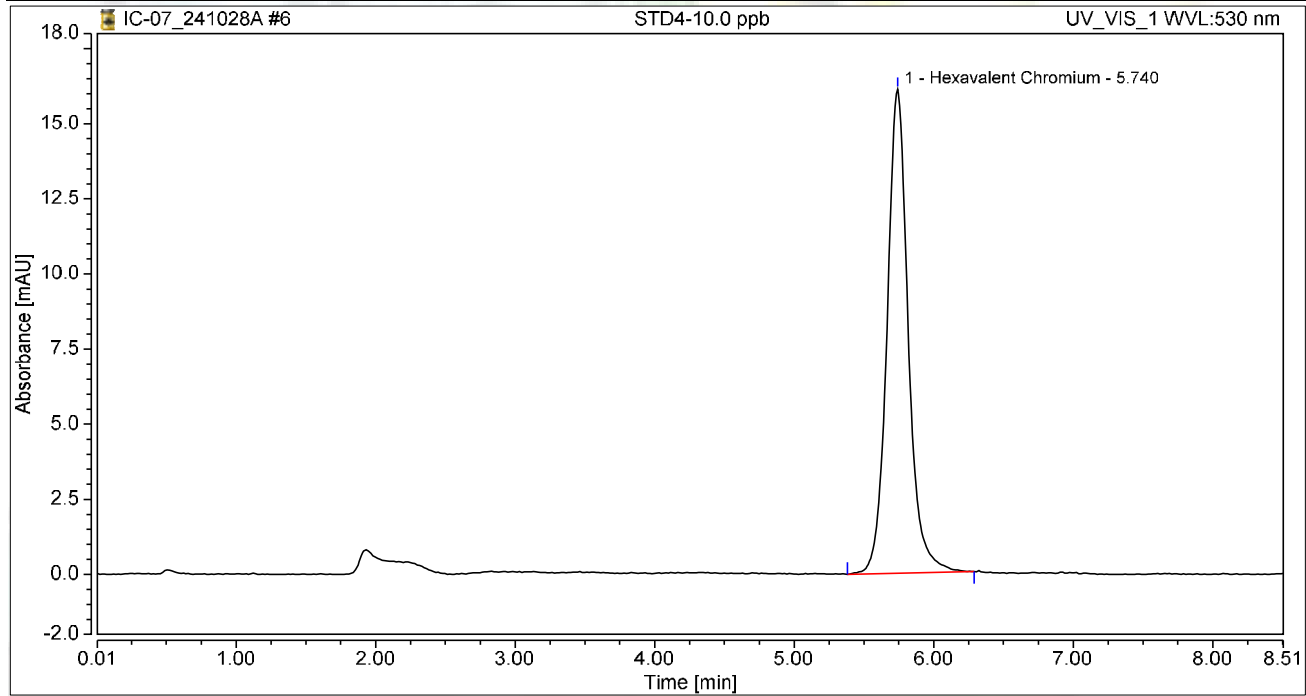
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	1.420	8.039	100.00	100.00	5.0028
Total:			1.420	8.039	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD4-10.0 ppb	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	04	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:21	Sample Weight:	1.0000

Chromatogram



Integration Results

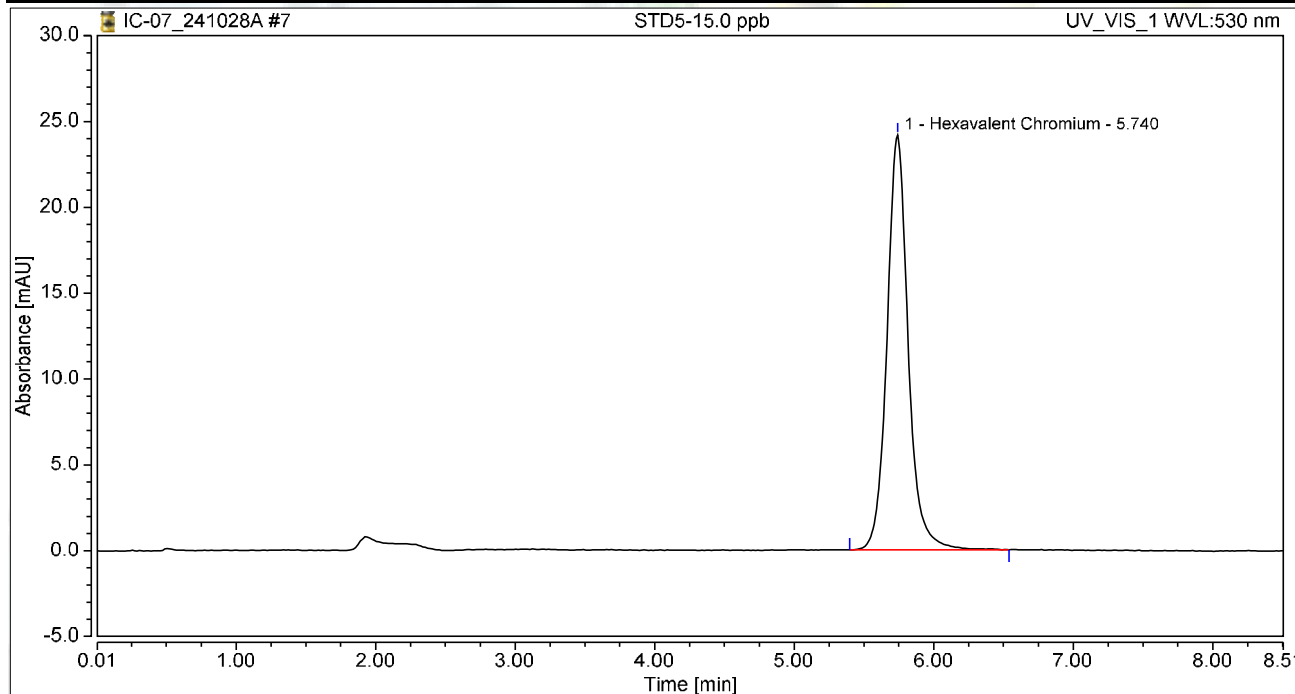
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	2.824	16.106	100.00	100.00	9.9507
Total:			2.824	16.106	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD5-15.0 ppb	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	05	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:30	Sample Weight:	1.0000

Chromatogram



Integration Results

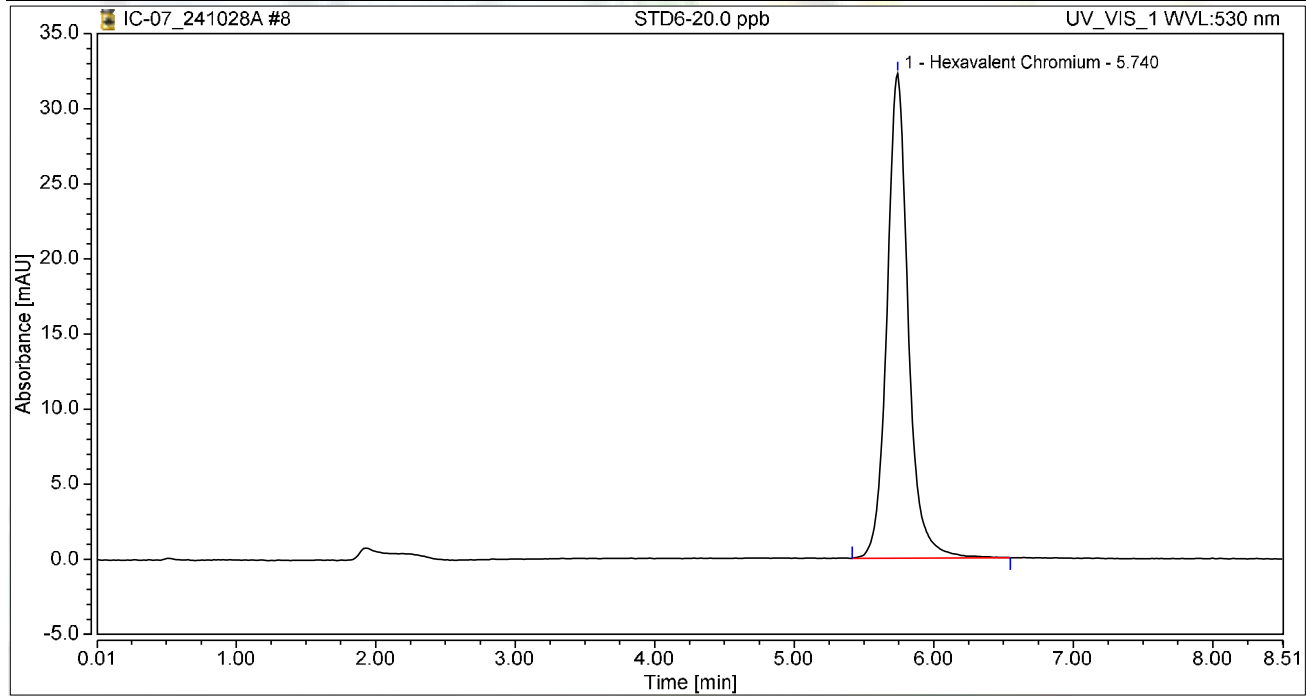
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	4.255	24.168	100.00	100.00	14.9966
Total:			4.255	24.168	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD6-20.0 ppb	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	06	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:40	Sample Weight:	1.0000

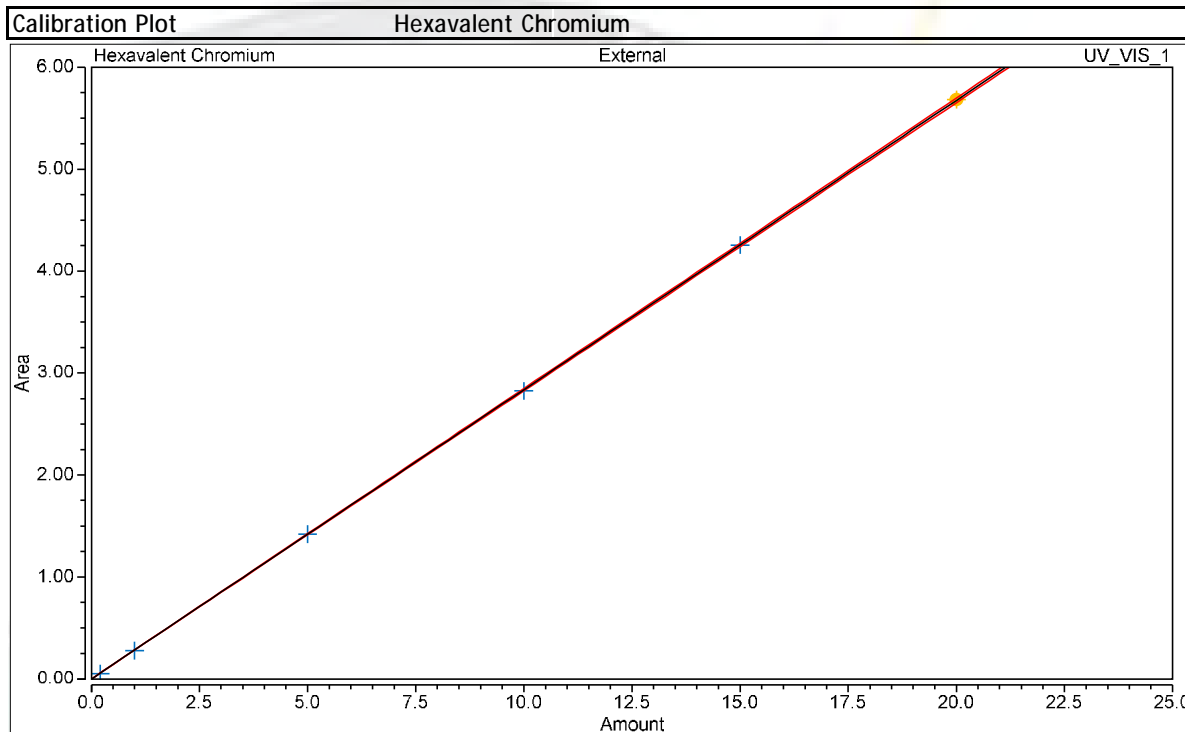
Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	5.683	32.257	100.00	100.00	20.0277
Total:			5.683	32.257	100.00	100.00	

Initial Calibration Summary			
Calibration Details		Hexavalent Chromium	
Calibration Type	Lin	Offset (C0)	0.0000
Evaluation Type	Area	Slope (C1)	0.2838
Number of Calibration Points	6	Curve (C2)	0.0000
Number of disabled Calibration Points	0	R-Square	0.99999



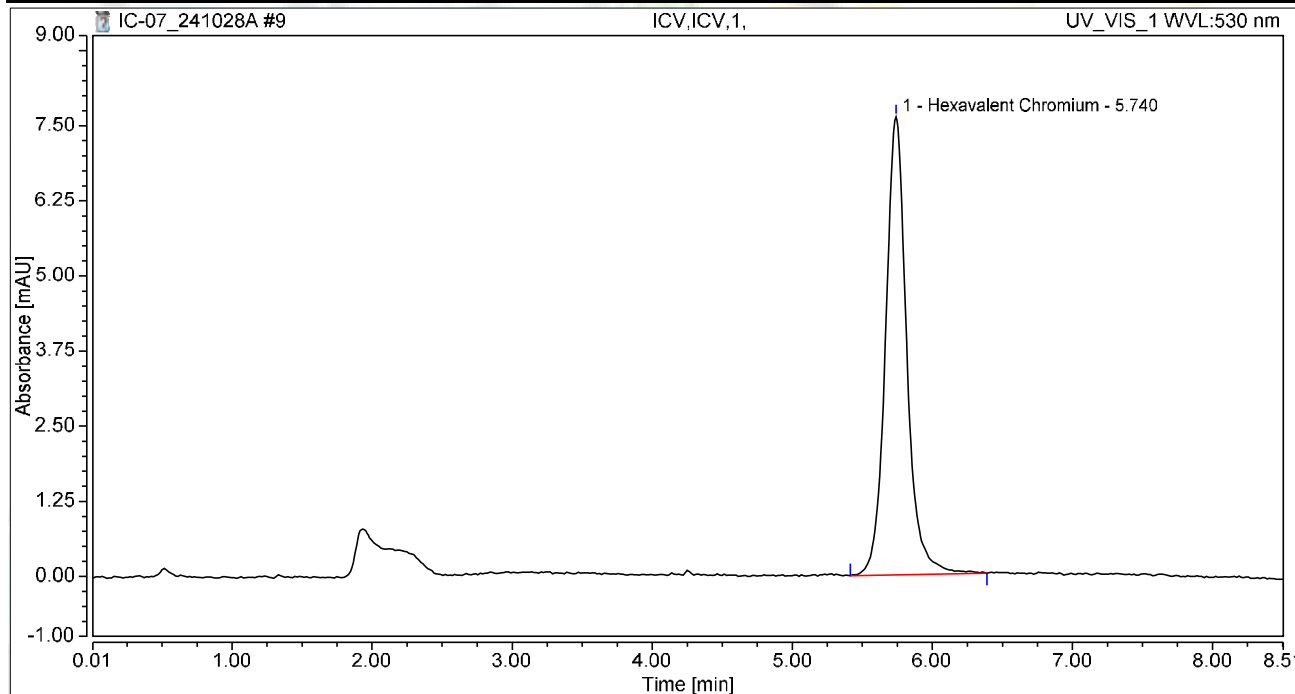
Calibration Results		Hexavalent Chromium				
No.	Injection Name	Calibration Level	X Value	Y Value	Area mAU*min	Height mAU
3	STD1-0.2 ppb	01	0.2000	0.0527	0.053	0.318
4	STD2-1.0 ppb	02	1.0000	0.2779	0.278	1.631
5	STD3-5.0 ppb	03	5.0000	1.4196	1.420	8.039
6	STD4-10.0 ppb	04	10.0000	2.8235	2.824	16.106
7	STD5-15.0 ppb	05	15.0000	4.2553	4.255	24.168
8	STD6-20.0 ppb	06	20.0000	5.6829	5.683	32.257

Chromatogram and Results

Injection Details

Injection Name:	ICV,ICV,1,	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:49	Sample Weight:	1.0000

Chromatogram



Integration Results

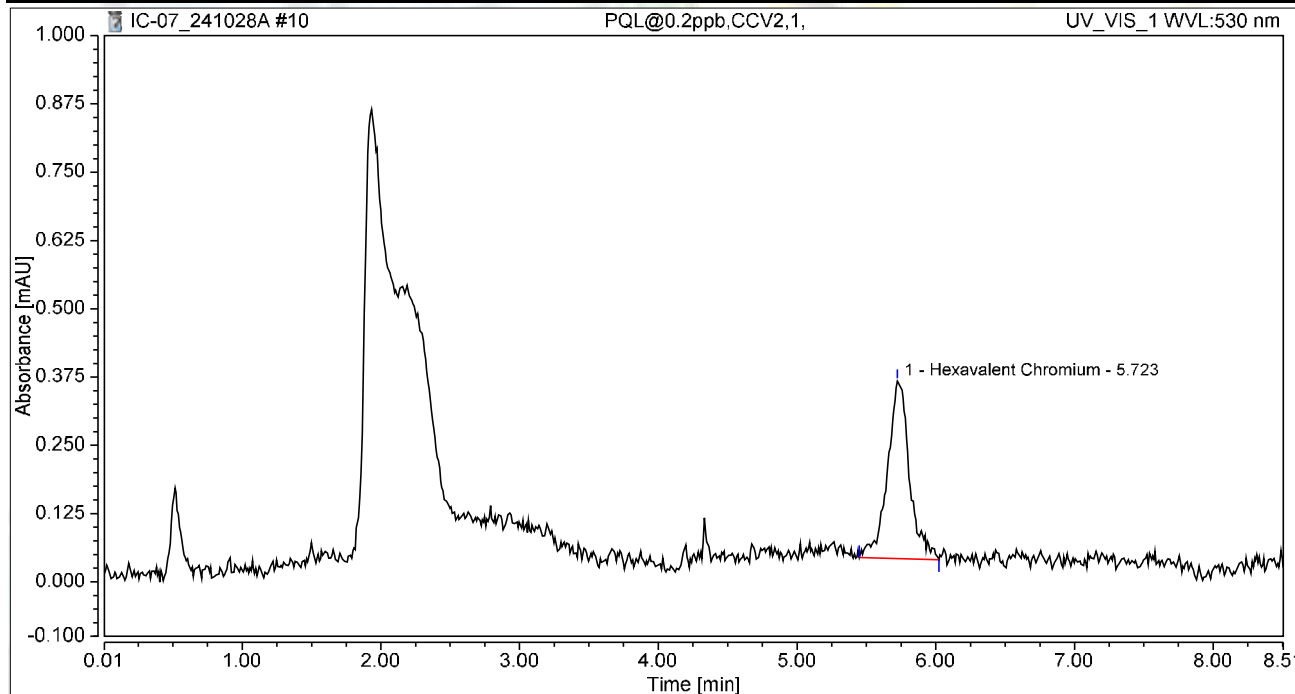
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	1.342	7.624	100.00	100.00	4.7300
Total:			1.342	7.624	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:59	Sample Weight:	1.0000

Chromatogram



Integration Results

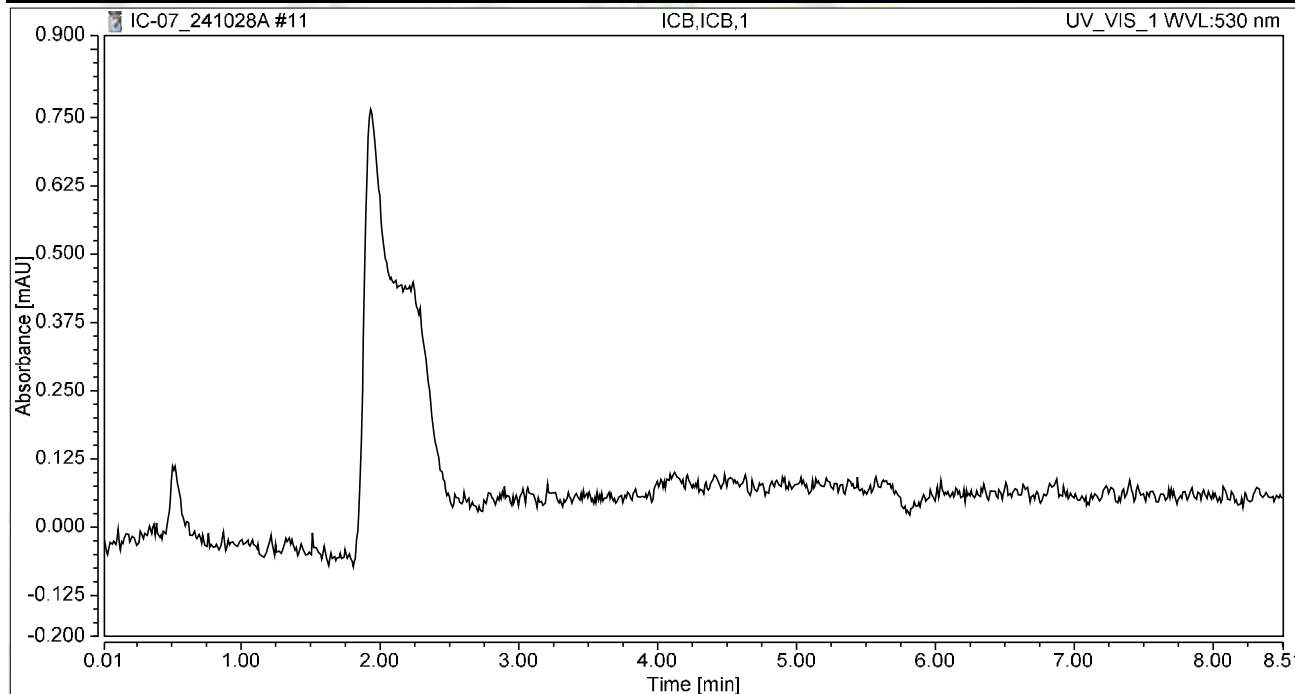
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.060	0.325	100.00	100.00	0.2110
Total:			0.060	0.325	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	ICB,ICB,1	Run Time (min):	8.49
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 11:08	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	



RAW DATA



ASSET LABORATORIES
INTEGRATION • ANALYSIS • REPORTING • SUPPORT

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"Serving Clients with Passion and Professionalism"

INJECTION LOG: 241030A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	10/30/24 9:17 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	10/30/24 9:28 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/30/24 9:37 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	10/30/24 9:46 AM	Reported
13	MB-R195027	MBLK	1	Hexavalent Chromium	10/30/24 9:56 AM	Reported
14	LCS-R195027	LCS	1	Hexavalent Chromium	10/30/24 10:05 AM	Reported
15	N069498-001A	SAMP	50	Hexavalent Chromium	10/30/24 10:15 AM	Reported
16	N069498-001ADUP	DUP	50	Hexavalent Chromium	10/30/24 10:24 AM	Reported
17	N069498-001AMS	MS	50	Hexavalent Chromium	10/30/24 10:34 AM	Reported
18	N069543-004A	SAMP	10	Hexavalent Chromium	10/30/24 11:08 AM	Reported
19	N069543-010A	SAMP	5	Hexavalent Chromium	10/30/24 11:19 AM	Reported
20	N069543-016A	SAMP	5	Hexavalent Chromium	10/30/24 11:29 AM	Reported
21	N069543-004AMS	MS	10	Hexavalent Chromium	10/30/24 11:38 AM	Reported
22	N069543-004AMSD	MSD	10	Hexavalent Chromium	10/30/24 11:48 AM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	10/30/24 11:57 AM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	10/30/24 12:06 PM	Reported
25	N069543-007A	SAMP	1	Hexavalent Chromium	10/30/24 12:16 PM	Reported
26	N069543-010AMS	MS	5	Hexavalent Chromium	10/30/24 12:25 PM	Reported
27	N069543-016AMS	MS	5	Hexavalent Chromium	10/30/24 12:35 PM	Reported
28	N069543-011A	SAMP	1	Hexavalent Chromium	10/30/24 12:44 PM	Reported
29	N069543-011AMS	MS	1	Hexavalent Chromium	10/30/24 12:54 PM	Not Reported
30	N069543-012A	SAMP	1	Hexavalent Chromium	10/30/24 1:03 PM	Reported
31	N069543-012AMS	MS	1	Hexavalent Chromium	10/30/24 1:13 PM	Reported
32	N069543-013A	SAMP	1	Hexavalent Chromium	10/30/24 1:22 PM	Reported
33	N069543-013AMS	MS	1	Hexavalent Chromium	10/30/24 1:32 PM	Reported
34	N069543-007AMS	MS	1	Hexavalent Chromium	10/30/24 1:41 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	10/30/24 1:50 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	10/30/24 2:00 PM	Reported
37	N069543-015A	SAMP	1	Hexavalent Chromium	10/30/24 2:09 PM	Reported
38	N069543-015AMS	MS	1	Hexavalent Chromium	10/30/24 2:19 PM	Reported
39	N069542-001A	SAMP	1	Hexavalent Chromium	10/30/24 2:28 PM	Not Reported
40	N069542-001AMS	MS	1	Hexavalent Chromium	10/30/24 2:38 PM	Not Reported
41	N069542-002A	SAMP	1	Hexavalent Chromium	10/30/24 2:47 PM	Not Reported
42	N069542-002AMS	MS	1	Hexavalent Chromium	10/30/24 2:57 PM	Not Reported

INJECTION LOG: 241030A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069542-003A	SAMP	1	Hexavalent Chromium	10/30/24 3:06 PM	Not Reported
44	N069542-003AMS	MS	1	Hexavalent Chromium	10/30/24 3:16 PM	Not Reported
45	N069543-001A	SAMP	1	Hexavalent Chromium	10/30/24 3:26 PM	Not Reported
46	N069543-001AMS	MS	1	Hexavalent Chromium	10/30/24 3:37 PM	Not Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	10/30/24 3:46 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	10/30/24 3:56 PM	Reported
49	N069543-002A	SAMP	1	Hexavalent Chromium	10/30/24 4:05 PM	Not Reported
50	N069543-002AMS	MS	1	Hexavalent Chromium	10/30/24 4:14 PM	Not Reported
51	N069543-003A	SAMP	1	Hexavalent Chromium	10/30/24 4:24 PM	Not Reported
52	N069543-003AMS	MS	1	Hexavalent Chromium	10/30/24 4:33 PM	Not Reported
53	N069543-005A	SAMP	1	Hexavalent Chromium	10/30/24 4:43 PM	Not Reported
54	N069543-005AMS	MS	1	Hexavalent Chromium	10/30/24 4:52 PM	Not Reported
55	N069543-006A	SAMP	5	Hexavalent Chromium	10/30/24 5:02 PM	Reported
56	N069543-006AMS	MS	5	Hexavalent Chromium	10/30/24 5:11 PM	Reported
57	N069543-008A	SAMP	1	Hexavalent Chromium	10/30/24 5:21 PM	Not Reported
58	N069543-008AMS	MS	1	Hexavalent Chromium	10/30/24 5:30 PM	Not Reported
59	CCV-5	CCV	1	Hexavalent Chromium	10/30/24 5:40 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	10/30/24 5:49 PM	Reported
61	N069543-009A	SAMP	1	Hexavalent Chromium	10/30/24 5:59 PM	Not Reported
62	N069543-009AMS	MS	1	Hexavalent Chromium	10/30/24 6:08 PM	Not Reported
63	N069543-014A	SAMP	1	Hexavalent Chromium	10/30/24 6:17 PM	Not Reported
64	N069543-014AMS	MS	1	Hexavalent Chromium	10/30/24 6:27 PM	Not Reported
65	N069543-017A	SAMP	5	Hexavalent Chromium	10/30/24 6:36 PM	Reported
66	N069543-017AMS	MS	5	Hexavalent Chromium	10/30/24 6:46 PM	Reported
67	N069542-001A	SAMP	5	Hexavalent Chromium	10/30/24 6:55 PM	Reported
68	N069542-001AMS	MS	5	Hexavalent Chromium	10/30/24 7:05 PM	Reported
69	N069542-002A	SAMP	5	Hexavalent Chromium	10/30/24 7:14 PM	Reported
70	N069542-002AMS	MS	5	Hexavalent Chromium	10/30/24 7:24 PM	Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	10/30/24 7:33 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	10/30/24 7:43 PM	Reported
73	N069542-003A	SAMP	5	Hexavalent Chromium	10/30/24 7:52 PM	Reported
74	N069542-003AMS	MS	5	Hexavalent Chromium	10/30/24 8:01 PM	Reported
75	N069543-001A	SAMP	5	Hexavalent Chromium	10/30/24 8:11 PM	Reported
76	N069543-001AMS	MS	5	Hexavalent Chromium	10/30/24 8:20 PM	Reported
77	N069543-002A	SAMP	5	Hexavalent Chromium	10/30/24 8:30 PM	Reported
78	N069543-002AMS	MS	5	Hexavalent Chromium	10/30/24 8:39 PM	Reported
79	N069543-003A	SAMP	5	Hexavalent Chromium	10/30/24 8:49 PM	Not Reported
80	N069543-003AMS	MS	5	Hexavalent Chromium	10/30/24 8:58 PM	Not Reported
81	N069543-005A	SAMP	5	Hexavalent Chromium	10/30/24 9:08 PM	Reported
82	N069543-005AMS	MS	5	Hexavalent Chromium	10/30/24 9:17 PM	Reported
83	CCV-7	CCV	1	Hexavalent Chromium	10/30/24 9:27 PM	Reported
84	CCB-7	CCB	1	Hexavalent Chromium	10/30/24 9:36 PM	Reported

For RBA

jm 11/18/2024 1271

INJECTION LOG: 241030A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N069543-008A	SAMP	5	Hexavalent Chromium	10/30/24 9:45 PM	Reported
86	N069543-008AMS	MS	5	Hexavalent Chromium	10/30/24 9:55 PM	Reported
87	N069543-009A	SAMP	5	Hexavalent Chromium	10/30/24 10:04 PM	Reported
88	N069543-009AMS	MS	5	Hexavalent Chromium	10/30/24 10:14 PM	Reported
89	N069543-014A	SAMP	5	Hexavalent Chromium	10/30/24 10:23 PM	Reported
90	N069543-014AMS	MS	5	Hexavalent Chromium	10/30/24 10:33 PM	Reported
91	N069543-011AMS	MS	1	Hexavalent Chromium	10/30/24 10:42 PM	Reported
92	CCV-8	CCV1	1	Hexavalent Chromium	10/30/24 10:52 PM	Reported
93	CCB-8	CCB	1	Hexavalent Chromium	10/30/24 11:01 PM	Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241030A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	30/Oct/24 23:31:55
No. of Injections:	96	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	BLANK	1	1000	Unknown		10/30/2024 09:17	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		10/30/2024 09:28	Finished	CCV @5ppb, IWST-240729A
11	PQL @0.2ppb,CCV2,	3	1000	Unknown		10/30/2024 09:37	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		10/30/2024 09:46	Finished	CCB R241001A
13	MB-H2O,MBLK,1,	5	1000	Unknown		10/30/2024 09:56	Finished	MB R241001A
14	LCS-H2O,LCS,1,	6	1000	Unknown		10/30/2024 10:05	Finished	LCS @5ppb, IWST-240729B
15	N069498-001A,SAMP	7	1000	Unknown		10/30/2024 10:15	Finished	SAMP,0.2>10 mL
16	N069498-001ADUP,D	8	1000	Unknown		10/30/2024 10:24	Finished	DUP,0.2>10 mL
17	N069498-001AMS,MS	9	1000	Unknown		10/30/2024 10:34	Finished	MS (5ppb), IWST-240729B,0.2
18	N069543-004A,SAMP	1	1000	Unknown		10/30/2024 11:08	Finished	SAMP,1>10 mL
19	N069543-010A,SAMP	2	1000	Unknown		10/30/2024 11:19	Finished	SAMP,2>10 mL
20	N069543-016A,SAMP	3	1000	Unknown		10/30/2024 11:29	Finished	SAMP,2>10 mL
21	N069543-004AMS,MS	4	1000	Unknown		10/30/2024 11:38	Finished	MS (5ppb), IWST-240729B,1>
22	N069543-004AMSD,N	5	1000	Unknown		10/30/2024 11:48	Finished	MSD (5ppb), IWST-240729B,1
23	CCV-2,CCV1,1,	6	1000	Unknown		10/30/2024 11:57	Finished	CCV @10ppb, IWST-240729A
24	CCB-2,CCB,1,	7	1000	Unknown		10/30/2024 12:06	Finished	CCB R241001A
25	N069543-007A,SAMP	8	1000	Unknown		10/30/2024 12:16	Finished	SAMP,10 mL
26	N069543-010AMS,MS	9	1000	Unknown		10/30/2024 12:25	Finished	MS (5ppb), IWST-240729B,2>
27	N069543-016AMS,MS	10	1000	Unknown		10/30/2024 12:35	Finished	MS (5ppb), IWST-240729B,2>
28	N069543-011A,SAMP	11	1000	Unknown		10/30/2024 12:44	Finished	SAMP,10 mL
29	N069543-011AMS,MS	12	1000	Unknown		10/30/2024 12:54	Finished	MS (5ppb), IWST-240729B,10r
30	N069543-012A,SAMP	13	1000	Unknown		10/30/2024 13:03	Finished	SAMP,10 mL
31	N069543-012AMS,MS	14	1000	Unknown		10/30/2024 13:13	Finished	MS (5ppb), IWST-240729B,10r
32	N069543-013A,SAMP	15	1000	Unknown		10/30/2024 13:22	Finished	SAMP,10 mL
33	N069543-013AMS,MS	16	1000	Unknown		10/30/2024 13:32	Finished	MS (5ppb), IWST-240729B,10r
34	N069543-007AMS,MS	17	1000	Unknown		10/30/2024 13:41	Finished	MS (1ppb), IWST-240729B,2> 10mL
35	CCV-3,CCV,1,	18	1000	Unknown		10/30/2024 13:50	Finished	CCV @5ppb, IWST-240729A
36	CCB-3,CCB,1,	19	1000	Unknown		10/30/2024 14:00	Finished	CCB R241001A
37	N069543-015A,SAMP	20	1000	Unknown		10/30/2024 14:09	Finished	SAMP,10 mL
38	N069543-015AMS,MS	21	1000	Unknown		10/30/2024 14:19	Finished	MS (5ppb), IWST-240729B,10r
39	N069542-001A,SAMP	22	1000	Unknown		10/30/2024 14:28	Finished	SAMP,10 mL
40	N069542-001AMS,MS	23	1000	Unknown		10/30/2024 14:38	Finished	MS (1ppb), IWST-240729B,10r
41	N069542-002A,SAMP	24	1000	Unknown		10/30/2024 14:47	Finished	SAMP,10 mL
42	N069542-002AMS,MS	25	1000	Unknown		10/30/2024 14:57	Finished	MS (1ppb), IWST-240729B,10r
43	N069542-003A,SAMP	26	1000	Unknown		10/30/2024 15:06	Finished	SAMP,10 mL
44	N069542-003AMS,MS	27	1000	Unknown		10/30/2024 15:16	Finished	MS (1ppb), IWST-240729B,10r
45	N069543-001A,SAMP	1	1000	Unknown		10/30/2024 15:26	Finished	SAMP,10 mL
46	N069543-001AMS,MS	2	1000	Unknown		10/30/2024 15:37	Finished	MS (1ppb), IWST-240729B,10r
47	CCV-4,CCV1,1,	3	1000	Unknown		10/30/2024 15:46	Finished	CCV @10ppb, IWST-240729A
48	CCB-4,CCB,1,	4	1000	Unknown		10/30/2024 15:56	Finished	CCB R241001A
49	N069543-002A,SAMP	5	1000	Unknown		10/30/2024 16:05	Finished	SAMP,10 mL
50	N069543-002AMS,MS	6	1000	Unknown		10/30/2024 16:14	Finished	MS (1ppb), IWST-240729B,10r
51	N069543-003A,SAMP	7	1000	Unknown		10/30/2024 16:24	Finished	SAMP,10 mL
52	N069543-003AMS,MS	8	1000	Unknown		10/30/2024 16:33	Finished	MS (1ppb), IWST-240729B,10r
53	N069543-005A,SAMP	9	1000	Unknown		10/30/2024 16:43	Finished	SAMP,10 mL
54	N069543-005AMS,MS	10	1000	Unknown		10/30/2024 16:52	Finished	MS (5ppb), IWST-240729B,10r
55	N069543-006A,SAMP	11	1000	Unknown		10/30/2024 17:02	Finished	SAMP,2>10 mL
56	N069543-006AMS,MS	12	1000	Unknown		10/30/2024 17:11	Finished	MS (5ppb), IWST-240729B,2>
57	N069543-008A,SAMP	13	1000	Unknown		10/30/2024 17:21	Finished	SAMP,10 mL
58	N069543-008AMS,MS	14	1000	Unknown		10/30/2024 17:30	Finished	MS (1ppb), IWST-240729B,10r
59	CCV-5,CCV,1,	15	1000	Unknown		10/30/2024 17:40	Finished	CCV @5ppb, IWST-240729A
60	CCB-5,CCB,1,	16	1000	Unknown		10/30/2024 17:49	Finished	CCB R241001A

61	N069543-009A,SAMP	17	1000	Unknown	10/30/2024 17:59	Finished	SAMP,10 mL
62	N069543-009AMS,M\$	18	1000	Unknown	10/30/2024 18:08	Finished	MS (1ppb), IWST-240729B,10r
63	N069543-014A,SAMP	19	1000	Unknown	10/30/2024 18:17	Finished	SAMP,10 mL
64	N069543-014AMS,M\$	20	1000	Unknown	10/30/2024 18:27	Finished	MS (5ppb), IWST-240729B,10r
65	N069543-017A,SAMP	21	1000	Unknown	10/30/2024 18:36	Finished	SAMP,2>10 mL
66	N069543-017AMS,M\$	22	1000	Unknown	10/30/2024 18:46	Finished	MS (5ppb), IWST-240729B,2>
67	N069542-001A,SAMP	23	1000	Unknown	10/30/2024 18:55	Finished	SAMP,2>10 mL
68	N069542-001AMS,M\$	24	1000	Unknown	10/30/2024 19:05	Finished	MS (1ppb), IWST-240729B,2>
69	N069542-002A,SAMP	25	1000	Unknown	10/30/2024 19:14	Finished	SAMP,2>10 mL
70	N069542-002AMS,M\$	26	1000	Unknown	10/30/2024 19:24	Finished	MS (1ppb), IWST-240729B,2>
71	CCV-6,CCV1,1,	27	1000	Unknown	10/30/2024 19:33	Finished	CCV @10ppb, IWST-240729A
72	CCB-6,CCB,1,	28	1000	Unknown	10/30/2024 19:43	Finished	CCB R241001A
73	N069542-003A,SAMP	29	1000	Unknown	10/30/2024 19:52	Finished	SAMP,2>10 mL
74	N069542-003AMS,M\$	30	1000	Unknown	10/30/2024 20:01	Finished	MS (1ppb), IWST-240729B,2>
75	N069543-001A,SAMP	31	1000	Unknown	10/30/2024 20:11	Finished	SAMP,2>10 mL
76	N069543-001AMS,M\$	32	1000	Unknown	10/30/2024 20:20	Finished	MS (1ppb), IWST-240729B,2>
77	N069543-002A,SAMP	33	1000	Unknown	10/30/2024 20:30	Finished	SAMP,2>10 mL
78	N069543-002AMS,M\$	34	1000	Unknown	10/30/2024 20:39	Finished	MS (1ppb), IWST-240729B,2>
79	N069543-003A,SAMP	35	1000	Unknown	10/30/2024 20:49	Finished	SAMP,2>10 mL
80	N069543-003AMS,M\$	36	1000	Unknown	10/30/2024 20:58	Finished	MS (1ppb), IWST-240729B,2>
81	N069543-005A,SAMP	37	1000	Unknown	10/30/2024 21:08	Finished	SAMP,2>10 mL
82	N069543-005AMS,M\$	38	1000	Unknown	10/30/2024 21:17	Finished	MS (1ppb), IWST-240729B,2>
83	CCV-7,CCV,1,	39	1000	Unknown	10/30/2024 21:27	Finished	CCV @5ppb, IWST-240729A
84	CCB-7,CCB,1,	40	1000	Unknown	10/30/2024 21:36	Finished	CCB R241001A
85	N069543-008A,SAMP	41	1000	Unknown	10/30/2024 21:45	Finished	SAMP,2>10 mL
86	N069543-008AMS,M\$	42	1000	Unknown	10/30/2024 21:55	Finished	MS (1ppb), IWST-240729B,2>
87	N069543-009A,SAMP	43	1000	Unknown	10/30/2024 22:04	Finished	SAMP,2>10 mL
88	N069543-009AMS,M\$	44	1000	Unknown	10/30/2024 22:14	Finished	MS (1ppb), IWST-240729B,2>
89	N069543-014A,SAMP	45	1000	Unknown	10/30/2024 22:23	Finished	SAMP,2>10 mL
90	N069543-014AMS,M\$	46	1000	Unknown	10/30/2024 22:33	Finished	MS (1ppb), IWST-240729B,2>
91	N069543-011AMS,M\$	47	1000	Unknown	10/30/2024 22:42	Finished	MS (1ppb), IWST-240729B,10r
92	CCV-8,CCV1,1,	48	1000	Unknown	10/30/2024 22:52	Finished	CCV @10ppb, IWST-240729A
93	CCB-8,CCB,1,	49	1000	Unknown	10/30/2024 23:01	Finished	CCB R241001A
94	SHUTDOWN	50	1000	Unknown	10/30/2024 23:11	Finished	
95	Eluent: R241029A	51	1000	Unknown	n.a.	Finished	
96	PCR: R241029B	CurrentVial	1000	Unknown	n.a.	Finished	

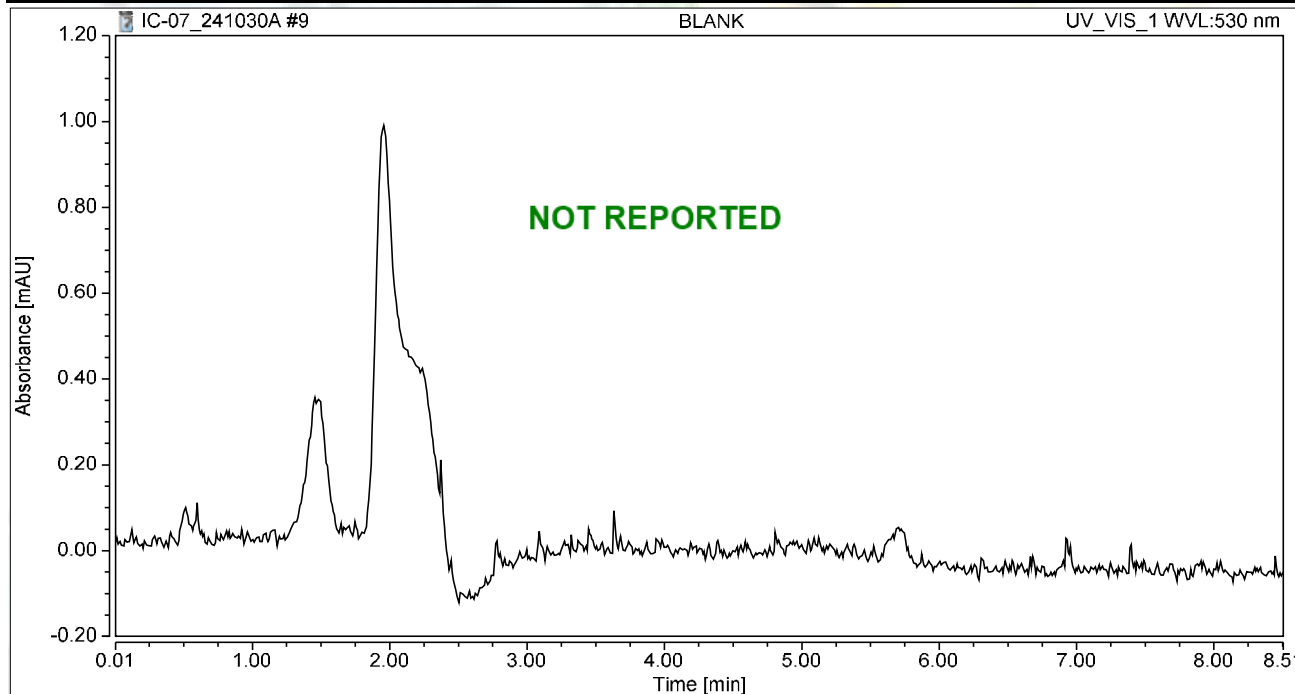


Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 09:17	Sample Weight:	1.0000

Chromatogram



Integration Results

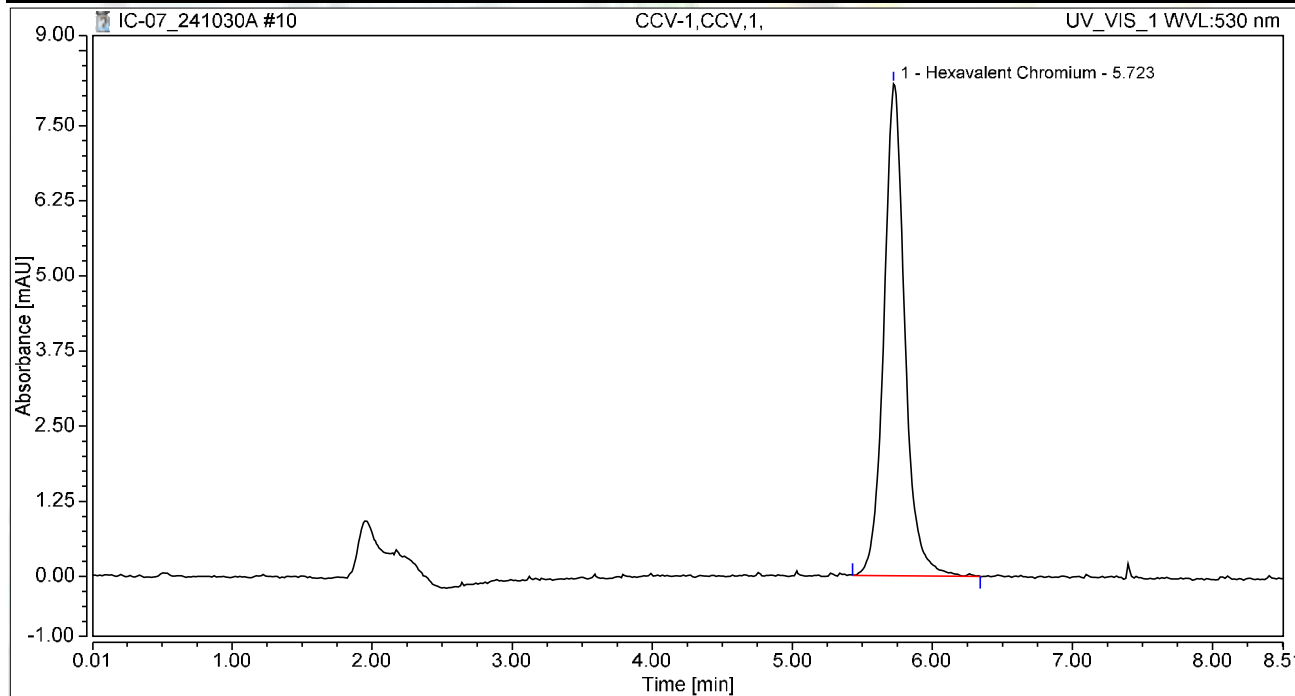
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-1,CCV,1,	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 09:28	Sample Weight:	1.0000

Chromatogram



Integration Results

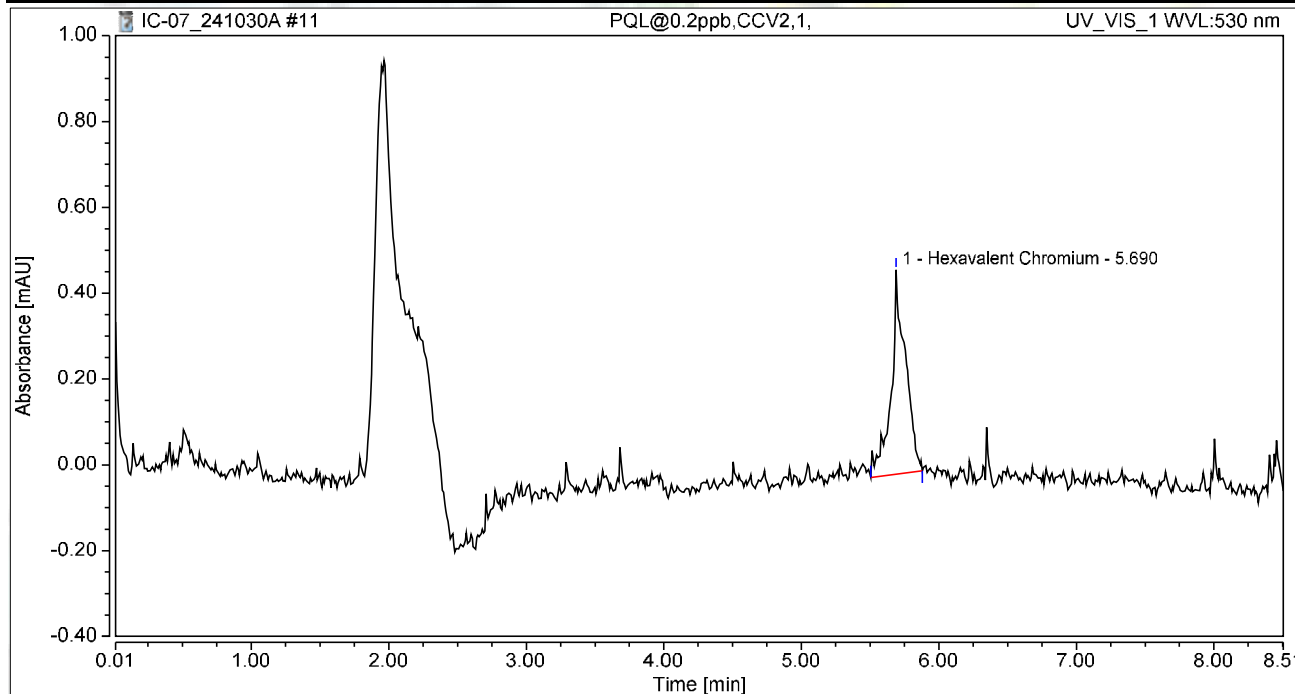
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	1.421	8.184	100.00	100.00	5.0080
Total:			1.421	8.184	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 09:37	Sample Weight:	1.0000

Chromatogram



Integration Results

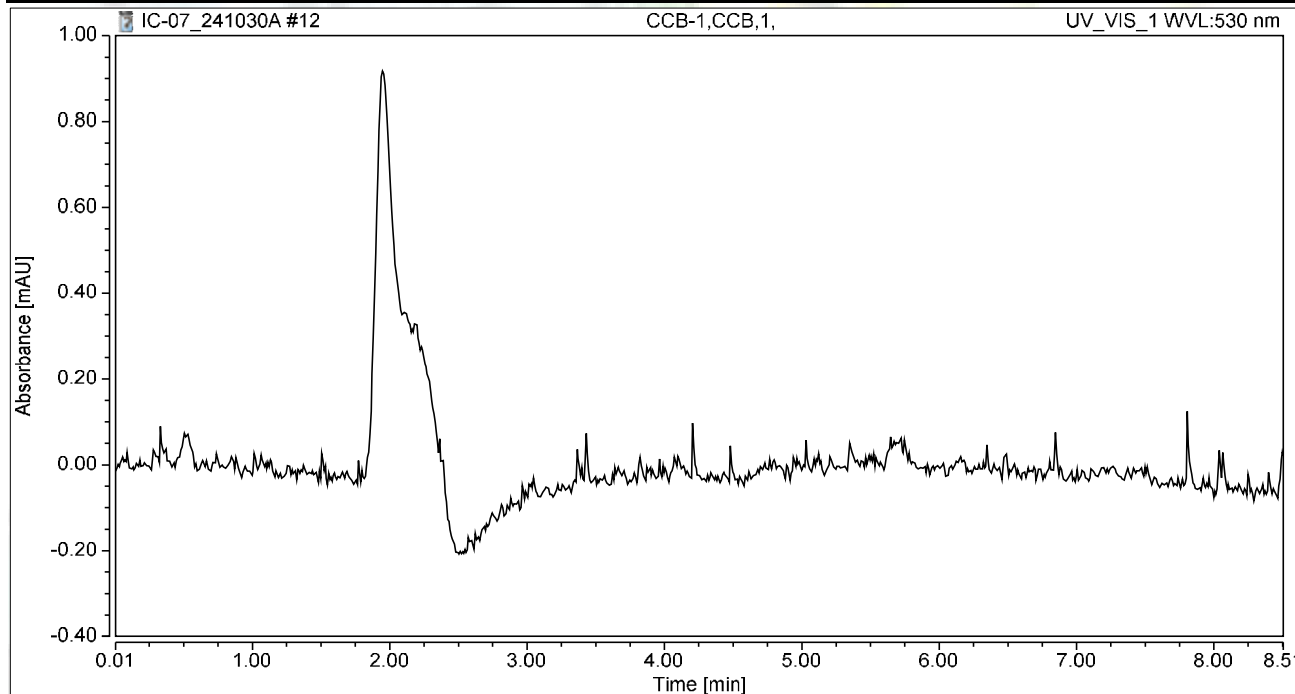
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.058	0.476	100.00	100.00	0.2039
Total:			0.058	0.476	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-1,CCB,1,	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 09:46	Sample Weight:	1.0000

Chromatogram



Integration Results

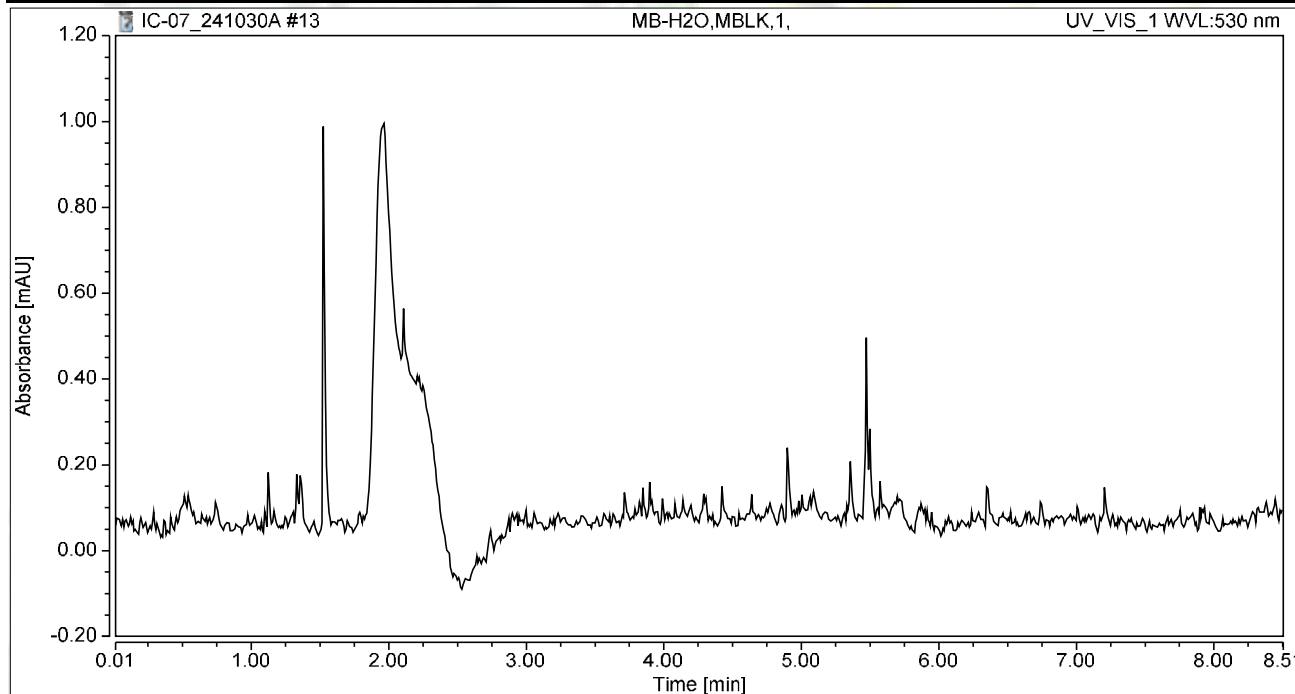
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.49
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 09:56	Sample Weight:	1.0000

Chromatogram



Integration Results

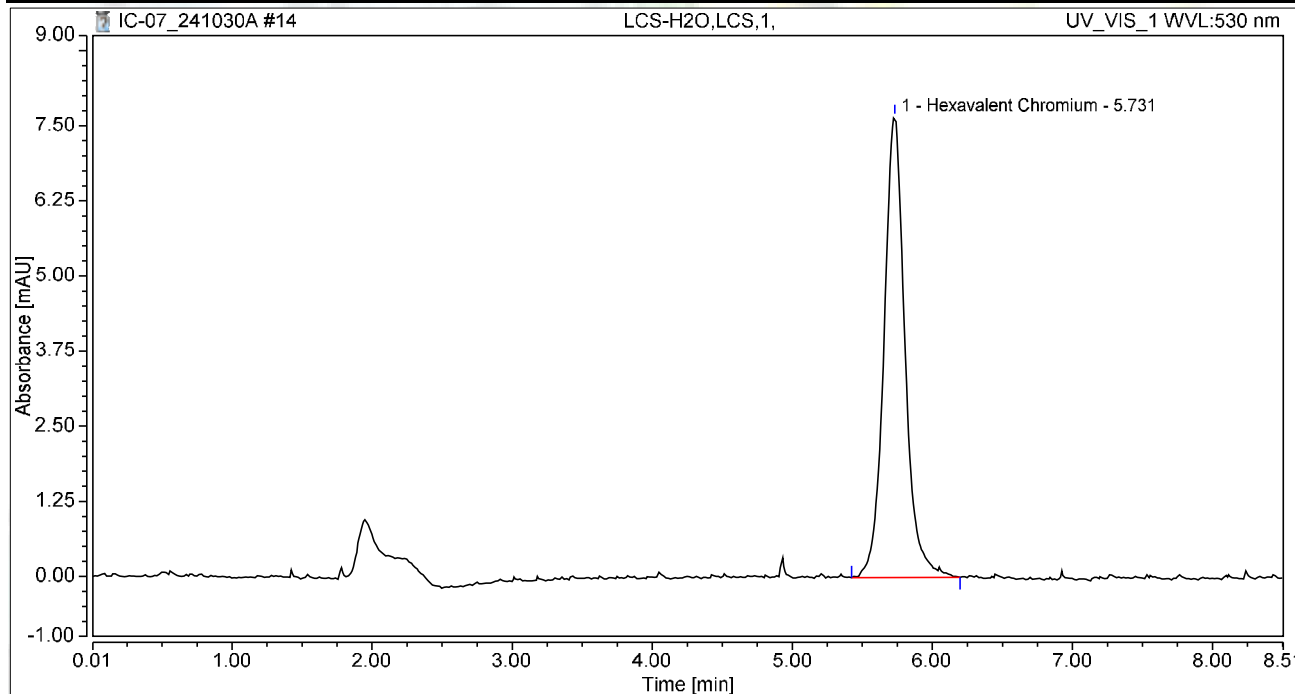
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-H2O,LCS,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 10:05	Sample Weight:	1.0000

Chromatogram



Integration Results

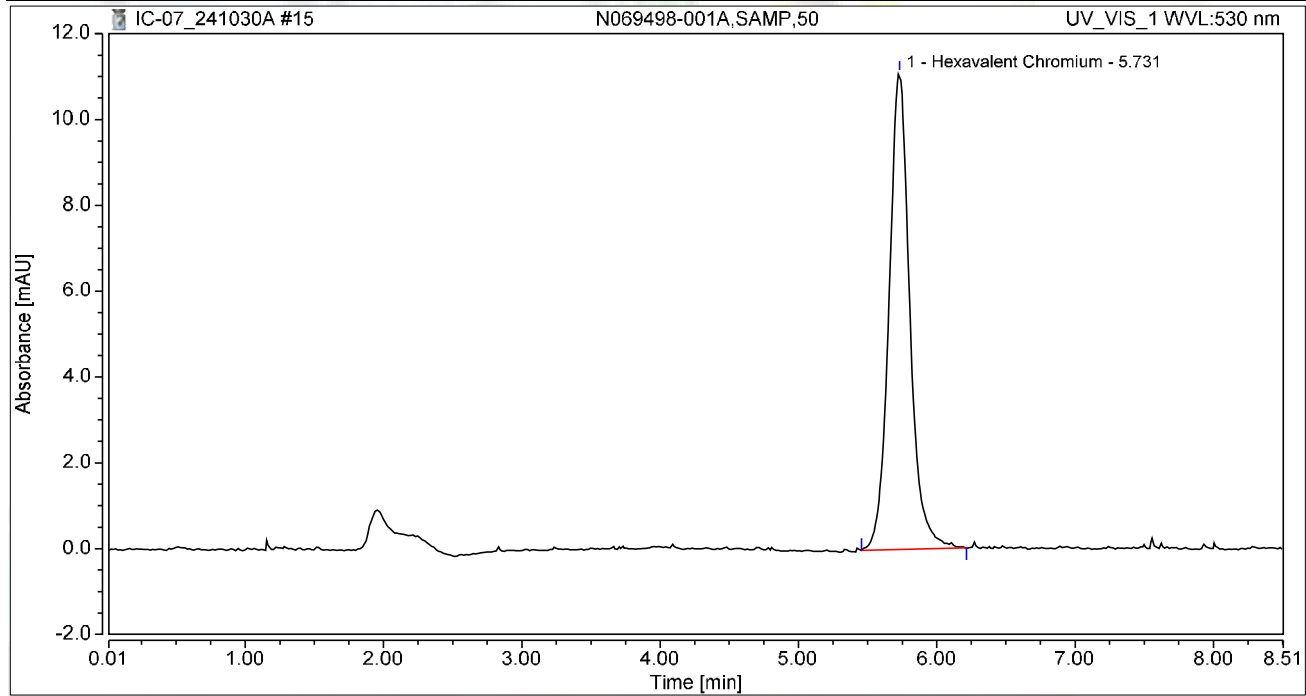
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	1.337	7.669	100.00	100.00	4.7120
Total:			1.337	7.669	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069498-001A,SAMP,50	Run Time (min):	8.49
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 10:15	Sample Weight:	1.0000

Chromatogram



Integration Results

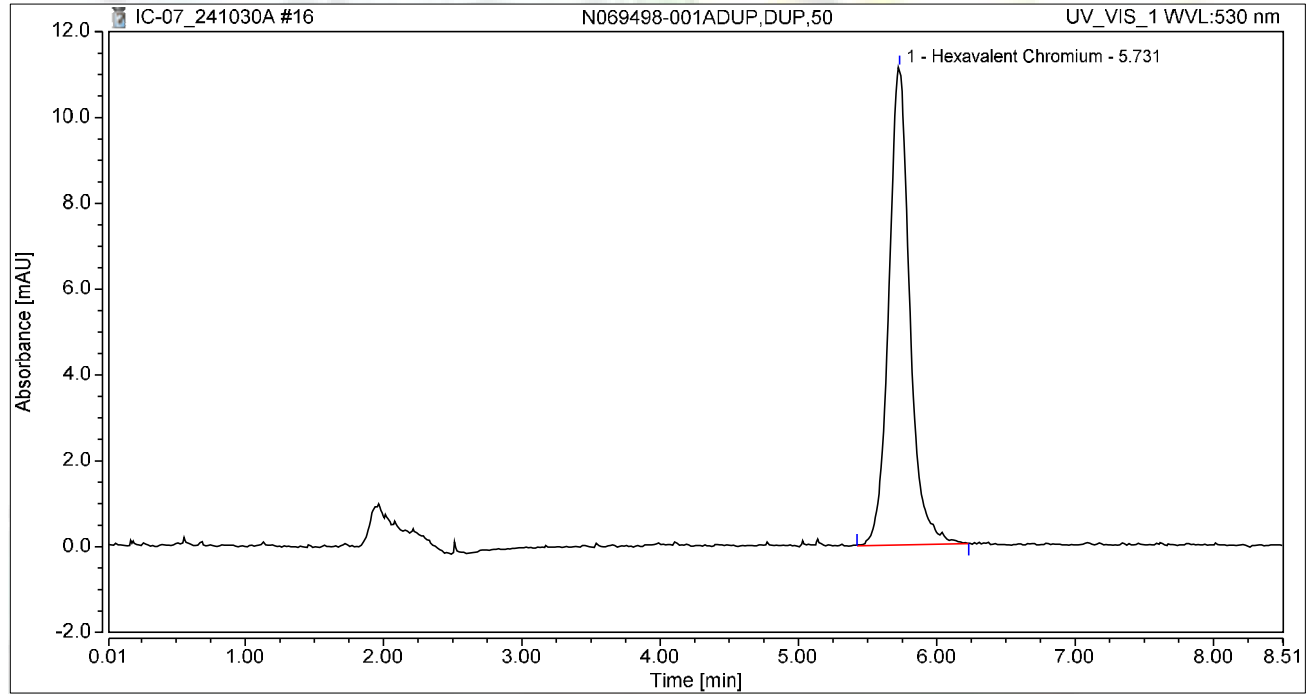
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	1.934	11.101	100.00	100.00	6.8145
Total:			1.934	11.101	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069498-001ADUP,DUP,50	Run Time (min):	8.49
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 10:24	Sample Weight:	1.0000

Chromatogram



Integration Results

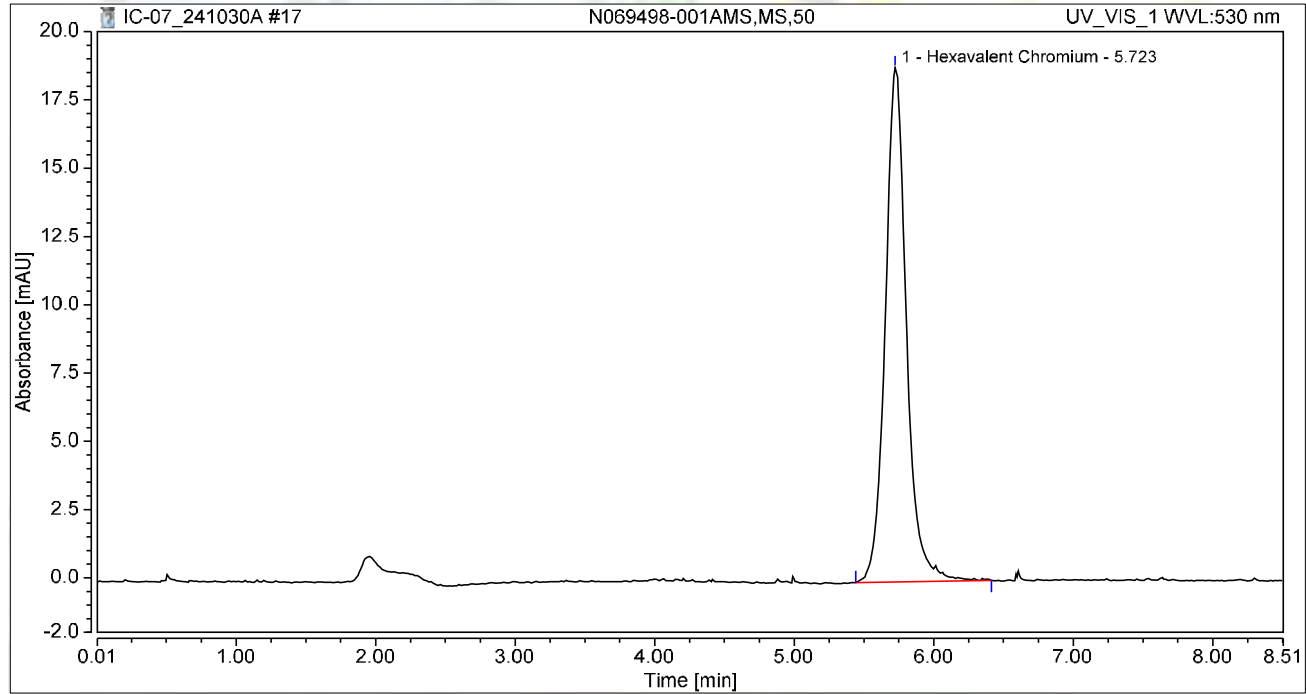
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	1.957	11.126	100.00	100.00	6.8957
Total:			1.957	11.126	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069498-001AMS,MS,50	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 10:34	Sample Weight:	1.0000

Chromatogram



Integration Results

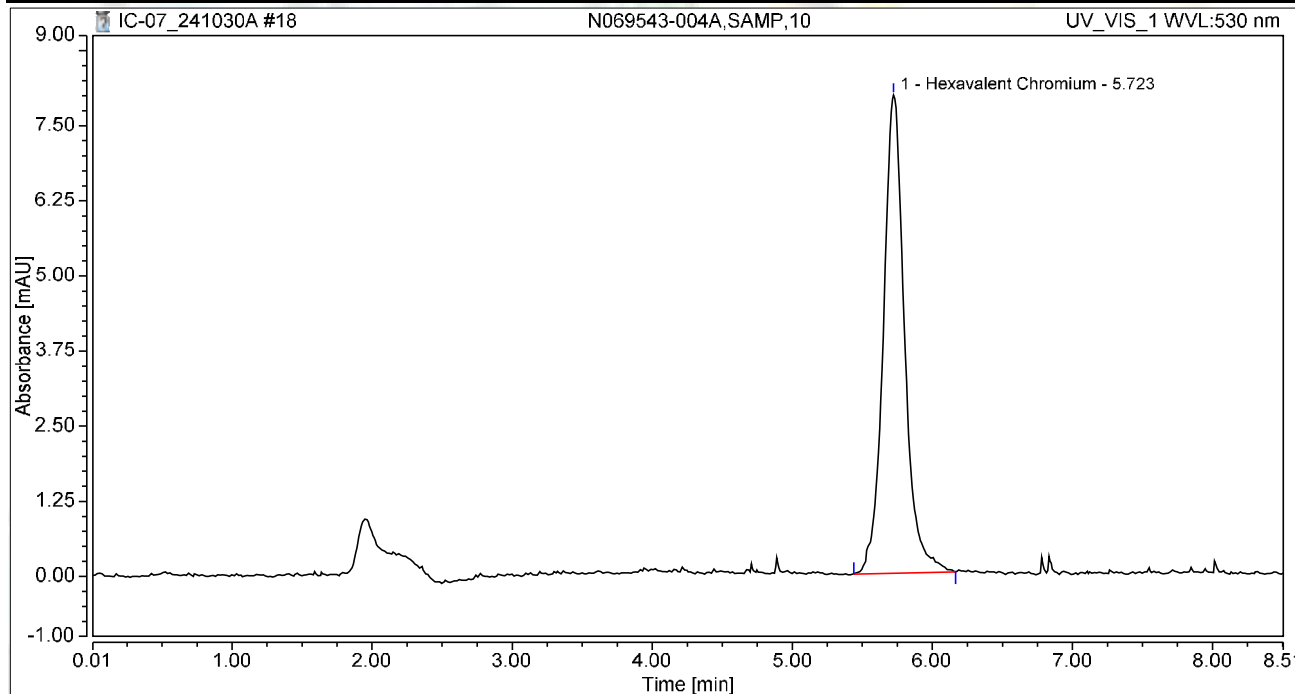
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	3.310	18.822	100.00	100.00	11.6658
Total:			3.310	18.822	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-004A,SAMP,10	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 11:08	Sample Weight:	1.0000

Chromatogram



Integration Results

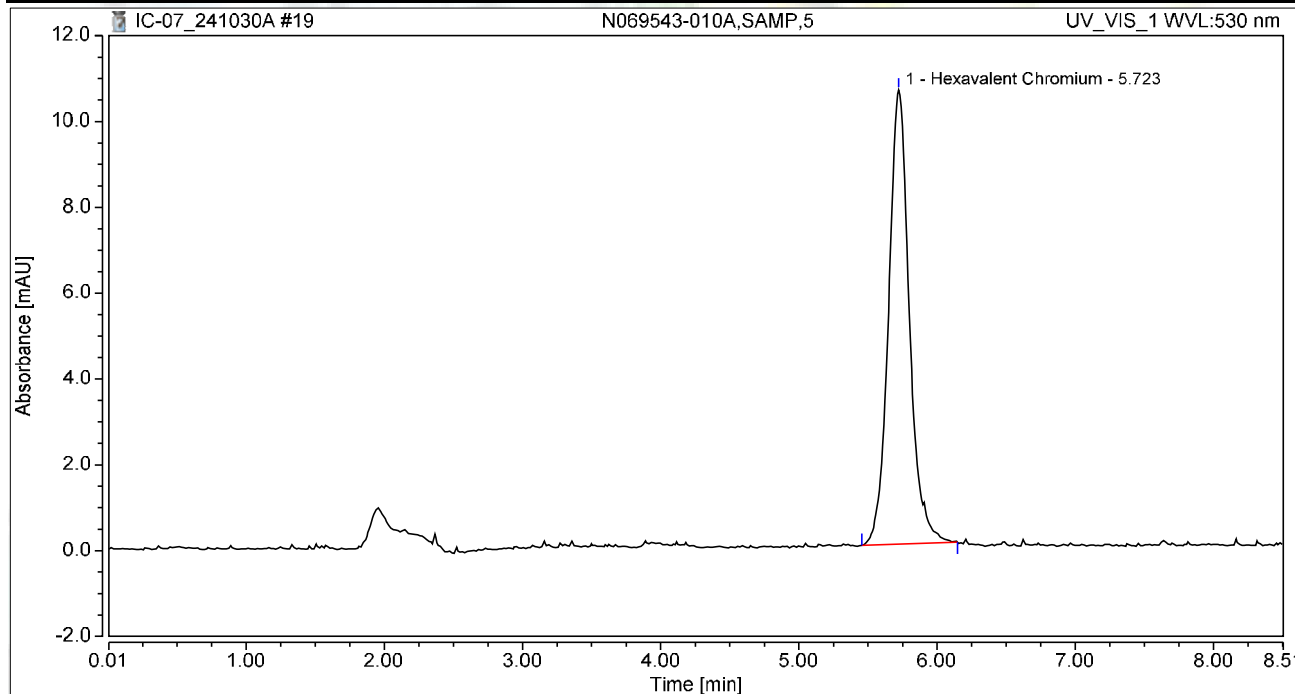
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	1.399	7.956	100.00	100.00	4.9307
Total:			1.399	7.956	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-010A,SAMP,5	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 11:19	Sample Weight:	1.0000

Chromatogram



Integration Results

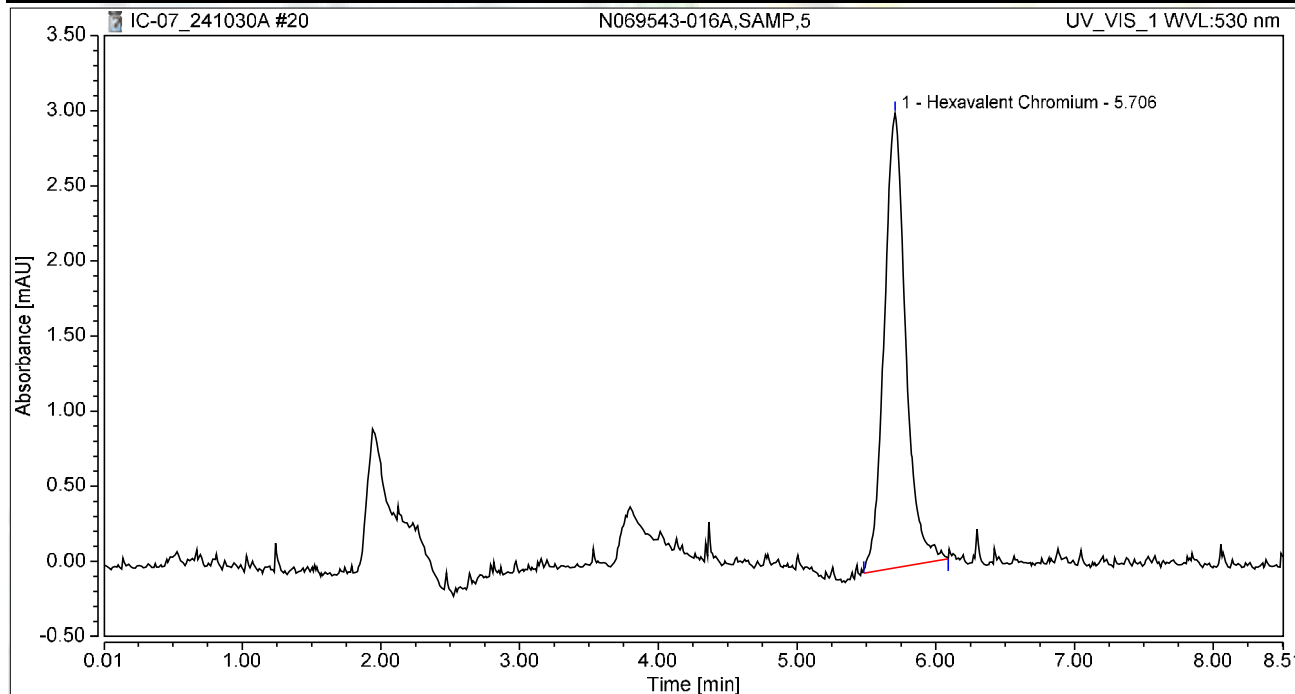
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	1.838	10.582	100.00	100.00	6.4770
Total:			1.838	10.582	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-016A,SAMP,5	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 11:29	Sample Weight:	1.0000

Chromatogram



Integration Results

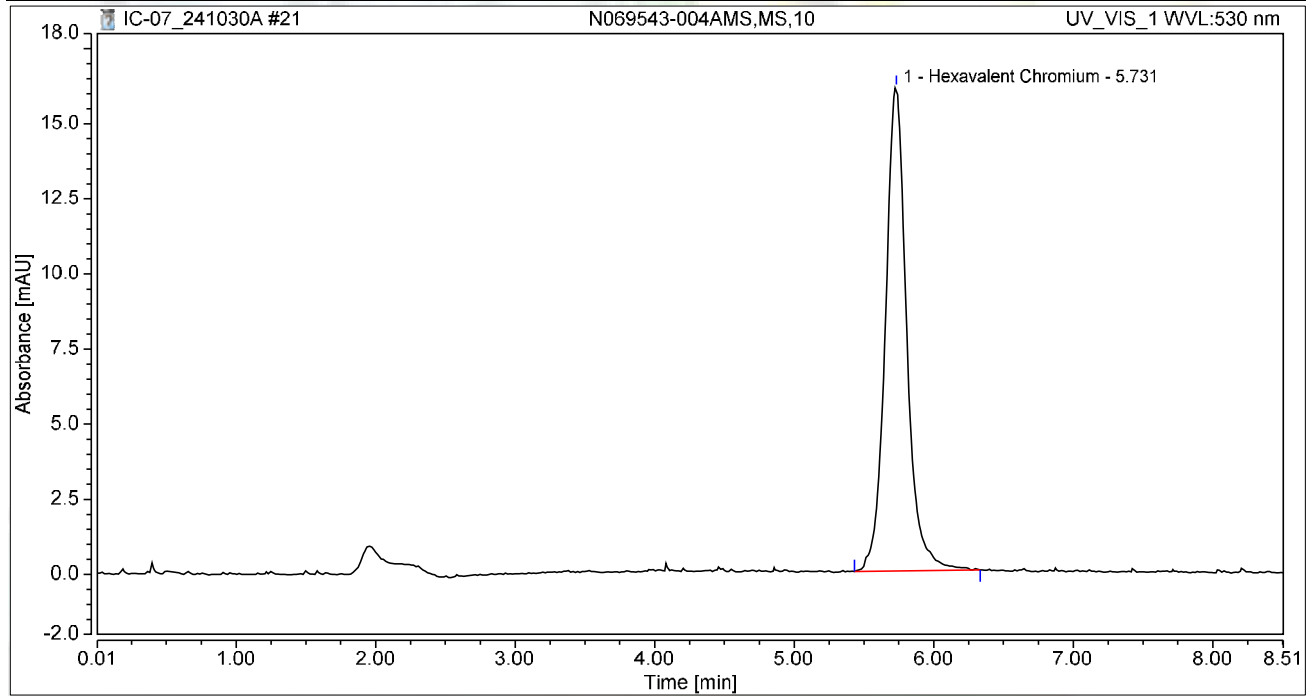
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	0.543	3.025	100.00	100.00	1.9128
Total:			0.543	3.025	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-004AMS,MS,10	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 11:38	Sample Weight:	1.0000

Chromatogram



Integration Results

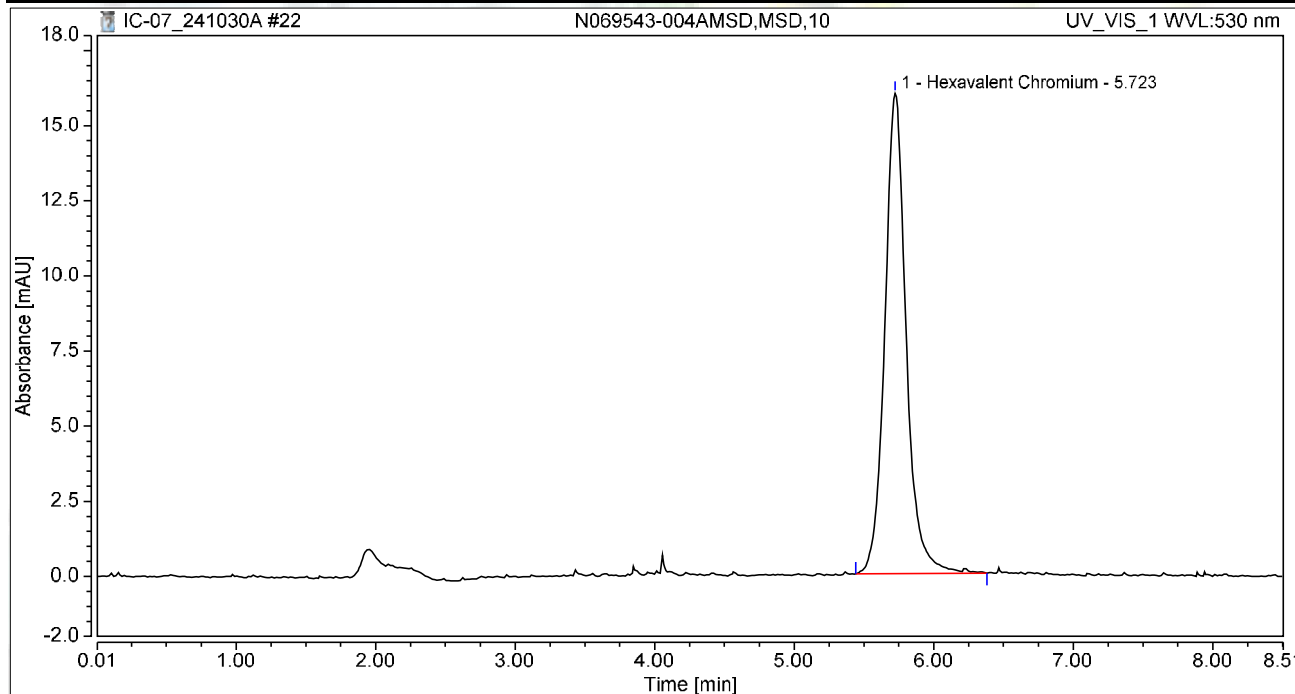
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	2.850	16.092	100.00	100.00	10.0424
Total:			2.850	16.092	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-004AMSD,MSD,10	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 11:48	Sample Weight:	1.0000

Chromatogram



Integration Results

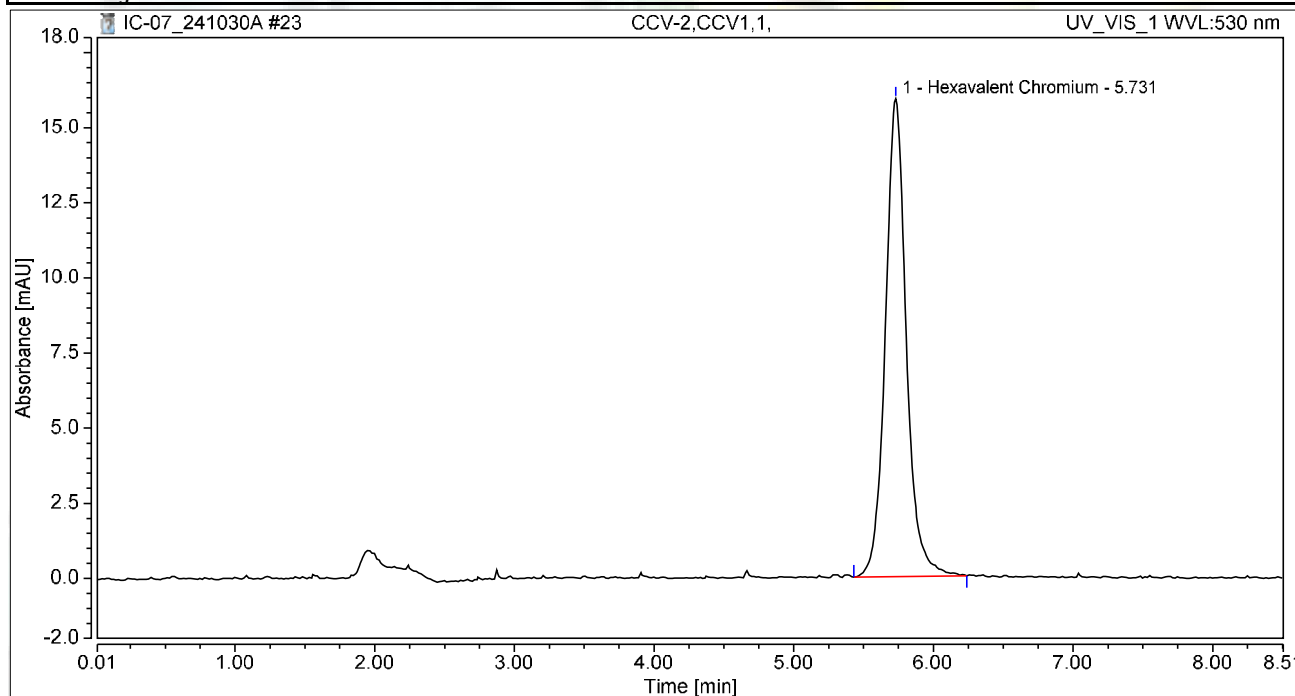
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	2.835	15.983	100.00	100.00	9.9909
Total:			2.835	15.983	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-2,CCV1,1,	Run Time (min):	8.49
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 11:57	Sample Weight:	1.0000

Chromatogram



Integration Results

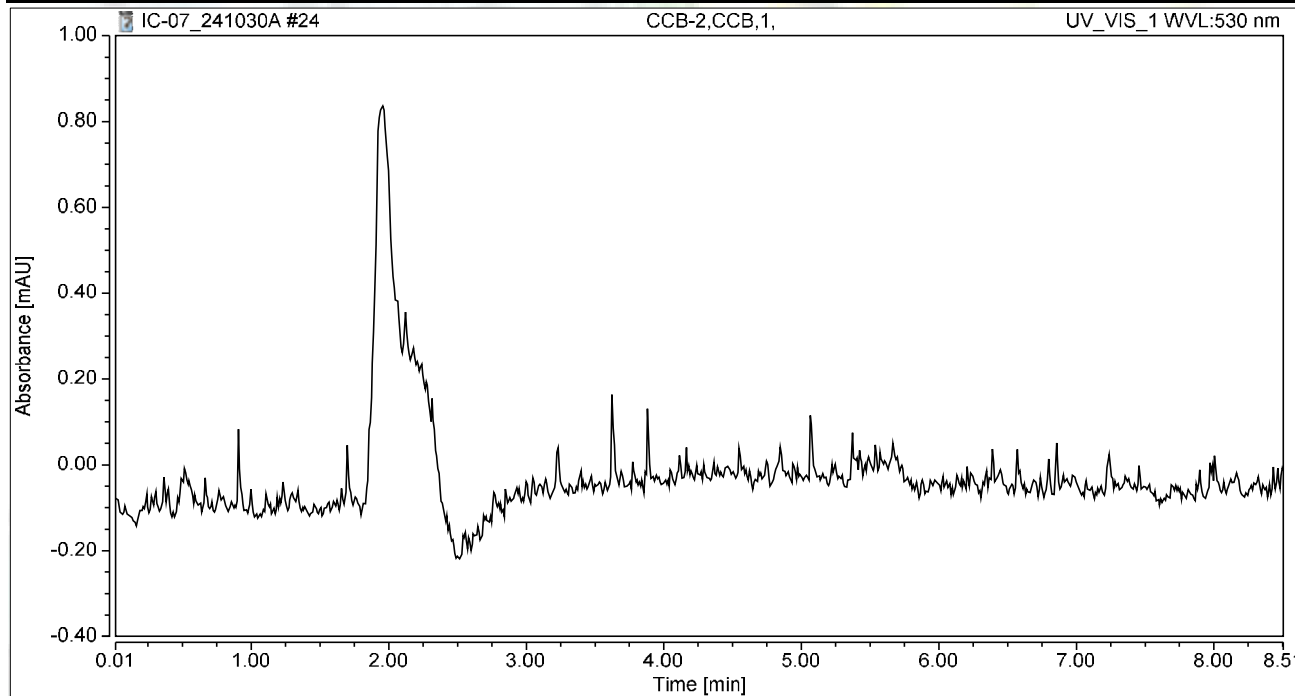
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	2.765	15.906	100.00	100.00	9.7438
Total:			2.765	15.906	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-2,CCB,1,	Run Time (min):	8.49
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 12:06	Sample Weight:	1.0000

Chromatogram



Integration Results

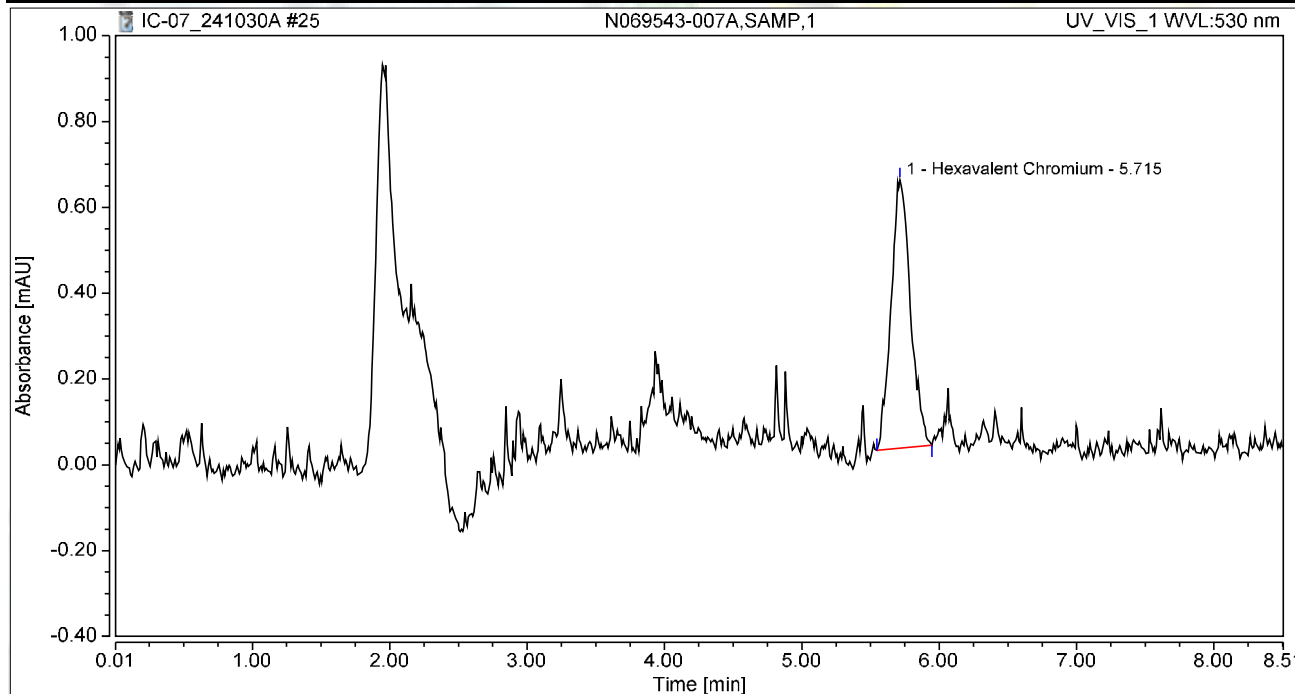
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-007A,SAMP,1	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 12:16	Sample Weight:	1.0000

Chromatogram



Integration Results

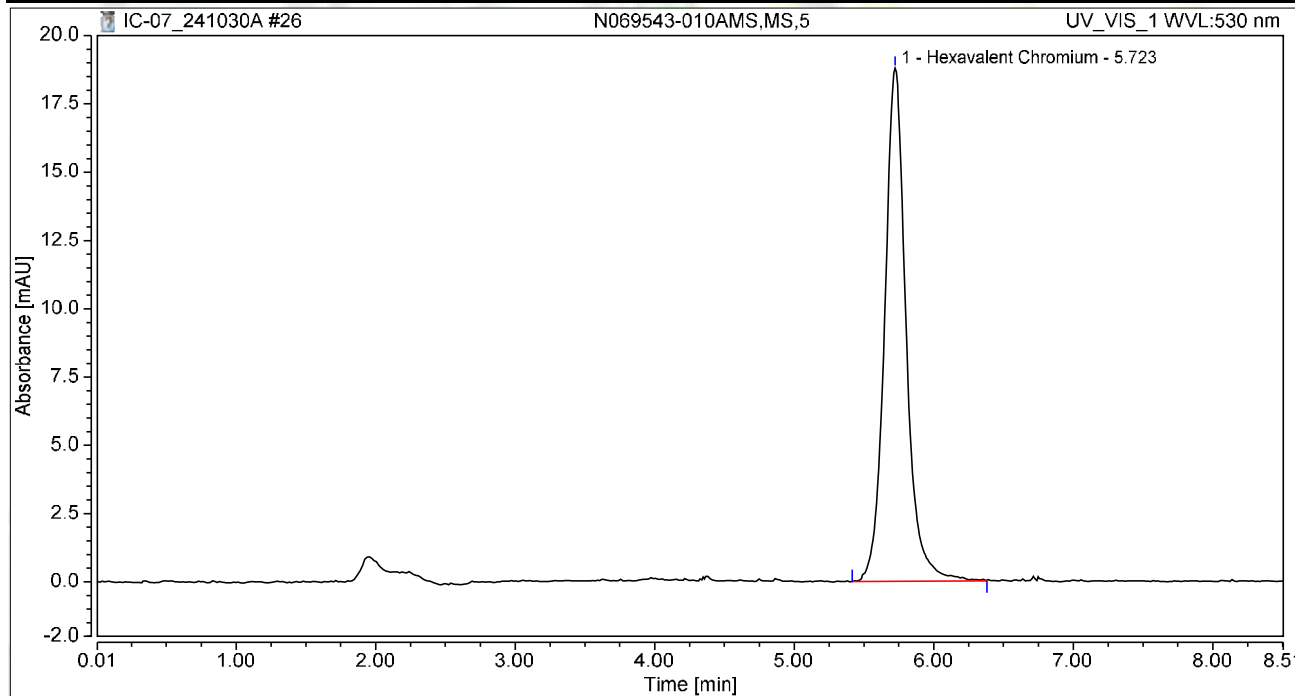
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.102	0.625	100.00	100.00	0.3601
Total:			0.102	0.625	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-010AMS,MS,5	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 12:25	Sample Weight:	1.0000

Chromatogram



Integration Results

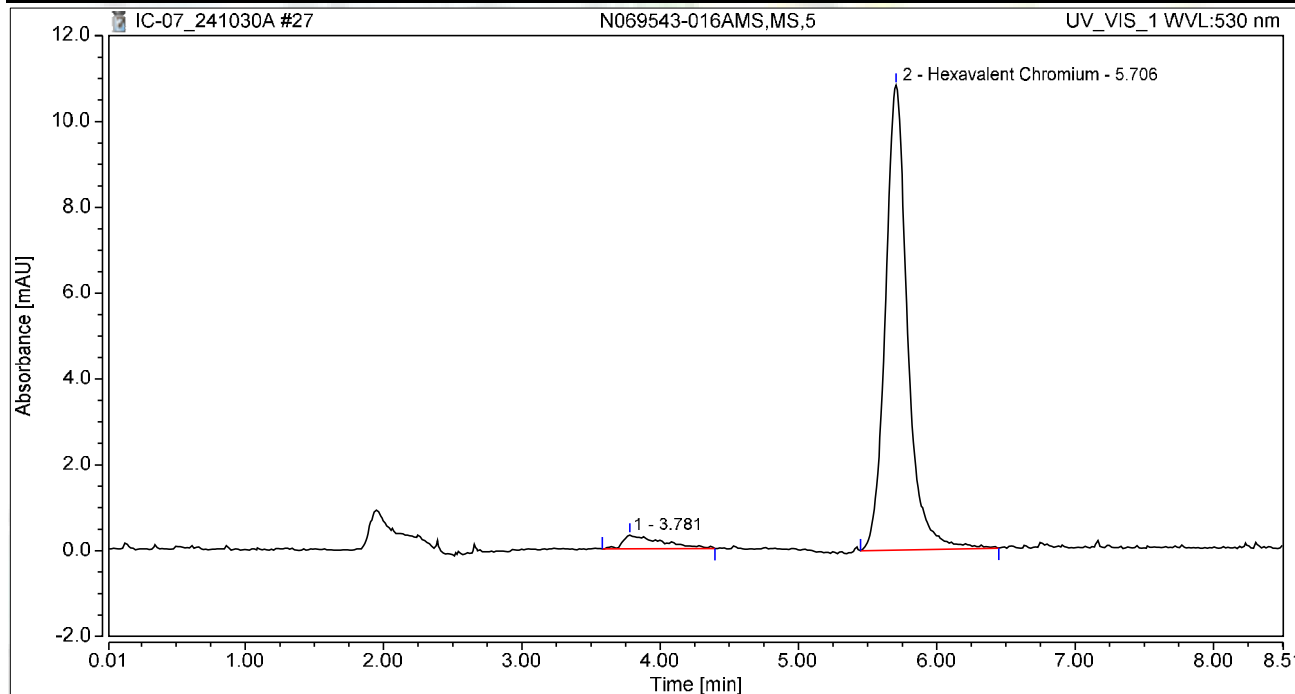
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	3.341	18.783	100.00	100.00	11.7752
Total:			3.341	18.783	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-016AMS,MS,5	Run Time (min):	8.49
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 12:35	Sample Weight:	1.0000

Chromatogram



Integration Results

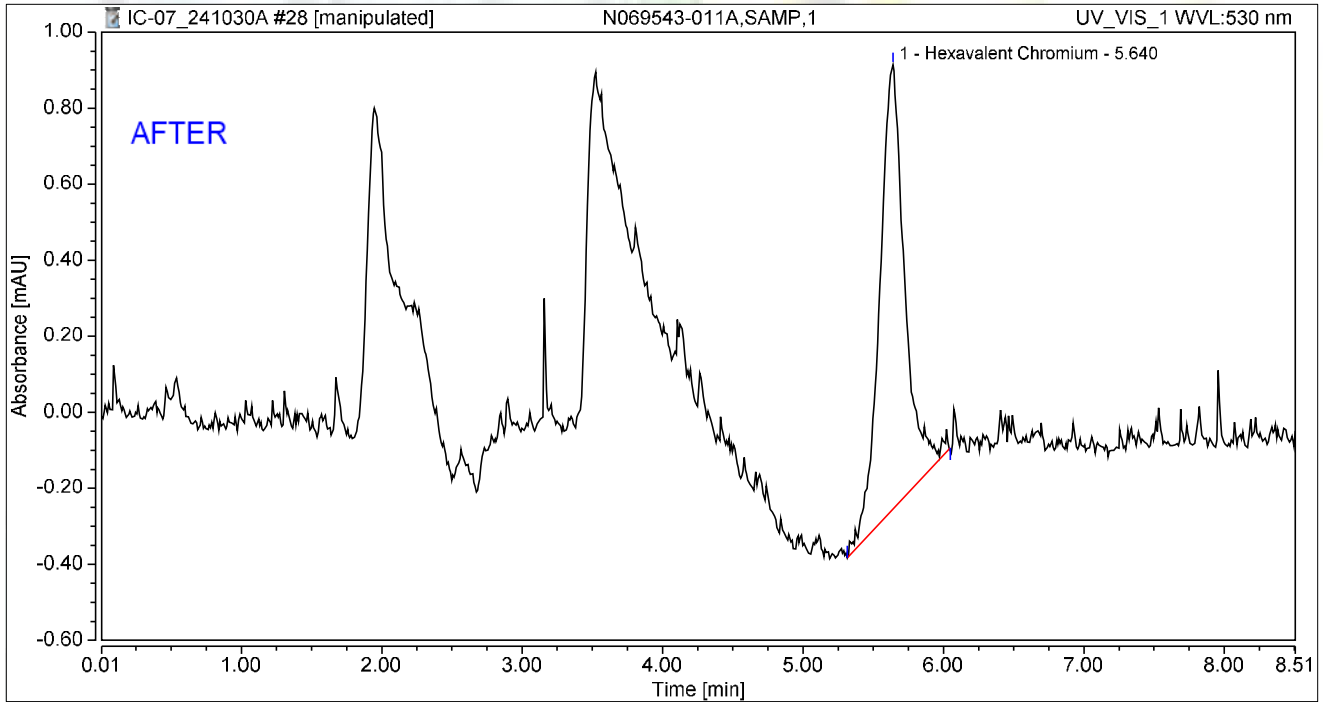
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.781	0.103	0.314	4.86	2.82	n.a.
2	Hexavalent Chromium	5.706	2.007	10.827	95.14	97.18	7.0722
Total:			2.109	11.141	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-011A,SAMP,1	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 12:44	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.640	0.244	1.169	100.00	100.00	0.8599
Total:			0.244	1.169	100.00	100.00	

Reviewed by:

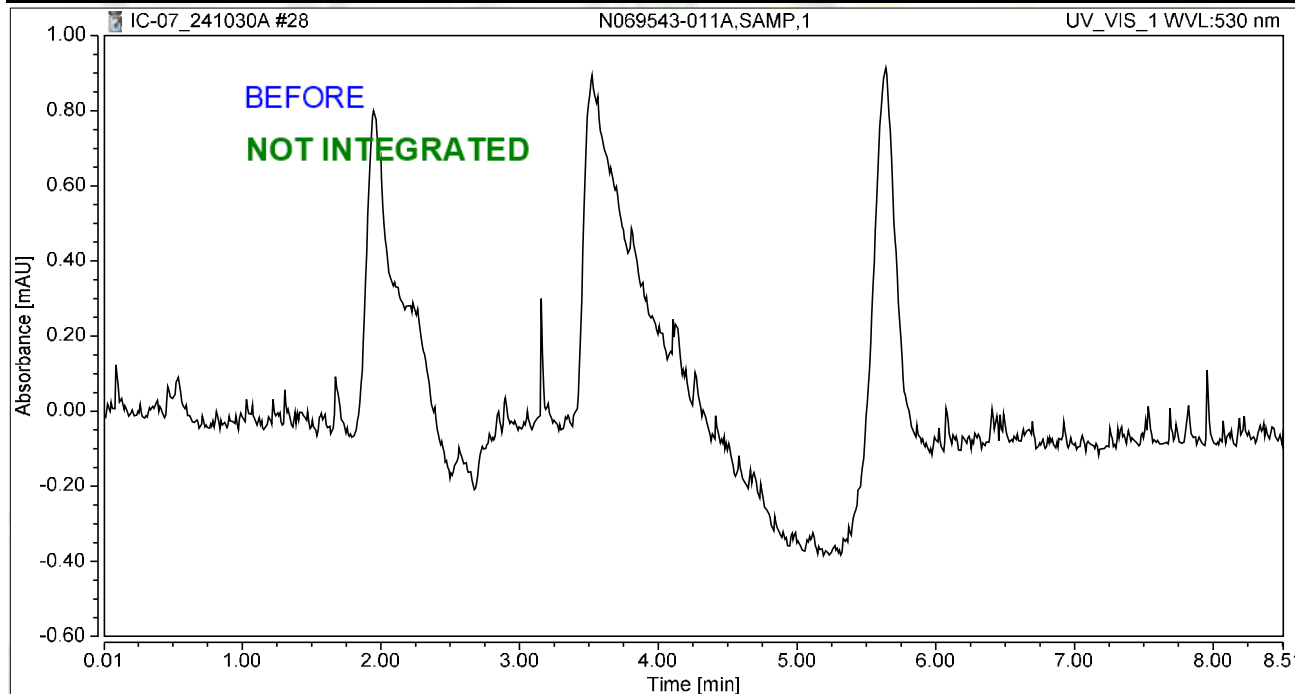
d/Rocha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069543-011A,SAMP,1	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 12:44	Sample Weight:	1.0000

Chromatogram



Integration Results

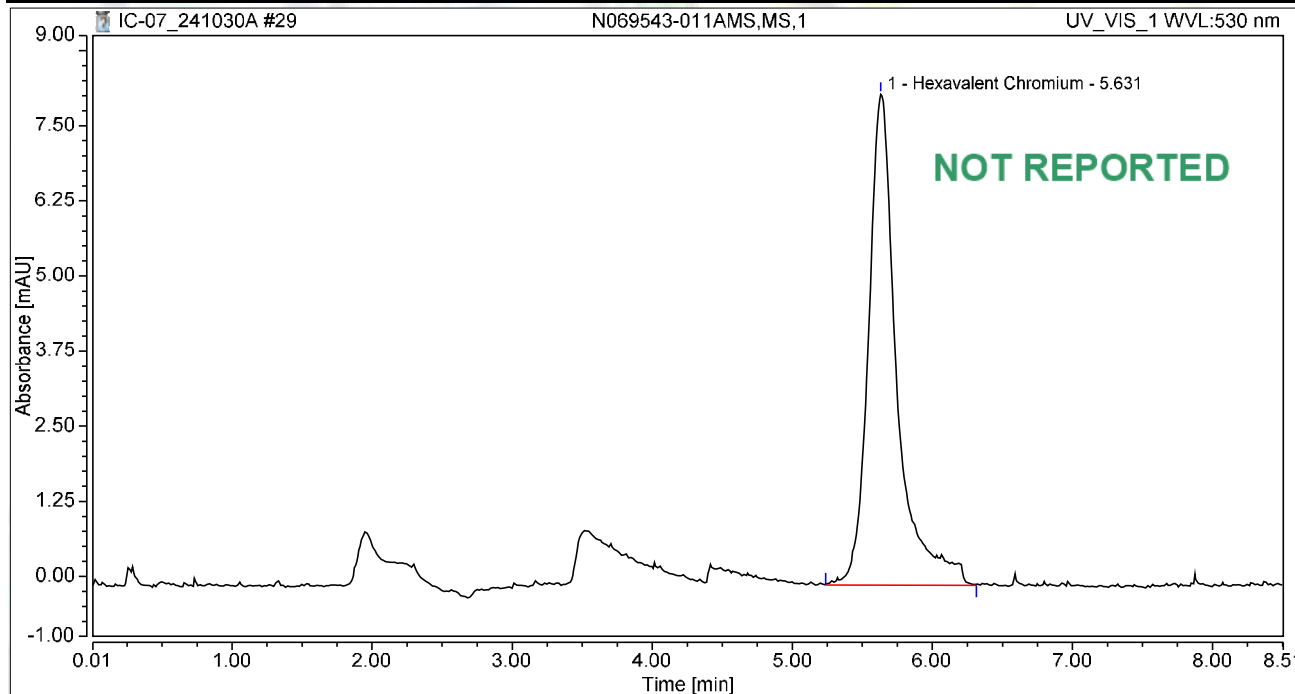
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-011AMS,MS,1	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 12:54	Sample Weight:	1.0000

Chromatogram



Integration Results

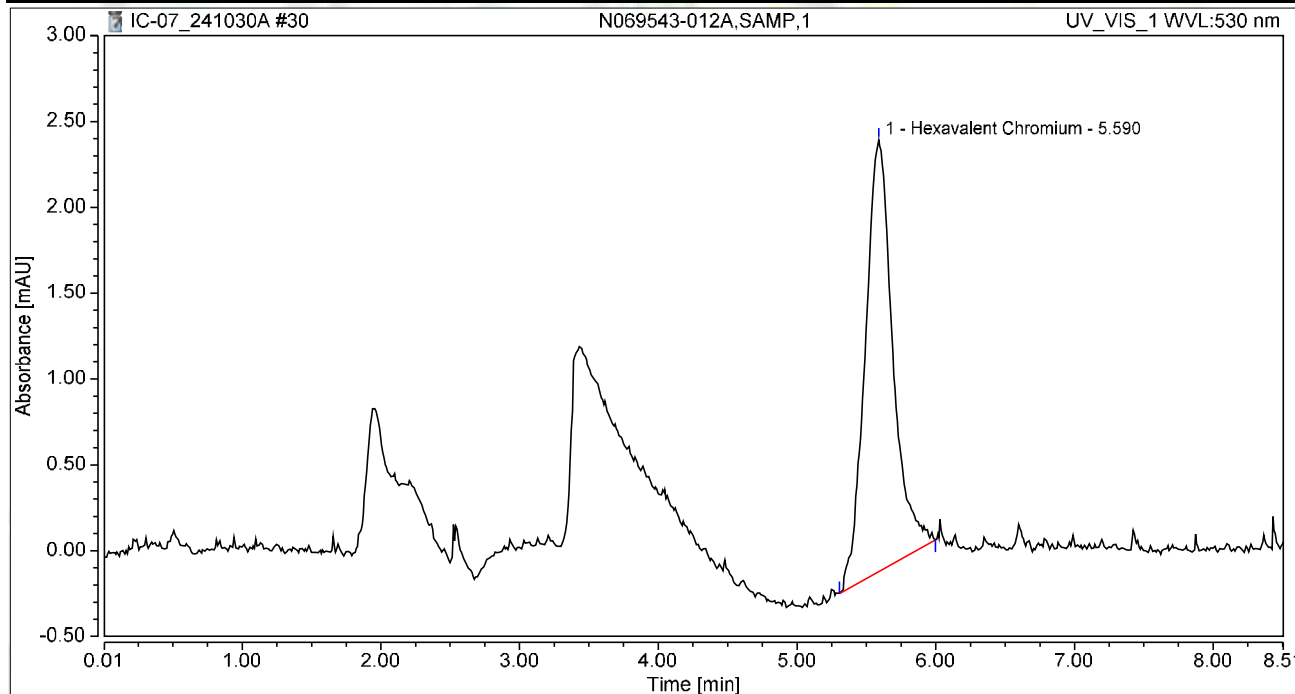
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.631	1.923	8.168	100.00	100.00	6.7767
Total:			1.923	8.168	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-012A,SAMP,1	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 13:03	Sample Weight:	1.0000

Chromatogram

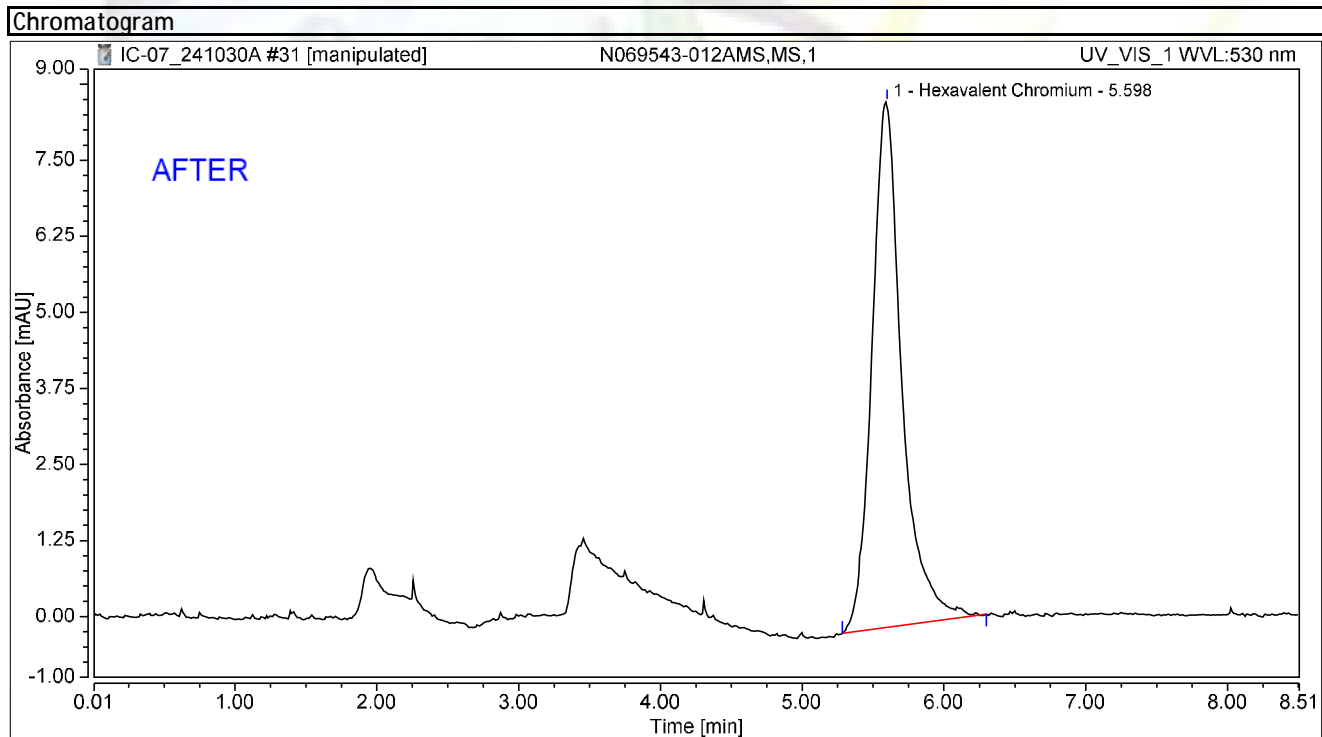


Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.590	0.581	2.515	100.00	100.00	2.0460
Total:			0.581	2.515	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069543-012AMS,MS,1	Run Time (min): 8.50
Vial Number:	14	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	30/Oct/24 13:13	Sample Weight: 1.0000



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.598	2.116	8.642	100.00	100.00	7.4577
Total:			2.116	8.642	100.00	100.00	

Reviewed by:

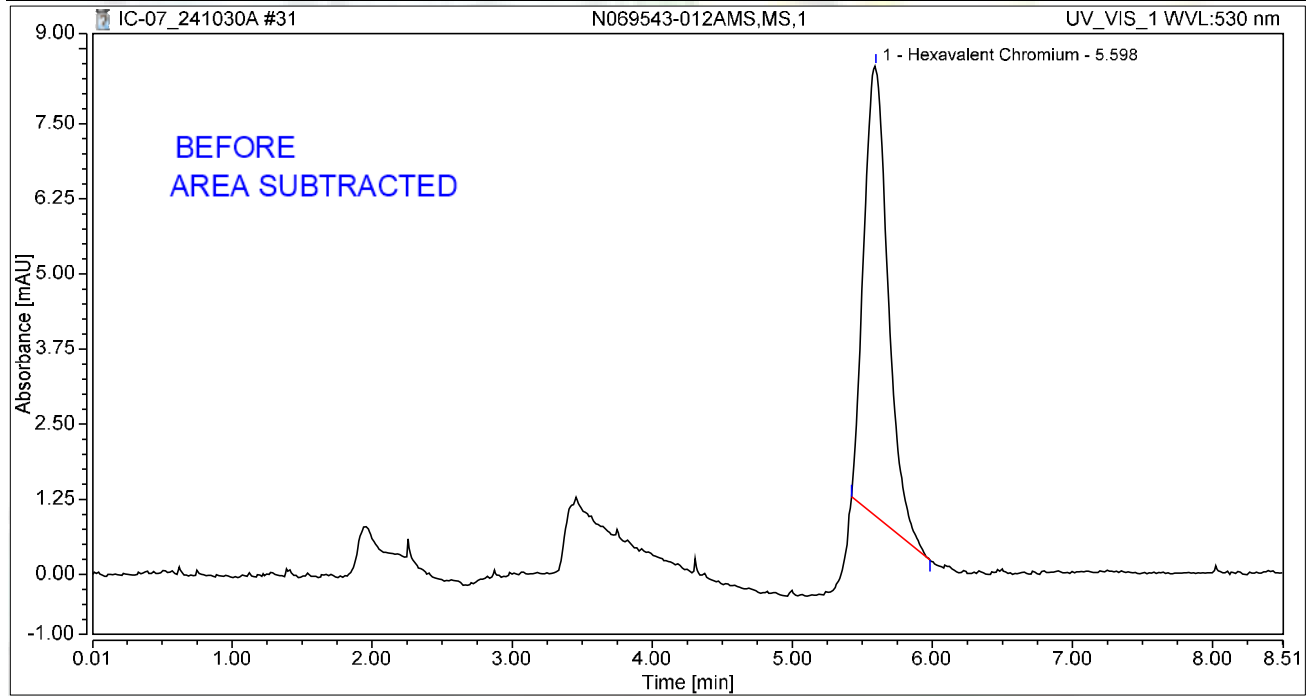
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Chromatogram and Results

Injection Details

Injection Name:	N069543-012AMS,MS,1	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 13:13	Sample Weight:	1.0000

Chromatogram



Integration Results

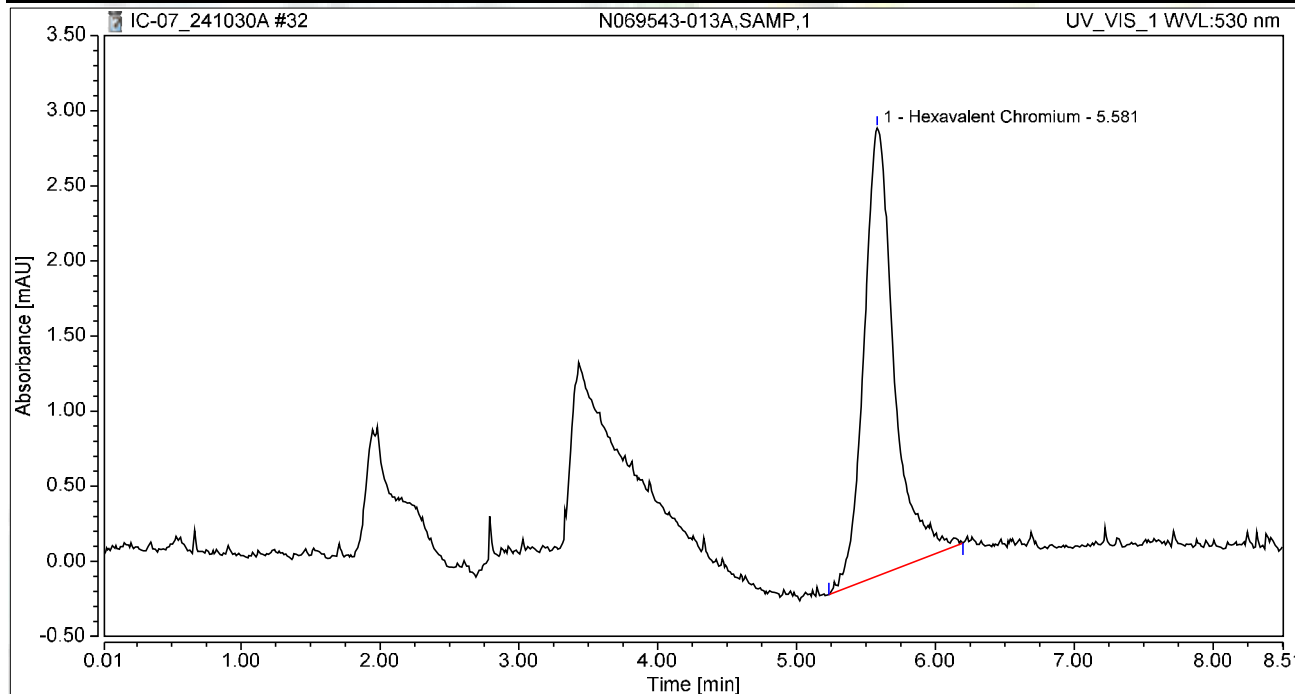
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.598	1.506	7.500	100.00	100.00	5.3088
Total:			1.506	7.500	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-013A,SAMP,1	Run Time (min):	8.49
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 13:22	Sample Weight:	1.0000

Chromatogram



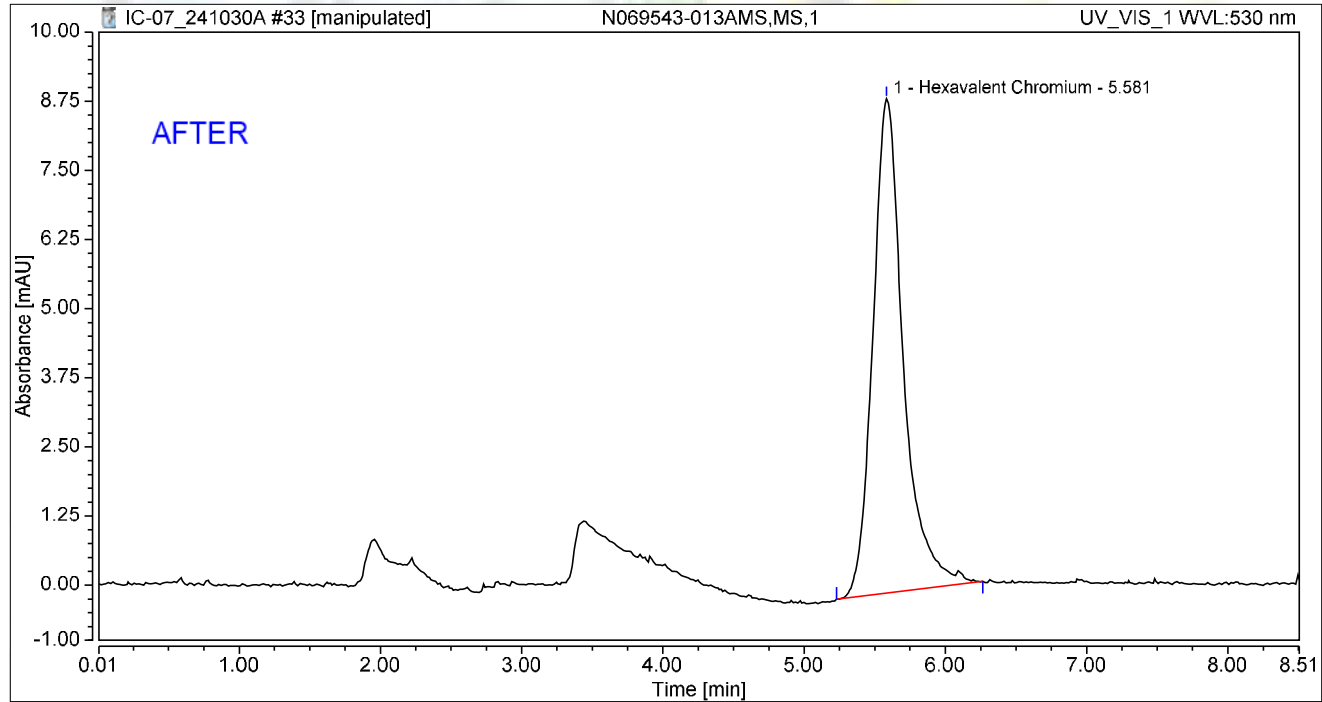
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.581	0.752	2.982	100.00	100.00	2.6499
Total:			0.752	2.982	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069543-013AMS,MS,1	Run Time (min): 8.50
Vial Number:	16	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	30/Oct/24 13:32	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.581	2.228	8.936	100.00	100.00	7.8535
Total:			2.228	8.936	100.00	100.00	

Reviewed by:

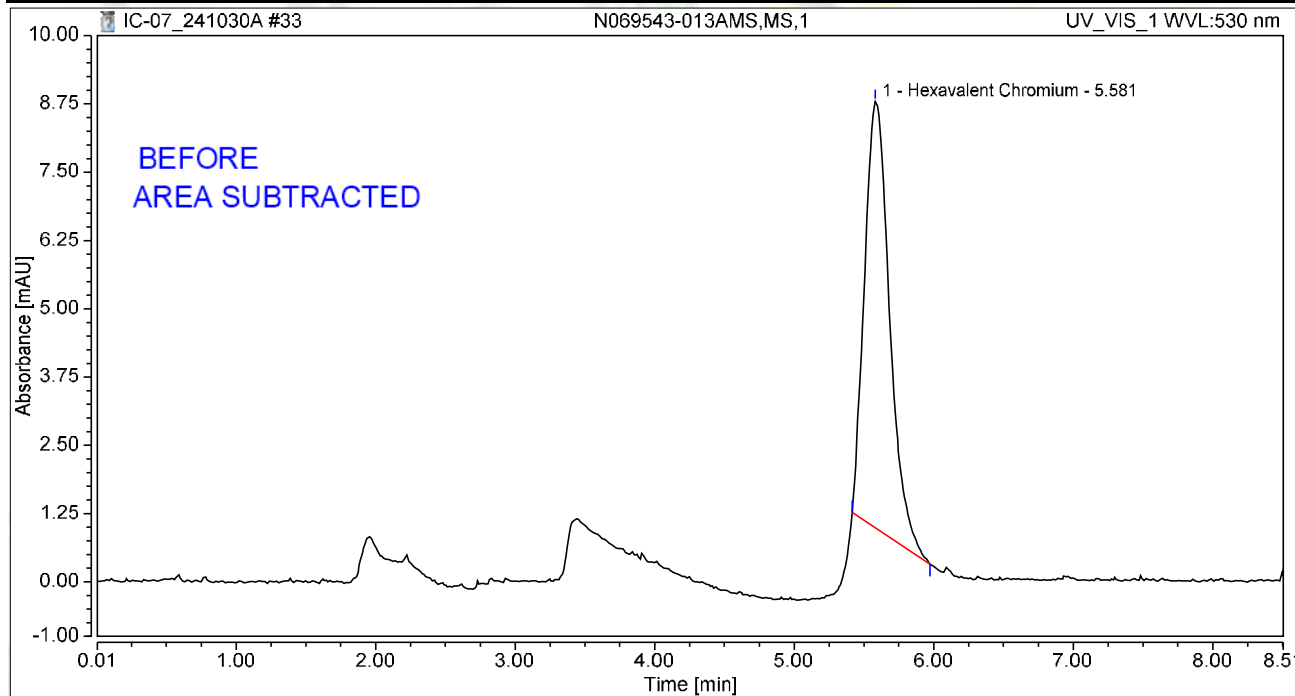
d/Recha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069543-013AMS,MS,1	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 13:32	Sample Weight:	1.0000

Chromatogram



Integration Results

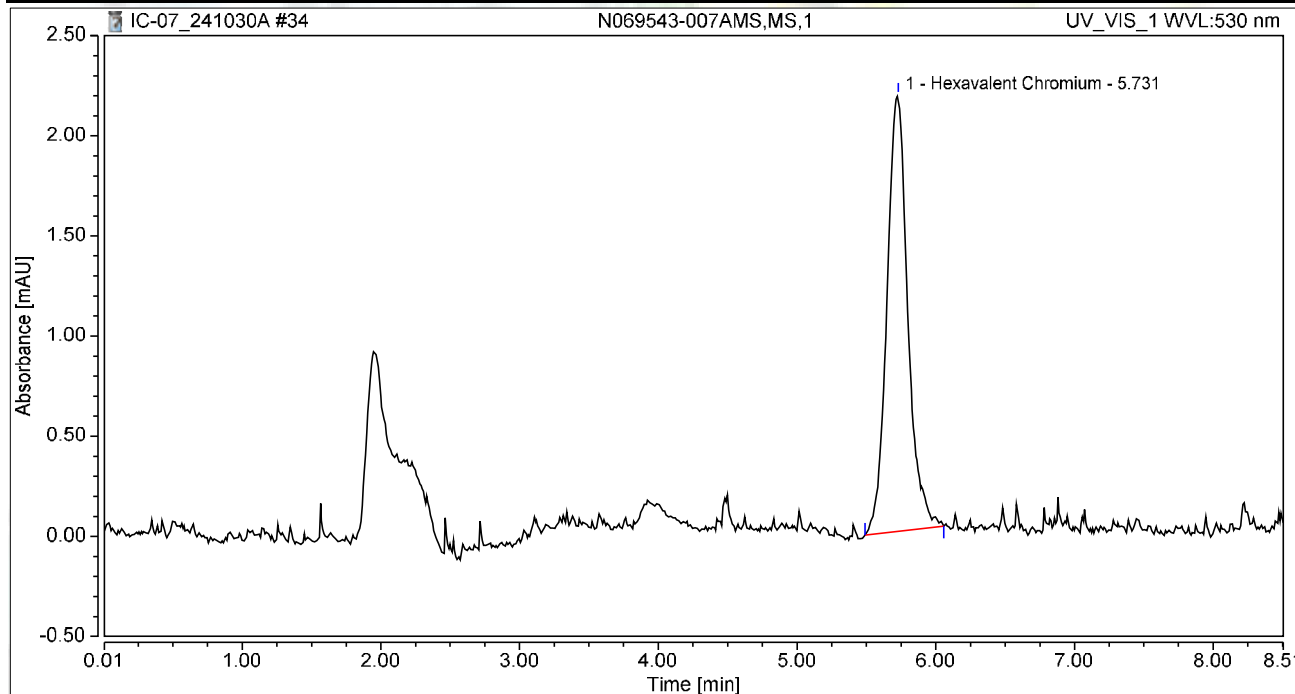
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.581	1.626	7.808	100.00	100.00	5.7315
Total:			1.626	7.808	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-007AMS,MS,1	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 13:41	Sample Weight:	1.0000

Chromatogram



Integration Results

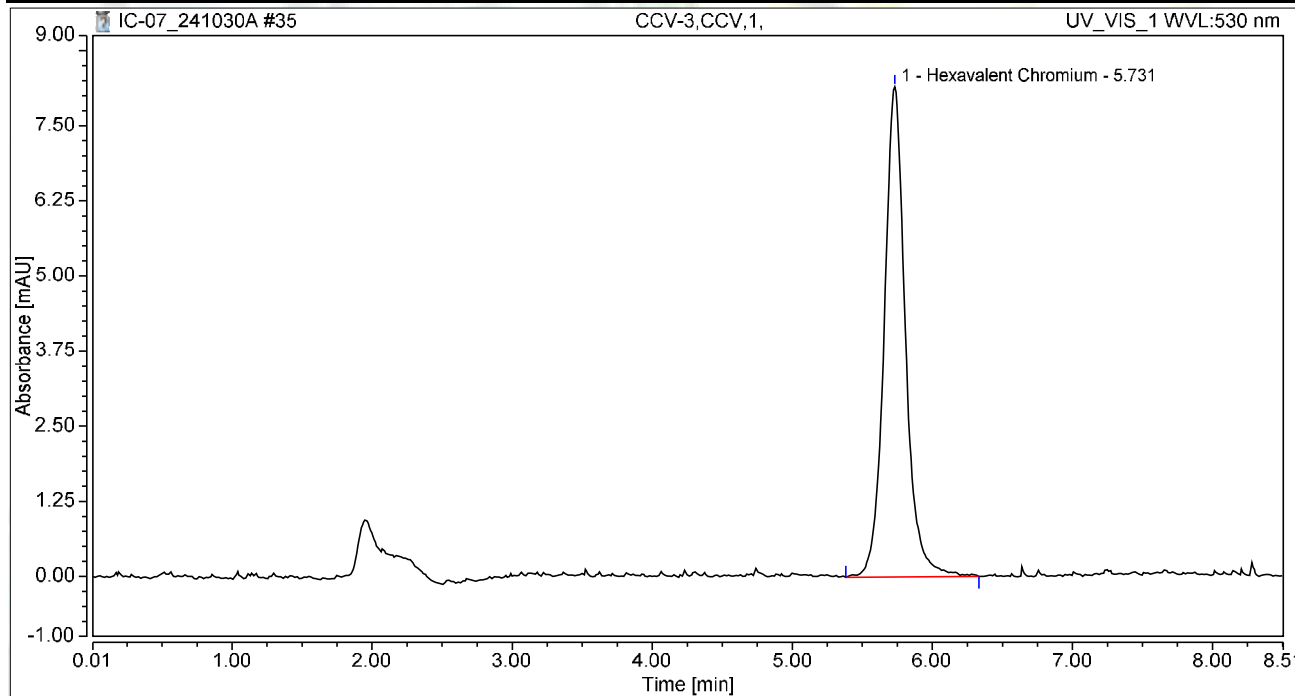
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	0.379	2.179	100.00	100.00	1.3350
Total:			0.379	2.179	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-3,CCV,1,	Run Time (min):	8.50
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 13:50	Sample Weight:	1.0000

Chromatogram



Integration Results

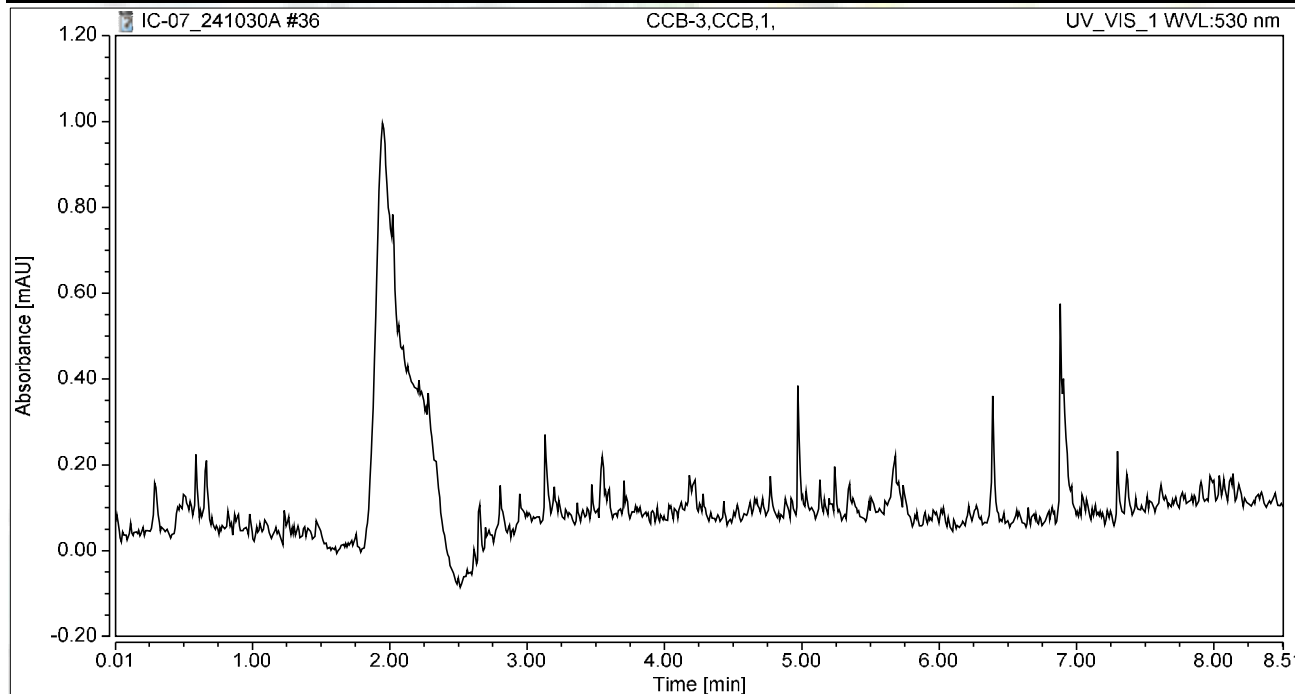
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	1.436	8.163	100.00	100.00	5.0615
Total:			1.436	8.163	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-3,CCB,1,	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 14:00	Sample Weight:	1.0000

Chromatogram



Integration Results

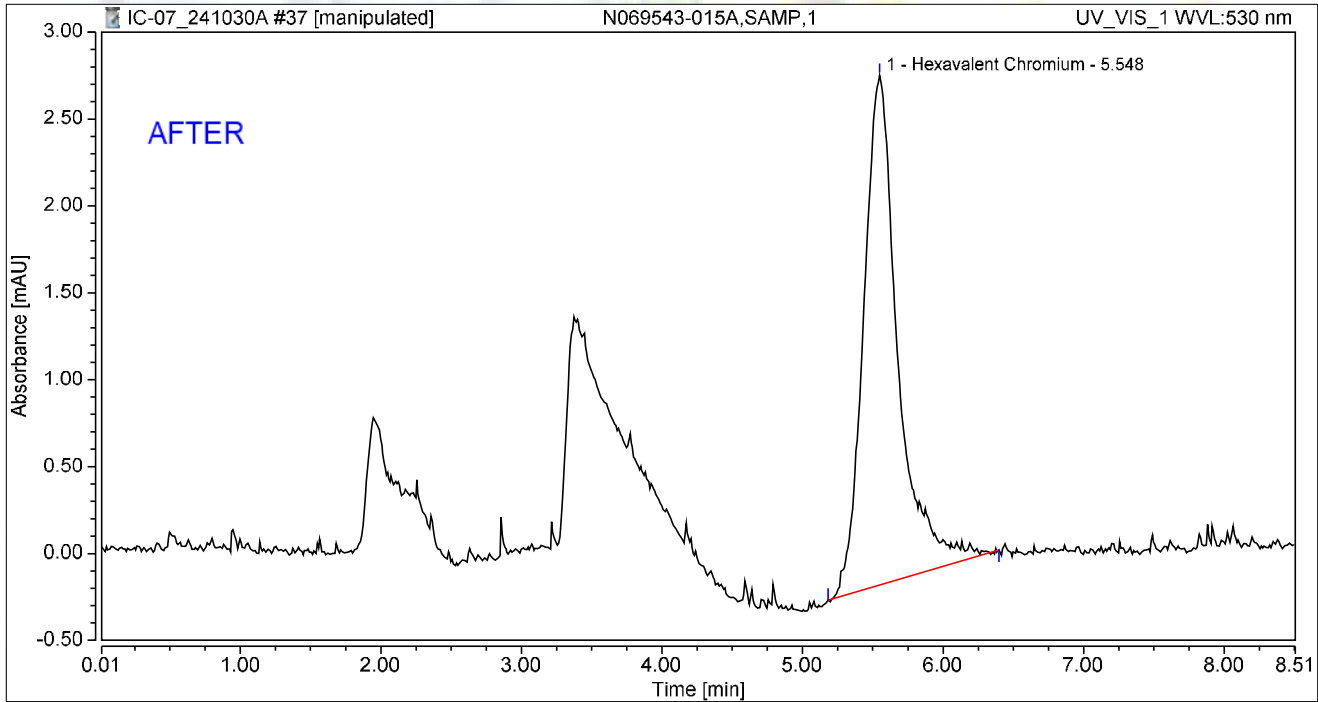
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-015A,SAMP,1	Run Time (min):	8.49
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 14:09	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.548	0.832	2.932	100.00	100.00	2.9317
Total:			0.832	2.932	100.00	100.00	

Reviewed by:

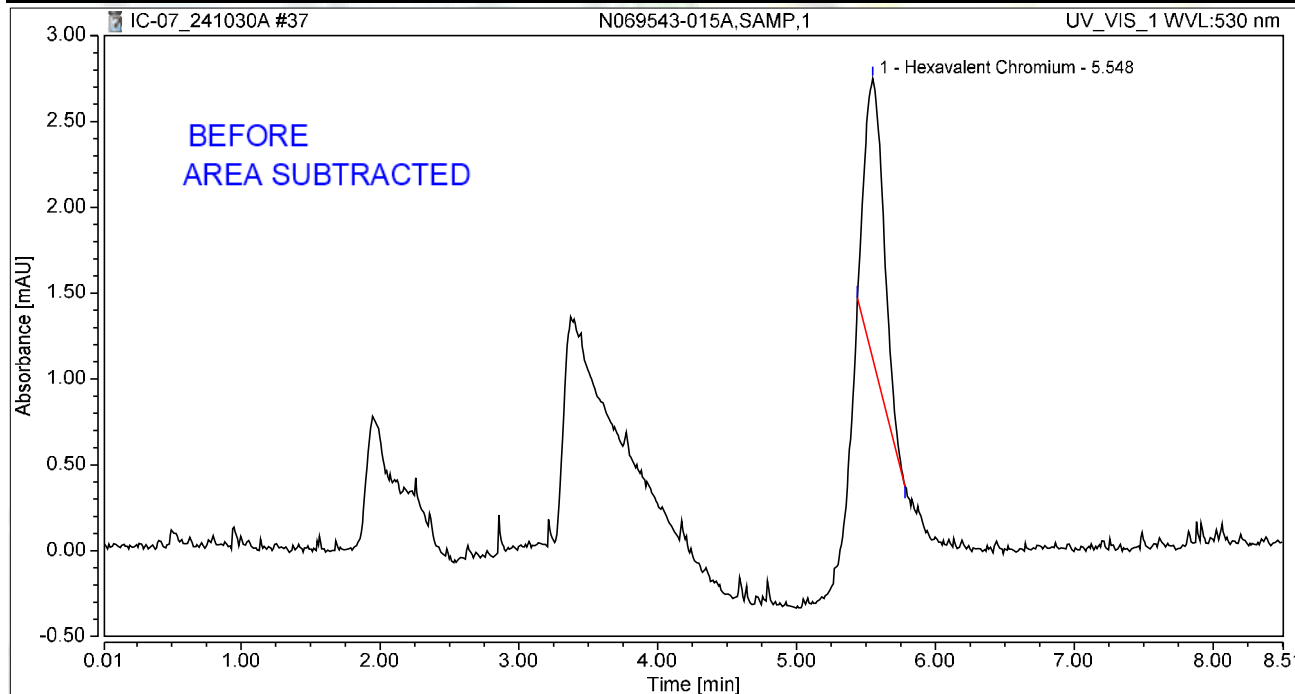
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Chromatogram and Results

Injection Details

Injection Name:	N069543-015A,SAMP,1	Run Time (min):	8.49
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 14:09	Sample Weight:	1.0000

Chromatogram



Integration Results

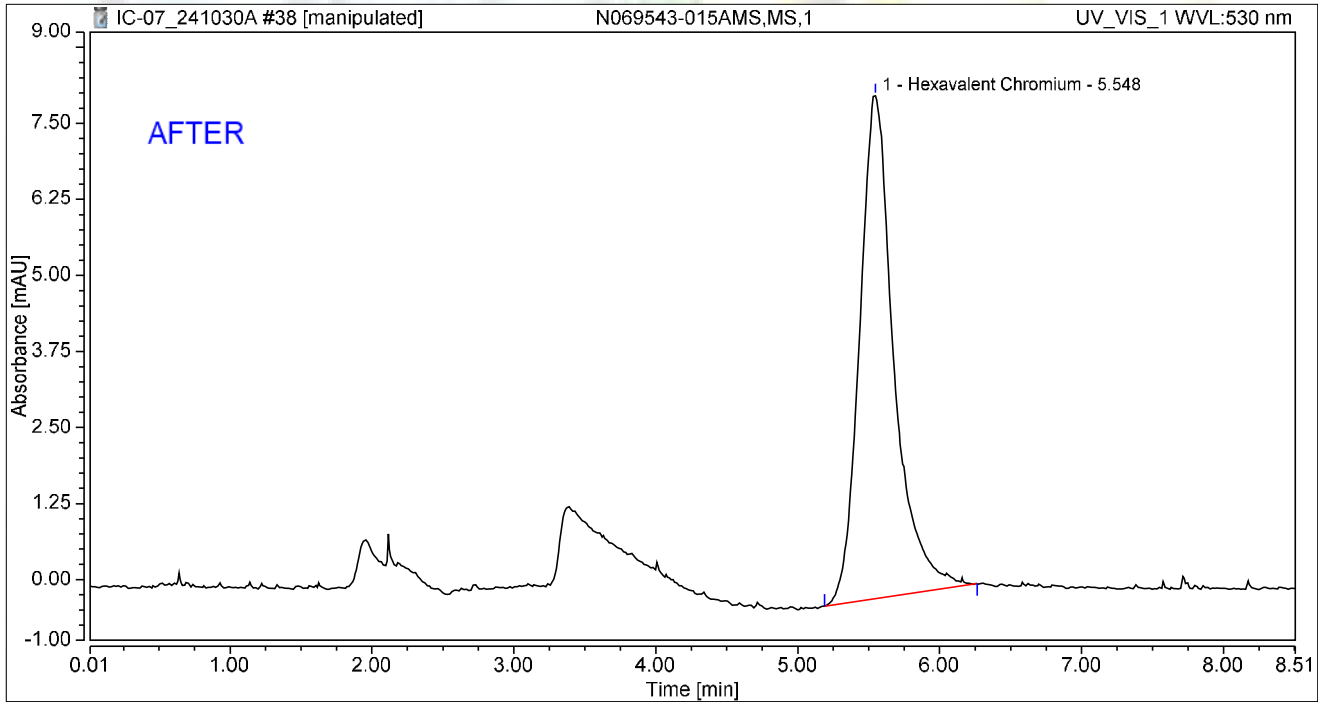
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.548	0.263	1.625	100.00	100.00	0.9272
Total:			0.263	1.625	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-015AMS,MS,1	Run Time (min):	8.49
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 14:19	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.548	2.314	8.269	100.00	100.00	8.1560
Total:			2.314	8.269	100.00	100.00	

Reviewed by:

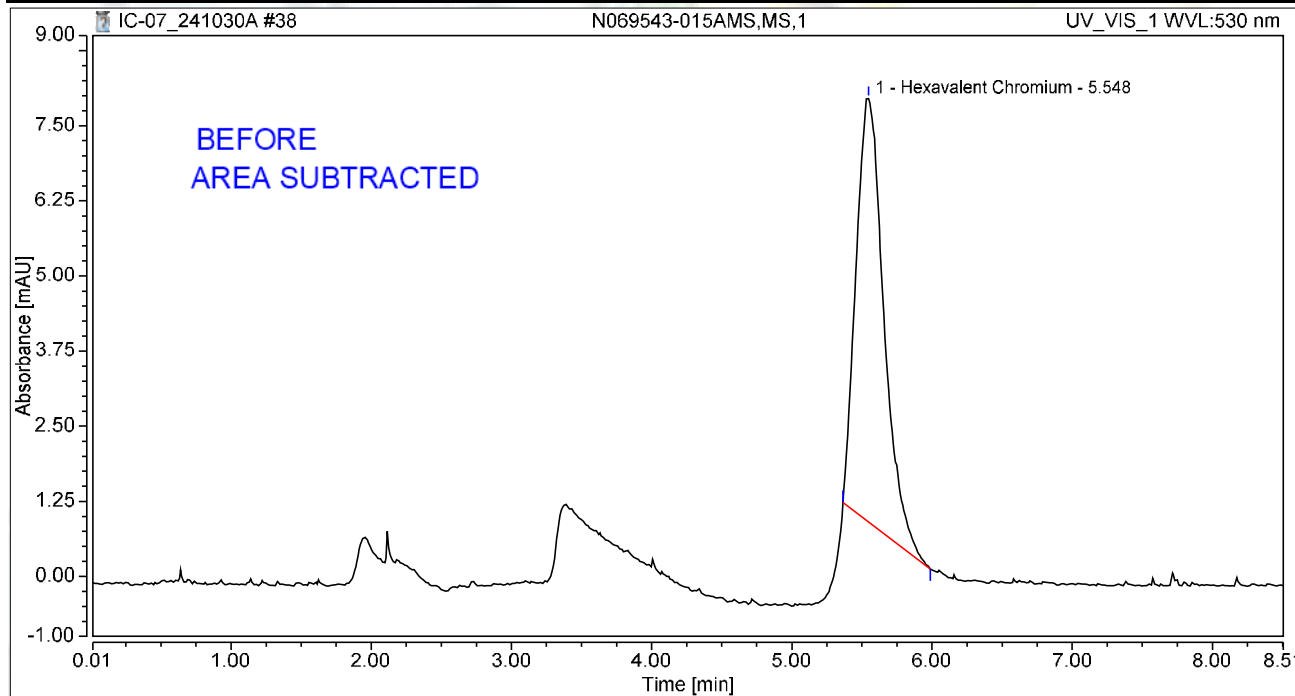
d/Recha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069543-015AMS,MS,1	Run Time (min):	8.49
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 14:19	Sample Weight:	1.0000

Chromatogram



Integration Results

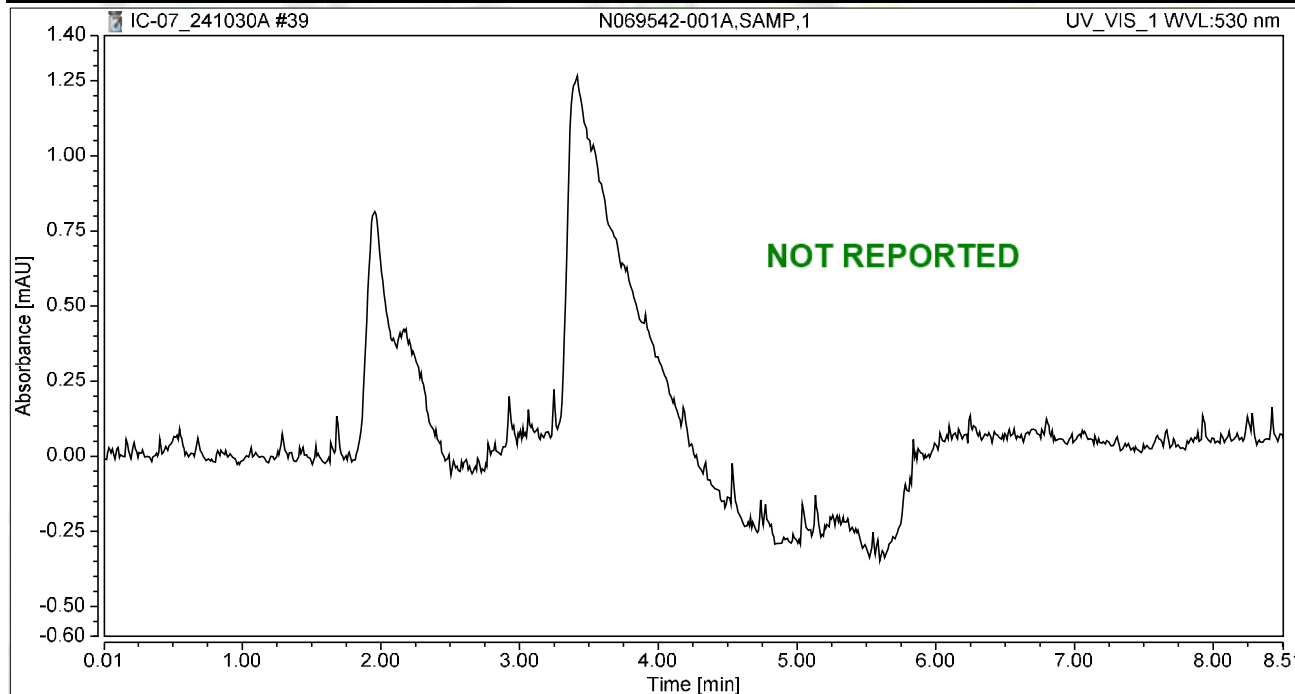
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.548	1.615	7.046	100.00	100.00	5.6928
Total:			1.615	7.046	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069542-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 14:28	Sample Weight:	1.0000

Chromatogram



Integration Results

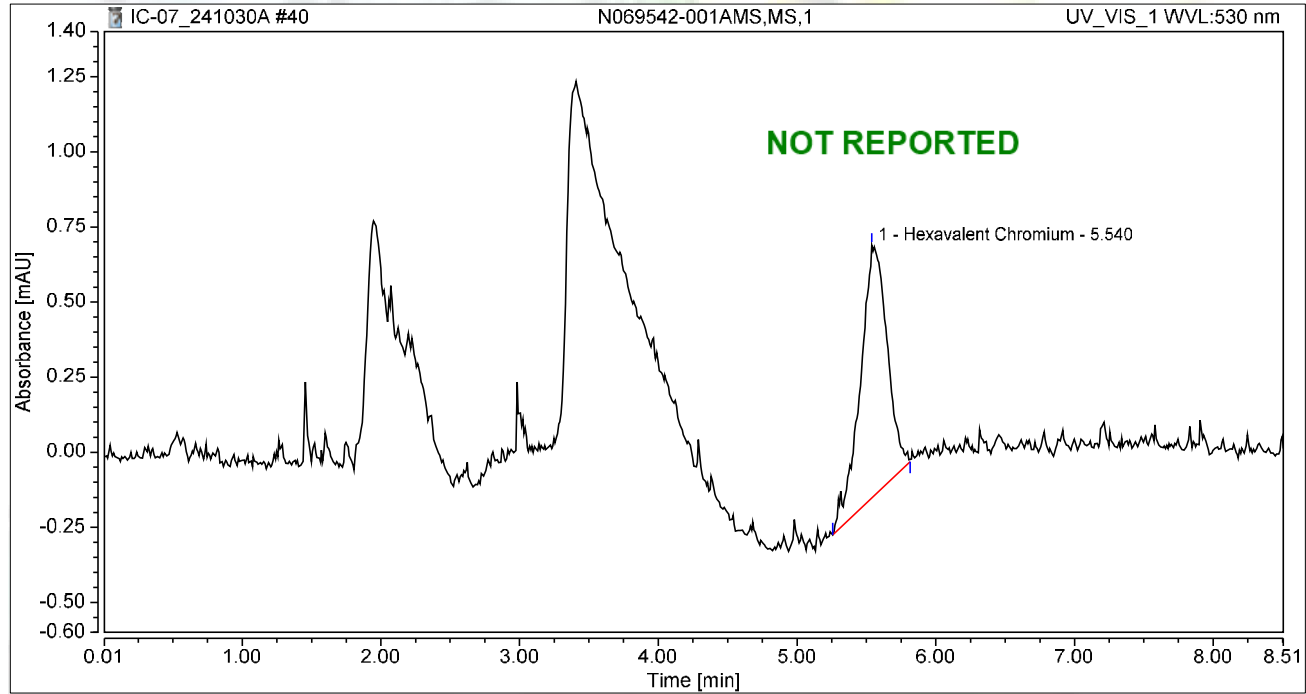
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069542-001AMS,MS,1	Run Time (min):	8.50
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 14:38	Sample Weight:	1.0000

Chromatogram



Integration Results

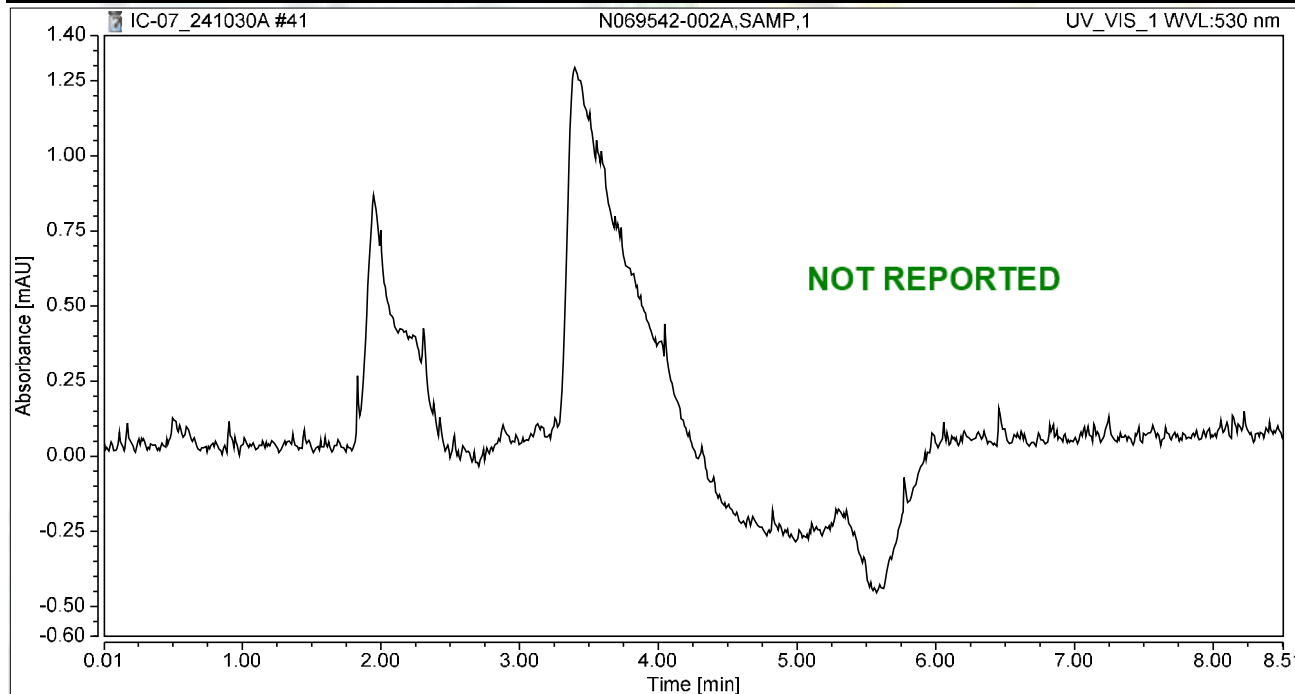
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.540	0.187	0.840	100.00	100.00	0.6579
Total:			0.187	0.840	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069542-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 14:47	Sample Weight:	1.0000

Chromatogram



Integration Results

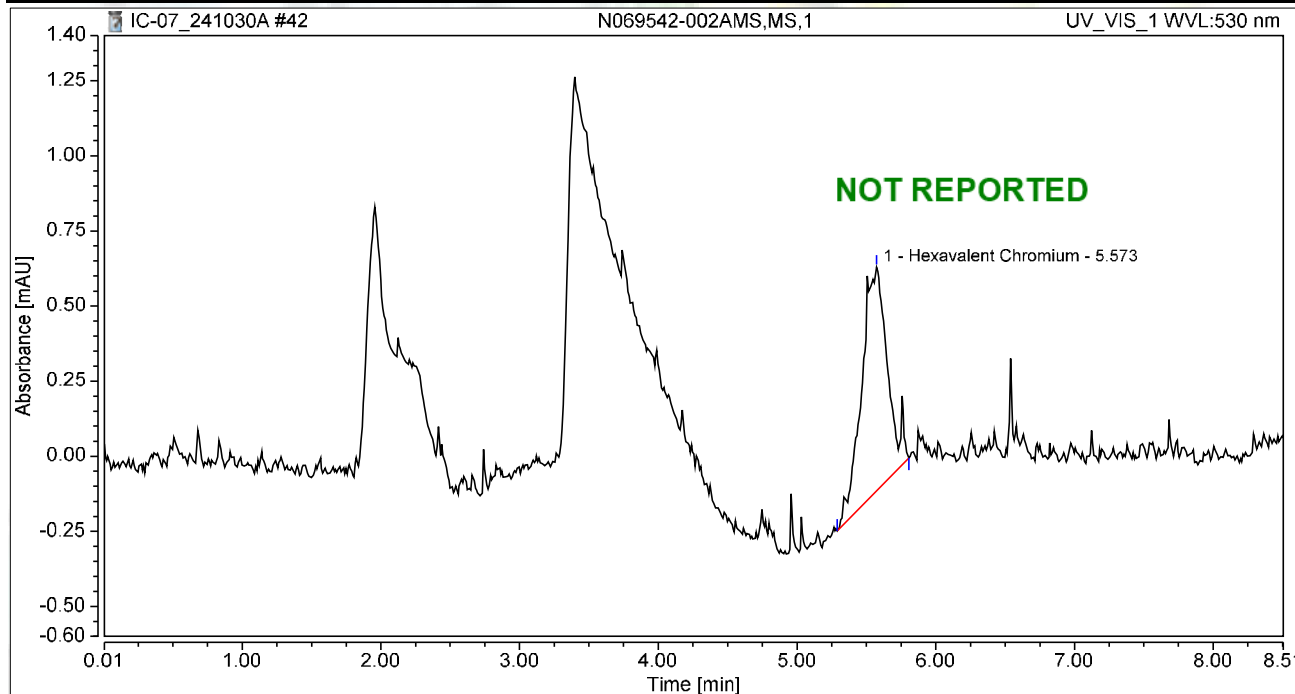
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069542-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 14:57	Sample Weight:	1.0000

Chromatogram



Integration Results

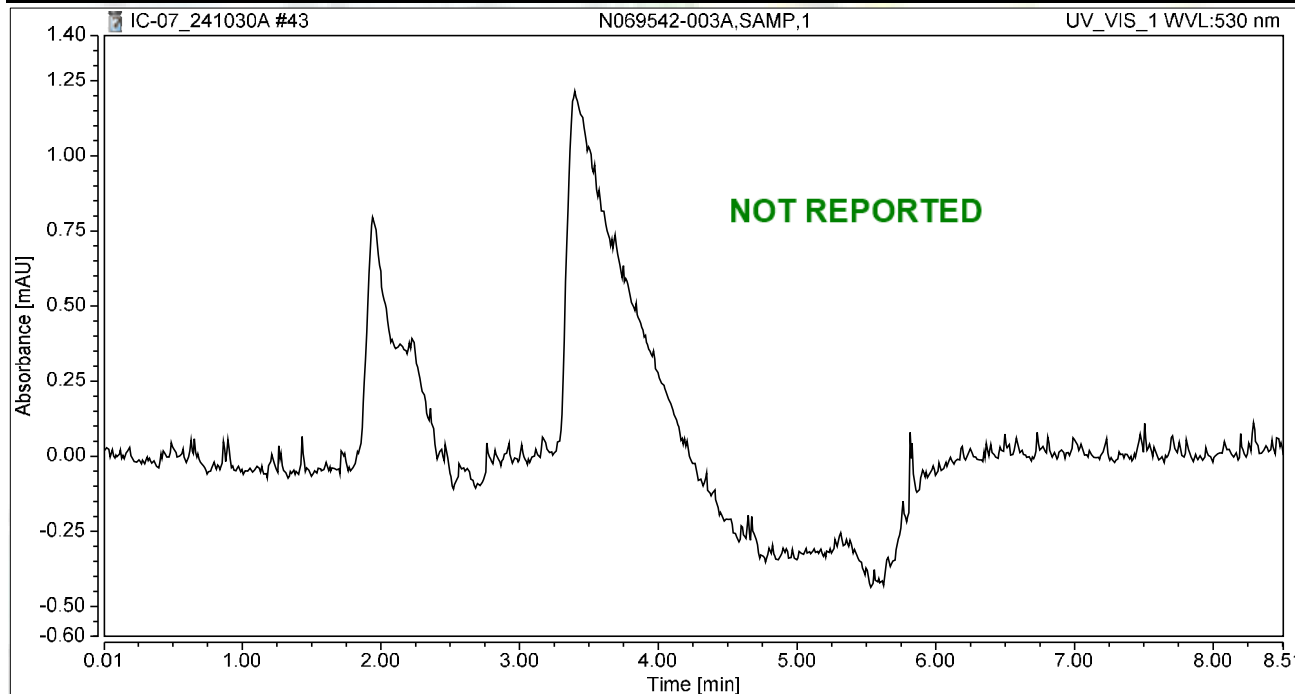
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.573	0.161	0.745	100.00	100.00	0.5670
Total:			0.161	0.745	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069542-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 15:06	Sample Weight:	1.0000

Chromatogram



Integration Results

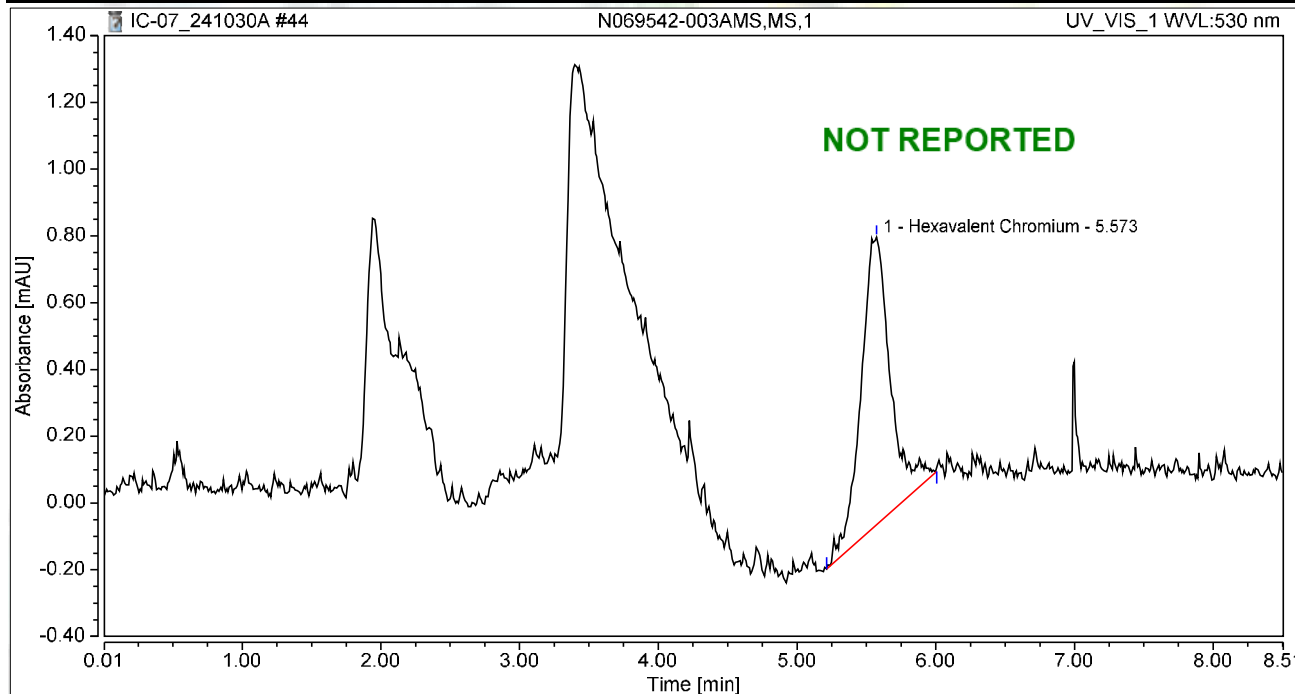
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069542-003AMS,MS,1	Run Time (min):	8.50
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 15:16	Sample Weight:	1.0000

Chromatogram



Integration Results

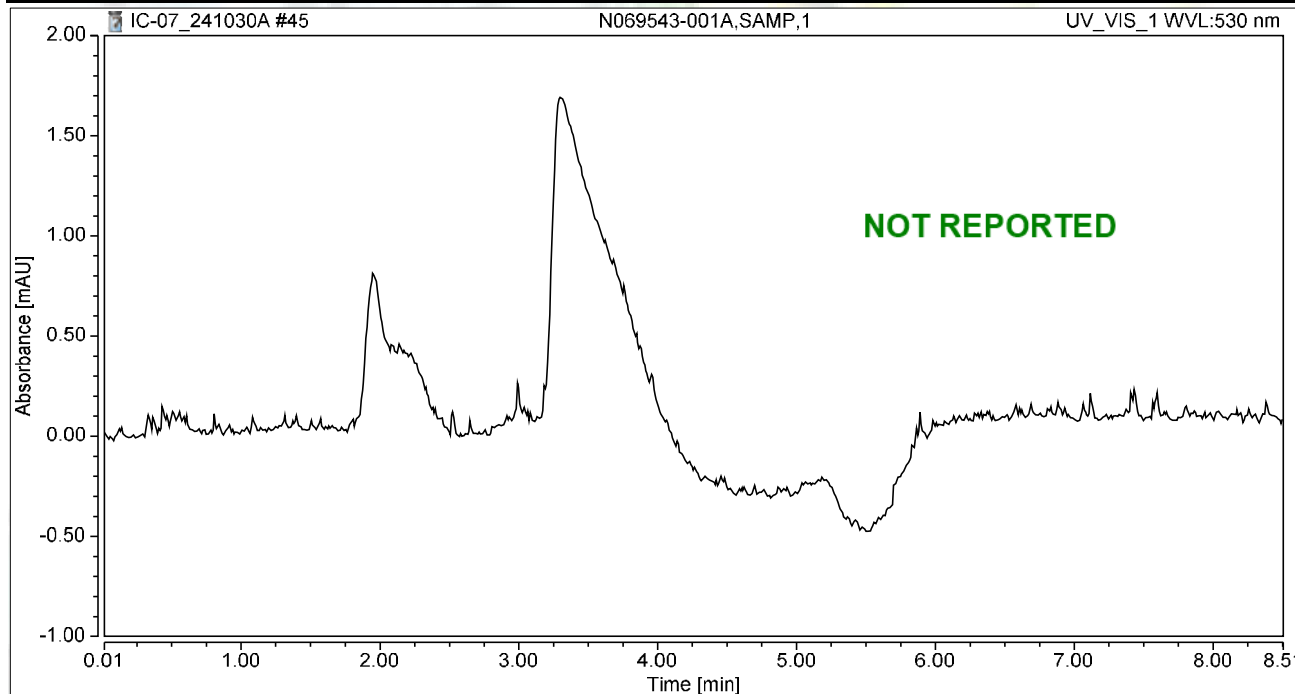
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.573	0.212	0.861	100.00	100.00	0.7484
Total:			0.212	0.861	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-001A,SAMP,1	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 15:26	Sample Weight:	1.0000

Chromatogram



Integration Results

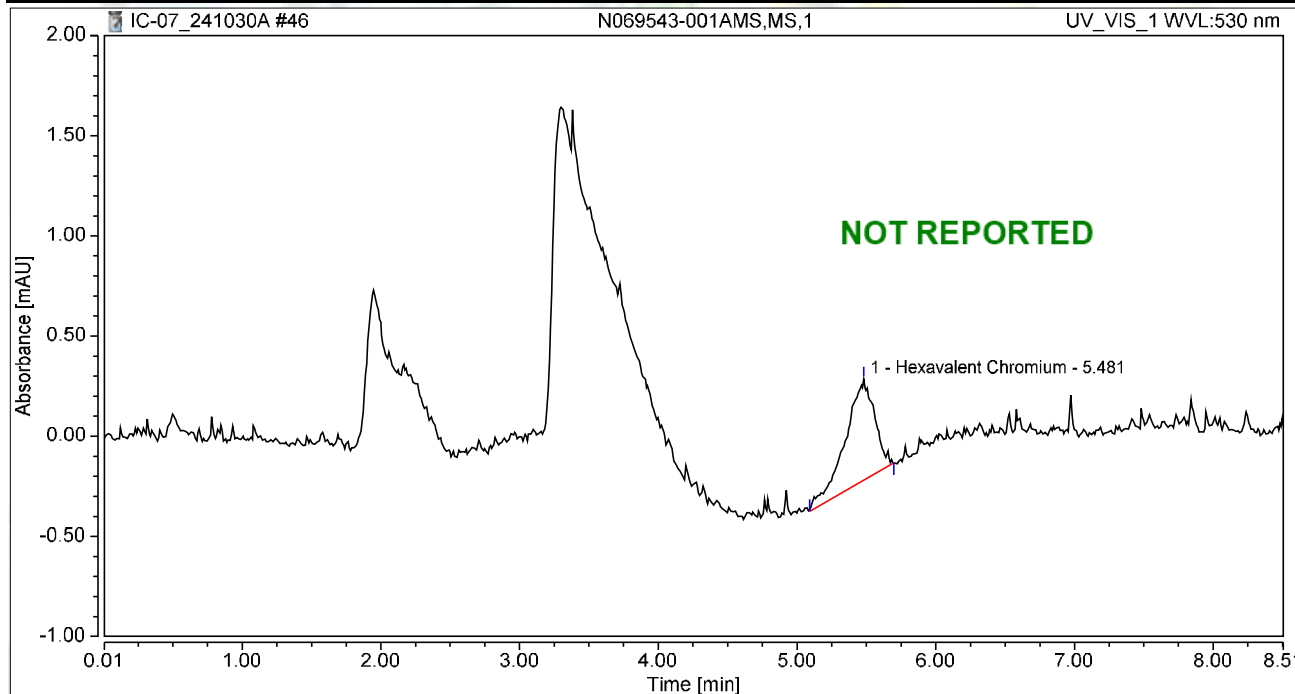
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-001AMS,MS,1	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 15:37	Sample Weight:	1.0000

Chromatogram



Integration Results

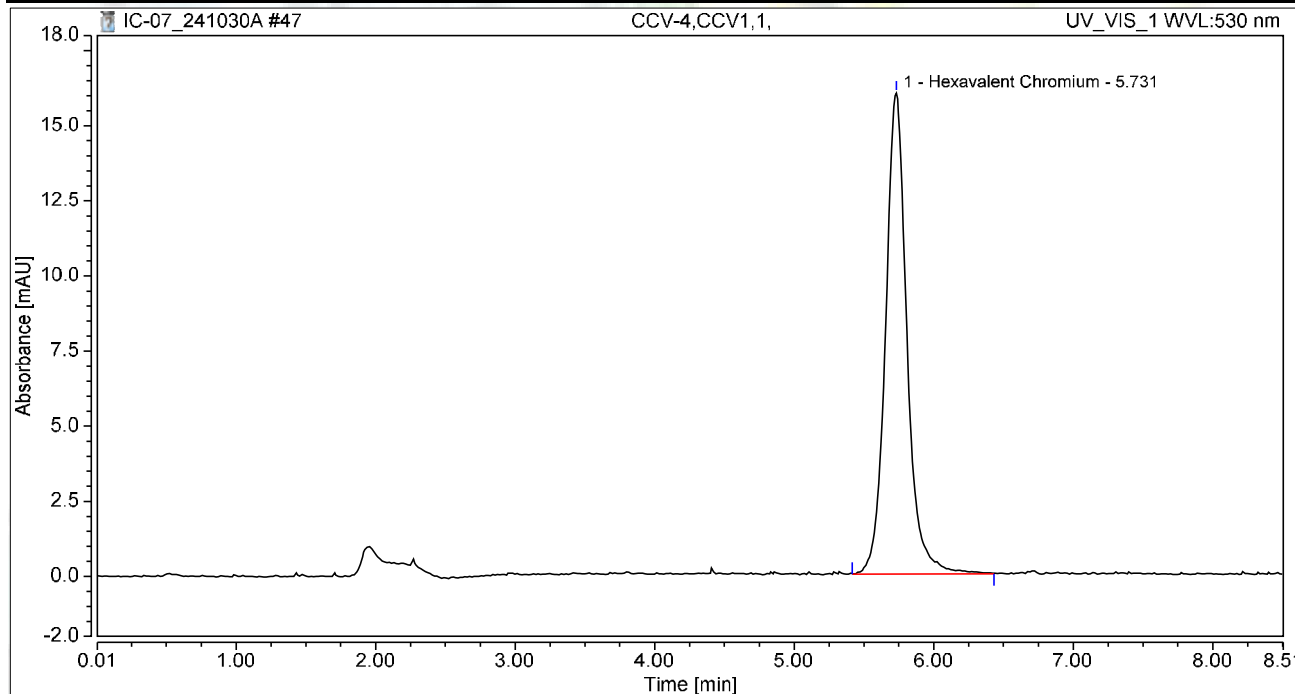
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.481	0.124	0.506	100.00	100.00	0.4362
Total:			0.124	0.506	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-4,CCV1,1,	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 15:46	Sample Weight:	1.0000

Chromatogram



Integration Results

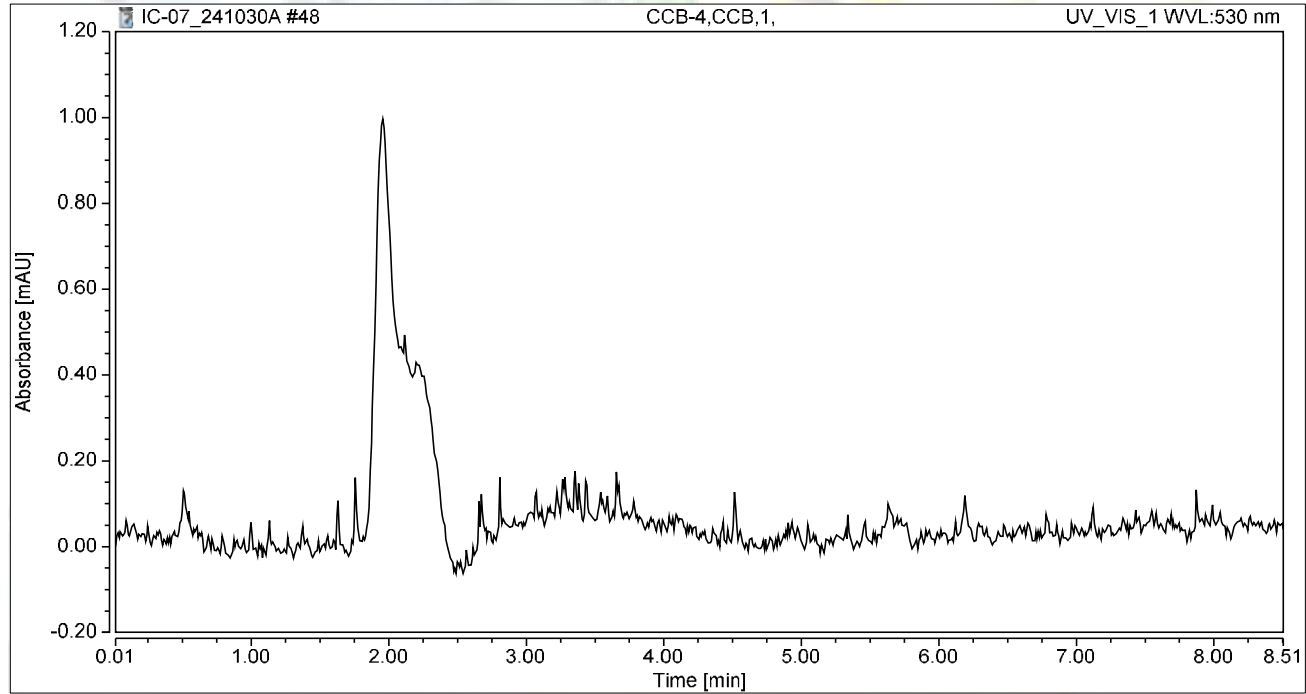
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	2.839	16.010	100.00	100.00	10.0065
Total:			2.839	16.010	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-4,CCB,1,	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 15:56	Sample Weight:	1.0000

Chromatogram



Integration Results

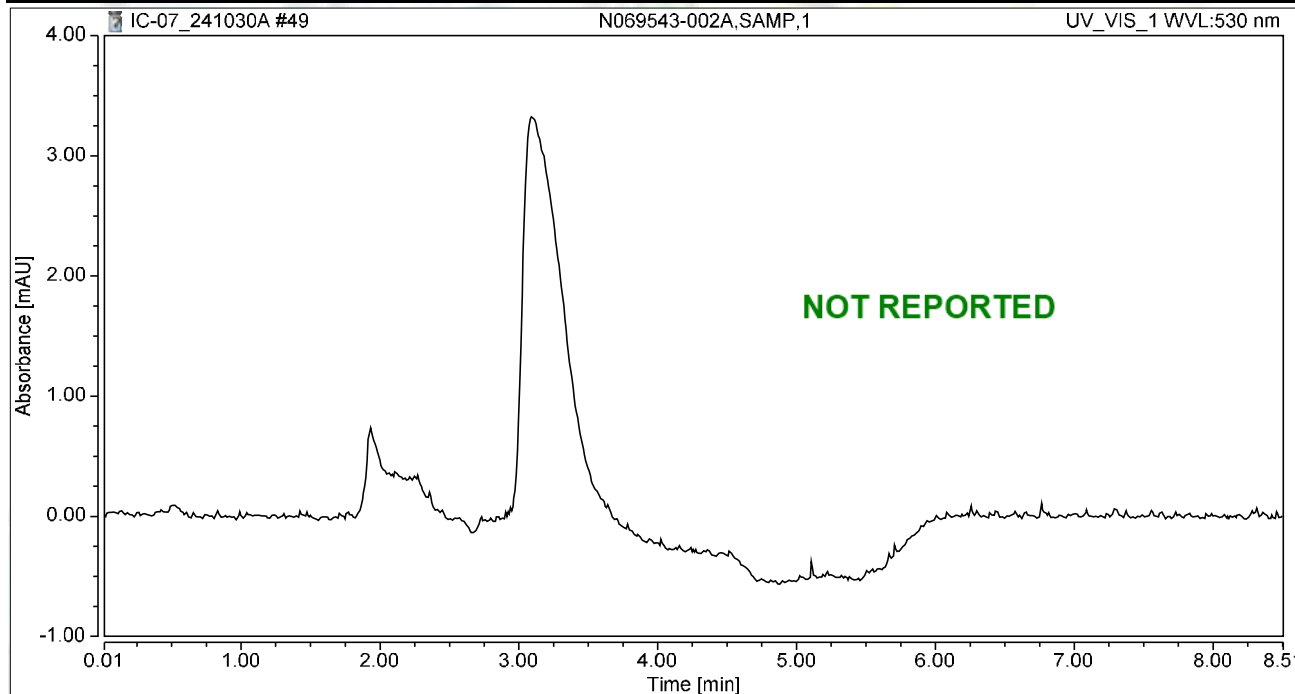
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-002A,SAMP,1	Run Time (min):	8.49
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 16:05	Sample Weight:	1.0000

Chromatogram



Integration Results

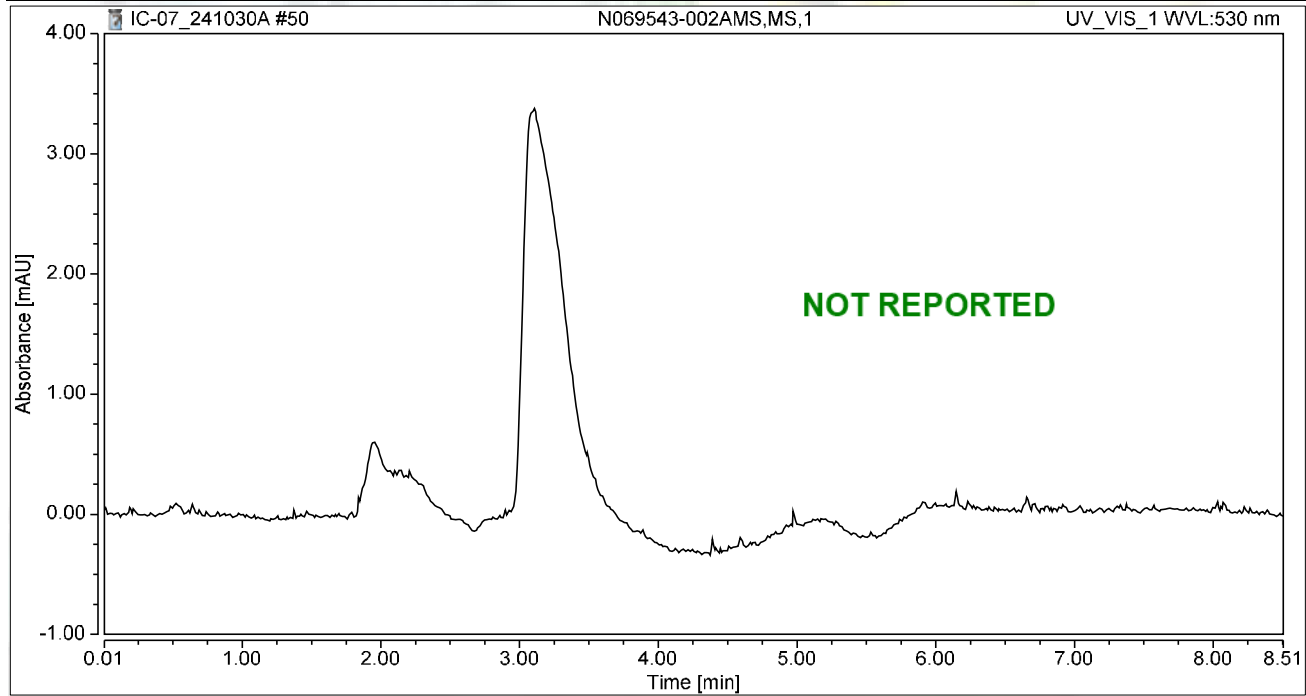
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 16:14	Sample Weight:	1.0000

Chromatogram



Integration Results

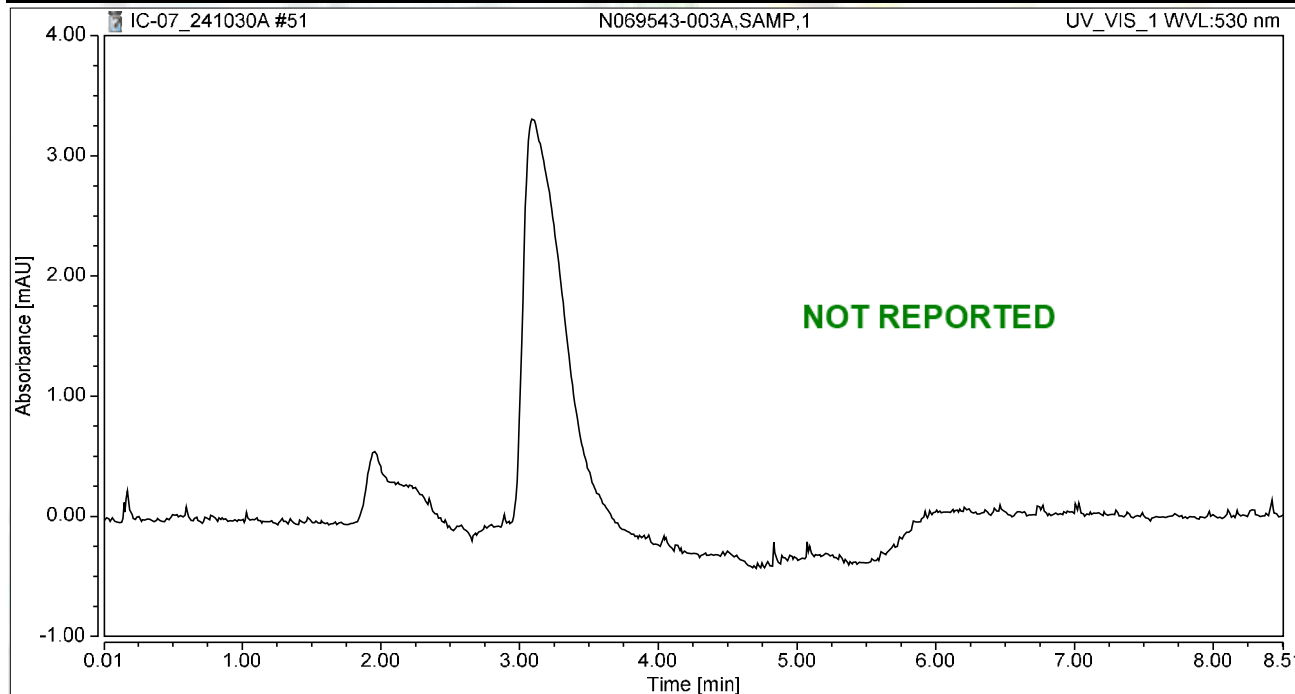
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 16:24	Sample Weight:	1.0000

Chromatogram



Integration Results

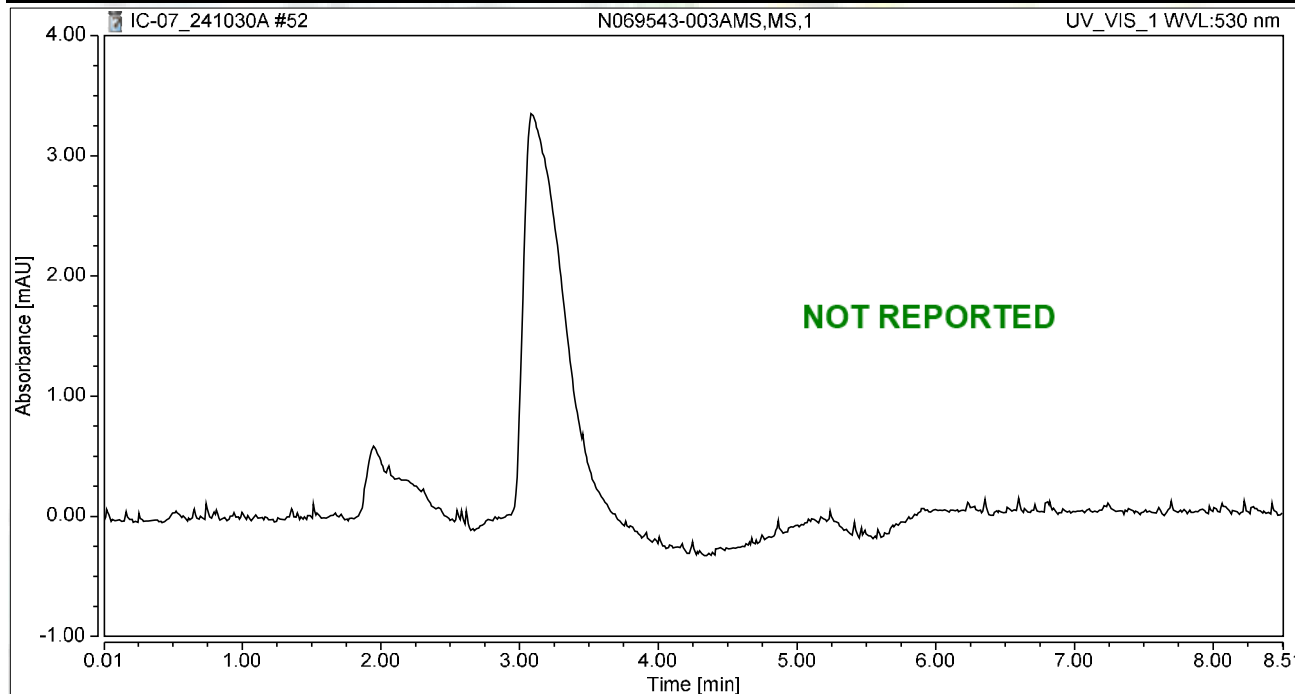
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-003AMS,MS,1	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 16:33	Sample Weight:	1.0000

Chromatogram



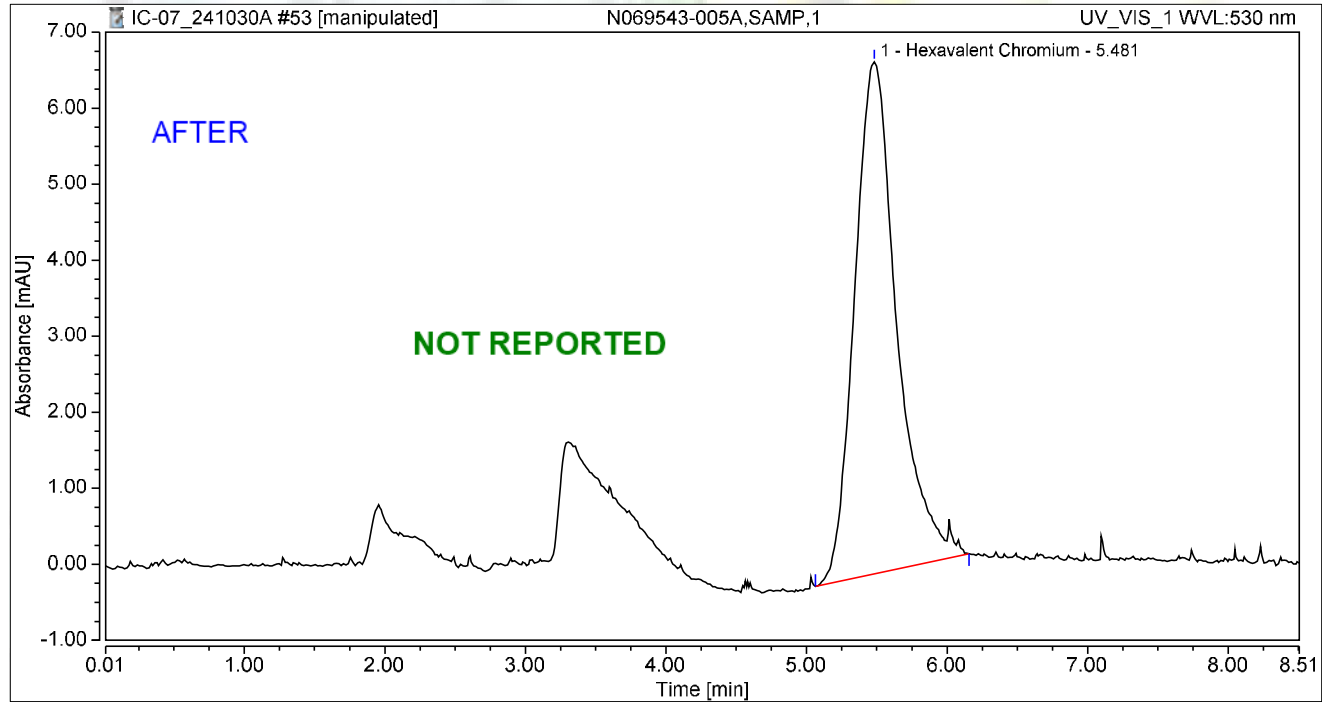
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069543-005A,SAMP,1	Run Time (min): 8.49
Vial Number:	9	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	30/Oct/24 16:43	Sample Weight: 1.0000

Chromatogram



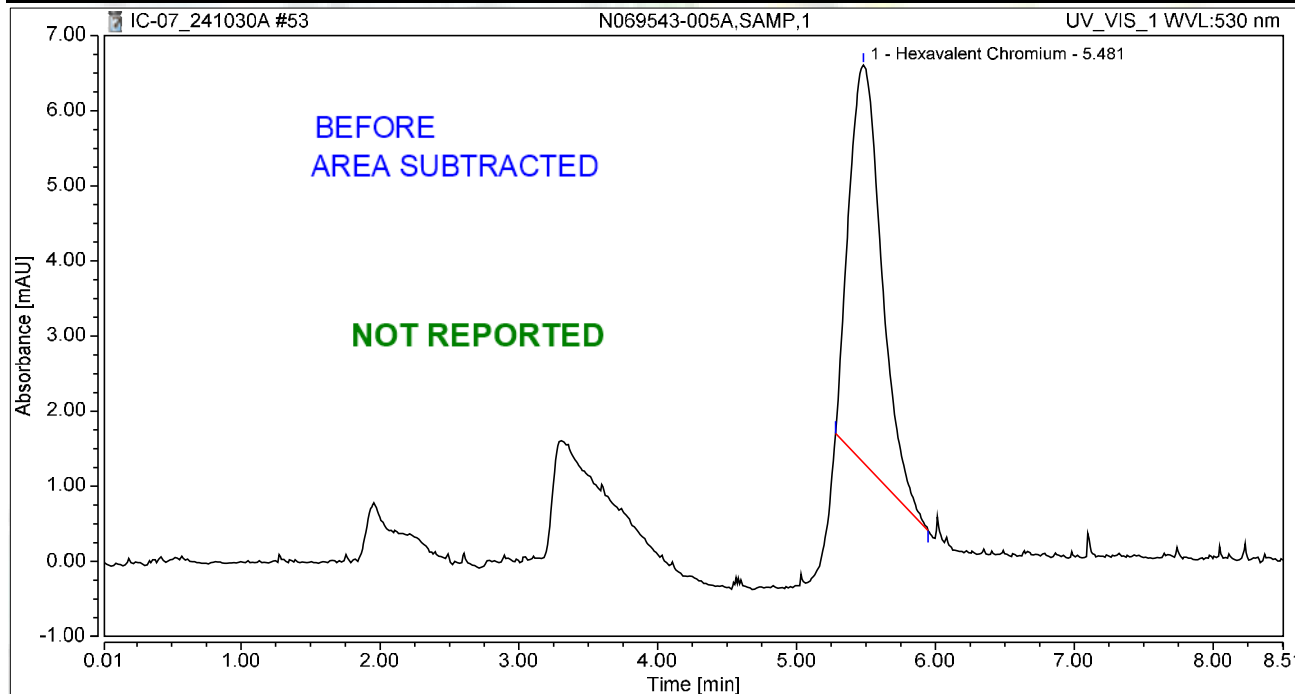
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.481	2.351	6.734	100.00	100.00	8.2849
Total:			2.351	6.734	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-005A,SAMP,1	Run Time (min):	8.49
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 16:43	Sample Weight:	1.0000

Chromatogram



Integration Results

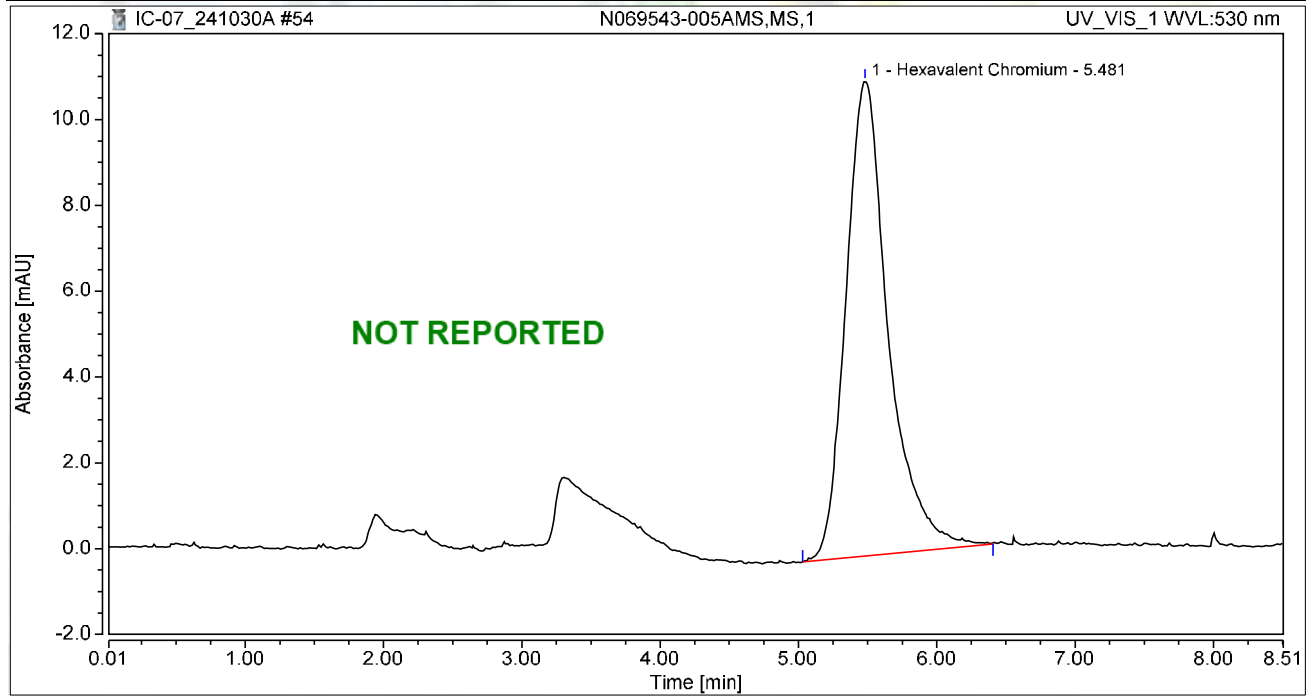
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.481	1.448	5.290	100.00	100.00	5.1018
Total:			1.448	5.290	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-005AMS,MS,1	Run Time (min):	8.49
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 16:52	Sample Weight:	1.0000

Chromatogram



Integration Results

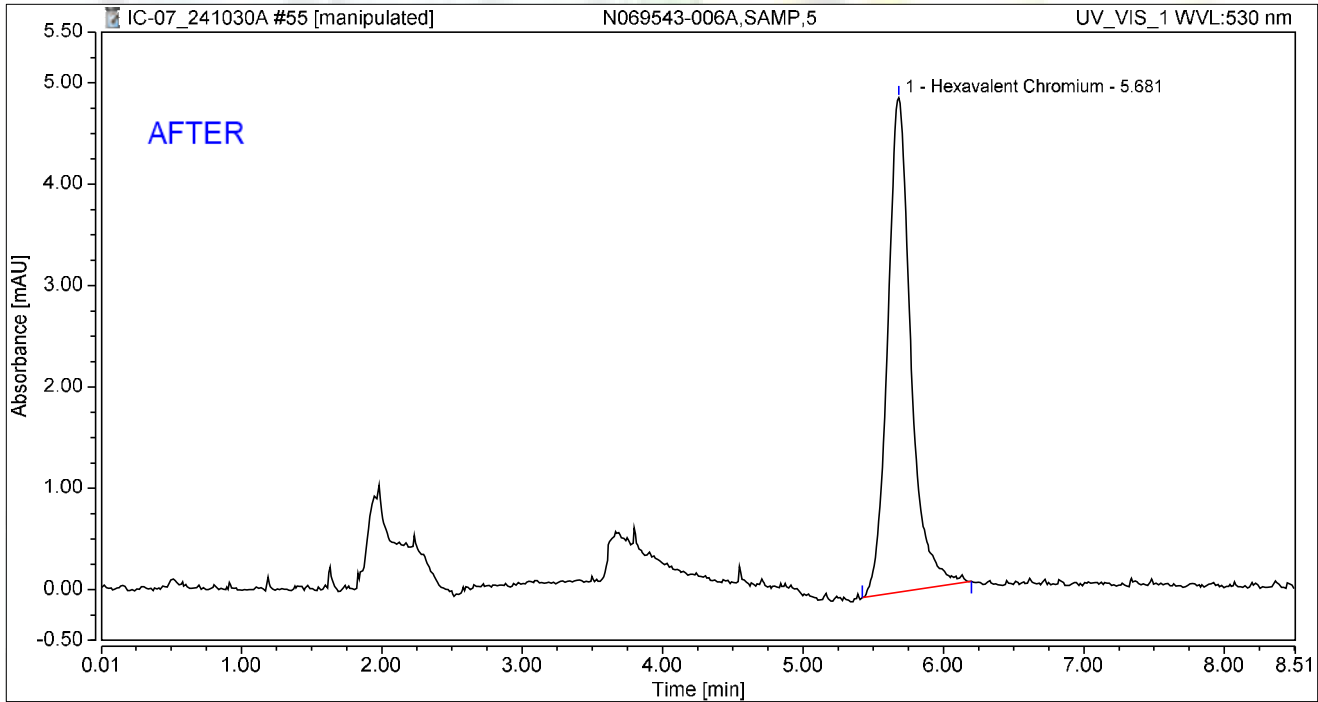
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.481	3.932	11.071	100.00	100.00	13.8578
Total:			3.932	11.071	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-006A,SAMP,5	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 17:02	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.935	4.876	100.00	100.00	3.2939
Total:			0.935	4.876	100.00	100.00	

Reviewed by:

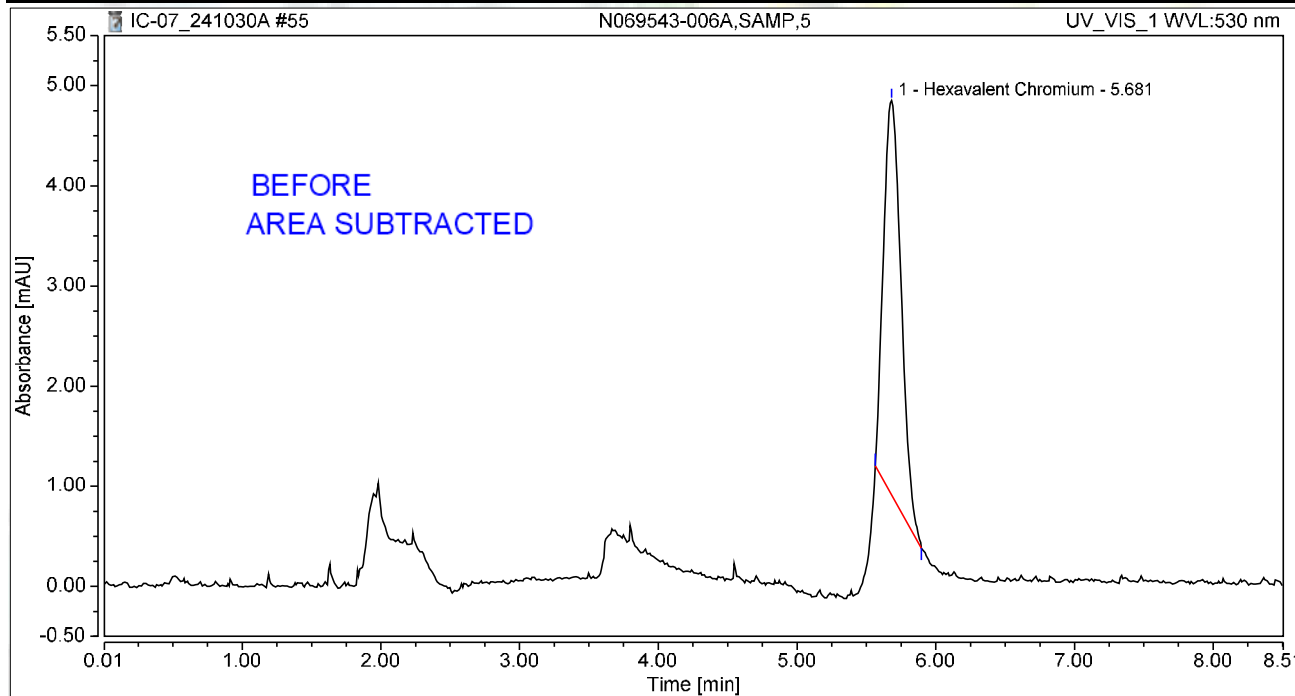
d/Rocha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069543-006A,SAMP,5	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 17:02	Sample Weight:	1.0000

Chromatogram



Integration Results

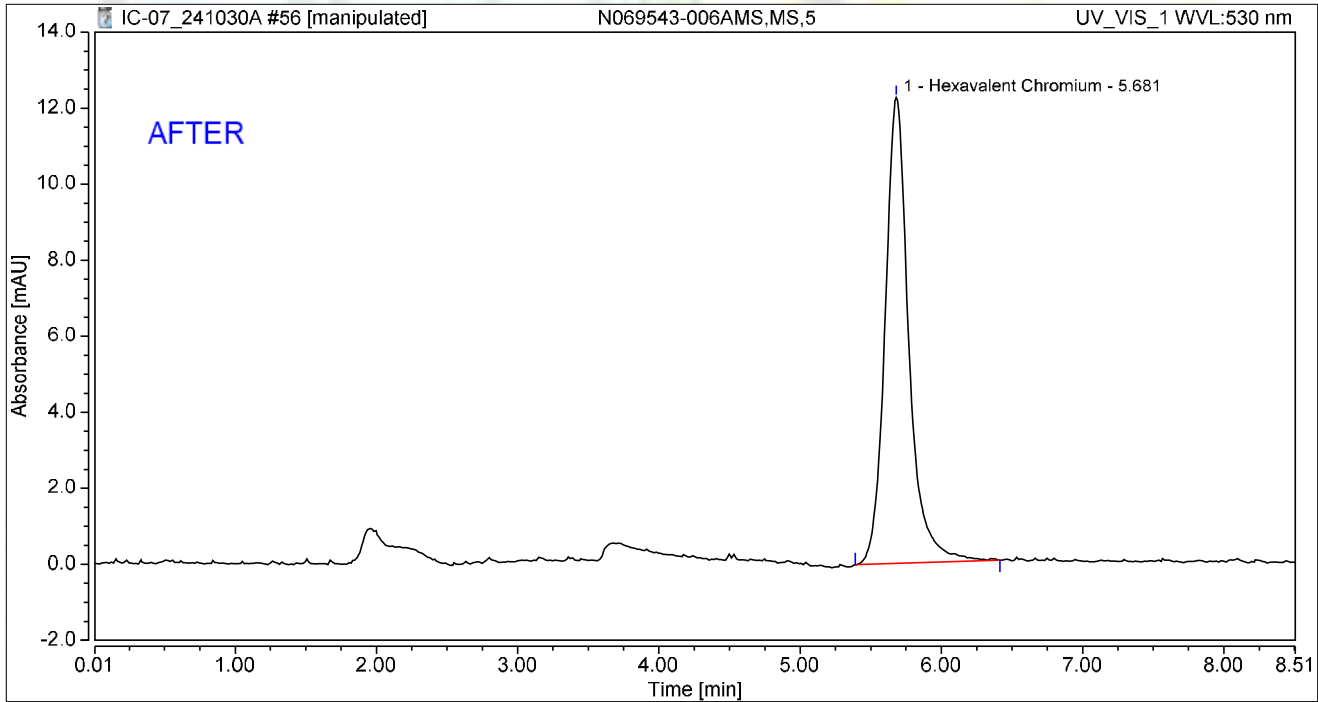
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.580	3.933	100.00	100.00	2.0435
Total:			0.580	3.933	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-006AMS,MS,5	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 17:11	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	2.384	12.255	100.00	100.00	8.4006
Total:			2.384	12.255	100.00	100.00	

Reviewed by:

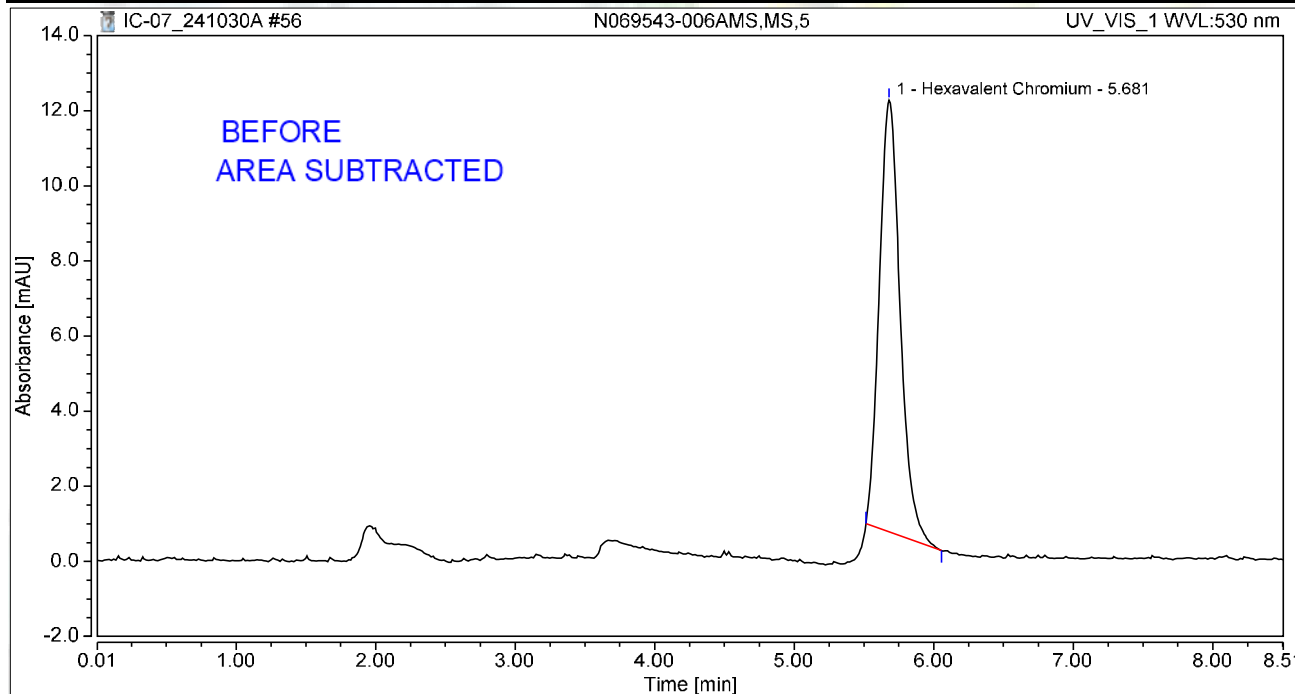
d/Rocha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069543-006AMS,MS,5	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 17:11	Sample Weight:	1.0000

Chromatogram



Integration Results

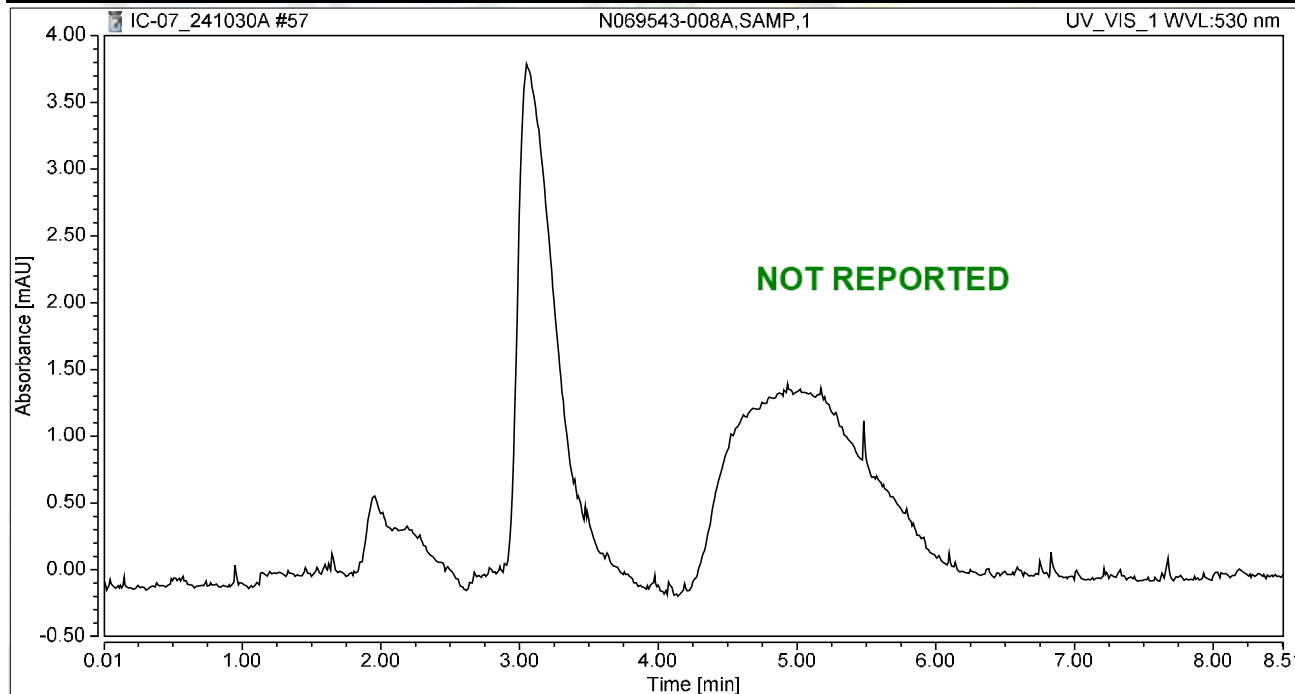
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	1.991	11.495	100.00	100.00	7.0176
Total:			1.991	11.495	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-008A,SAMP,1	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 17:21	Sample Weight:	1.0000

Chromatogram



Integration Results

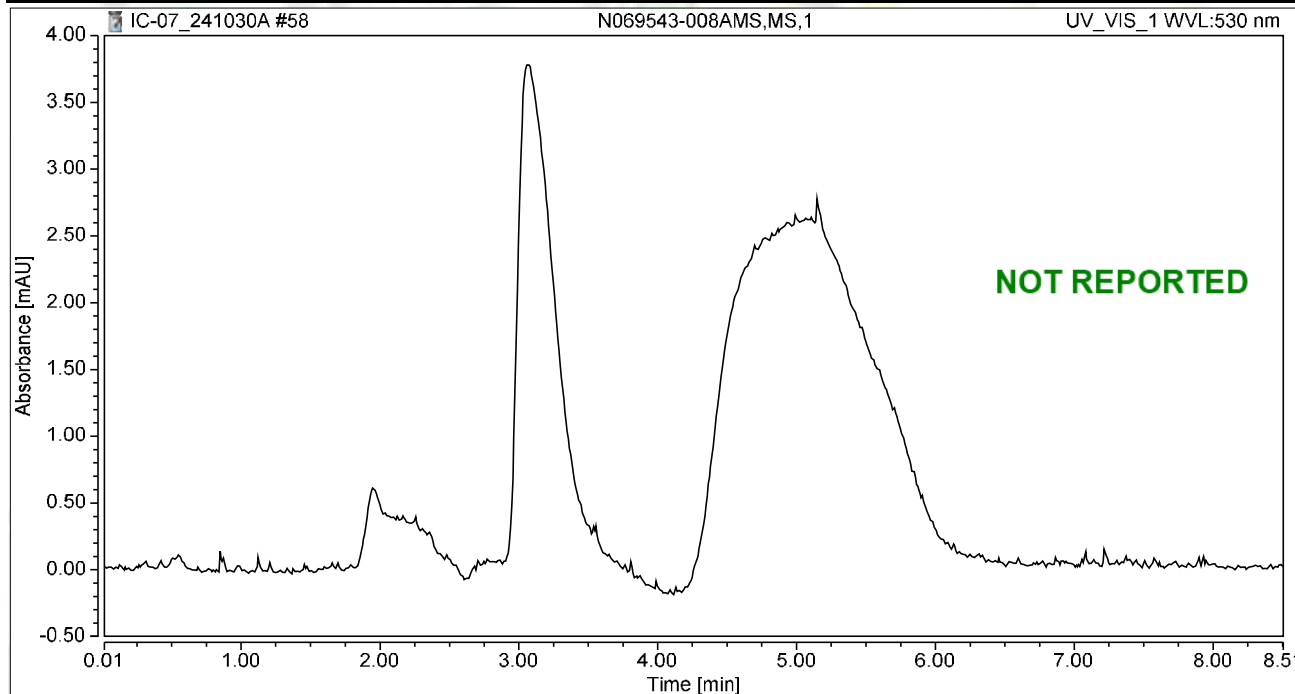
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-008AMS,MS,1	Run Time (min):	8.49
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 17:30	Sample Weight:	1.0000

Chromatogram



Integration Results

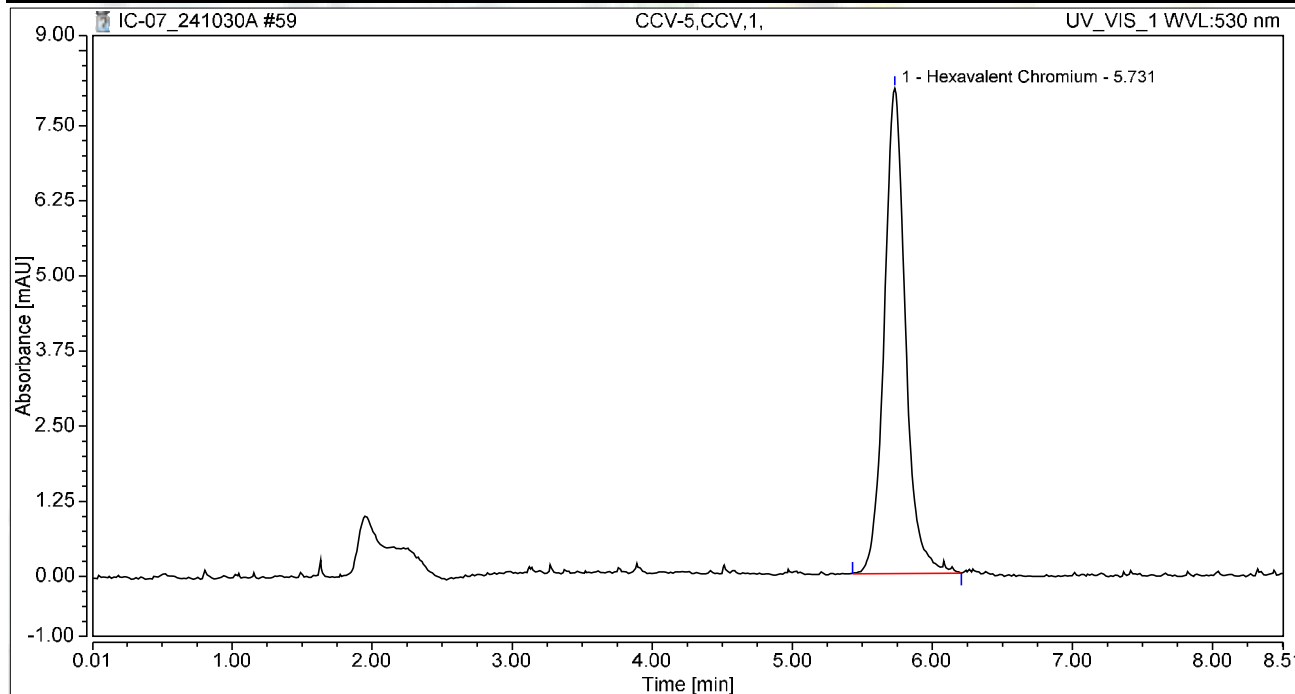
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 17:40	Sample Weight:	1.0000

Chromatogram



Integration Results

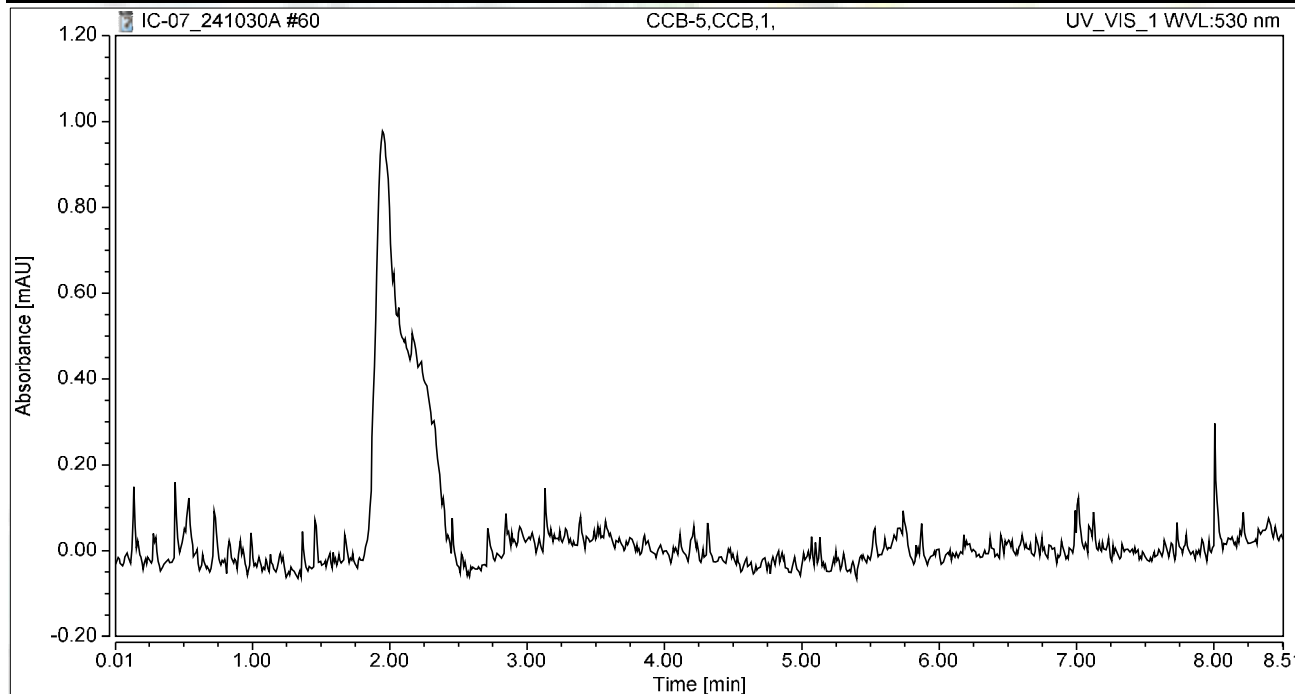
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	1.422	8.077	100.00	100.00	5.0118
Total:			1.422	8.077	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 17:49	Sample Weight:	1.0000

Chromatogram



Integration Results

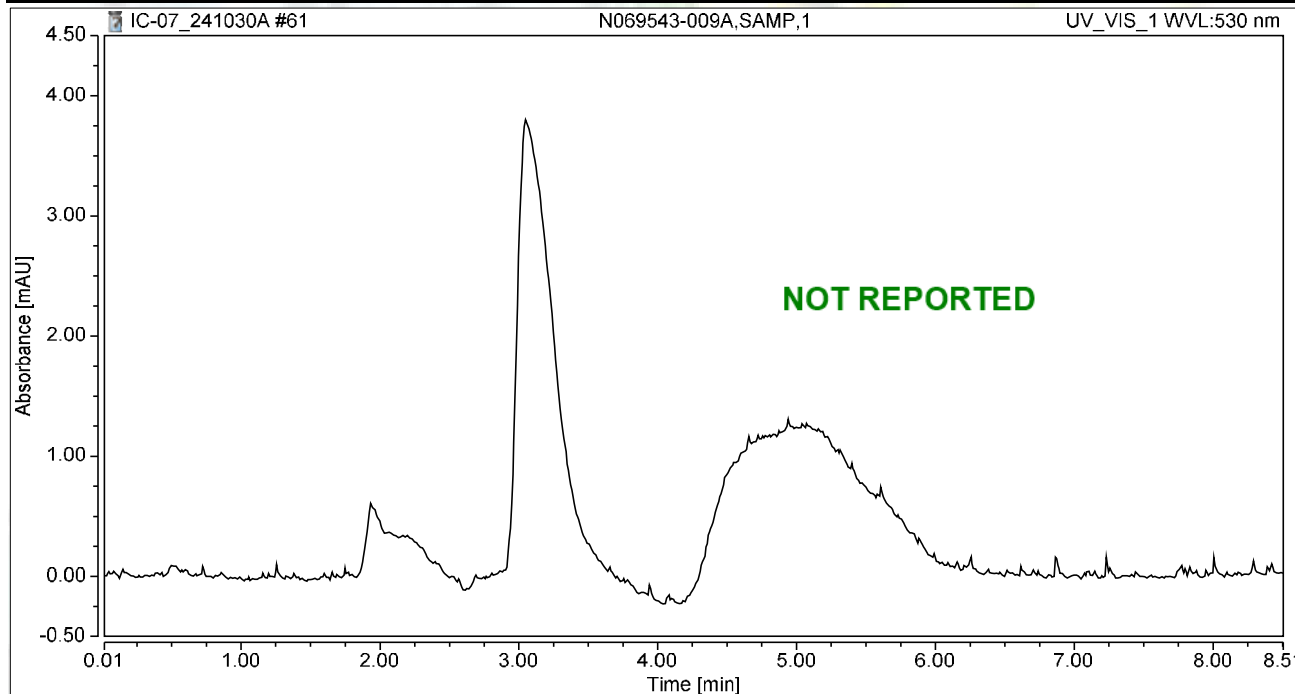
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-009A,SAMP,1	Run Time (min):	8.49
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 17:59	Sample Weight:	1.0000

Chromatogram



Integration Results

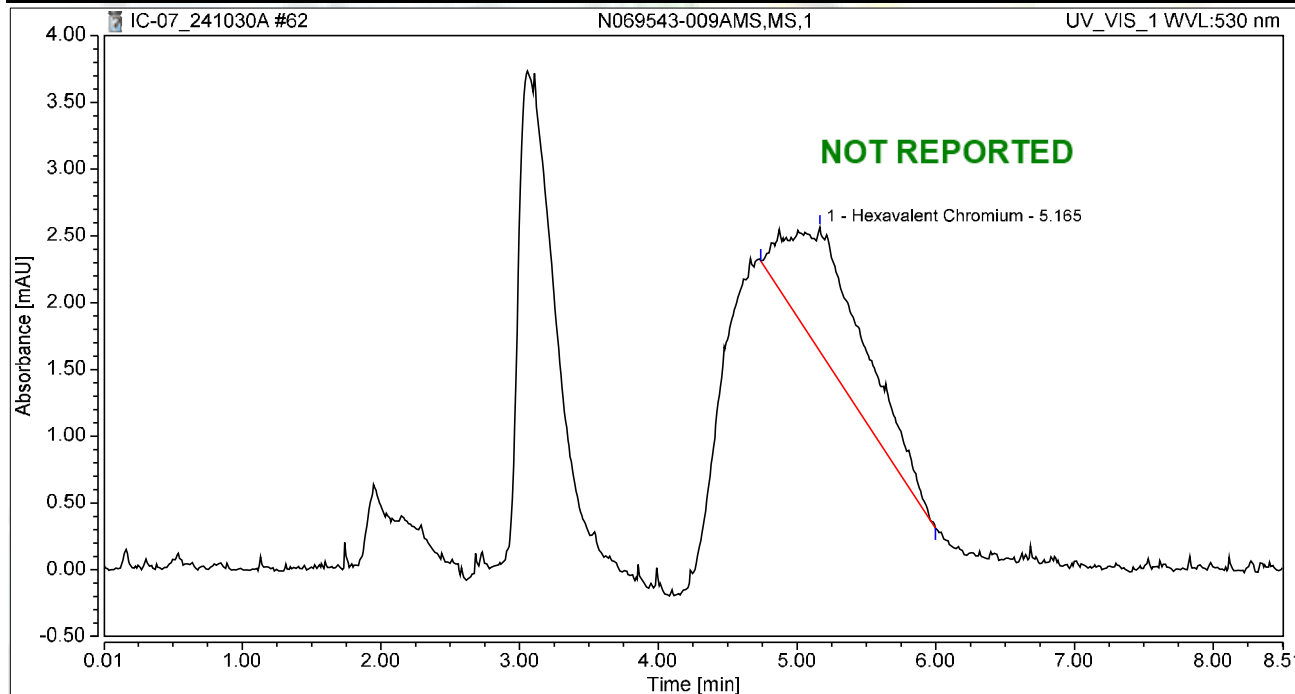
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-009AMS,MS,1	Run Time (min):	8.50
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 18:08	Sample Weight:	1.0000

Chromatogram



Integration Results

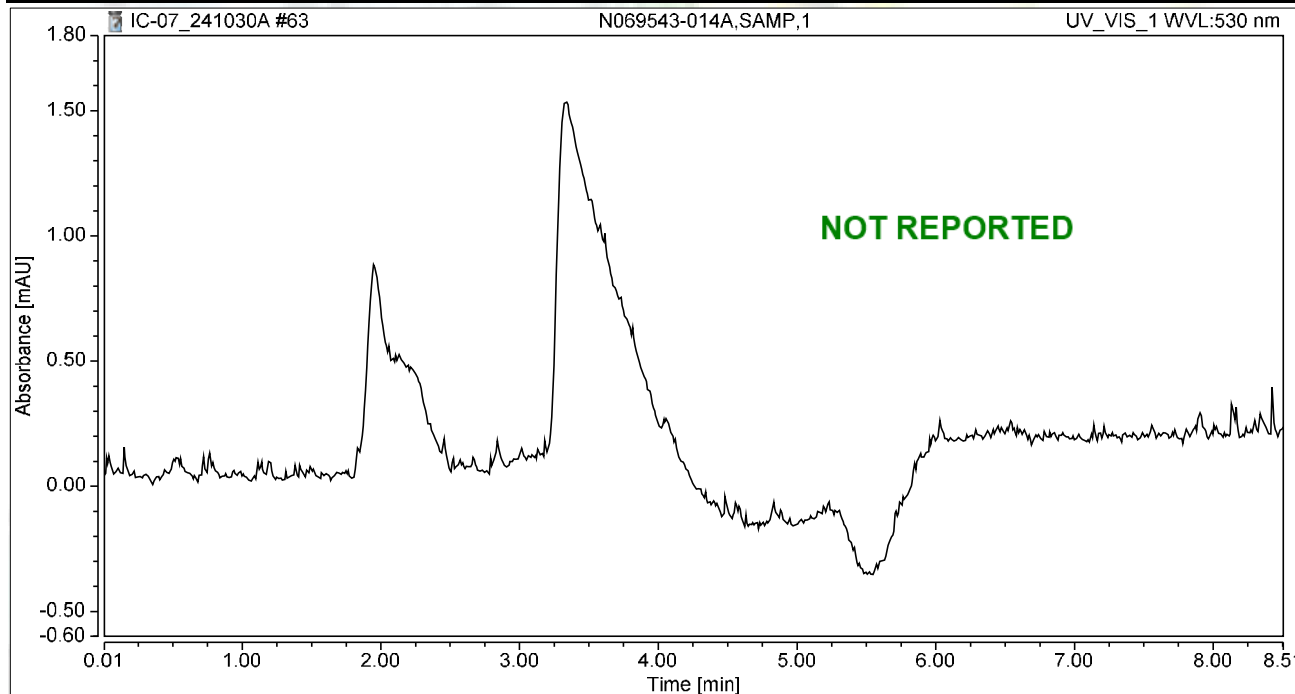
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.165	0.597	0.928	100.00	100.00	2.1037
Total:			0.597	0.928	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-014A,SAMP,1	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 18:17	Sample Weight:	1.0000

Chromatogram



Integration Results

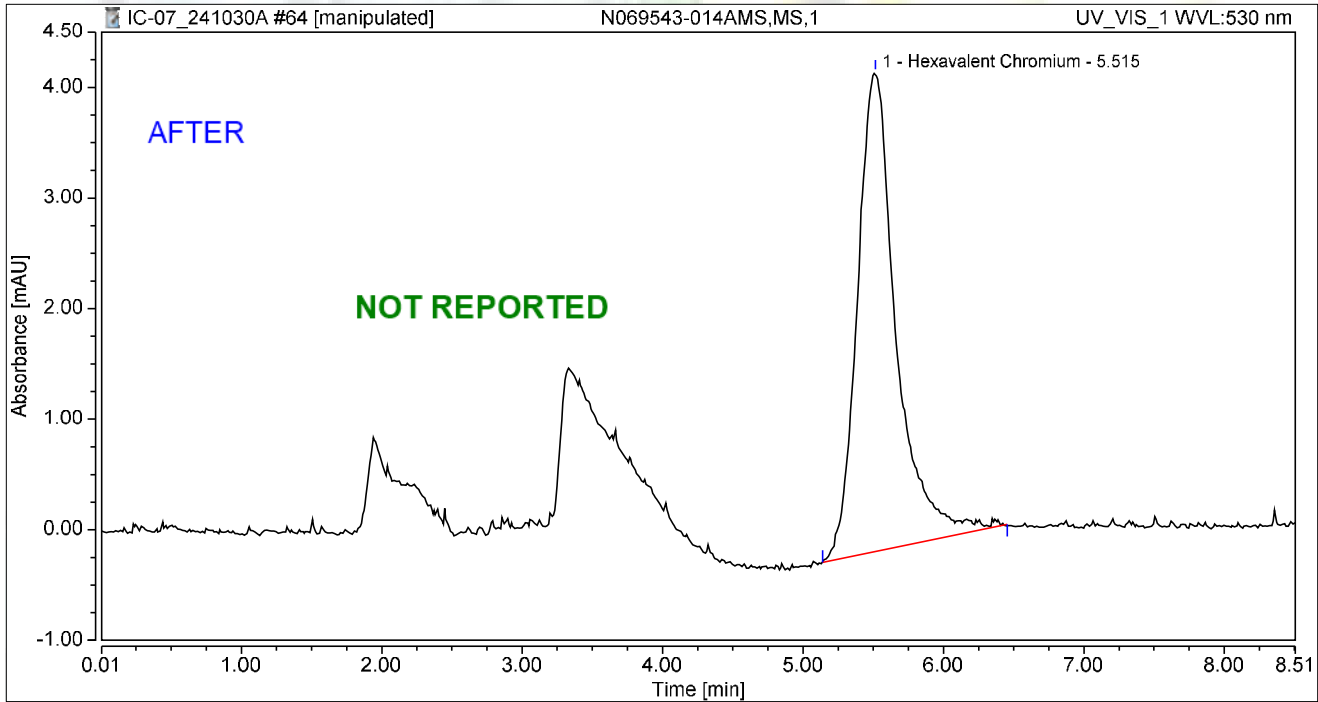
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-014AMS,MS,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 18:27	Sample Weight:	1.0000

Chromatogram



Integration Results

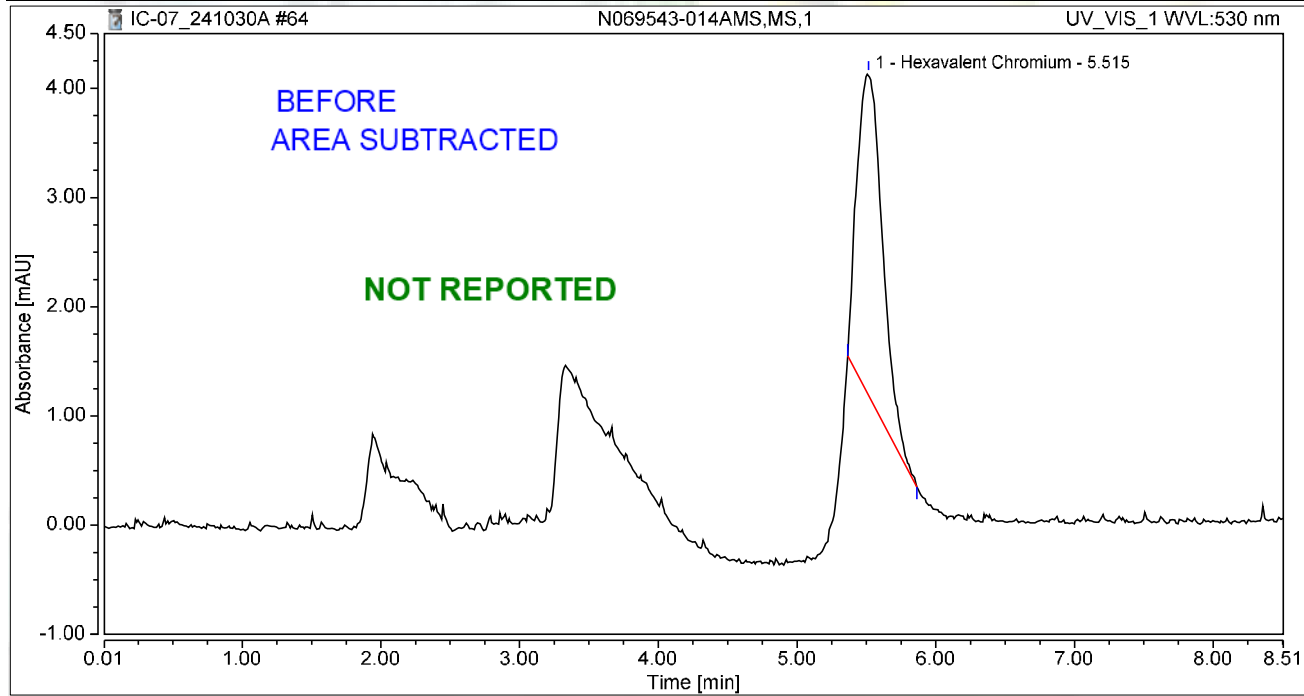
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.515	1.385	4.334	100.00	100.00	4.8793
Total:			1.385	4.334	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-014AMS,MS,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 18:27	Sample Weight:	1.0000

Chromatogram



Integration Results

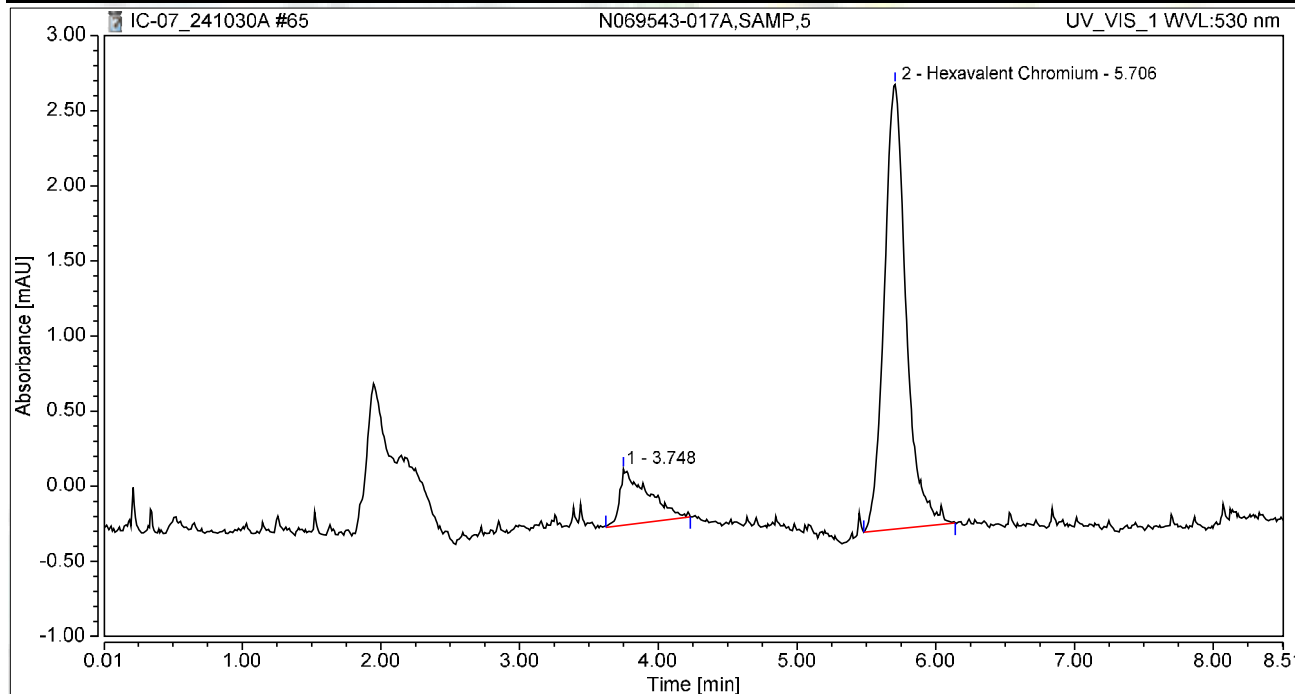
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.515	0.632	2.948	100.00	100.00	2.2290
Total:			0.632	2.948	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-017A,SAMP,5	Run Time (min):	8.50
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 18:36	Sample Weight:	1.0000

Chromatogram



Integration Results

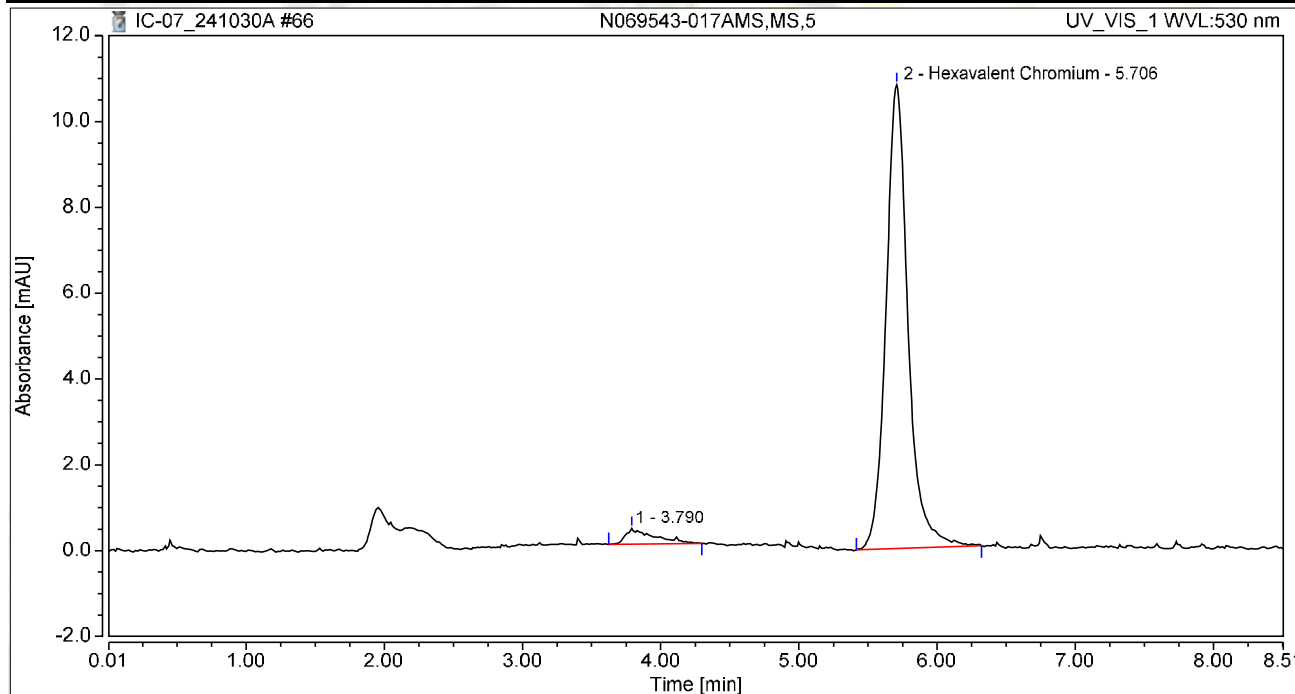
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.748	0.087	0.374	13.92	11.23	n.a.
2	Hexavalent Chromium	5.706	0.539	2.961	86.08	88.77	1.8996
Total:			0.626	3.335	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-017AMS,MS,5	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 18:46	Sample Weight:	1.0000

Chromatogram



Integration Results

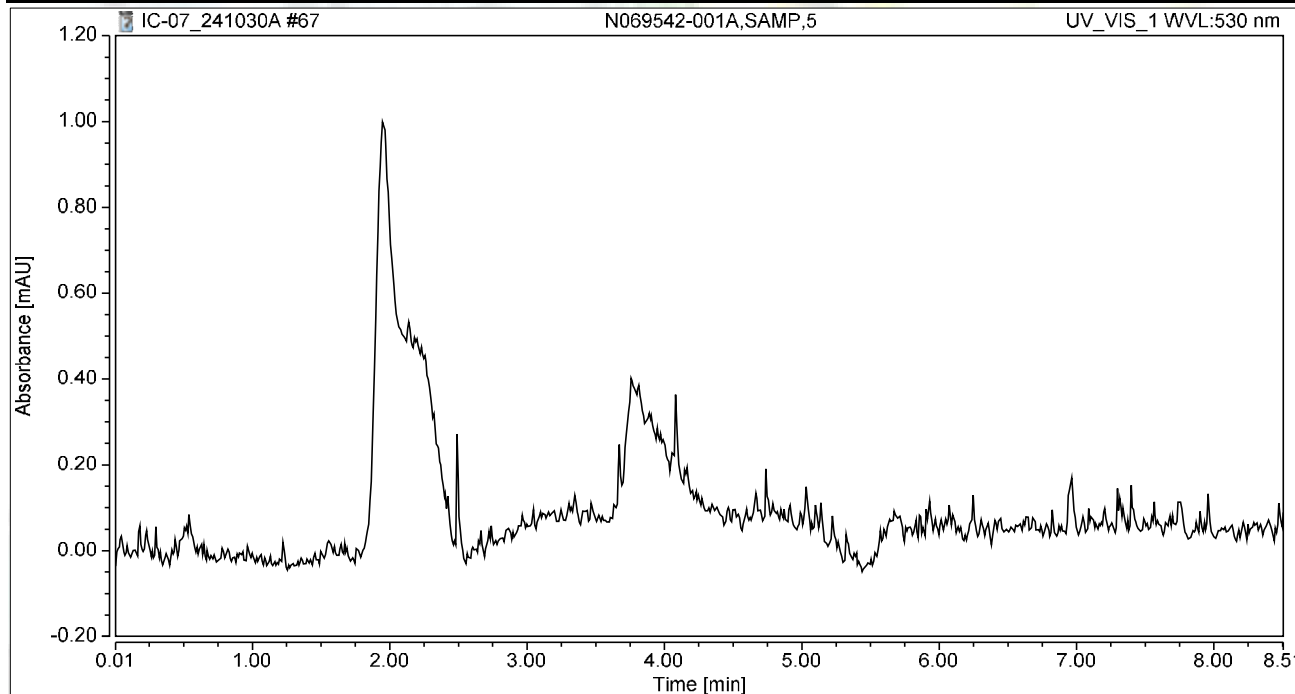
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.790	0.087	0.374	4.17	3.34	n.a.
2	Hexavalent Chromium	5.706	1.993	10.807	95.83	96.66	7.0229
Total:			2.080	11.181	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069542-001A,SAMP,5	Run Time (min):	8.50
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 18:55	Sample Weight:	1.0000

Chromatogram



Integration Results

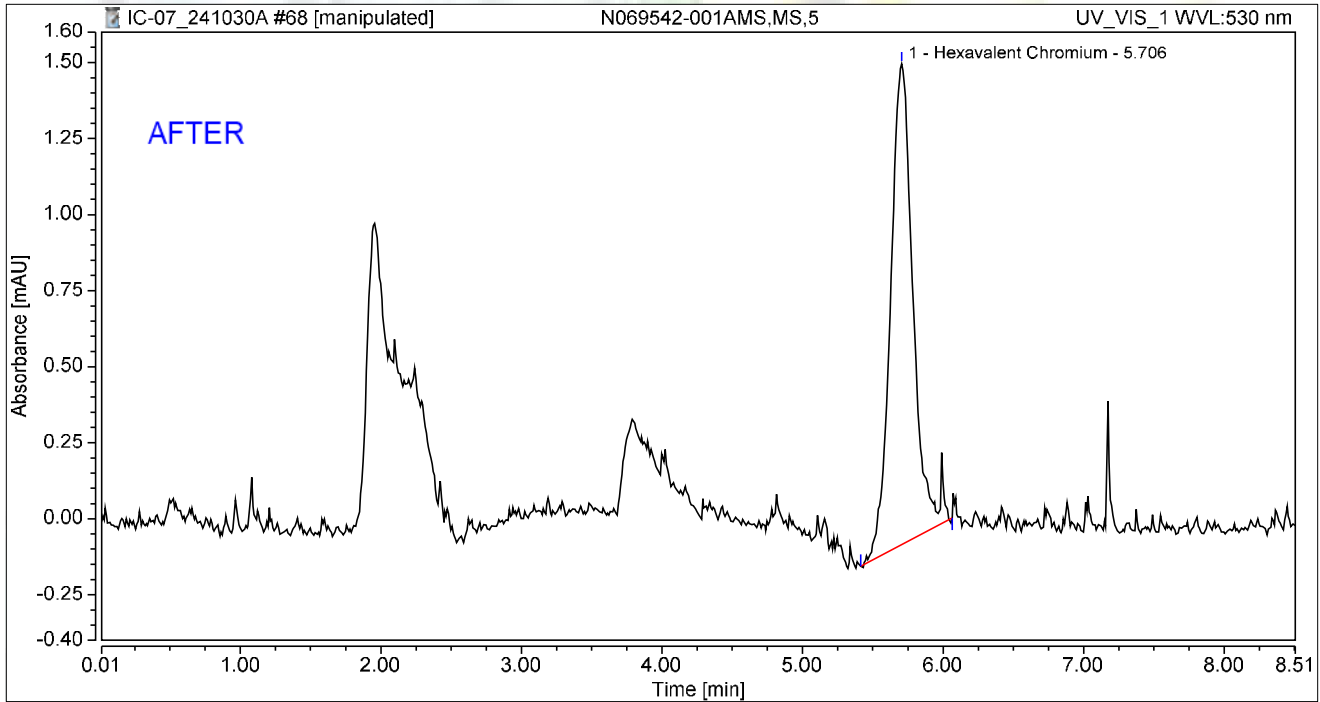
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069542-001AMS,MS,5	Run Time (min):	8.49
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 19:05	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	0.294	1.580	100.00	100.00	1.0347
Total:			0.294	1.580	100.00	100.00	

Reviewed by:

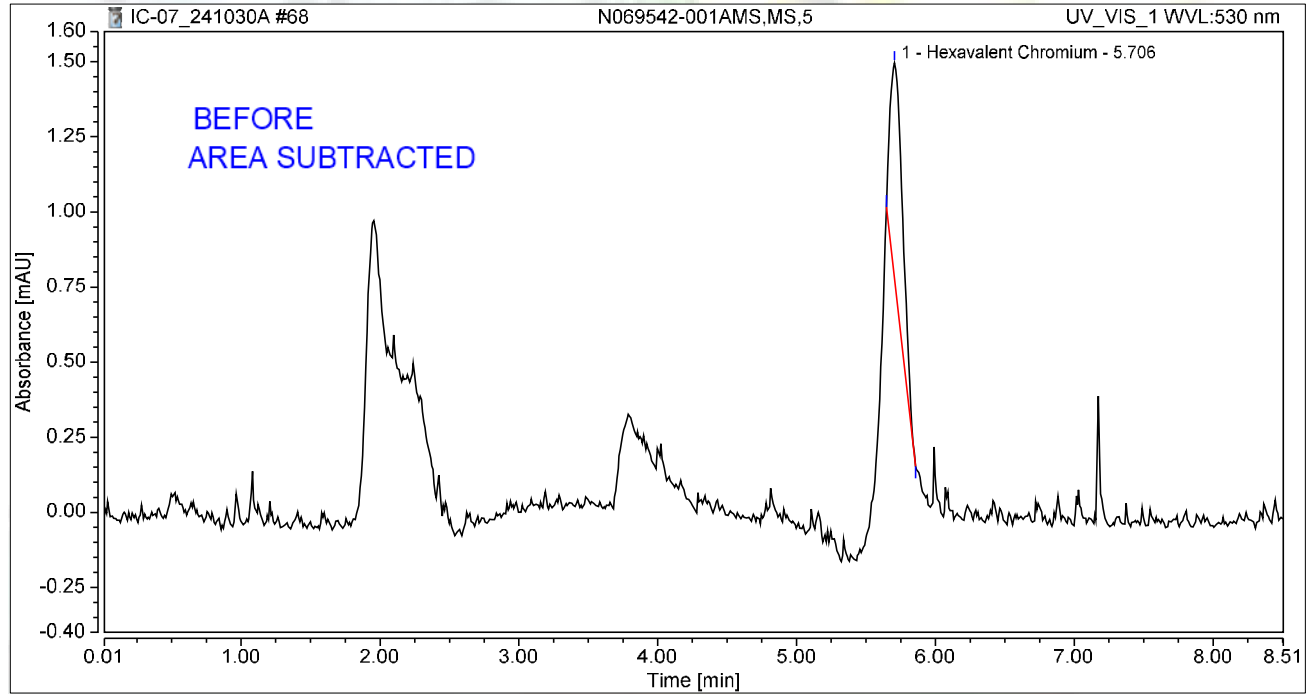
M. Rocha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069542-001AMS,MS,5	Run Time (min):	8.49
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 19:05	Sample Weight:	1.0000

Chromatogram



Integration Results

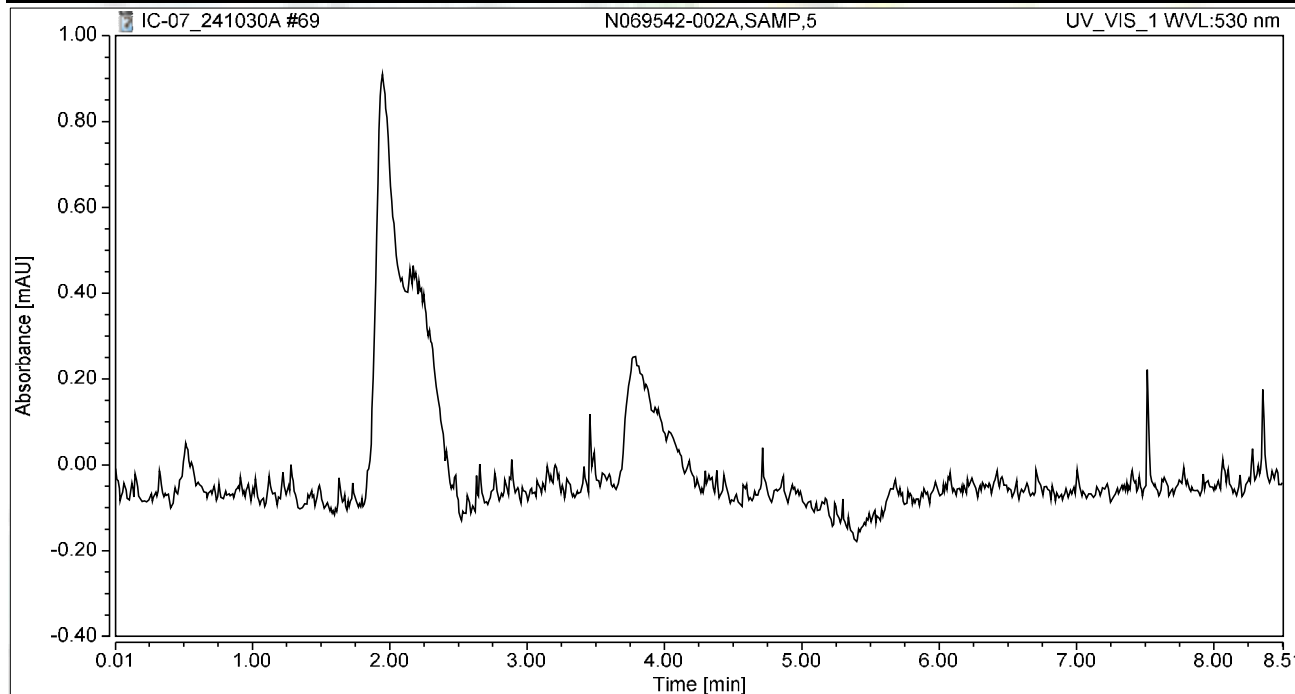
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	0.078	0.720	100.00	100.00	0.2736
Total:			0.078	0.720	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069542-002A,SAMP,5	Run Time (min):	8.50
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 19:14	Sample Weight:	1.0000

Chromatogram



Integration Results

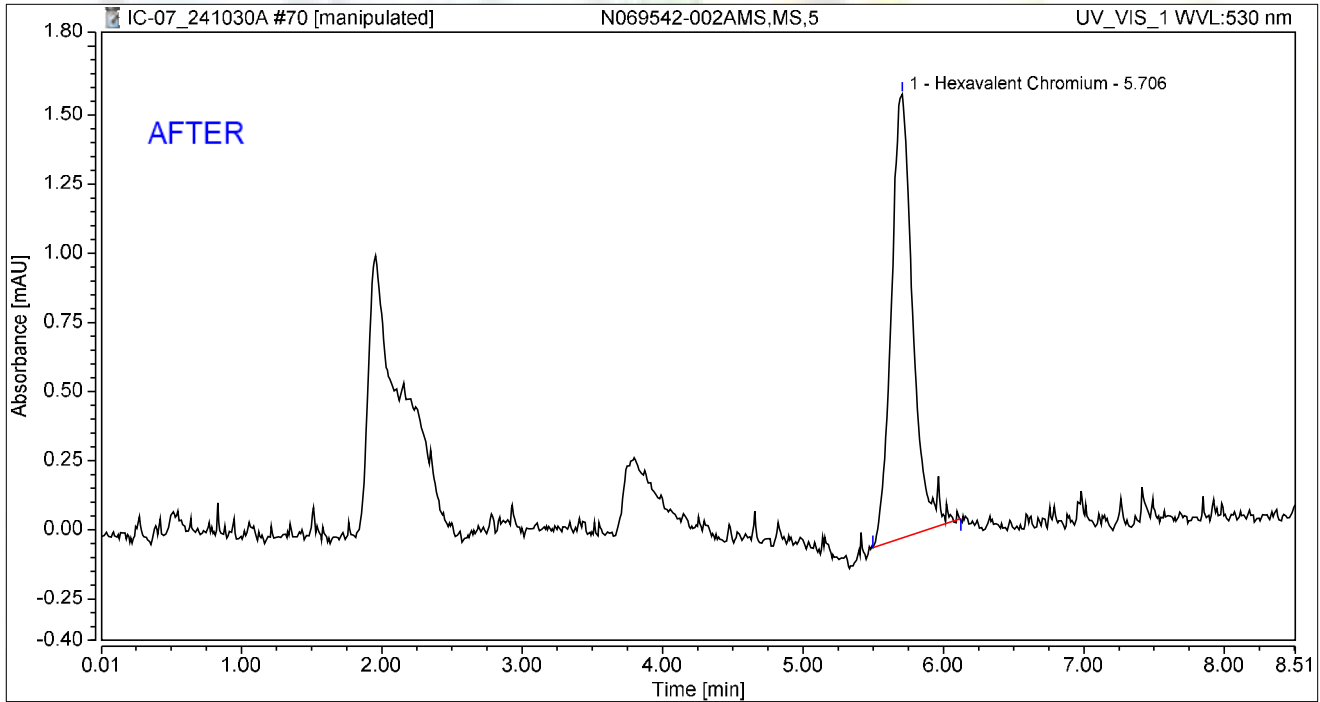
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069542-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 19:24	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	0.285	1.604	100.00	100.00	1.0030
Total:			0.285	1.604	100.00	100.00	

Reviewed by:

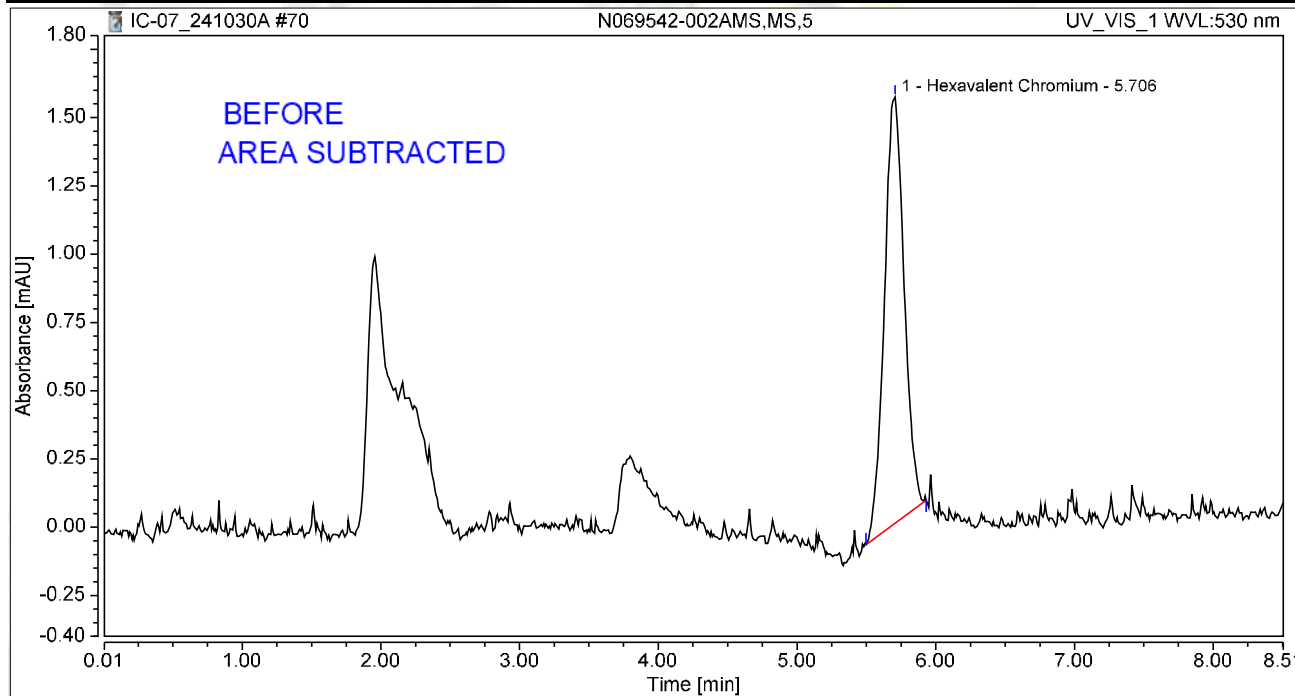
M Rocha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069542-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 19:24	Sample Weight:	1.0000

Chromatogram



Integration Results

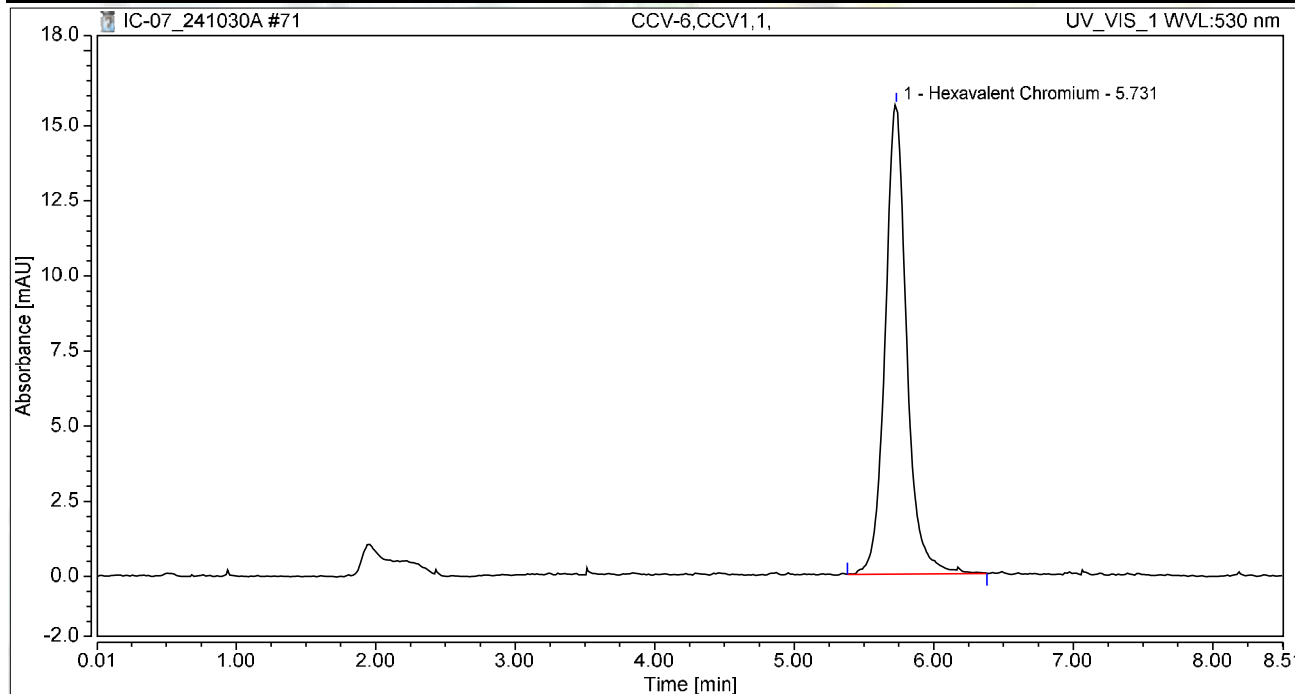
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	0.257	1.561	100.00	100.00	0.9069
Total:			0.257	1.561	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-6,CCV1,1,	Run Time (min):	8.50
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 19:33	Sample Weight:	1.0000

Chromatogram



Integration Results

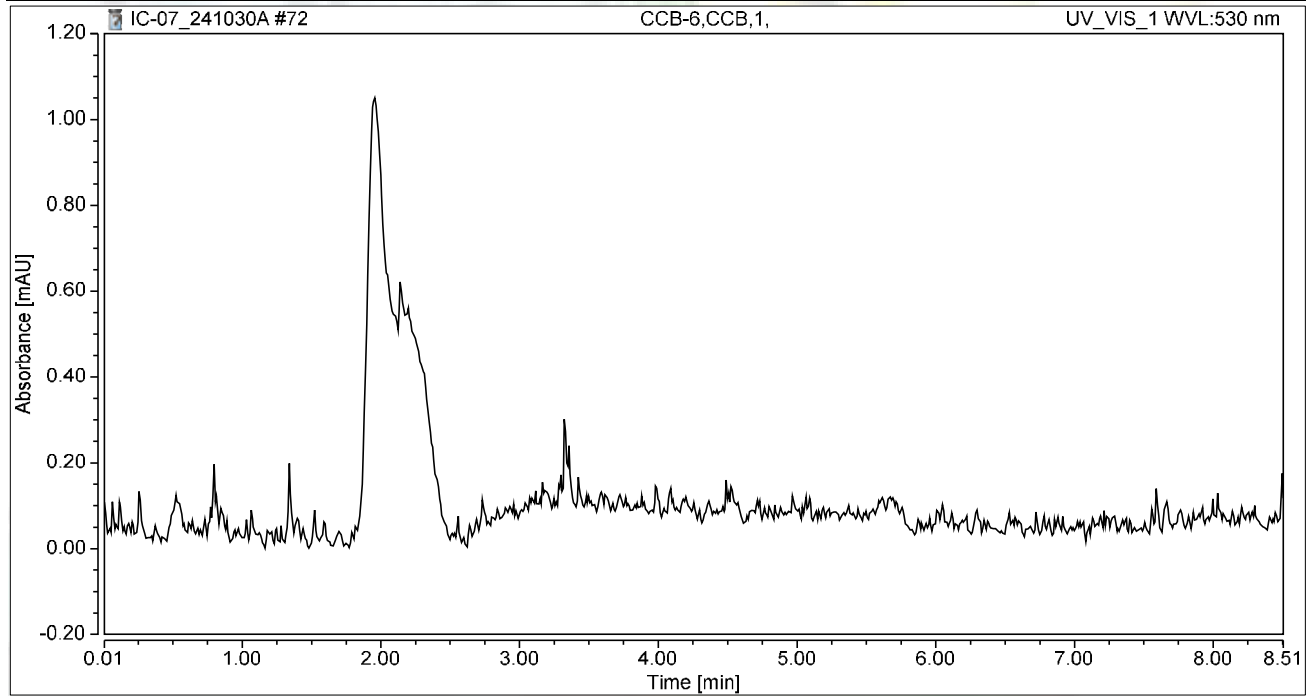
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	2.792	15.624	100.00	100.00	9.8381
Total:			2.792	15.624	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-6,CCB,1,	Run Time (min):	8.50
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 19:43	Sample Weight:	1.0000

Chromatogram



Integration Results

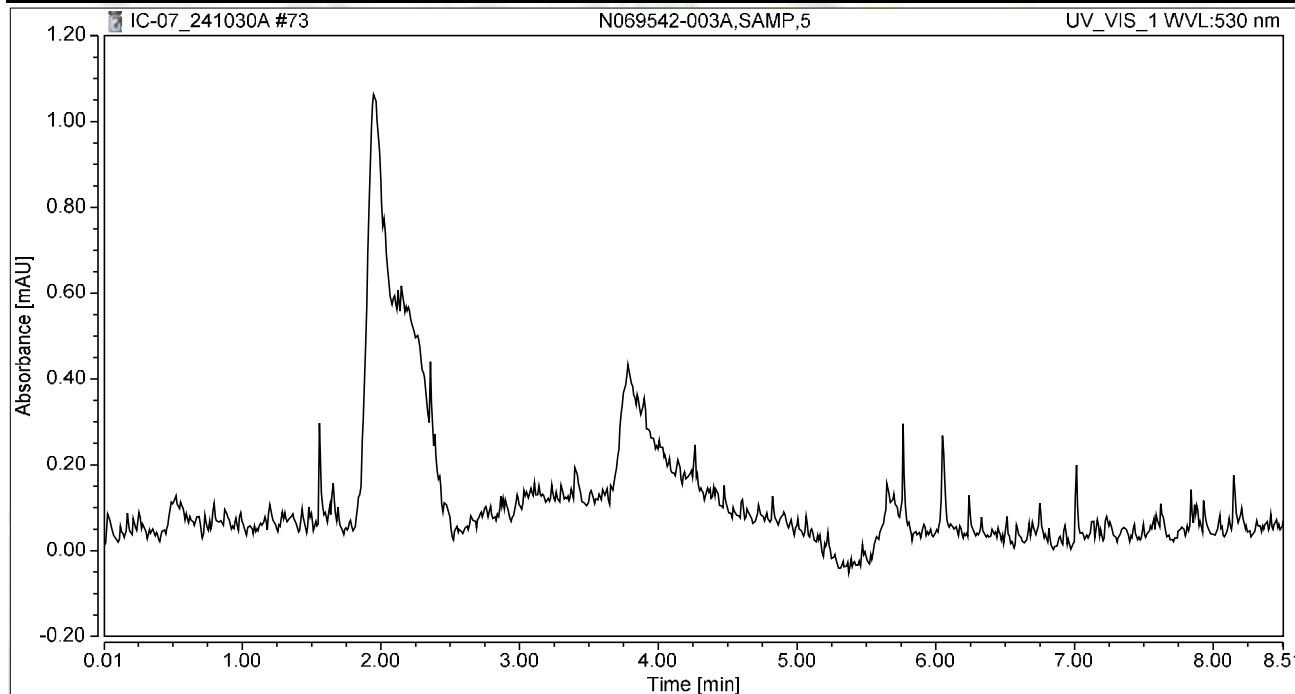
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069542-003A,SAMP,5	Run Time (min):	8.50
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 19:52	Sample Weight:	1.0000

Chromatogram



Integration Results

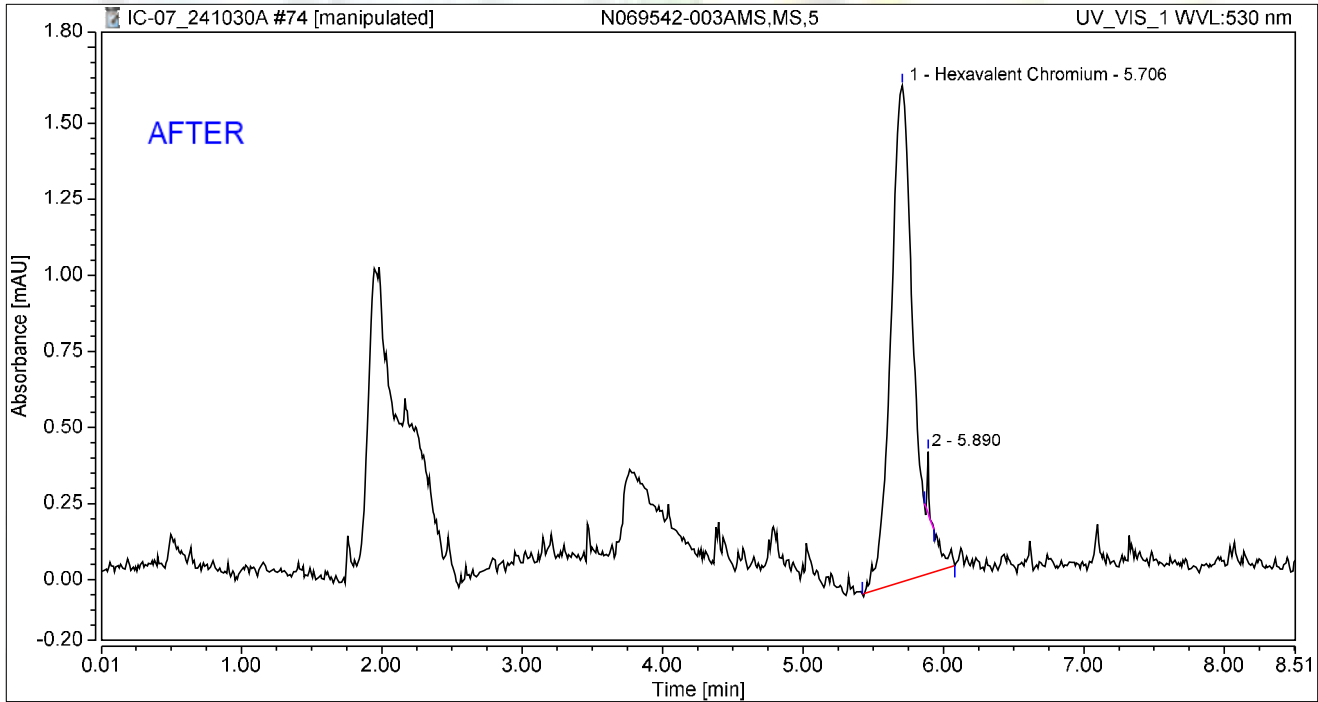
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069542-003AMS,MS,5	Run Time (min):	8.50
Vial Number:	30	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 20:01	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	0.307	1.631	99.11	88.97	1.0821
2		5.890	0.003	0.202	0.89	11.03	n.a.
Total:			0.310	1.833	100.00	100.00	

Reviewed by:

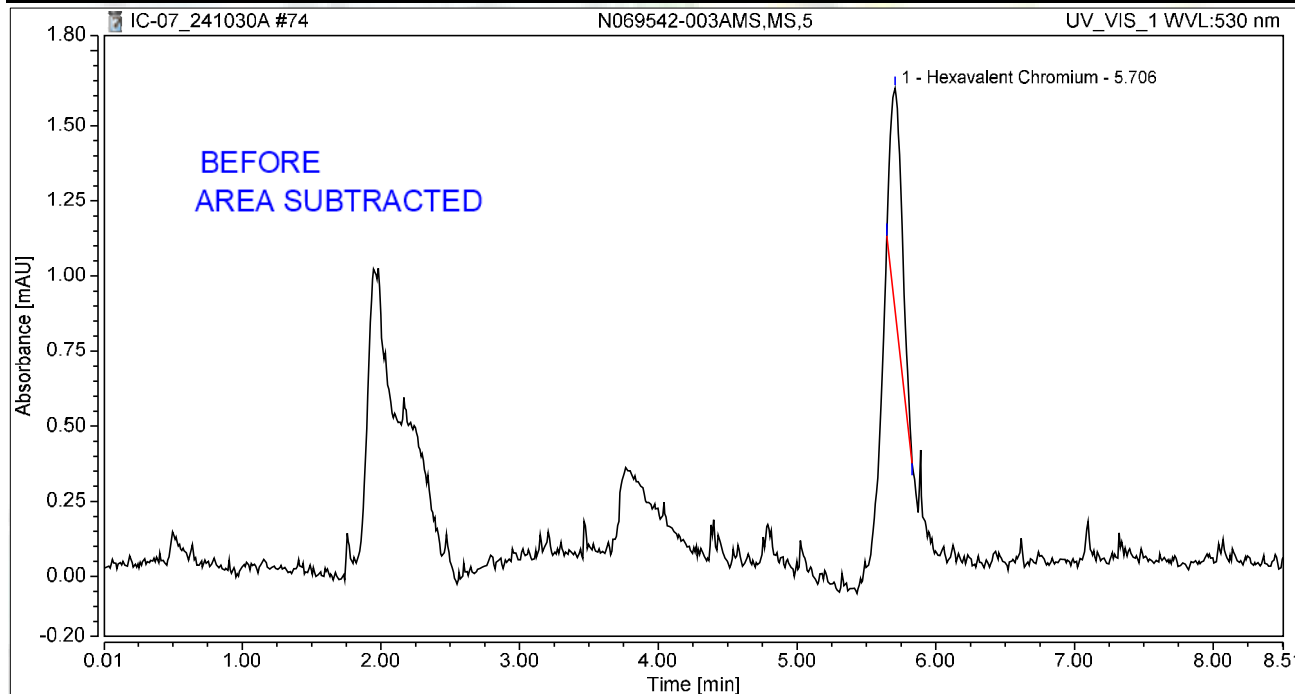
MRecha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069542-003AMS,MS,5	Run Time (min):	8.50
Vial Number:	30	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 20:01	Sample Weight:	1.0000

Chromatogram



Integration Results

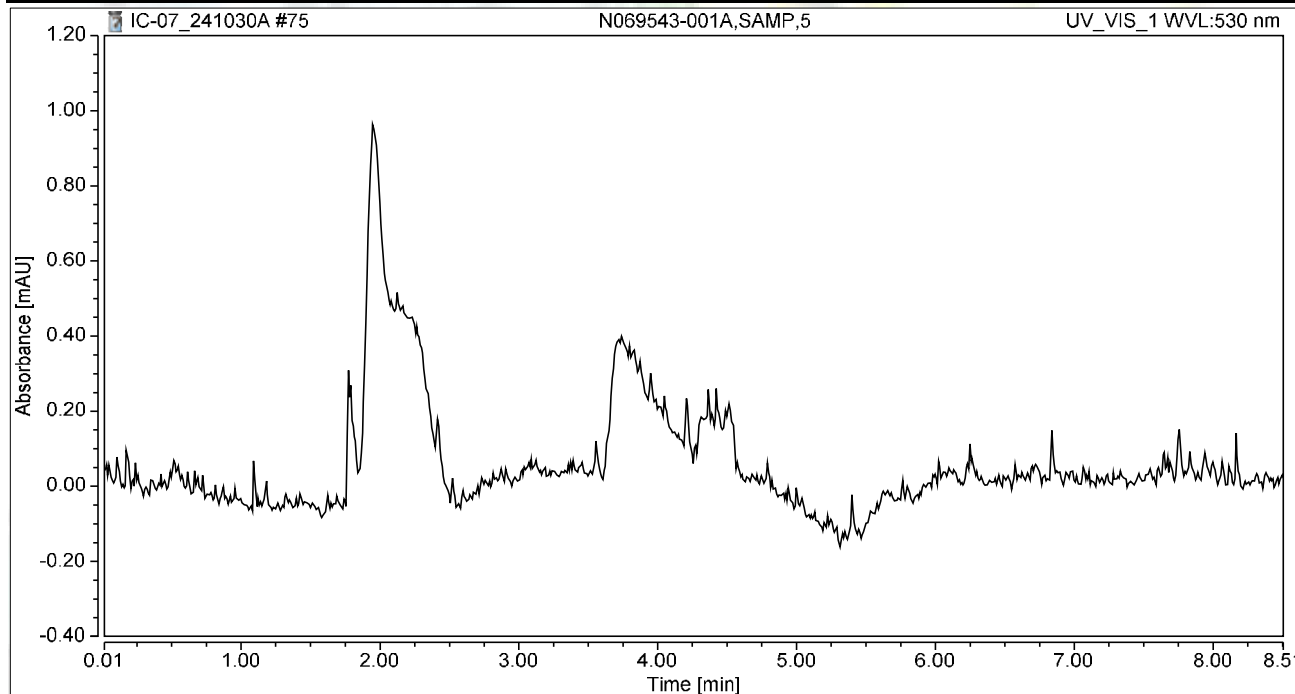
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	0.074	0.731	100.00	100.00	0.2594
Total:			0.074	0.731	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-001A,SAMP,5	Run Time (min):	8.49
Vial Number:	31	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 20:11	Sample Weight:	1.0000

Chromatogram



Integration Results

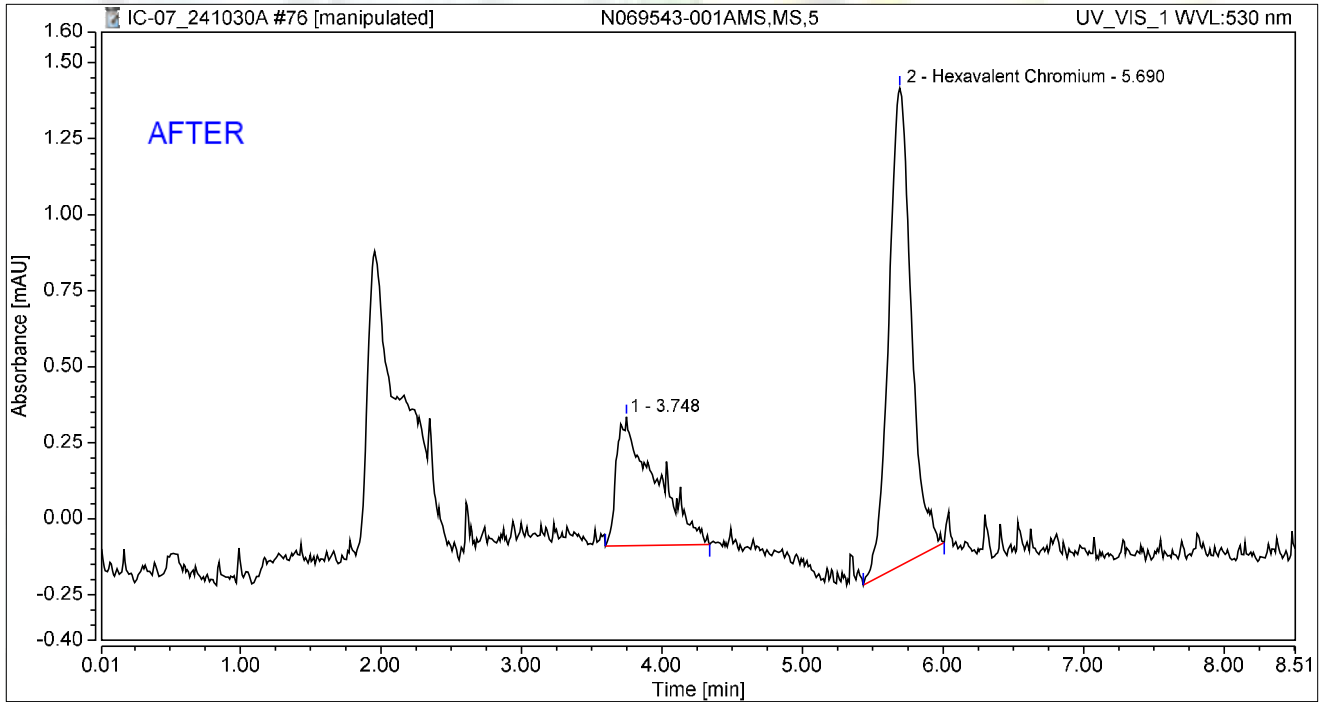
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-001AMS,MS,5	Run Time (min):	8.49
Vial Number:	32	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 20:20	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.748	0.137	0.424	31.90	21.27	n.a.
2	Hexavalent Chromium	5.690	0.293	1.571	68.10	78.73	1.0311
Total:			0.430	1.995	100.00	100.00	

Reviewed by:

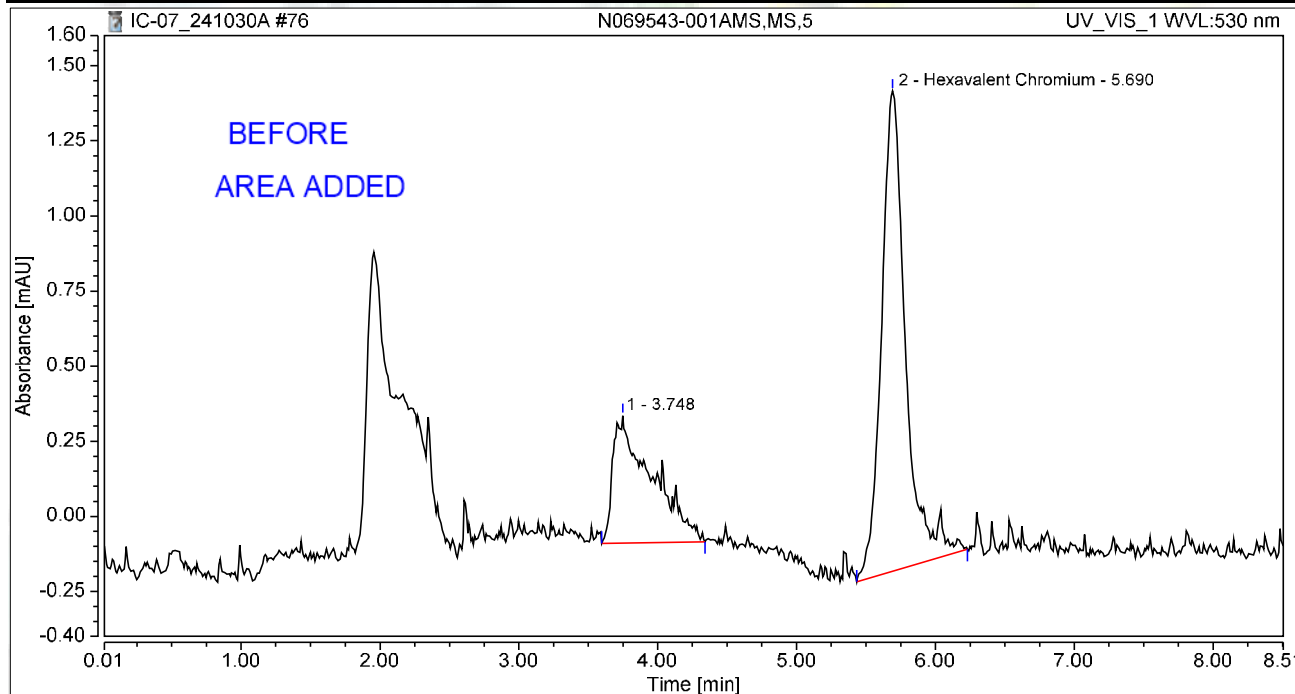
d/Rocha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069543-001AMS,MS,5	Run Time (min):	8.49
Vial Number:	32	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 20:20	Sample Weight:	1.0000

Chromatogram



Integration Results

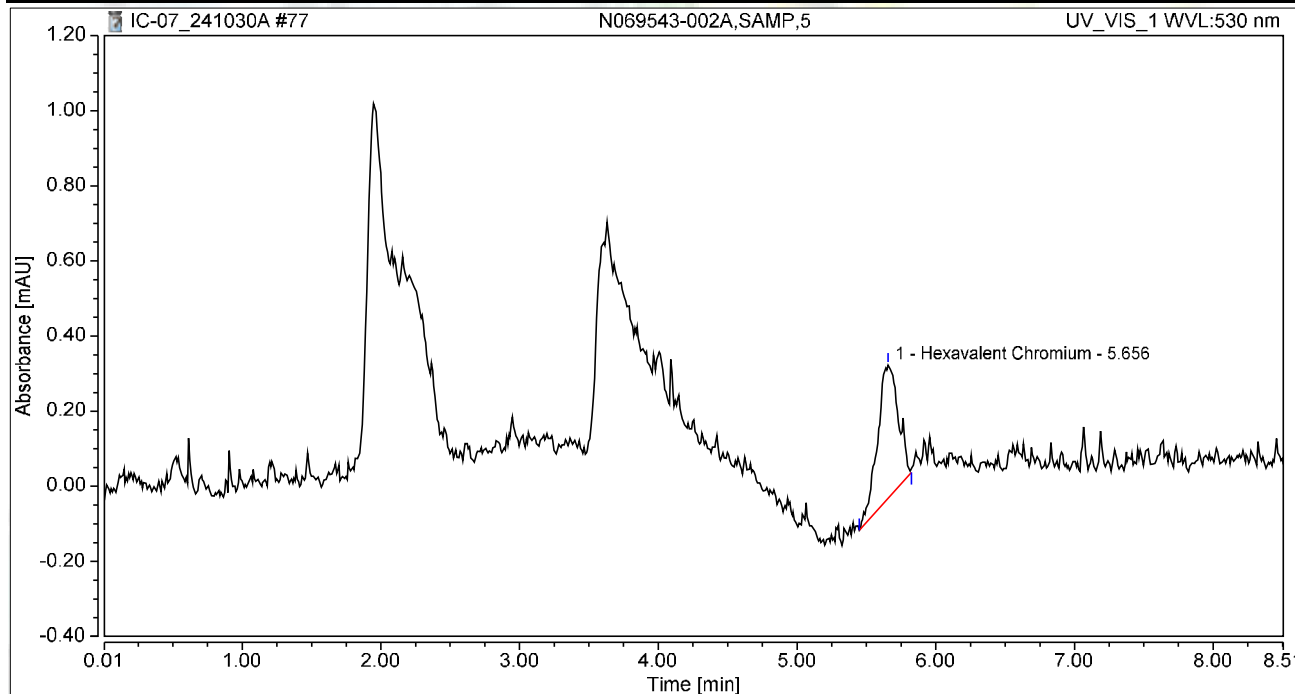
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.748	0.137	0.424	29.89	20.98	n.a.
2	Hexavalent Chromium	5.690	0.322	1.599	70.11	79.02	1.1332
Total:			0.459	2.024	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-002A,SAMP,5	Run Time (min):	8.50
Vial Number:	33	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 20:30	Sample Weight:	1.0000

Chromatogram



Integration Results

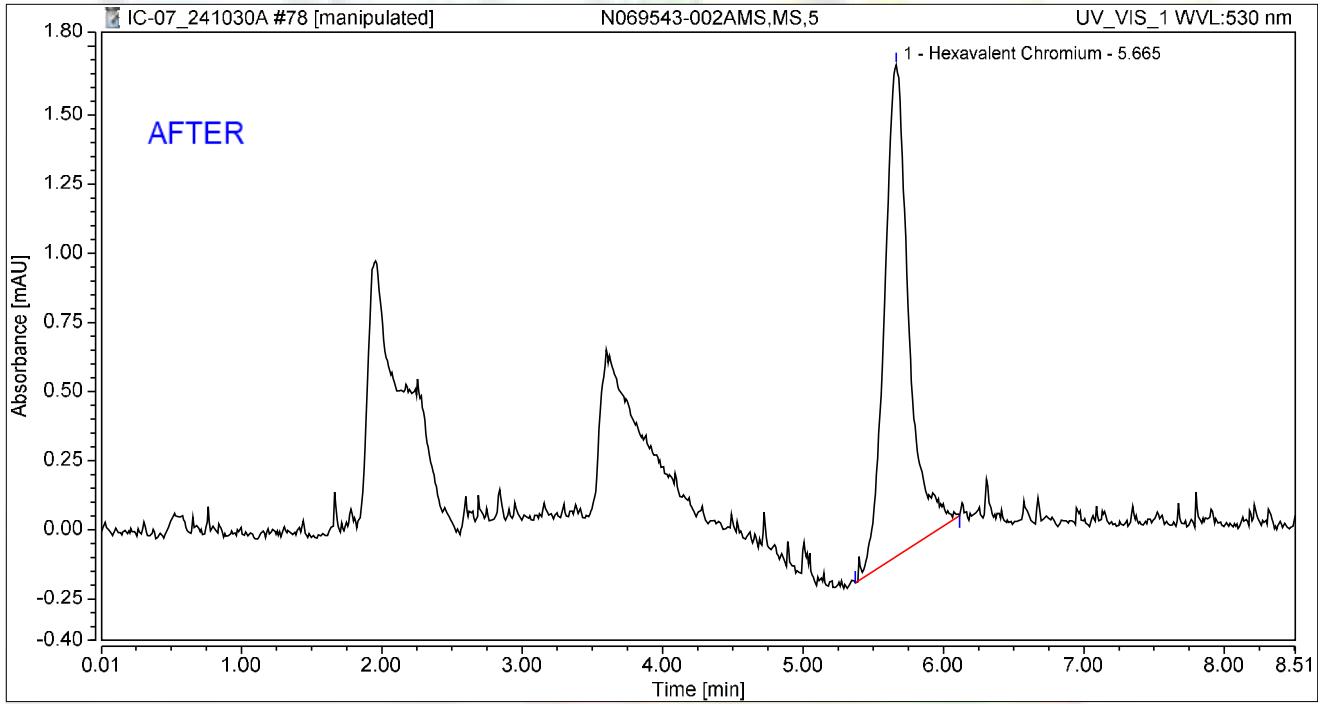
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.656	0.062	0.355	100.00	100.00	0.2168
Total:			0.062	0.355	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	34	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 20:39	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.360	1.778	100.00	100.00	1.2698
Total:			0.360	1.778	100.00	100.00	

Reviewed by:

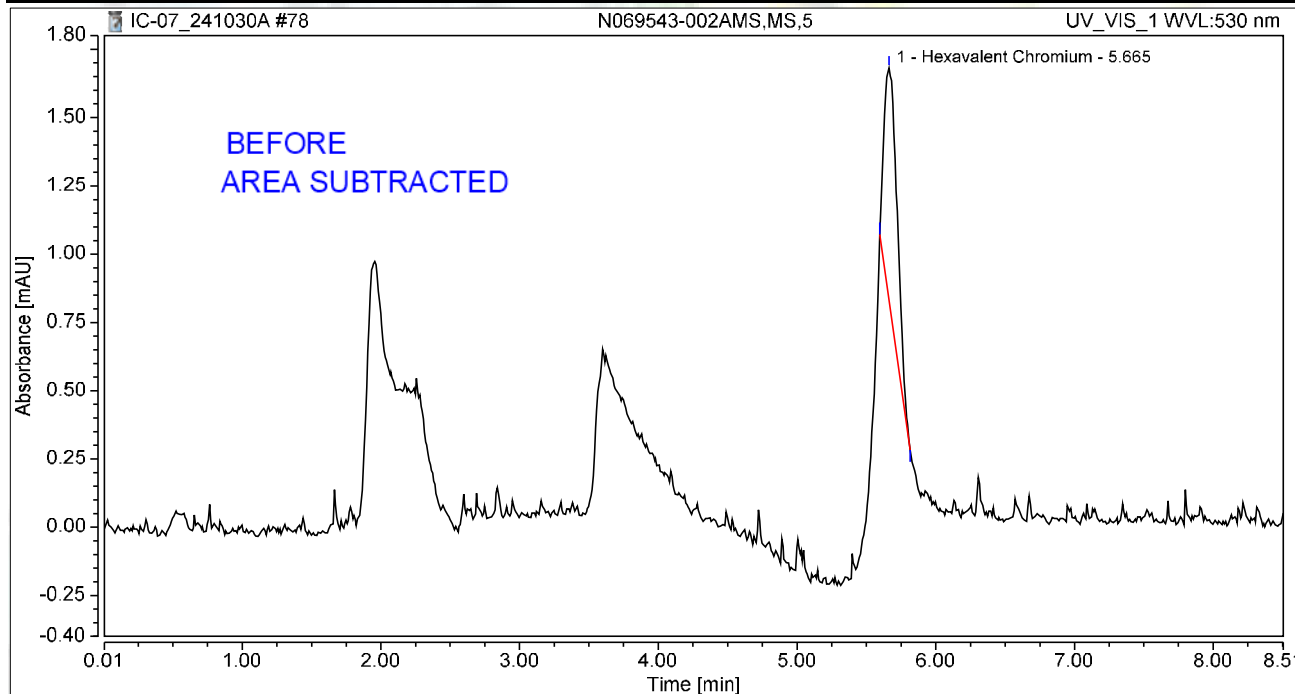
d/Recha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069543-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	34	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 20:39	Sample Weight:	1.0000

Chromatogram



Integration Results

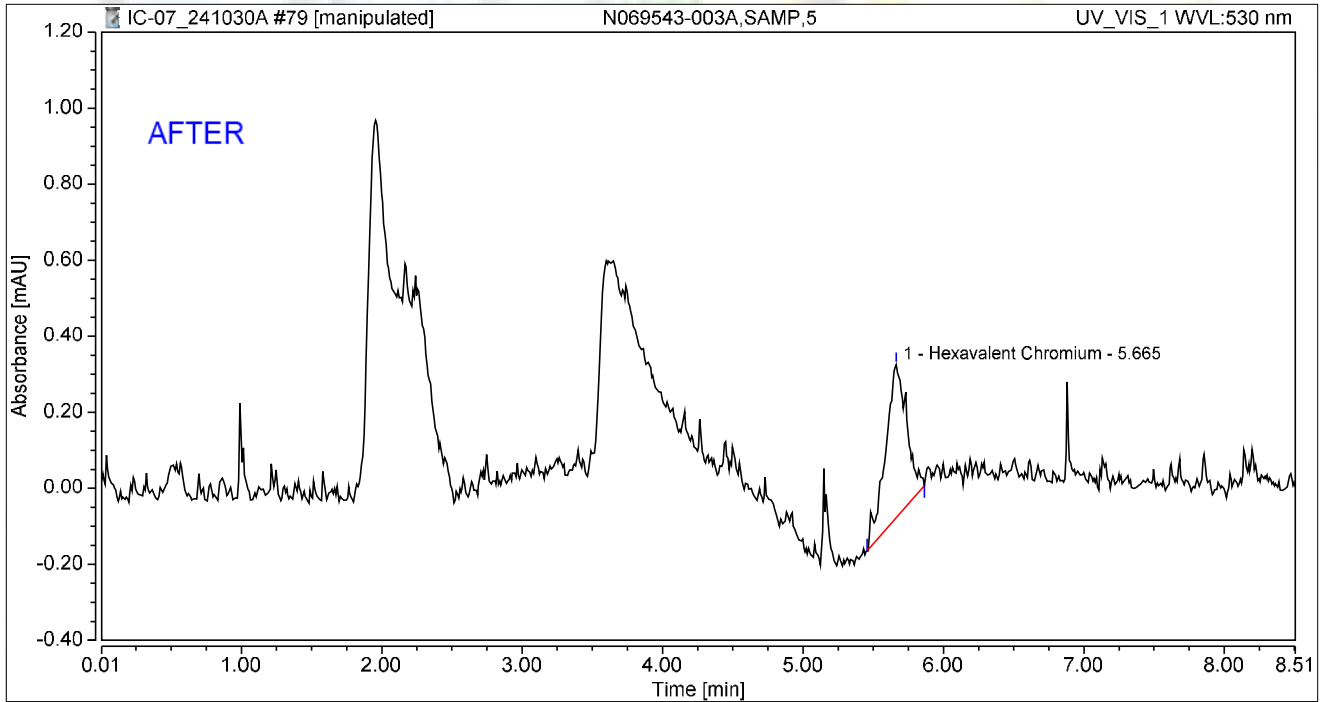
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.094	0.851	100.00	100.00	0.3319
Total:			0.094	0.851	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-003A,SAMP,5	Run Time (min):	8.50
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 20:49	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.071	0.402	100.00	100.00	0.2488
Total:			0.071	0.402	100.00	100.00	

Reviewed by:

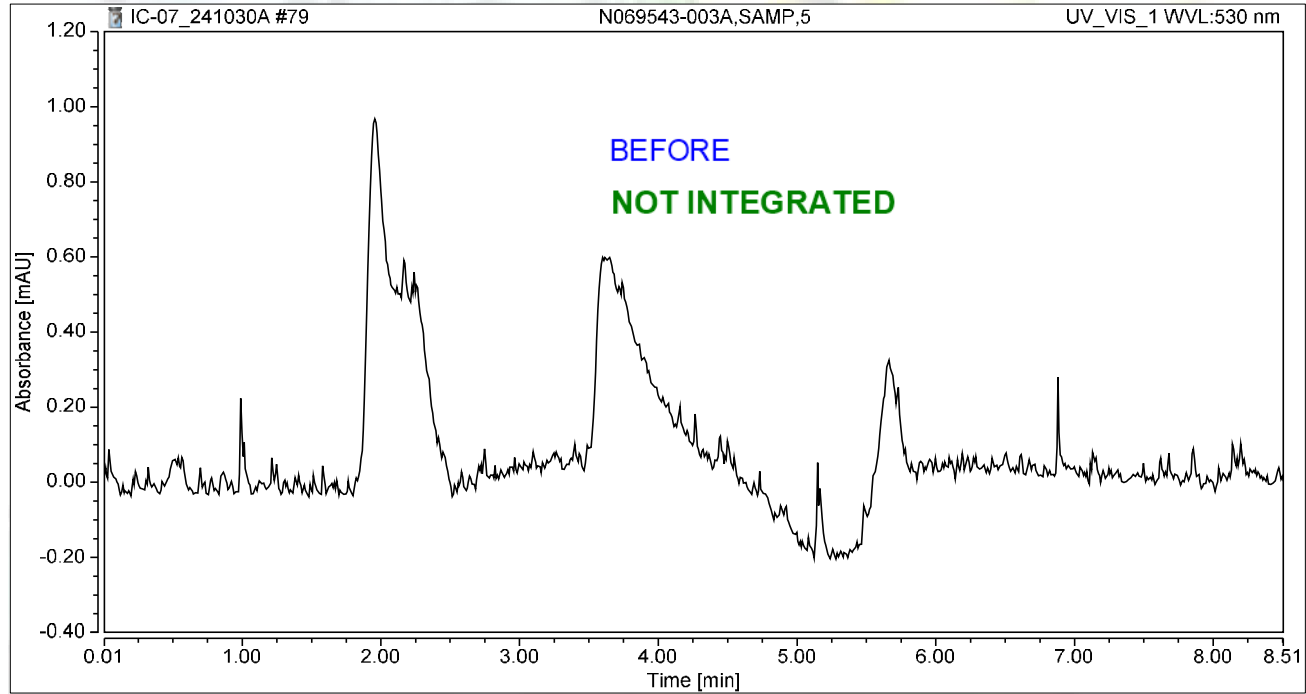
d/Rocha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069543-003A,SAMP,5	Run Time (min):	8.50
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 20:49	Sample Weight:	1.0000

Chromatogram



Integration Results

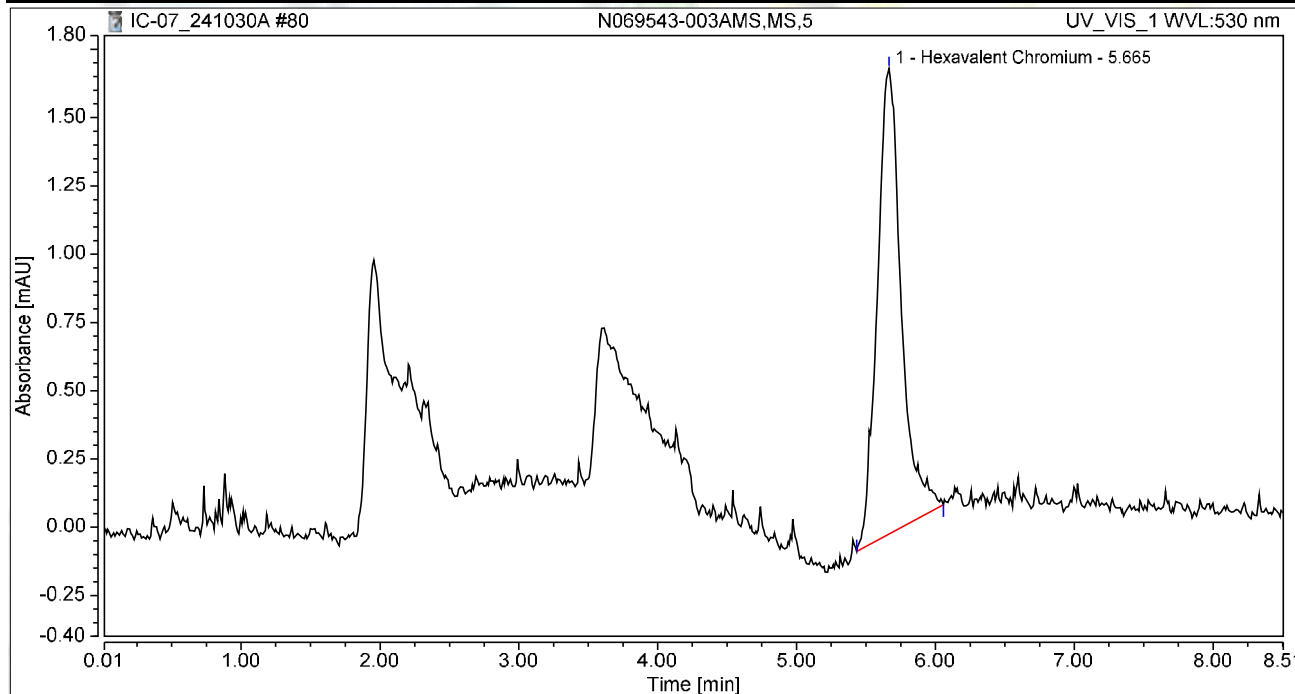
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-003AMS,MS,5	Run Time (min):	8.49
Vial Number:	36	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 20:58	Sample Weight:	1.0000

Chromatogram



Integration Results

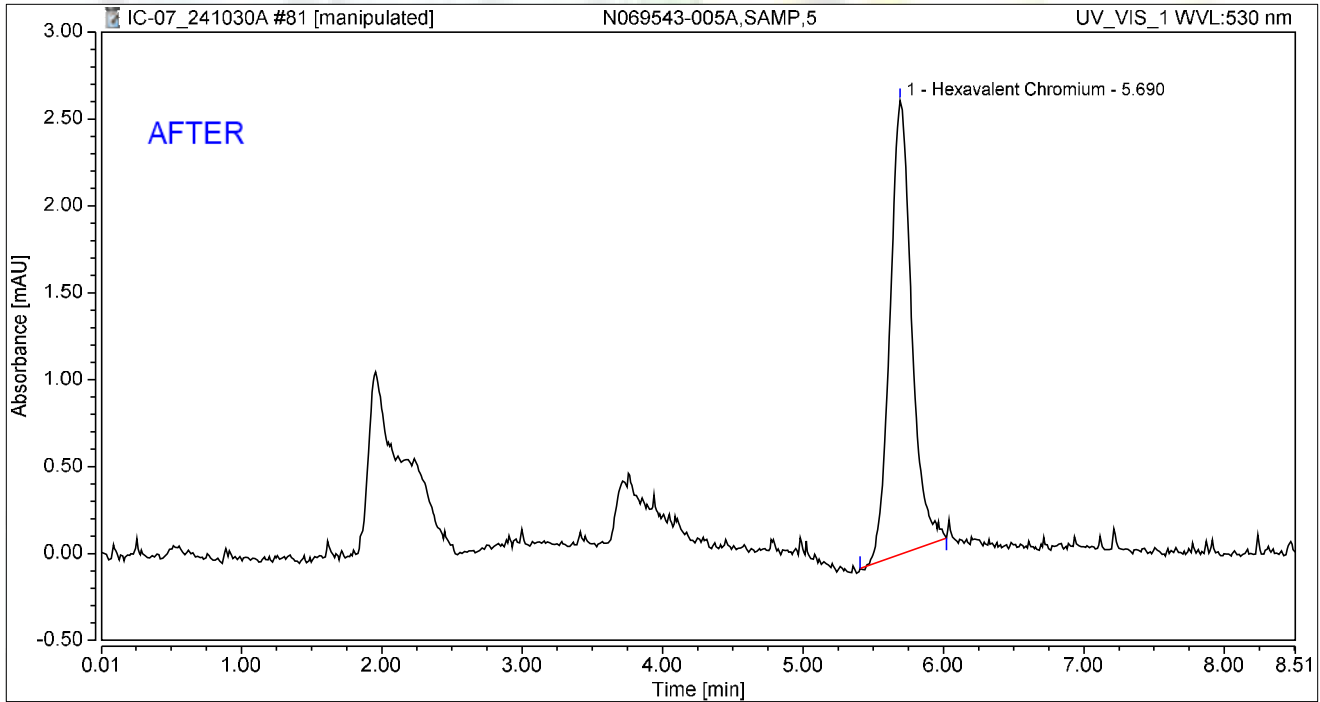
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.342	1.704	100.00	100.00	1.2056
Total:			0.342	1.704	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-005A,SAMP,5	Run Time (min):	8.50
Vial Number:	37	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 21:08	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.467	2.612	100.00	100.00	1.6447
Total:			0.467	2.612	100.00	100.00	

Reviewed by:

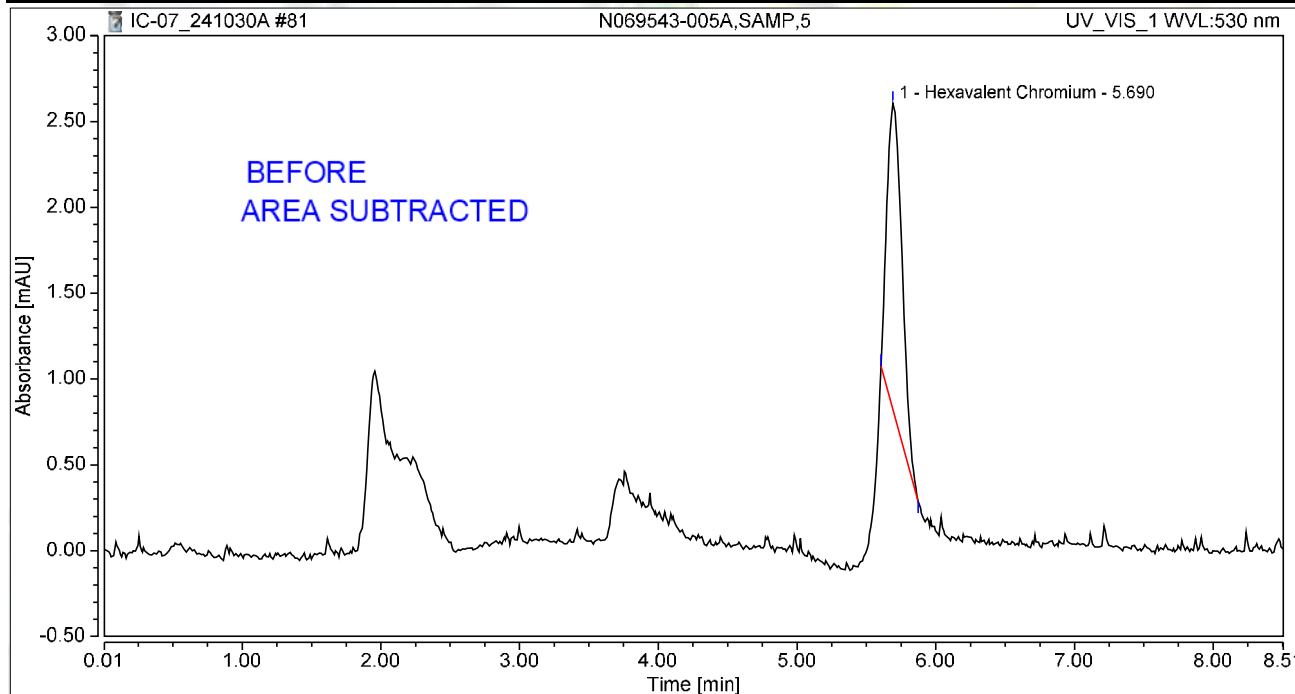
d/Rocha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069543-005A,SAMP,5	Run Time (min):	8.50
Vial Number:	37	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 21:08	Sample Weight:	1.0000

Chromatogram



Integration Results

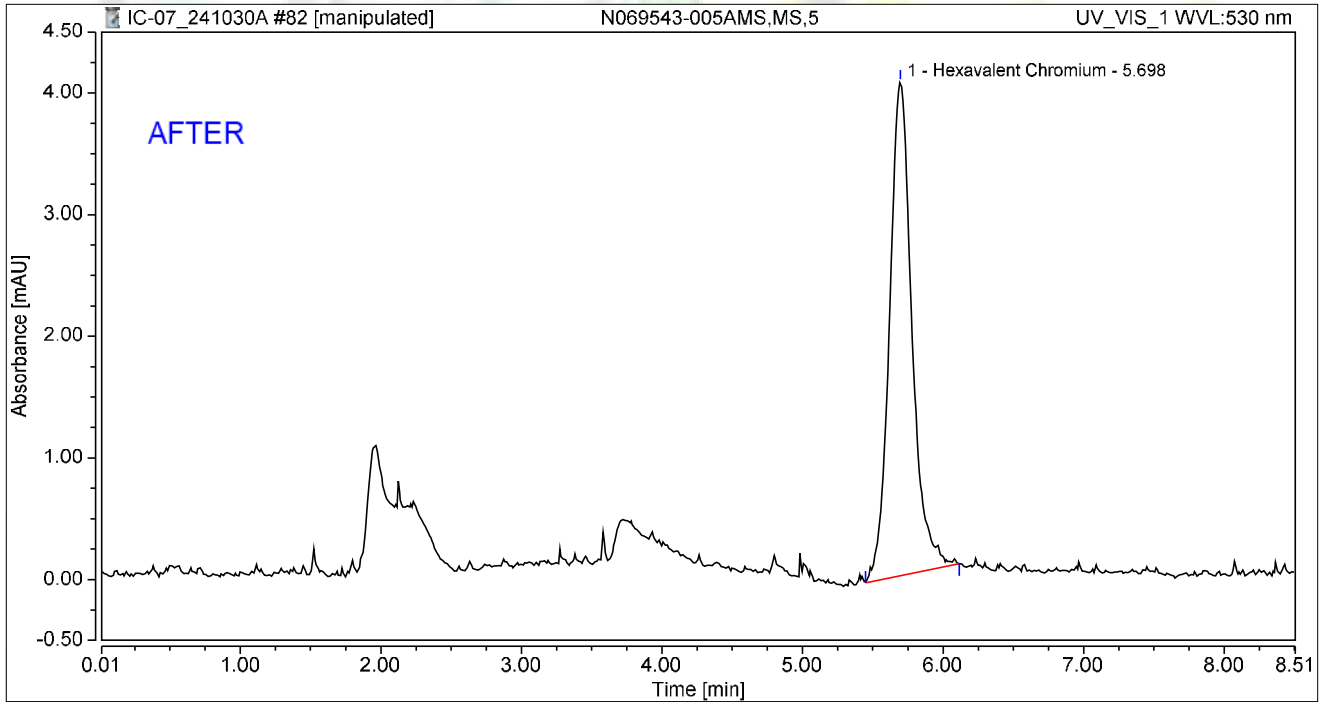
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.226	1.777	100.00	100.00	0.7969
Total:			0.226	1.777	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-005AMS,MS,5	Run Time (min):	8.49
Vial Number:	38	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 21:17	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	0.752	4.058	100.00	100.00	2.6485
Total:			0.752	4.058	100.00	100.00	

Reviewed by:

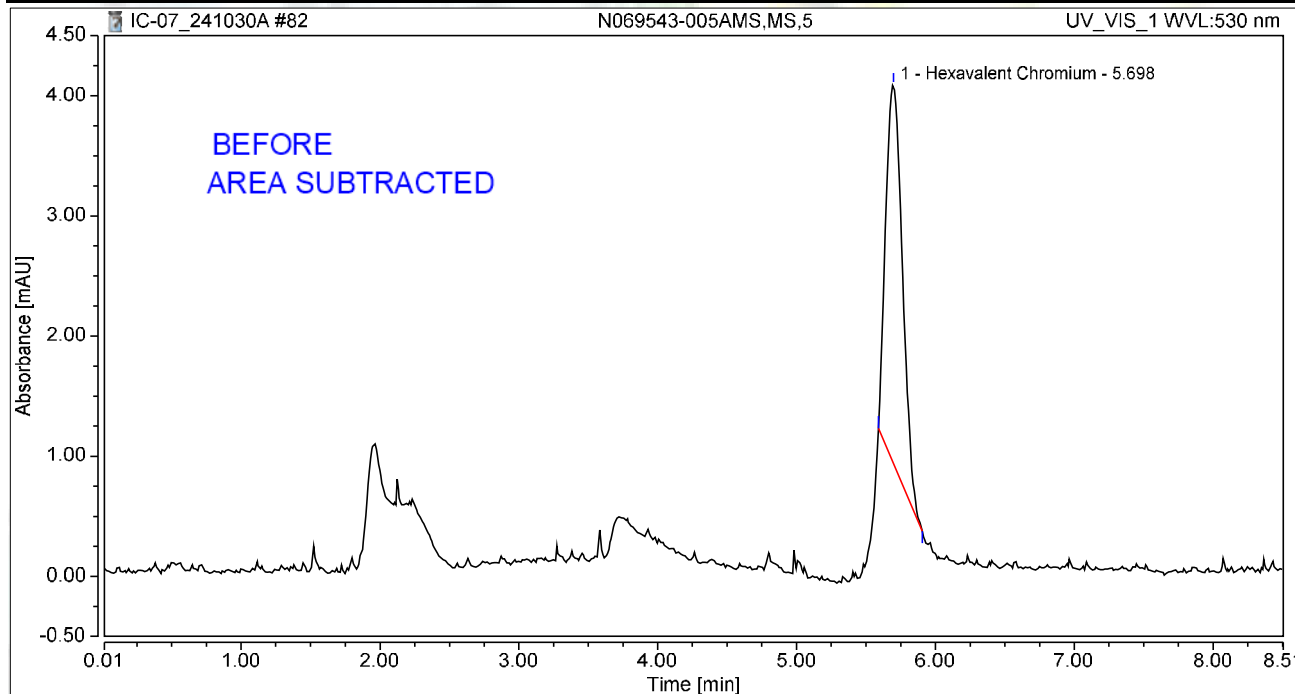
M. Rocha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069543-005AMS,MS,5	Run Time (min):	8.49
Vial Number:	38	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 21:17	Sample Weight:	1.0000

Chromatogram



Integration Results

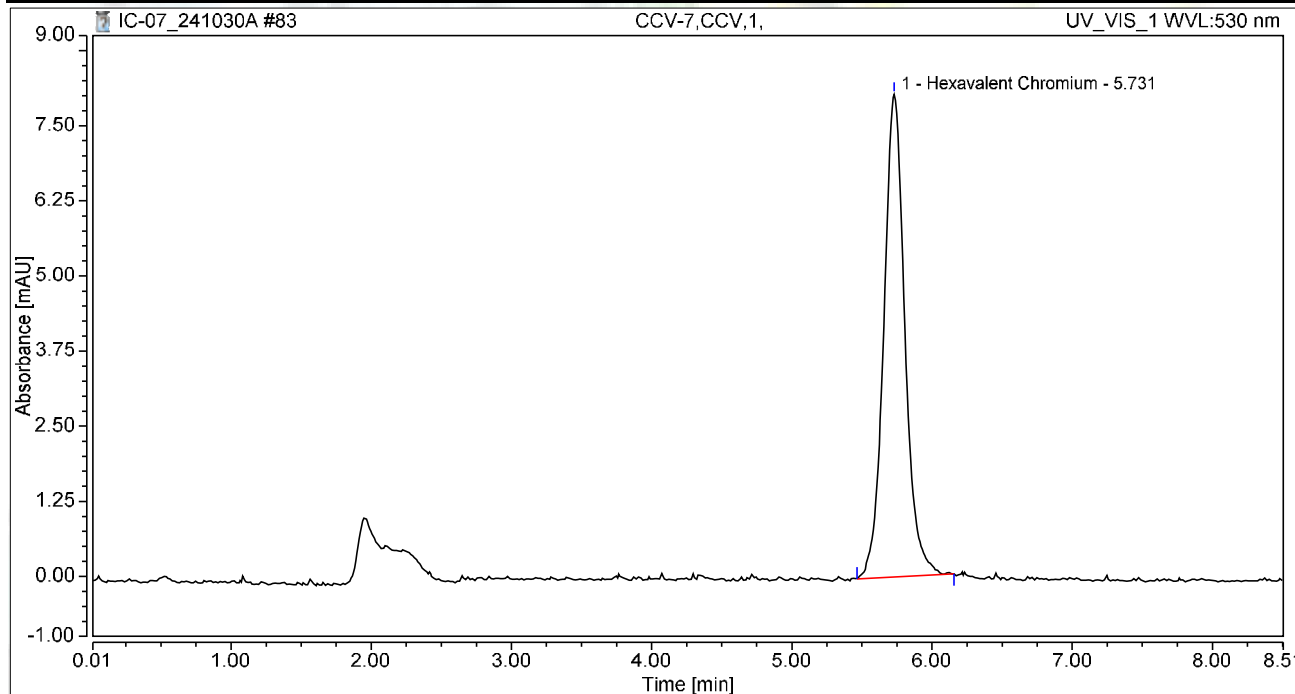
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	0.441	3.150	100.00	100.00	1.5531
Total:			0.441	3.150	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-7,CCV,1,	Run Time (min):	8.49
Vial Number:	39	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 21:27	Sample Weight:	1.0000

Chromatogram



Integration Results

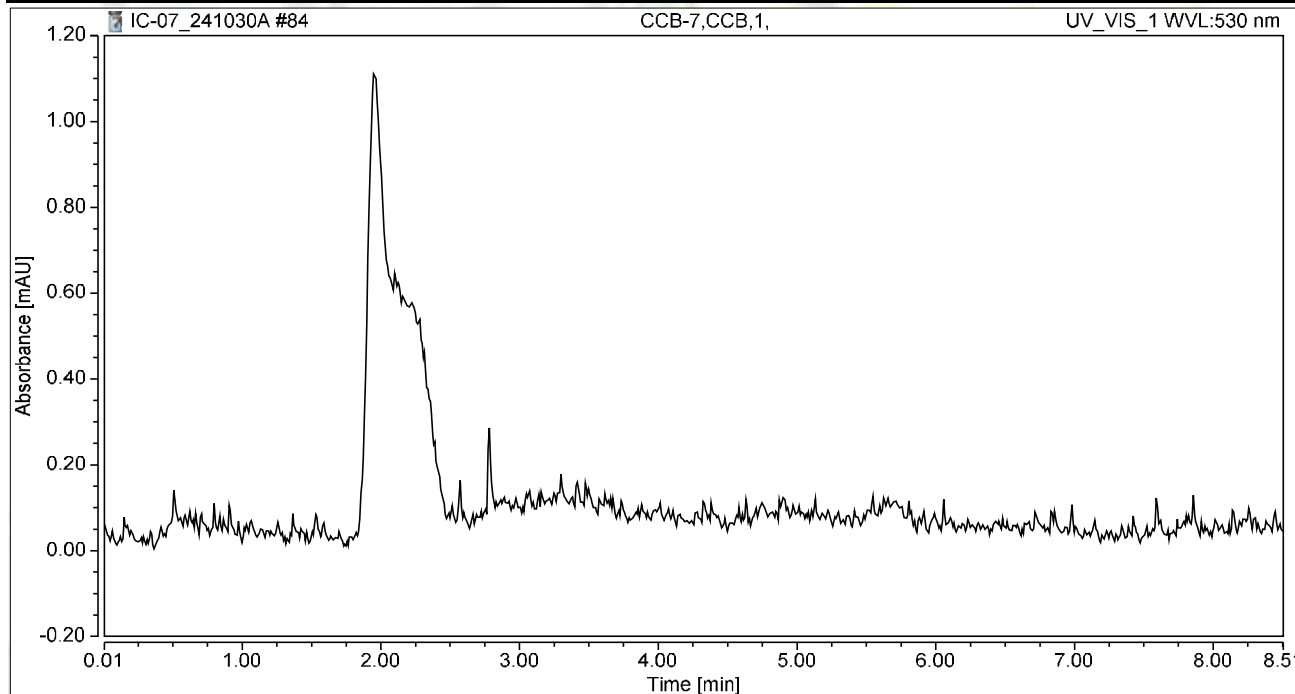
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	1.399	8.036	100.00	100.00	4.9291
Total:			1.399	8.036	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-7,CCB,1,	Run Time (min):	8.50
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 21:36	Sample Weight:	1.0000

Chromatogram



Integration Results

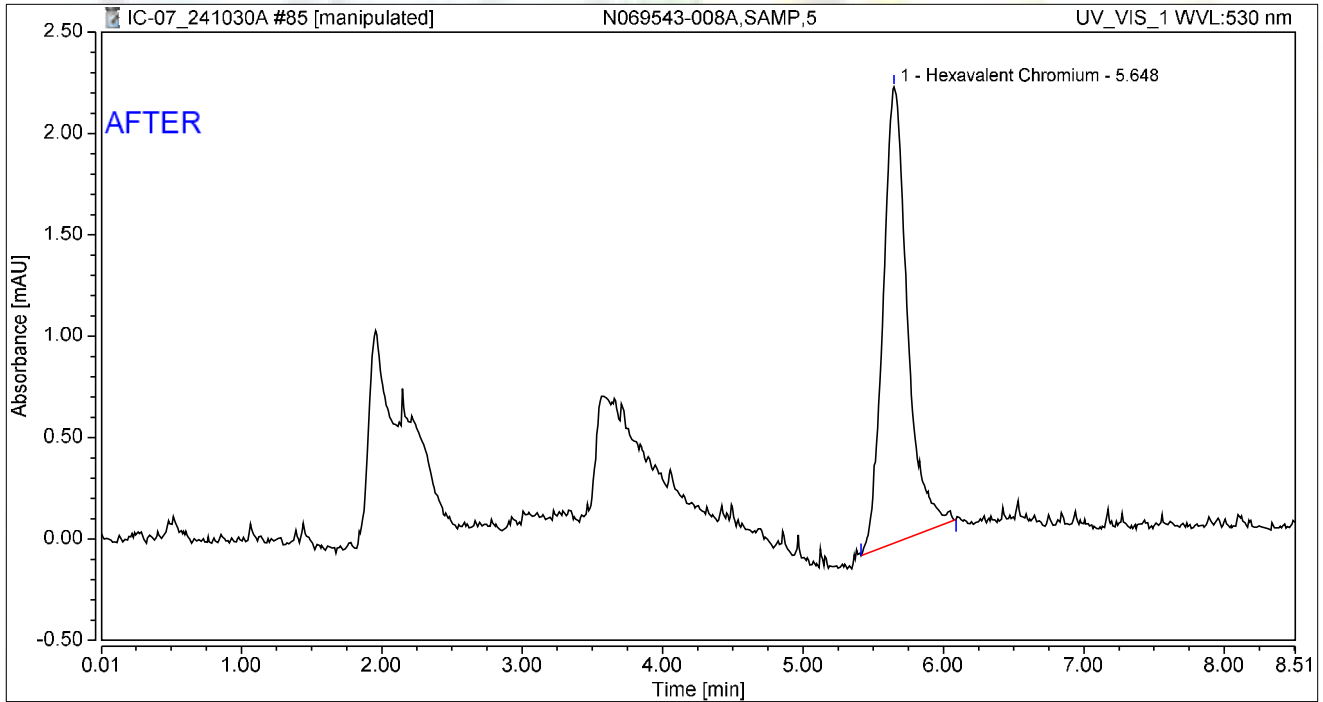
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-008A,SAMP,5	Run Time (min):	8.50
Vial Number:	41	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 21:45	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.648	0.452	2.250	100.00	100.00	1.5942
Total:			0.452	2.250	100.00	100.00	

Reviewed by:

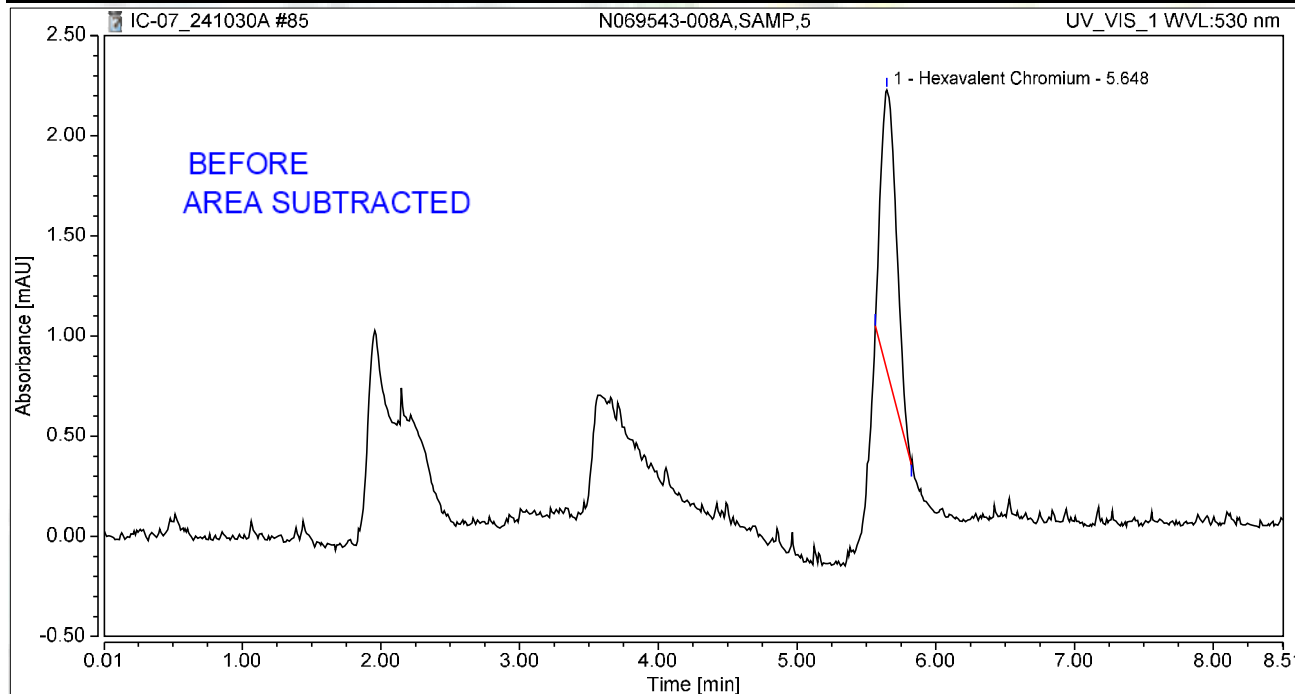
d/Recha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069543-008A,SAMP,5	Run Time (min):	8.50
Vial Number:	41	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 21:45	Sample Weight:	1.0000

Chromatogram



Integration Results

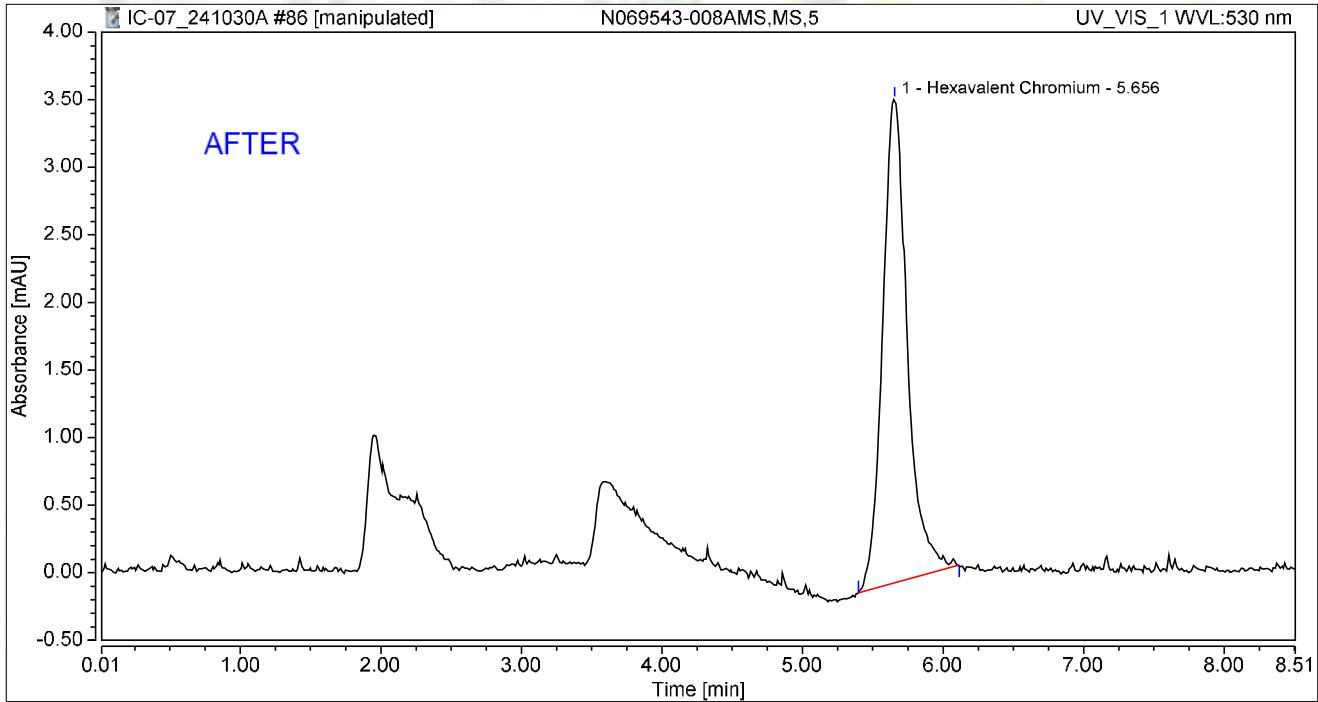
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.648	0.186	1.402	100.00	100.00	0.6562
Total:			0.186	1.402	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-008AMS,MS,5	Run Time (min):	8.49
Vial Number:	42	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 21:55	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.656	0.727	3.575	100.00	100.00	2.5618
Total:			0.727	3.575	100.00	100.00	

Reviewed by:

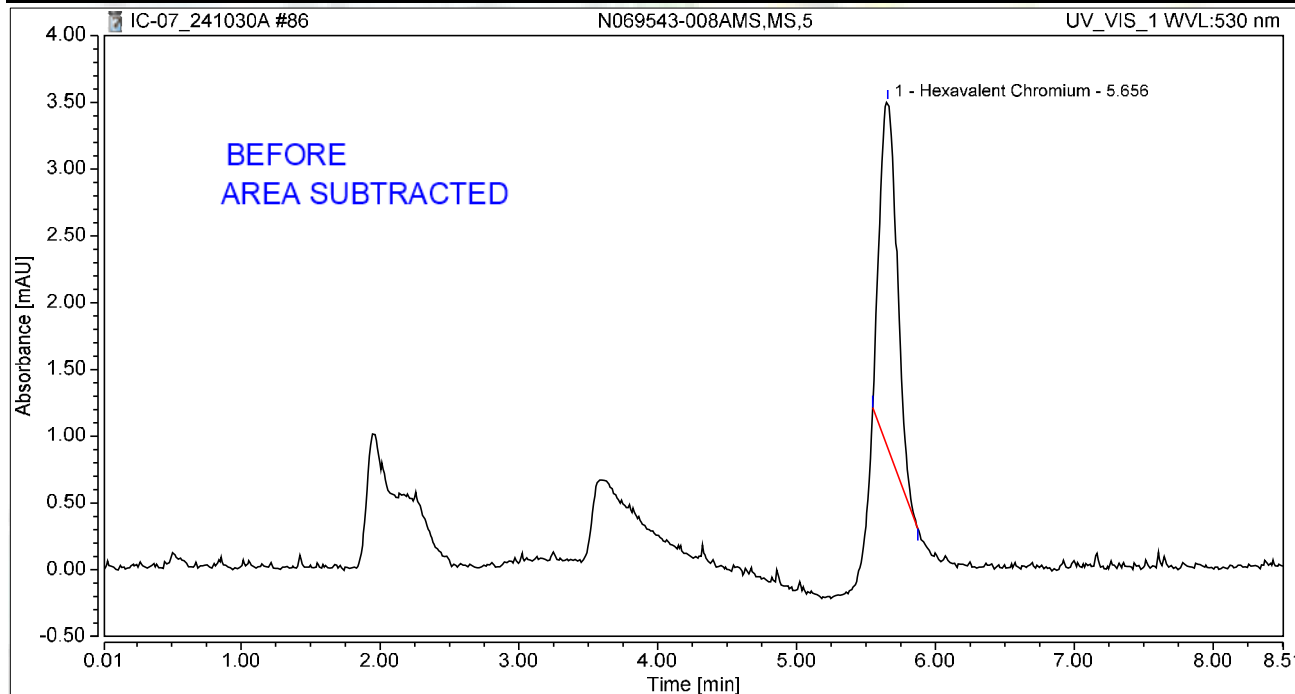
d/Rocha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069543-008AMS,MS,5	Run Time (min):	8.49
Vial Number:	42	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 21:55	Sample Weight:	1.0000

Chromatogram



Integration Results

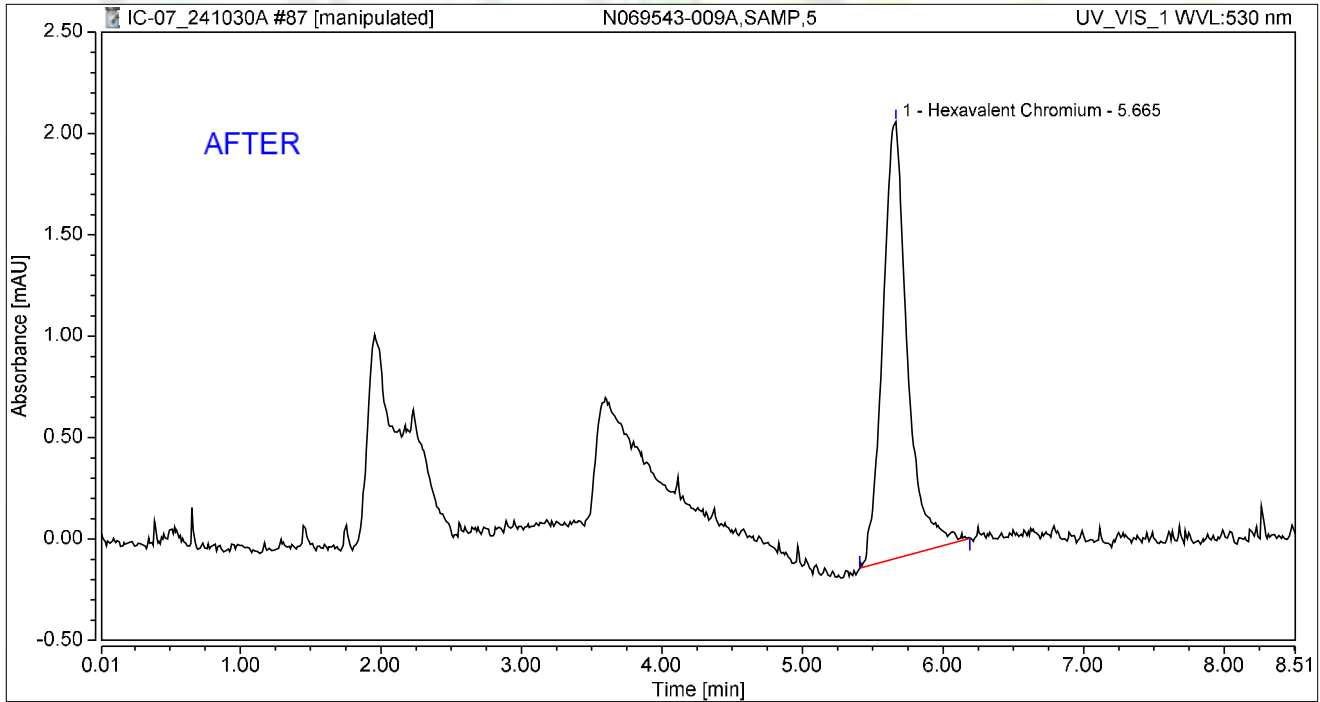
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.656	0.380	2.591	100.00	100.00	1.3388
Total:			0.380	2.591	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-009A,SAMP,5	Run Time (min):	8.49
Vial Number:	43	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 22:04	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.437	2.154	100.00	100.00	1.5410
Total:			0.437	2.154	100.00	100.00	

Reviewed by:

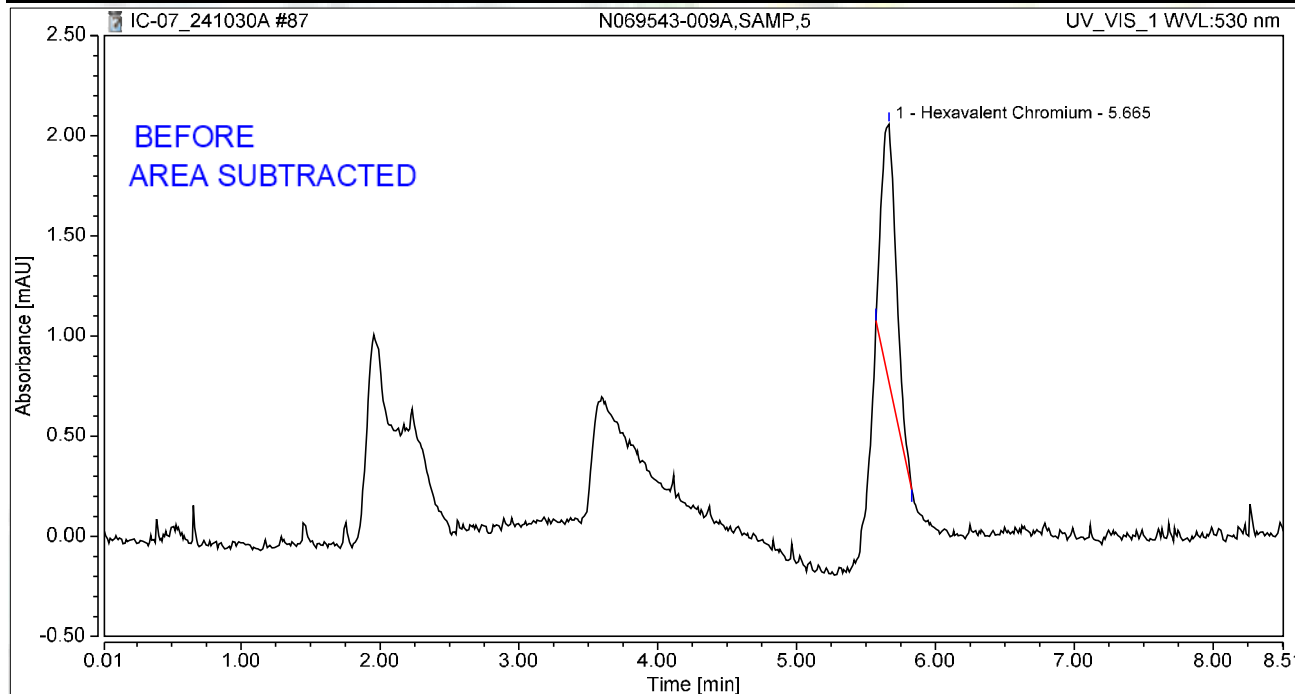
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Chromatogram and Results

Injection Details

Injection Name:	N069543-009A,SAMP,5	Run Time (min):	8.49
Vial Number:	43	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 22:04	Sample Weight:	1.0000

Chromatogram



Integration Results

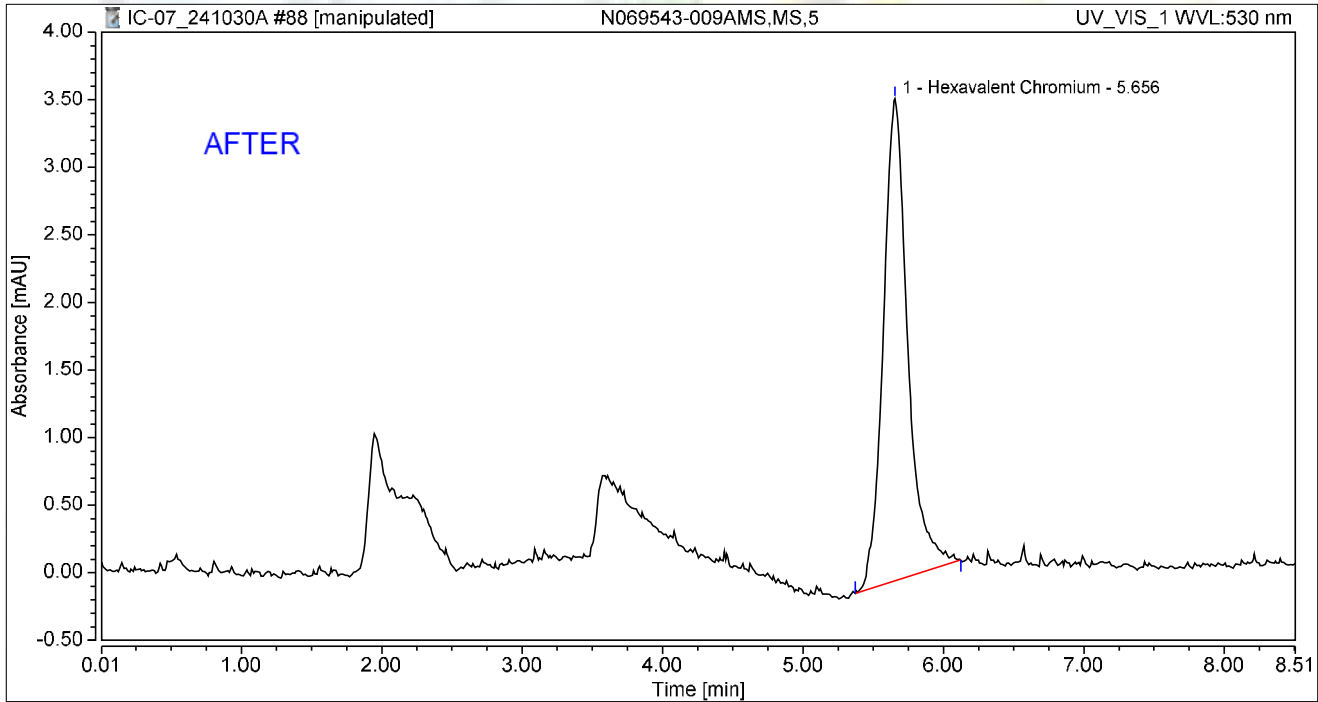
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.155	1.281	100.00	100.00	0.5446
Total:			0.155	1.281	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-009AMS,MS,5	Run Time (min):	8.50
Vial Number:	44	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 22:14	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.656	0.718	3.564	100.00	100.00	2.5322
Total:			0.718	3.564	100.00	100.00	

Reviewed by:

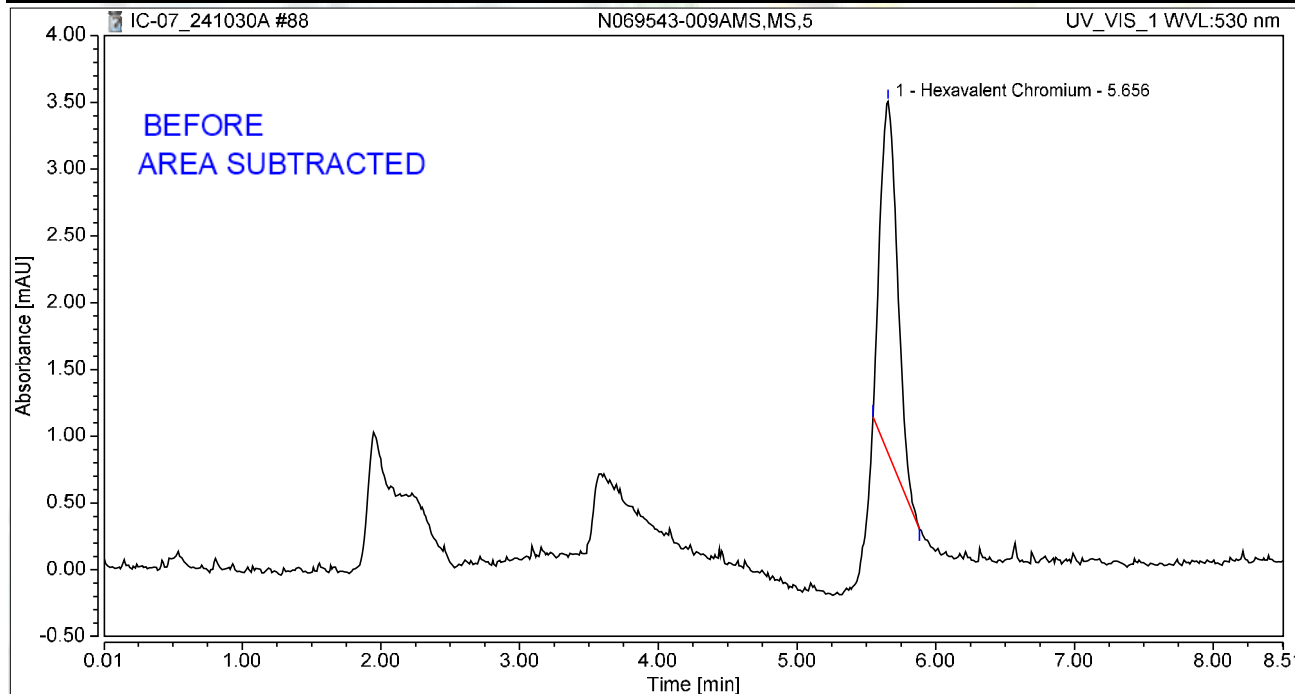
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Chromatogram and Results

Injection Details

Injection Name:	N069543-009AMS,MS,5	Run Time (min):	8.50
Vial Number:	44	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 22:14	Sample Weight:	1.0000

Chromatogram



Integration Results

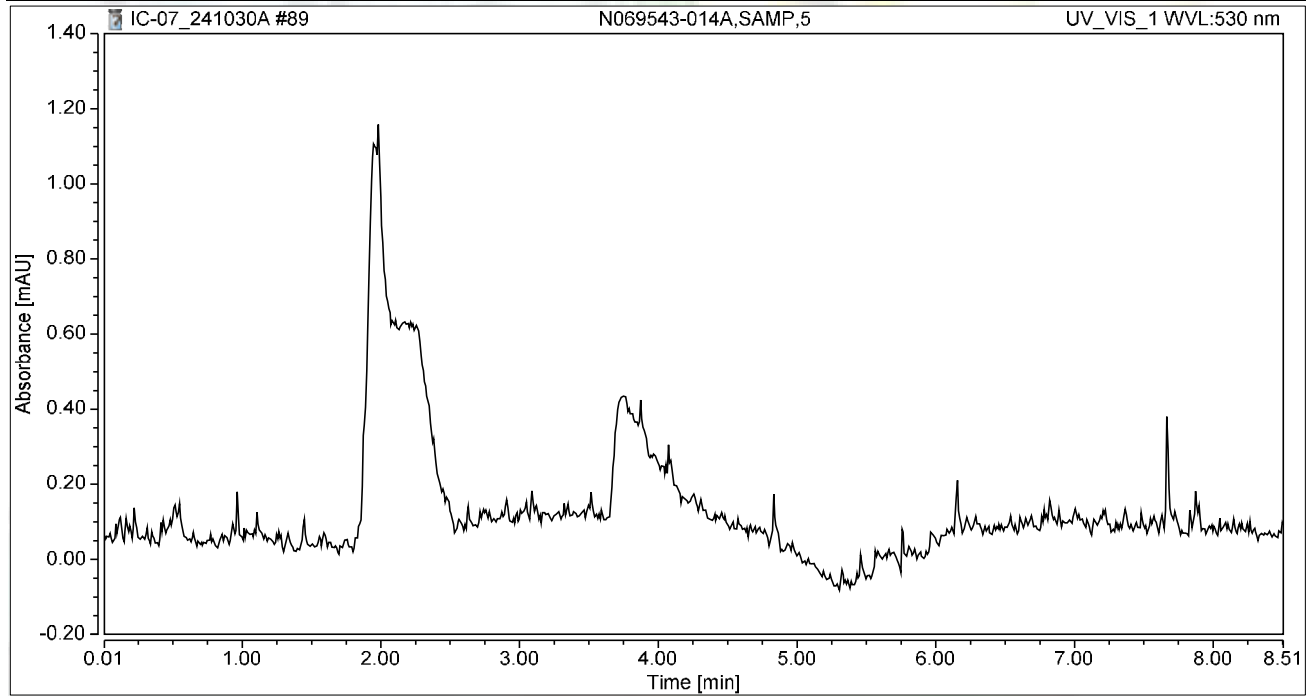
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.656	0.382	2.635	100.00	100.00	1.3470
Total:			0.382	2.635	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-014A,SAMP,5	Run Time (min):	8.50
Vial Number:	45	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 22:23	Sample Weight:	1.0000

Chromatogram



Integration Results

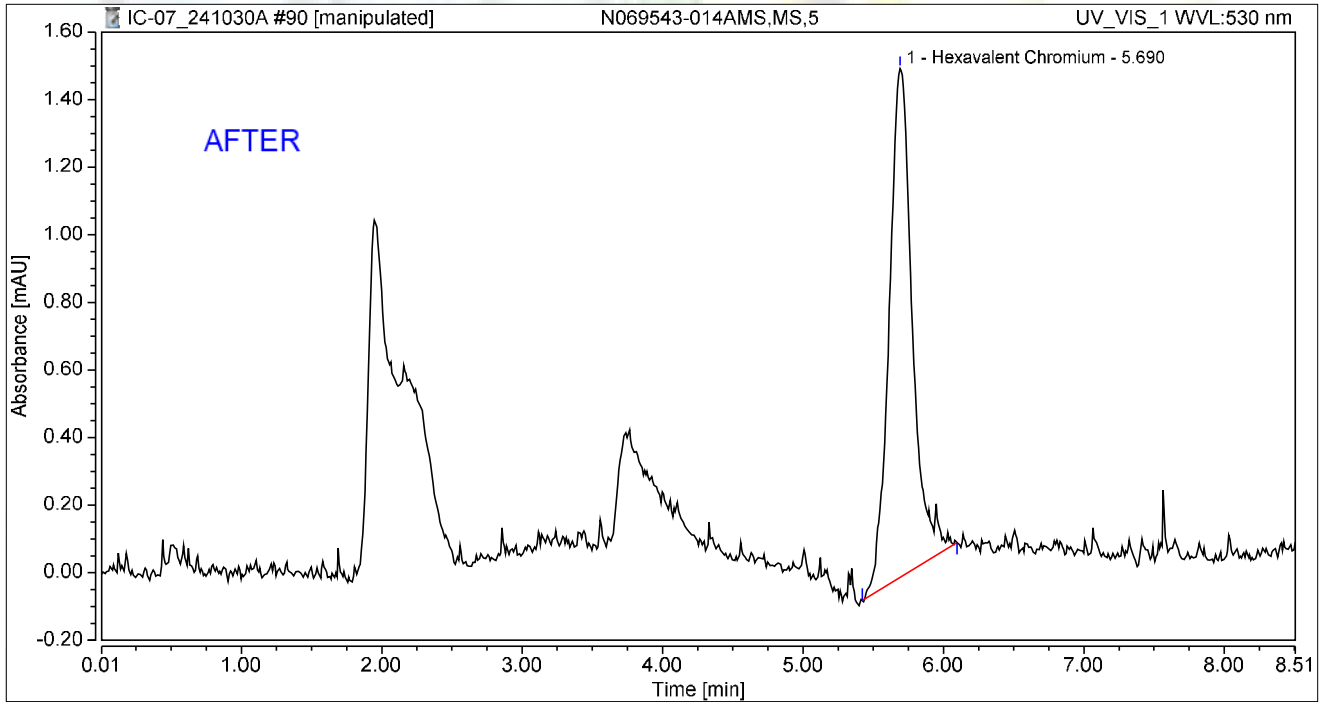
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-014AMS,MS,5	Run Time (min):	8.50
Vial Number:	46	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 22:33	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.289	1.506	100.00	100.00	1.0175
Total:			0.289	1.506	100.00	100.00	

Reviewed by:

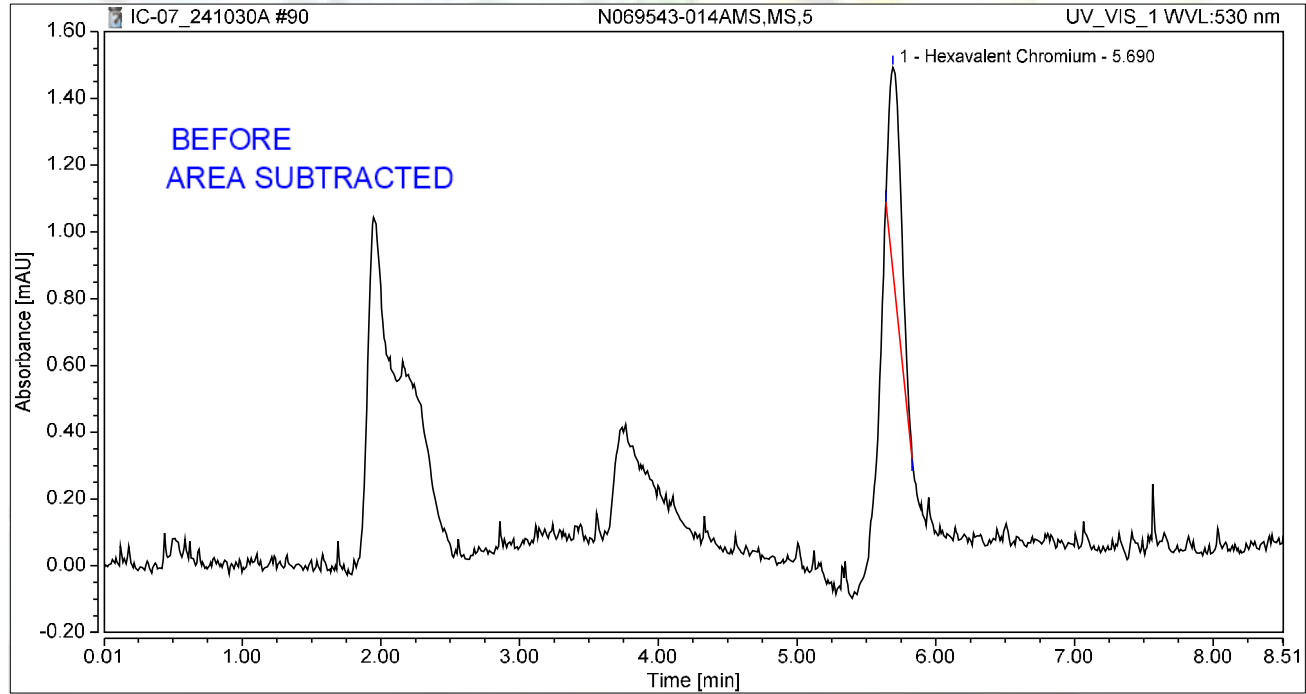
d/Recha 11/11/2024

Chromatogram and Results

Injection Details

Injection Name:	N069543-014AMS,MS,5	Run Time (min):	8.50
Vial Number:	46	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 22:33	Sample Weight:	1.0000

Chromatogram



Integration Results

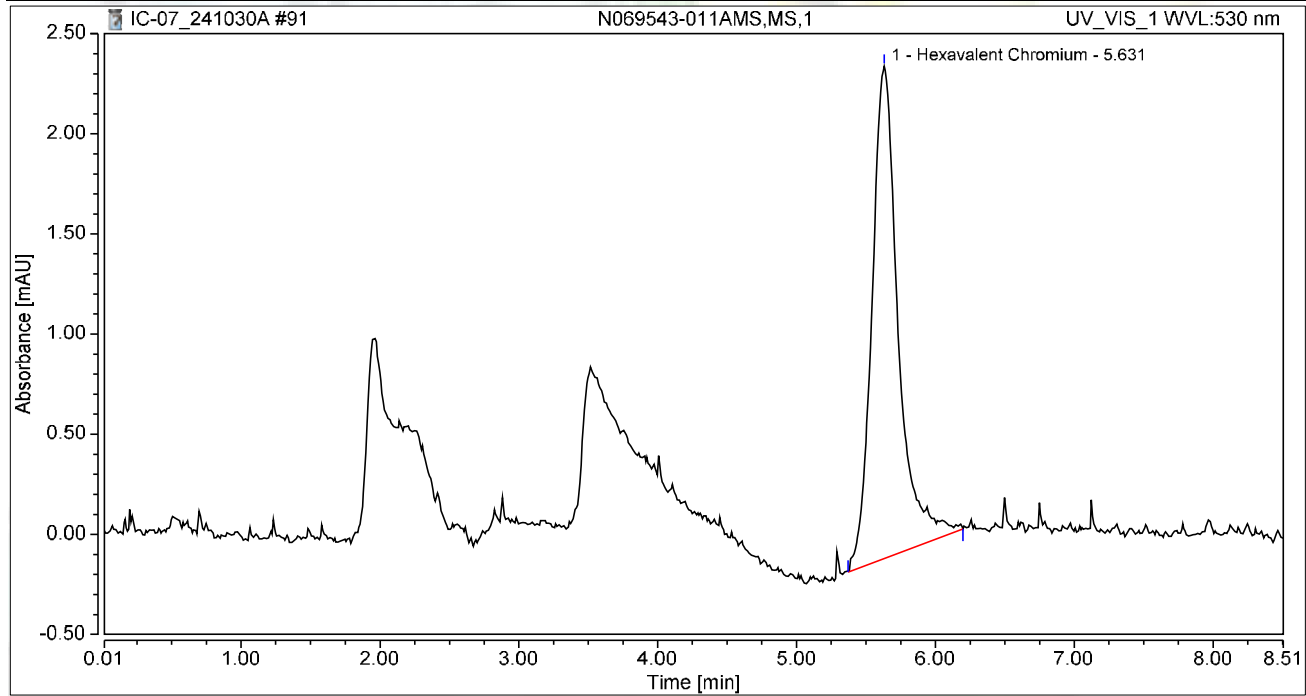
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.066	0.603	100.00	100.00	0.2321
Total:			0.066	0.603	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-011AMS,MS,1	Run Time (min):	8.49
Vial Number:	47	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 22:42	Sample Weight:	1.0000

Chromatogram



Integration Results

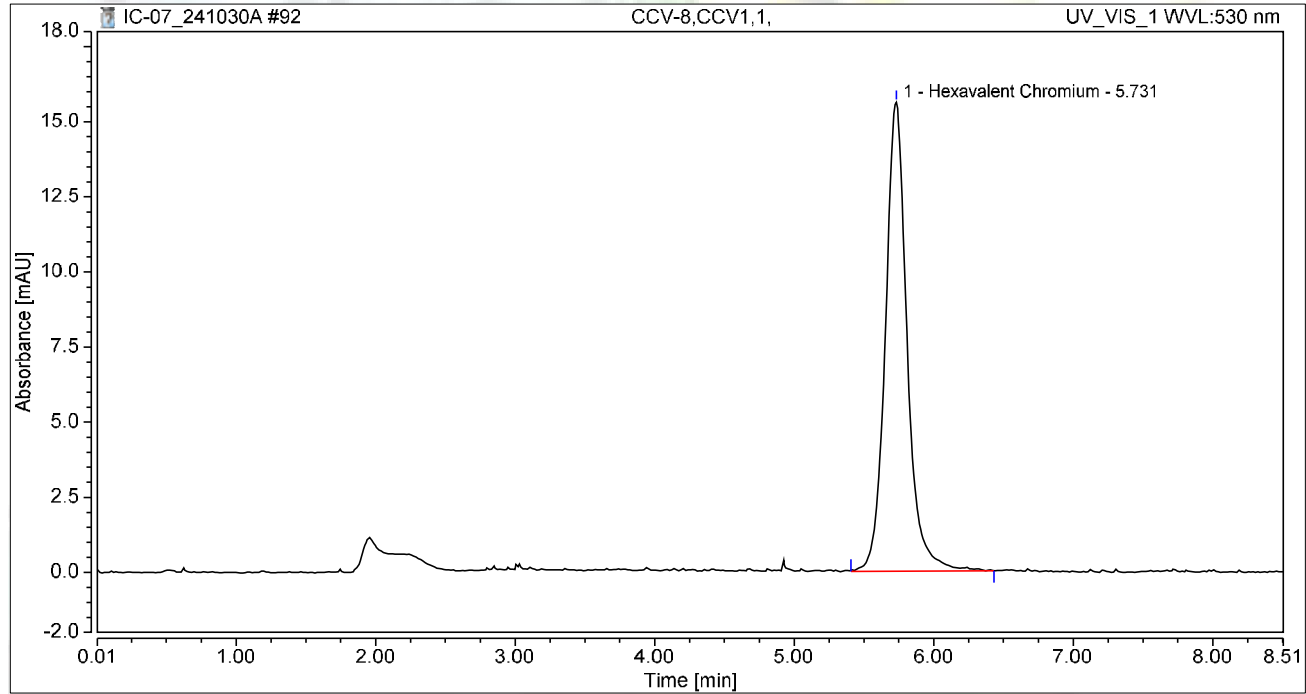
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.631	0.539	2.459	100.00	100.00	1.9000
Total:			0.539	2.459	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-8,CCV1,1,	Run Time (min):	8.50
Vial Number:	48	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 22:52	Sample Weight:	1.0000

Chromatogram



Integration Results

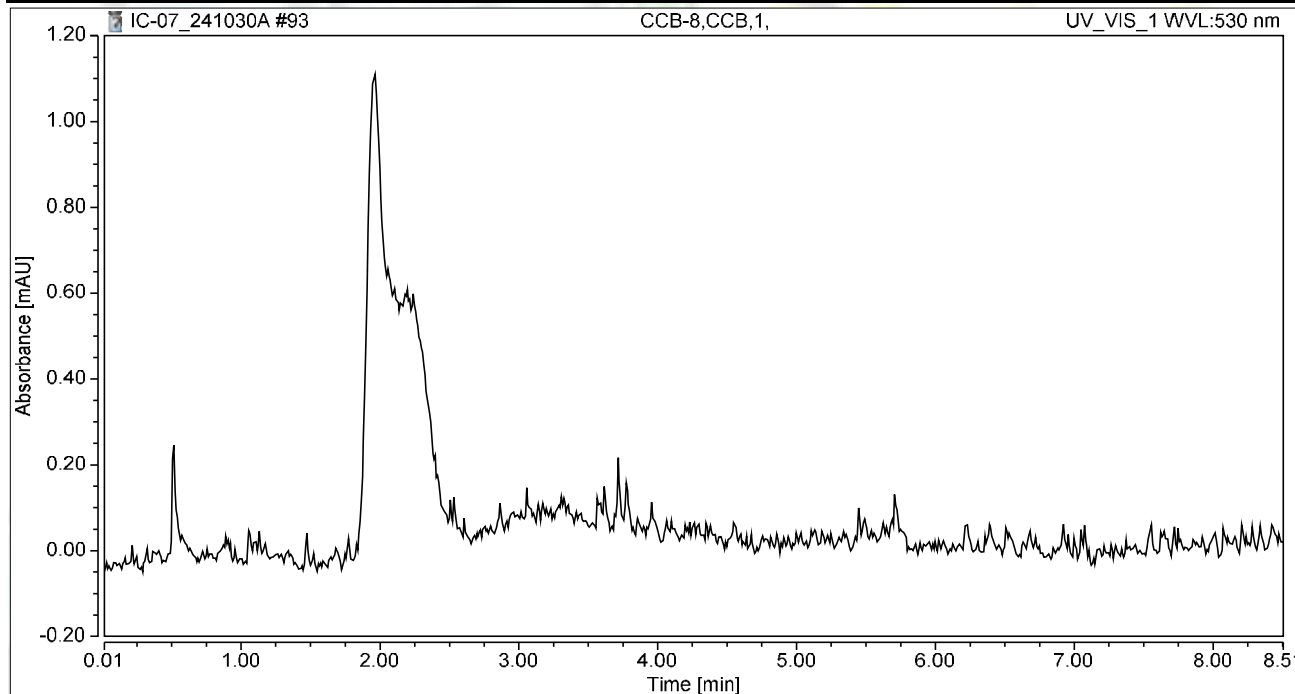
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	2.808	15.602	100.00	100.00	9.8950
Total:			2.808	15.602	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-8,CCB,1,	Run Time (min):	8.49
Vial Number:	49	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	30/Oct/24 23:01	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

RAW DATA



ASSET LABORATORIES
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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INJECTION LOG: 241031A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	10/31/24 9:46 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	10/31/24 9:59 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/31/24 10:08 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	10/31/24 10:18 AM	Reported
13	MB-R195071	MBLK	1	Hexavalent Chromium	10/31/24 10:27 AM	Reported
14	LCS-R195071	LCS	1	Hexavalent Chromium	10/31/24 10:37 AM	Reported
15	N069543-018A	SAMP	1	Hexavalent Chromium	10/31/24 10:46 AM	Reported
16	N069543-018AMS	MS	1	Hexavalent Chromium	10/31/24 10:56 AM	Reported
17	N069543-019A	SAMP	1	Hexavalent Chromium	10/31/24 11:05 AM	Not Reported
18	N069543-019AMS	MS	1	Hexavalent Chromium	10/31/24 11:15 AM	Not Reported
19	N069543-020A	SAMP	1	Hexavalent Chromium	10/31/24 11:24 AM	Not Reported
20	N069543-020AMS	MS	1	Hexavalent Chromium	10/31/24 11:33 AM	Not Reported
21	N069543-021A	SAMP	1	Hexavalent Chromium	10/31/24 11:43 AM	Reported
22	N069543-021AMS	MS	1	Hexavalent Chromium	10/31/24 11:52 AM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	10/31/24 12:02 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	10/31/24 12:11 PM	Reported
25	N069583-003A	SAMP	1	Hexavalent Chromium	10/31/24 12:22 PM	Not Reported
26	N069583-003AMS	MS	1	Hexavalent Chromium	10/31/24 12:33 PM	Not Reported
27	N069583-003A	SAMP	5	Hexavalent Chromium	10/31/24 12:43 PM	Reported
28	N069583-003AMS	MS	5	Hexavalent Chromium	10/31/24 12:52 PM	Reported
29	N069583-003AMSD	MSD	5	Hexavalent Chromium	10/31/24 1:02 PM	Reported
30	N069582-002A	SAMP	50	Hexavalent Chromium	10/31/24 1:52 PM	Not Reported
31	N069582-003A	SAMP	5	Hexavalent Chromium	10/31/24 2:05 PM	Reported
32	N069582-004A	SAMP	50	Hexavalent Chromium	10/31/24 2:14 PM	Not Reported
33	N069583-002A	SAMP	1	Hexavalent Chromium	10/31/24 2:24 PM	Not Reported
34	N069583-002AMS	MS	1	Hexavalent Chromium	10/31/24 2:33 PM	Not Reported
35	CCV-3	CCV	1	Hexavalent Chromium	10/31/24 2:43 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	10/31/24 2:52 PM	Reported
37	N069583-006A	SAMP	1	Hexavalent Chromium	10/31/24 3:02 PM	Reported
38	N069583-006AMS	MS	1	Hexavalent Chromium	10/31/24 3:11 PM	Reported
39	N069585-001A	SAMP	5	Hexavalent Chromium	10/31/24 3:21 PM	Reported
40	N069585-001AMS	MS	5	Hexavalent Chromium	10/31/24 3:30 PM	Reported
41	N069585-001ADUP	DUP	5	Hexavalent Chromium	10/31/24 3:39 PM	Reported
42	N069582-002A	SAMP	5	Hexavalent Chromium	10/31/24 4:04 PM	Reported

INJECTION LOG: 241031A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069582-002AMS	MS	5	Hexavalent Chromium	10/31/24 4:16 PM	Reported
44	N069582-003AMS	MS	5	Hexavalent Chromium	10/31/24 4:26 PM	Reported
45	N069582-004AMS	MS	50	Hexavalent Chromium	10/31/24 4:35 PM	Not Reported
46	N069543-019A	SAMP	5	Hexavalent Chromium	10/31/24 4:44 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	10/31/24 4:54 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	10/31/24 5:03 PM	Reported
49	N069543-019AMS	MS	5	Hexavalent Chromium	10/31/24 5:13 PM	Reported
50	N069543-020A	SAMP	5	Hexavalent Chromium	10/31/24 5:22 PM	Reported
51	N069543-020AMS	MS	5	Hexavalent Chromium	10/31/24 5:32 PM	Reported
52	N069582-001A	SAMP	1	Hexavalent Chromium	10/31/24 5:41 PM	Reported
53	N069582-001AMS	MS	1	Hexavalent Chromium	10/31/24 5:51 PM	Reported
54	N069583-001A	SAMP	5	Hexavalent Chromium	10/31/24 6:00 PM	Reported
55	N069583-001AMS	MS	5	Hexavalent Chromium	10/31/24 6:10 PM	Reported
56	N069583-002A	SAMP	5	Hexavalent Chromium	10/31/24 6:19 PM	Reported
57	N069583-002AMS	MS	5	Hexavalent Chromium	10/31/24 6:28 PM	Reported
58	N069583-004A	SAMP	1	Hexavalent Chromium	10/31/24 6:38 PM	Not Reported
59	CCV-5	CCV	1	Hexavalent Chromium	10/31/24 6:47 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	10/31/24 6:57 PM	Reported
61	N069583-004AMS	MS	1	Hexavalent Chromium	10/31/24 7:06 PM	Not Reported
62	N069583-004A	SAMP	5	Hexavalent Chromium	10/31/24 7:16 PM	Reported
63	N069583-004AMS	MS	5	Hexavalent Chromium	10/31/24 7:25 PM	Reported
64	N069583-005A	SAMP	1	Hexavalent Chromium	10/31/24 7:35 PM	Reported
65	N069583-005AMS	MS	1	Hexavalent Chromium	10/31/24 7:44 PM	Reported
66	N069583-007A	SAMP	1	Hexavalent Chromium	10/31/24 7:54 PM	Reported
67	N069583-007AMS	MS	1	Hexavalent Chromium	10/31/24 8:03 PM	Reported
68	N069583-008A	SAMP	1	Hexavalent Chromium	10/31/24 8:12 PM	Not Reported
69	N069583-008AMS	MS	1	Hexavalent Chromium	10/31/24 8:22 PM	Not Reported
70	N069583-008A	SAMP	5	Hexavalent Chromium	10/31/24 8:31 PM	Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	10/31/24 8:41 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	10/31/24 8:50 PM	Reported
73	N069583-008AMS	MS	5	Hexavalent Chromium	10/31/24 9:00 PM	Reported
74	N069583-009A	SAMP	1	Hexavalent Chromium	10/31/24 9:09 PM	Not Reported
75	N069583-009AMS	MS	1	Hexavalent Chromium	10/31/24 9:19 PM	Not Reported
76	N069583-009A	SAMP	5	Hexavalent Chromium	10/31/24 9:28 PM	Reported
77	N069583-009AMS	MS	5	Hexavalent Chromium	10/31/24 9:38 PM	Reported
78	N069583-010A	SAMP	1	Hexavalent Chromium	10/31/24 9:47 PM	Not Reported
79	N069583-010AMS	MS	1	Hexavalent Chromium	10/31/24 9:56 PM	Not Reported
80	N069583-010A	SAMP	5	Hexavalent Chromium	10/31/24 10:06 PM	Reported
81	N069583-010AMS	MS	5	Hexavalent Chromium	10/31/24 10:15 PM	Reported
82	N069583-011A	SAMP	1	Hexavalent Chromium	10/31/24 10:25 PM	Reported
83	CCV-7	CCV	1	Hexavalent Chromium	10/31/24 10:34 PM	Reported
84	CCB-7	CCB	1	Hexavalent Chromium	10/31/24 10:44 PM	Reported

INJECTION LOG: 241031A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N069583-011AMS	MS	1	Hexavalent Chromium	10/31/24 10:53 PM	Reported
86	CCV-8	CCV1	1	Hexavalent Chromium	10/31/24 11:03 PM	Reported
87	CCB-8	CCB	1	Hexavalent Chromium	10/31/24 11:12 PM	Reported
88	BLANK	BLANK	1	Hexavalent Chromium	10/31/24 11:22 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241031A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	31/Oct/24 23:52:19
No. of Injections:	91	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	BLANK	1	1000	Unknown		10/31/2024 09:46	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		10/31/2024 09:59	Finished	CCV @5ppb, IWST-240729A
11	PQL@0.2ppb,CCV2,	3	1000	Unknown		10/31/2024 10:08	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		10/31/2024 10:18	Finished	CCB R241001A
13	MB-H2O,MBLK,1,	5	1000	Unknown		10/31/2024 10:27	Finished	MB R241001A
14	LCS-H2O,LCS,1,	6	1000	Unknown		10/31/2024 10:37	Finished	LCS @5ppb, IWST-240729B
15	N069543-018A,SAMP	7	1000	Unknown		10/31/2024 10:46	Finished	SAMP,10 mL
16	N069543-018AMS,M\$	8	1000	Unknown		10/31/2024 10:56	Finished	MS (1ppb), IWST-240729B,10r
17	N069543-019A,SAMP	9	1000	Unknown		10/31/2024 11:05	Finished	SAMP,10 mL
18	N069543-019AMS,M\$	10	1000	Unknown		10/31/2024 11:15	Finished	MS (1ppb), IWST-240729B,10r
19	N069543-020A,SAMP	11	1000	Unknown		10/31/2024 11:24	Finished	SAMP,10 mL
20	N069543-020AMS,M\$	12	1000	Unknown		10/31/2024 11:33	Finished	MS (1ppb), IWST-240729B,10r
21	N069543-021A,SAMP	13	1000	Unknown		10/31/2024 11:43	Finished	SAMP,10 mL
22	N069543-021AMS,M\$	14	1000	Unknown		10/31/2024 11:52	Finished	MS (1ppb), IWST-240729B,10r
23	CCV-2,CCV1,1,	15	1000	Unknown		10/31/2024 12:02	Finished	CCV @10ppb, IWST-240729A
24	CCB-2,CCB,1,	16	1000	Unknown		10/31/2024 12:11	Finished	CCB R241001A
25	N069583-003A,SAMP	1	1000	Unknown		10/31/2024 12:22	Finished	SAMP,10 mL
26	N069583-003AMS,M\$	2	1000	Unknown		10/31/2024 12:33	Finished	MS (1ppb), IWST-240729B,10r
27	N069583-003A,SAMP	3	1000	Unknown		10/31/2024 12:43	Finished	SAMP,2>10 mL
28	N069583-003AMS,M\$	4	1000	Unknown		10/31/2024 12:52	Finished	MS (1ppb), IWST-240729B,2>
29	N069583-003AMSD,M	5	1000	Unknown		10/31/2024 13:02	Finished	MSD (1ppb), IWST-240729B,2>
30	N069582-002A,SAMP	1	1000	Unknown		10/31/2024 13:52	Finished	SAMP,0.2>10 mL
31	N069582-003A,SAMP	2	1000	Unknown		10/31/2024 14:05	Finished	SAMP,2>10 mL
32	N069582-004A,SAMP	3	1000	Unknown		10/31/2024 14:14	Finished	SAMP,0.2>10 mL
33	N069583-002A,SAMP	4	1000	Unknown		10/31/2024 14:24	Finished	SAMP,10 mL
34	N069583-002AMS,M\$	5	1000	Unknown		10/31/2024 14:33	Finished	MS (1ppb), IWST-240729B,10r
35	CCV-3,CCV,1,	6	1000	Unknown		10/31/2024 14:43	Finished	CCV @5ppb, IWST-240729A
36	CCB-3,CCB,1,	7	1000	Unknown		10/31/2024 14:52	Finished	CCB R241001A
37	N069583-006A,SAMP	8	1000	Unknown		10/31/2024 15:02	Finished	SAMP,10 mL
38	N069583-006AMS,M\$	9	1000	Unknown		10/31/2024 15:11	Finished	MS (1ppb), IWST-240729B,10r
39	N069585-001A,SAMP	10	1000	Unknown		10/31/2024 15:21	Finished	SAMP,2>10 mL
40	N069585-001AMS,M\$	11	1000	Unknown		10/31/2024 15:30	Finished	MS (5ppb), IWST-240729B,2>
41	N069585-001ADUP,D	12	1000	Unknown		10/31/2024 15:39	Finished	DUP,2>10 mL
42	N069582-002A,SAMP	1	1000	Unknown		10/31/2024 16:04	Finished	SAMP,2>10 mL
43	N069582-002AMS,M\$	2	1000	Unknown		10/31/2024 16:16	Finished	MS (5ppb), IWST-240729B,2>
44	N069582-003AMS,M\$	3	1000	Unknown		10/31/2024 16:26	Finished	MS (5ppb), IWST-240729B,2>
45	N069582-004AMS,M\$	4	1000	Unknown		10/31/2024 16:35	Finished	MS (5ppb), IWST-240729B,0.2
46	N069543-019A,SAMP	5	1000	Unknown		10/31/2024 16:44	Finished	SAMP,2>10 mL
47	CCV-4,CCV1,1,	6	1000	Unknown		10/31/2024 16:54	Finished	CCV @10ppb, IWST-240729A
48	CCB-4,CCB,1,	7	1000	Unknown		10/31/2024 17:03	Finished	CCB R241001A
49	N069543-019AMS,M\$	8	1000	Unknown		10/31/2024 17:13	Finished	MS (1ppb), IWST-240729B,2>
50	N069543-020A,SAMP	9	1000	Unknown		10/31/2024 17:22	Finished	SAMP,2>10 mL
51	N069543-020AMS,M\$	10	1000	Unknown		10/31/2024 17:32	Finished	MS (1ppb), IWST-240729B,2>
52	N069582-001A,SAMP	11	1000	Unknown		10/31/2024 17:41	Finished	SAMP,10 mL
53	N069582-001AMS,M\$	12	1000	Unknown		10/31/2024 17:51	Finished	MS (1ppb), IWST-240729B,10r
54	N069583-001A,SAMP	13	1000	Unknown		10/31/2024 18:00	Finished	SAMP,2>10 mL
55	N069583-001AMS,M\$	14	1000	Unknown		10/31/2024 18:10	Finished	MS (1ppb), IWST-240729B,2>
56	N069583-002A,SAMP	15	1000	Unknown		10/31/2024 18:19	Finished	SAMP,2>10 mL
57	N069583-002AMS,M\$	16	1000	Unknown		10/31/2024 18:28	Finished	MS (1ppb), IWST-240729B,2>
58	N069583-004A,SAMP	17	1000	Unknown		10/31/2024 18:38	Finished	SAMP,10 mL
59	CCV-5,CCV,1,	18	1000	Unknown		10/31/2024 18:47	Finished	CCV @5ppb, IWST-240729A
60	CCB-5,CCB,1,	19	1000	Unknown		10/31/2024 18:57	Finished	CCB R241001A

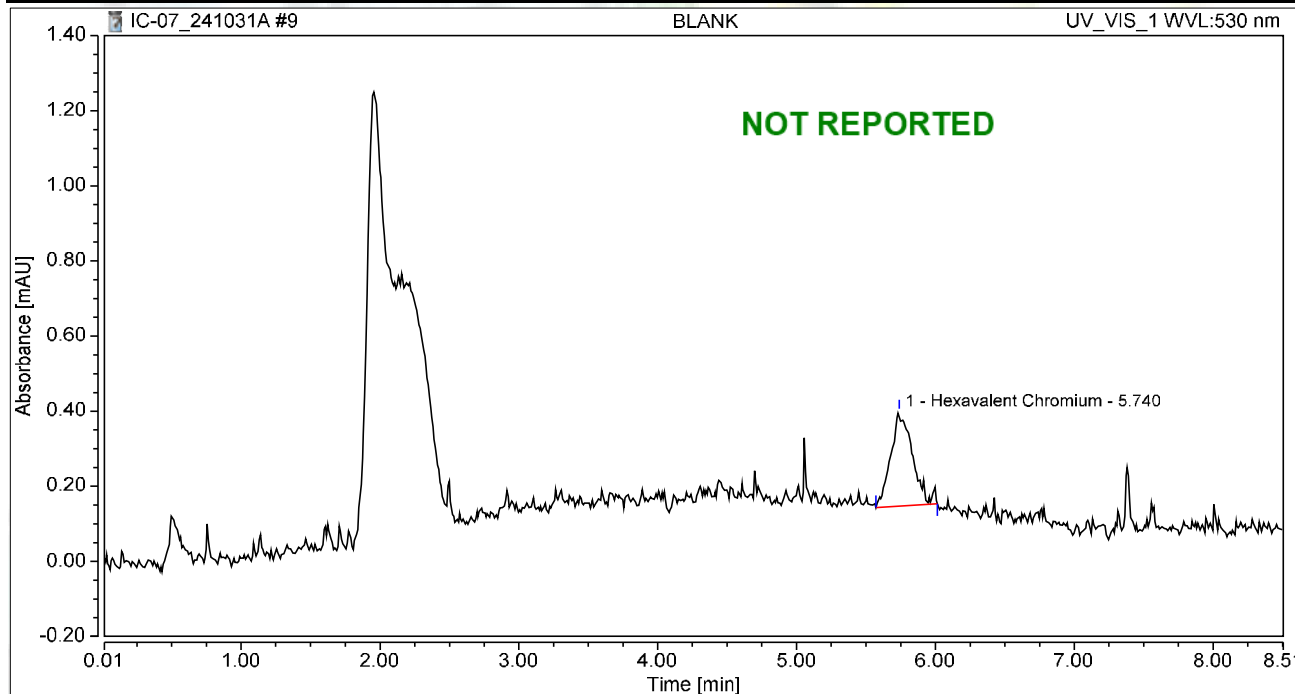
61	N069583-004AMS.M\$	20	1000	Unknown	10/31/2024 19:06	Finished	MS (1ppb), IWST-240729B,10r
62	N069583-004A,SAMP	21	1000	Unknown	10/31/2024 19:16	Finished	SAMP,2>10 mL
63	N069583-004AMS.M\$	22	1000	Unknown	10/31/2024 19:25	Finished	MS (1ppb), IWST-240729B,2>
64	N069583-005A,SAMP	23	1000	Unknown	10/31/2024 19:35	Finished	SAMP,10 mL
65	N069583-005AMS.M\$	24	1000	Unknown	10/31/2024 19:44	Finished	MS (1ppb), IWST-240729B,10r
66	N069583-007A,SAMP	25	1000	Unknown	10/31/2024 19:54	Finished	SAMP,10 mL
67	N069583-007AMS.M\$	26	1000	Unknown	10/31/2024 20:03	Finished	MS (1ppb), IWST-240729B,10r
68	N069583-008A,SAMP	27	1000	Unknown	10/31/2024 20:12	Finished	SAMP,10 mL
69	N069583-008AMS.M\$	28	1000	Unknown	10/31/2024 20:22	Finished	MS (1ppb), IWST-240729B,10r
70	N069583-008A,SAMP	29	1000	Unknown	10/31/2024 20:31	Finished	SAMP,2>10 mL
71	CCV-6,CCV1,1,	30	1000	Unknown	10/31/2024 20:41	Finished	CCV @10ppb, IWST-240729A
72	CCB-6,CCB,1,	31	1000	Unknown	10/31/2024 20:50	Finished	CCB R241001A
73	N069583-008AMS.M\$	32	1000	Unknown	10/31/2024 21:00	Finished	MS (1ppb), IWST-240729B,2>
74	N069583-009A,SAMP	33	1000	Unknown	10/31/2024 21:09	Finished	SAMP,10 mL
75	N069583-009AMS.M\$	34	1000	Unknown	10/31/2024 21:19	Finished	MS (1ppb), IWST-240729B,10r
76	N069583-009A,SAMP	35	1000	Unknown	10/31/2024 21:28	Finished	SAMP,2>10 mL
77	N069583-009AMS.M\$	36	1000	Unknown	10/31/2024 21:38	Finished	MS (1ppb), IWST-240729B,2>
78	N069583-010A,SAMP	37	1000	Unknown	10/31/2024 21:47	Finished	SAMP,10 mL
79	N069583-010AMS.M\$	38	1000	Unknown	10/31/2024 21:56	Finished	MS (1ppb), IWST-240729B,10r
80	N069583-010A,SAMP	39	1000	Unknown	10/31/2024 22:06	Finished	SAMP,2>10 mL
81	N069583-010AMS.M\$	40	1000	Unknown	10/31/2024 22:15	Finished	MS (1ppb), IWST-240729B,2>
82	N069583-011A,SAMP	41	1000	Unknown	10/31/2024 22:25	Finished	SAMP,10 mL
83	CCV-7,CCV,1,	42	1000	Unknown	10/31/2024 22:34	Finished	CCV @5ppb, IWST-240729A
84	CCB-7,CCB,1,	43	1000	Unknown	10/31/2024 22:44	Finished	CCB R241001A
85	N069583-011AMS.M\$	44	1000	Unknown	10/31/2024 22:53	Finished	MS (1ppb), IWST-240729B,10r
86	CCV-8,CCV1,1,	45	1000	Unknown	10/31/2024 23:03	Finished	CCV @10ppb, IWST-240729A
87	CCB-8,CCB,1,	46	1000	Unknown	10/31/2024 23:12	Finished	CCB R241001A
88	BLANK	47	1000	Unknown	10/31/2024 23:22	Finished	BLANK
89	SHUTDOWN	48	1000	Unknown	10/31/2024 23:31	Finished	
90	Eluent: R241029A	49	1000	Unknown	n.a.	Finished	
91	PCR: R241029B	50	1000	Unknown	n.a.	Finished	

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 09:46	Sample Weight:	1.0000

Chromatogram



Integration Results

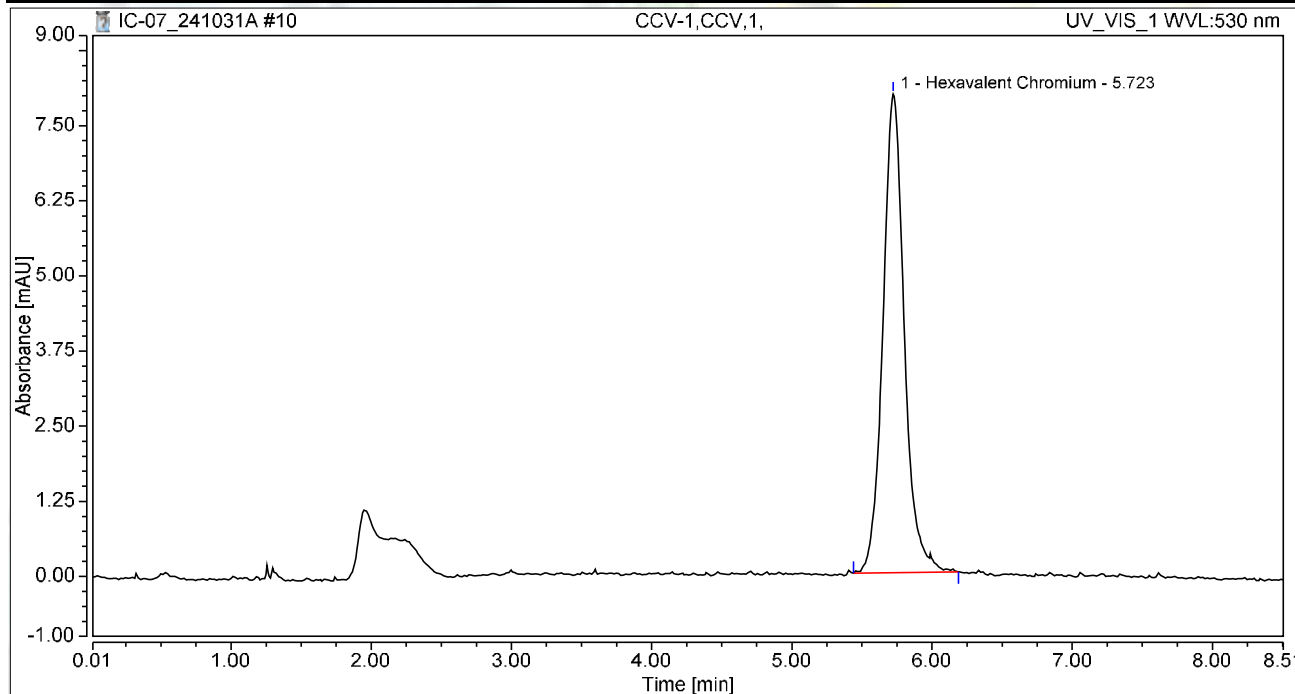
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	0.045	0.251	100.00	100.00	0.1599
Total:			0.045	0.251	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-1,CCV,1,	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 09:59	Sample Weight:	1.0000

Chromatogram



Integration Results

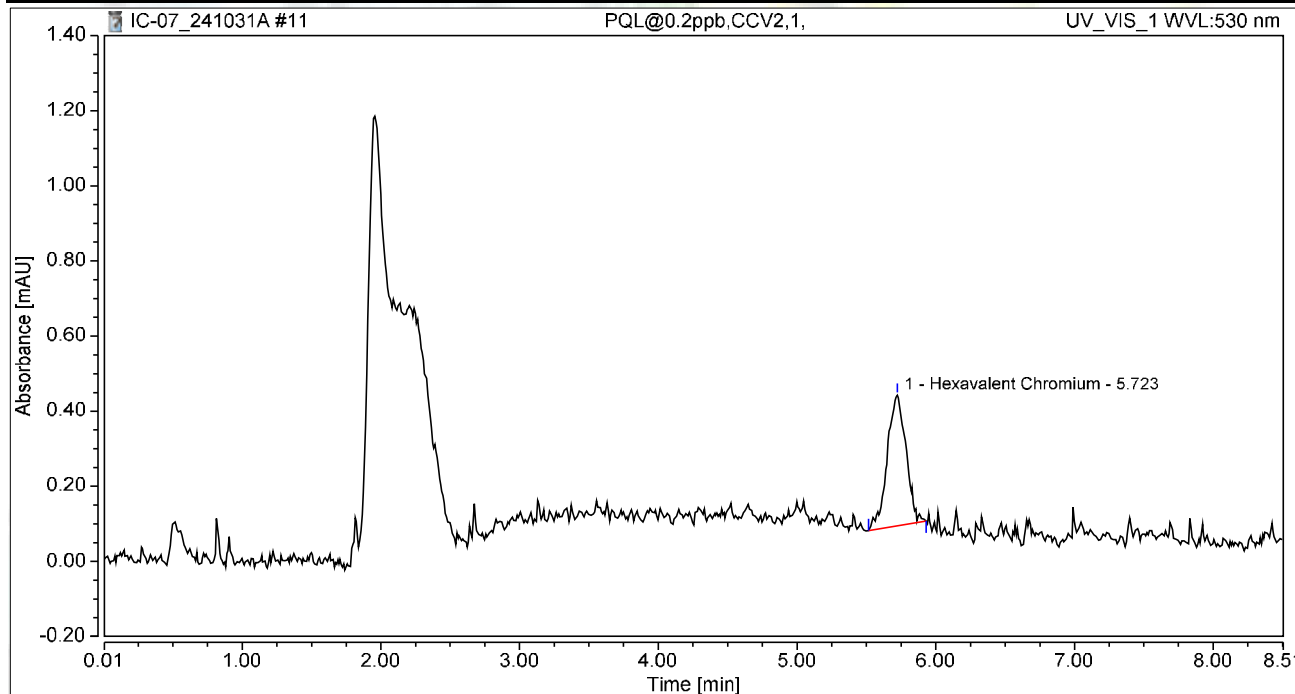
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	1.404	7.967	100.00	100.00	4.9477
Total:			1.404	7.967	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 10:08	Sample Weight:	1.0000

Chromatogram



Integration Results

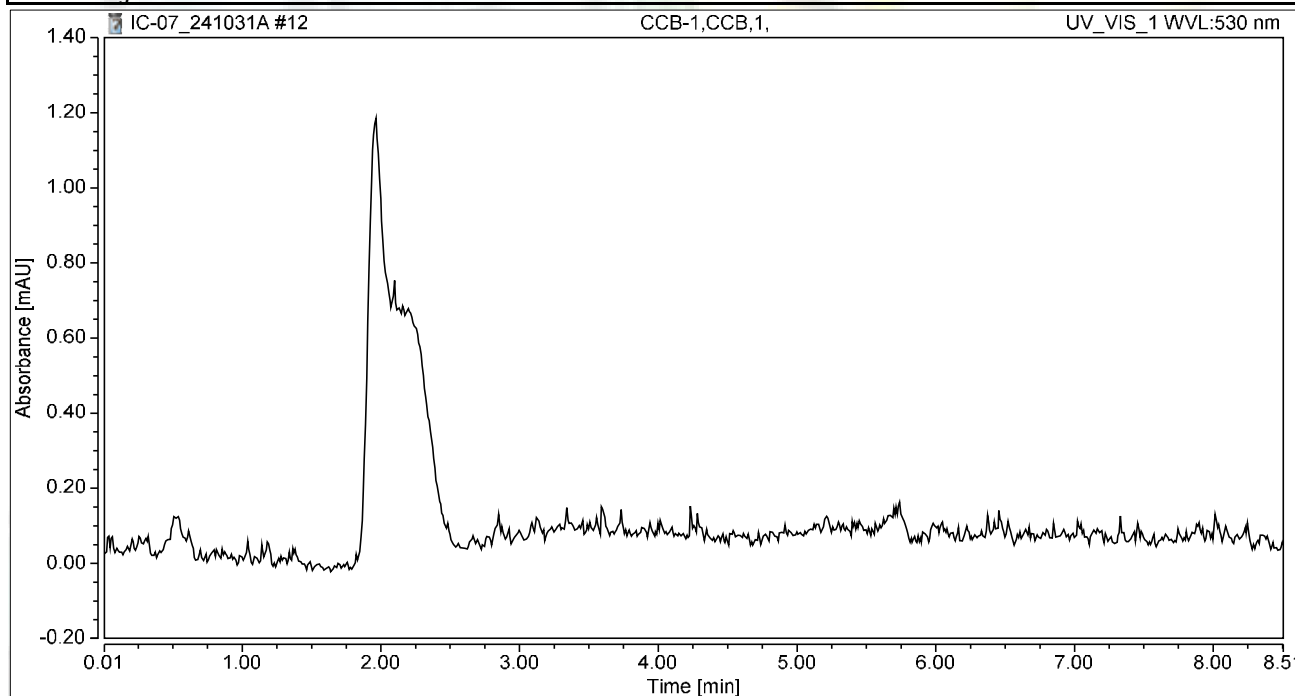
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.055	0.348	100.00	100.00	0.1930
Total:			0.055	0.348	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-1,CCB,1,	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 10:18	Sample Weight:	1.0000

Chromatogram



Integration Results

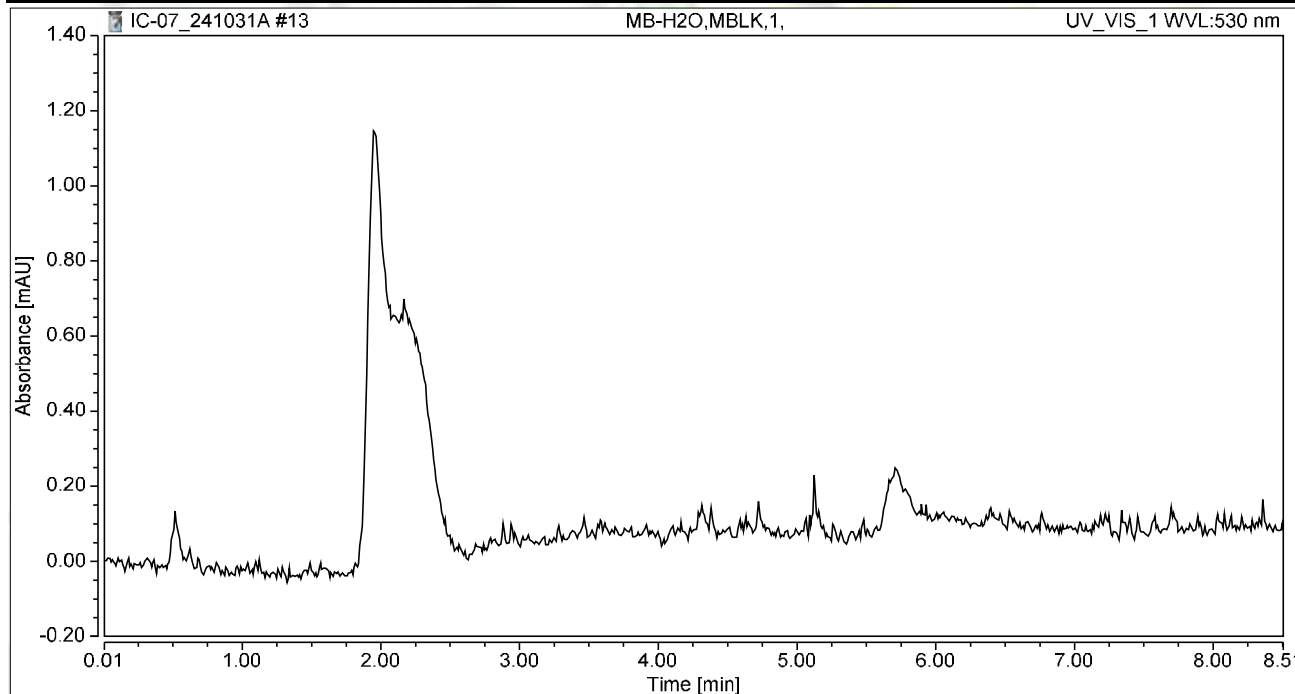
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 10:27	Sample Weight:	1.0000

Chromatogram



Integration Results

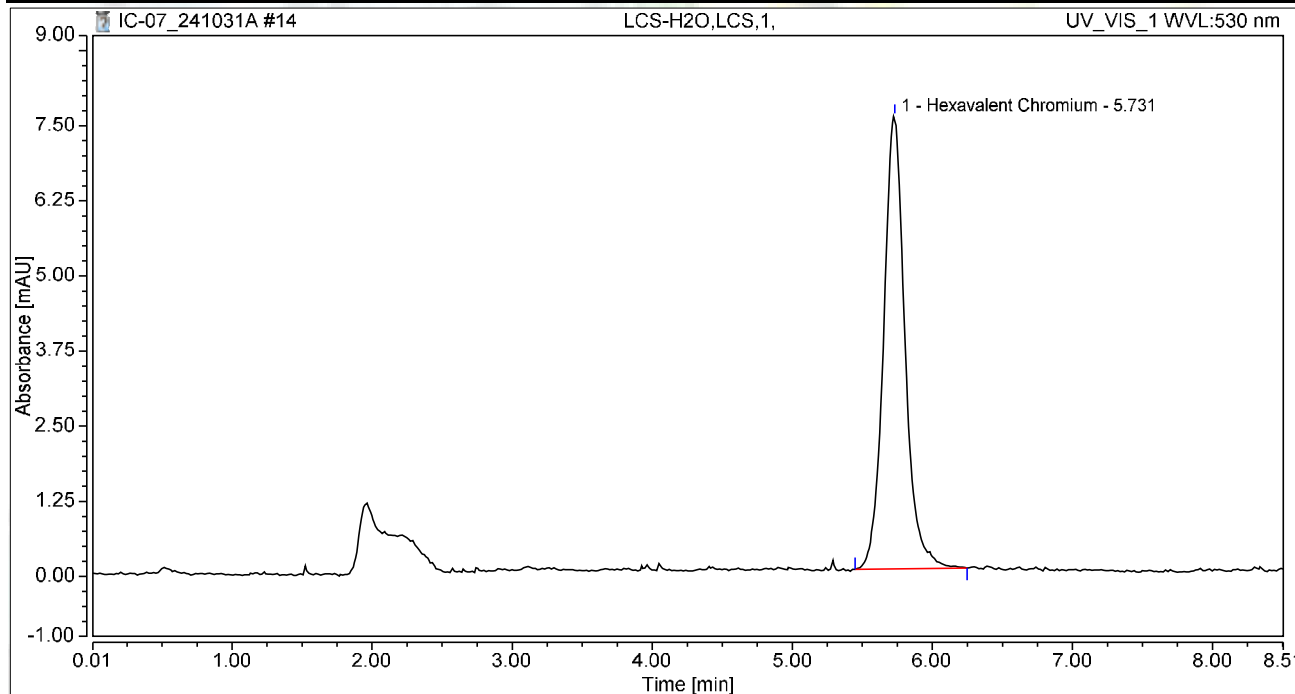
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-H2O,LCS,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 10:37	Sample Weight:	1.0000

Chromatogram



Integration Results

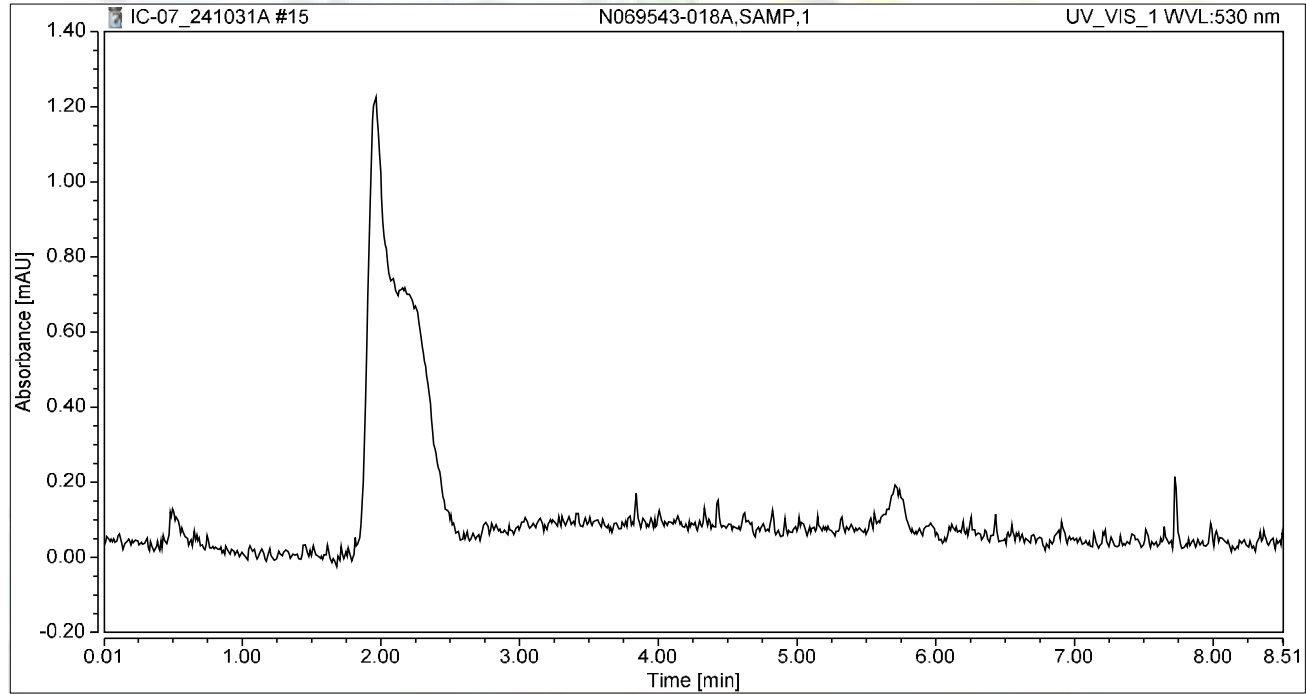
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	1.338	7.532	100.00	100.00	4.7137
Total:			1.338	7.532	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-018A,SAMP,1	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 10:46	Sample Weight:	1.0000

Chromatogram



Integration Results

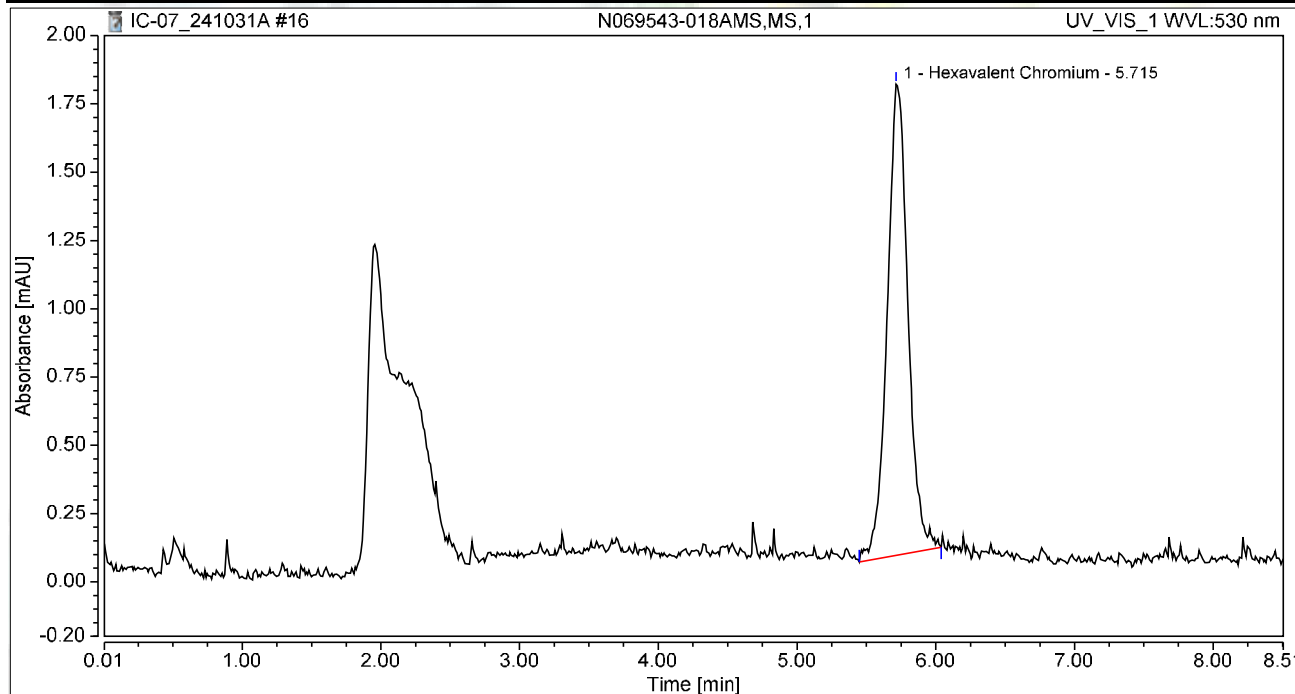
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-018AMS,MS,1	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 10:56	Sample Weight:	1.0000

Chromatogram



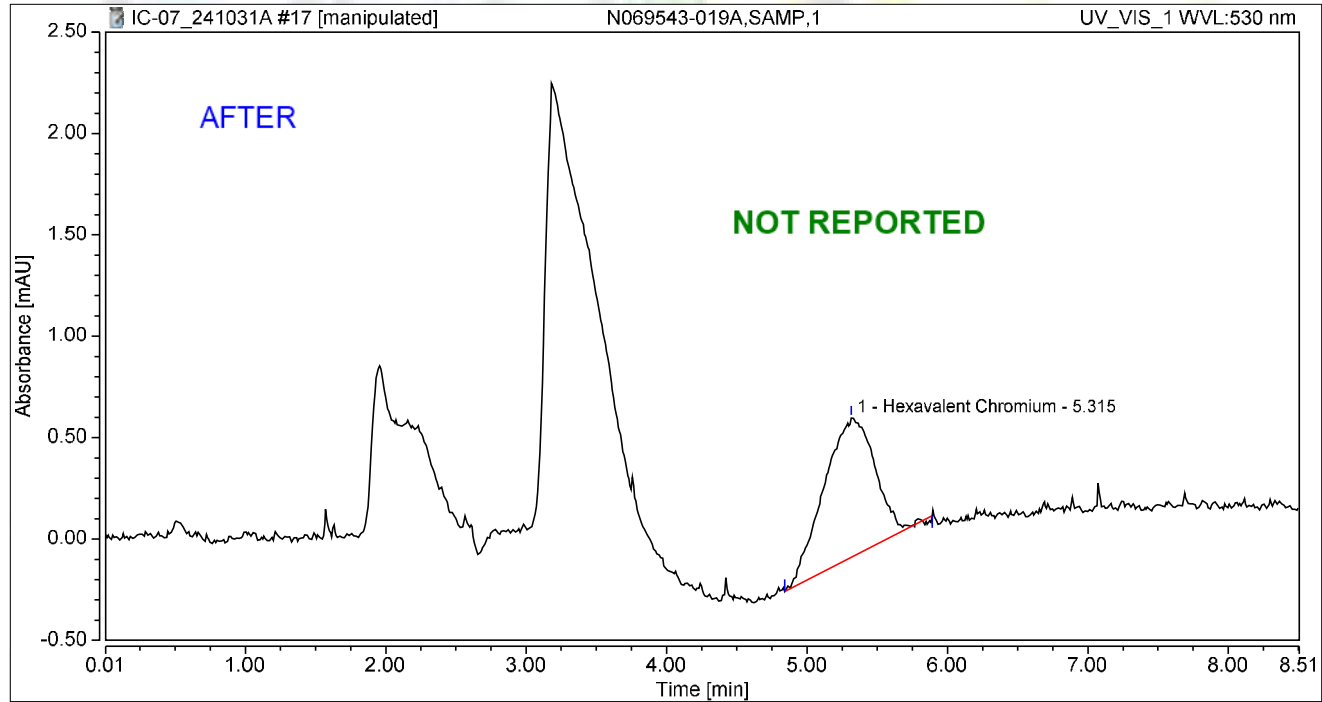
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.300	1.726	100.00	100.00	1.0574
Total:			0.300	1.726	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069543-019A,SAMP,1	Run Time (min): 8.50
Vial Number:	9	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	31/Oct/24 11:05	Sample Weight: 1.0000

Chromatogram



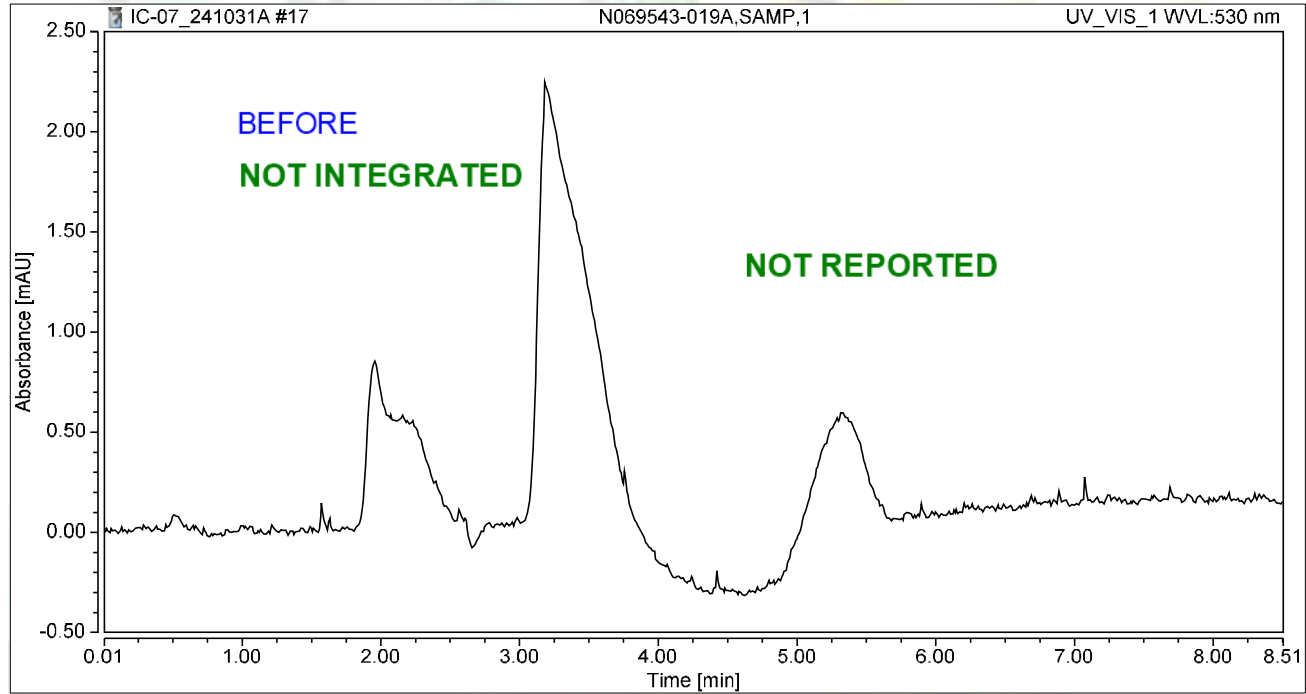
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.315	0.289	0.688	100.00	100.00	1.0184
Total:			0.289	0.688	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-019A,SAMP,1	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 11:05	Sample Weight:	1.0000

Chromatogram



Integration Results

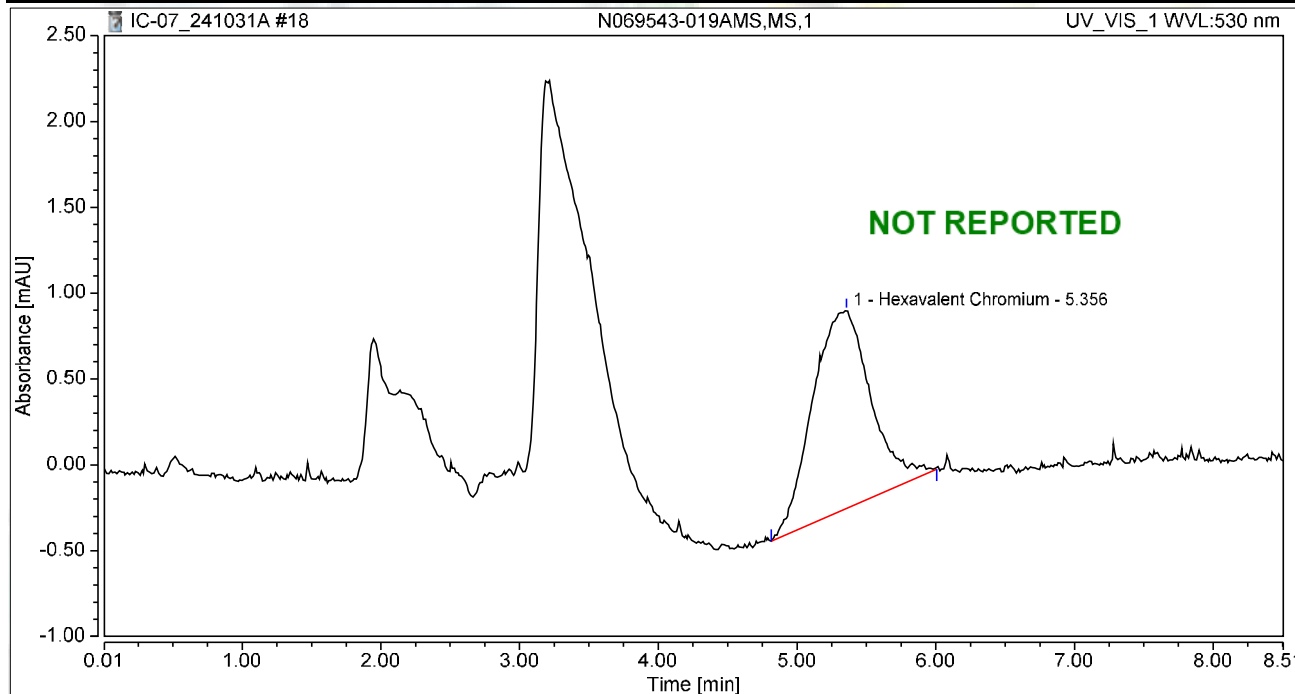
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-019AMS,MS,1	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 11:15	Sample Weight:	1.0000

Chromatogram



Integration Results

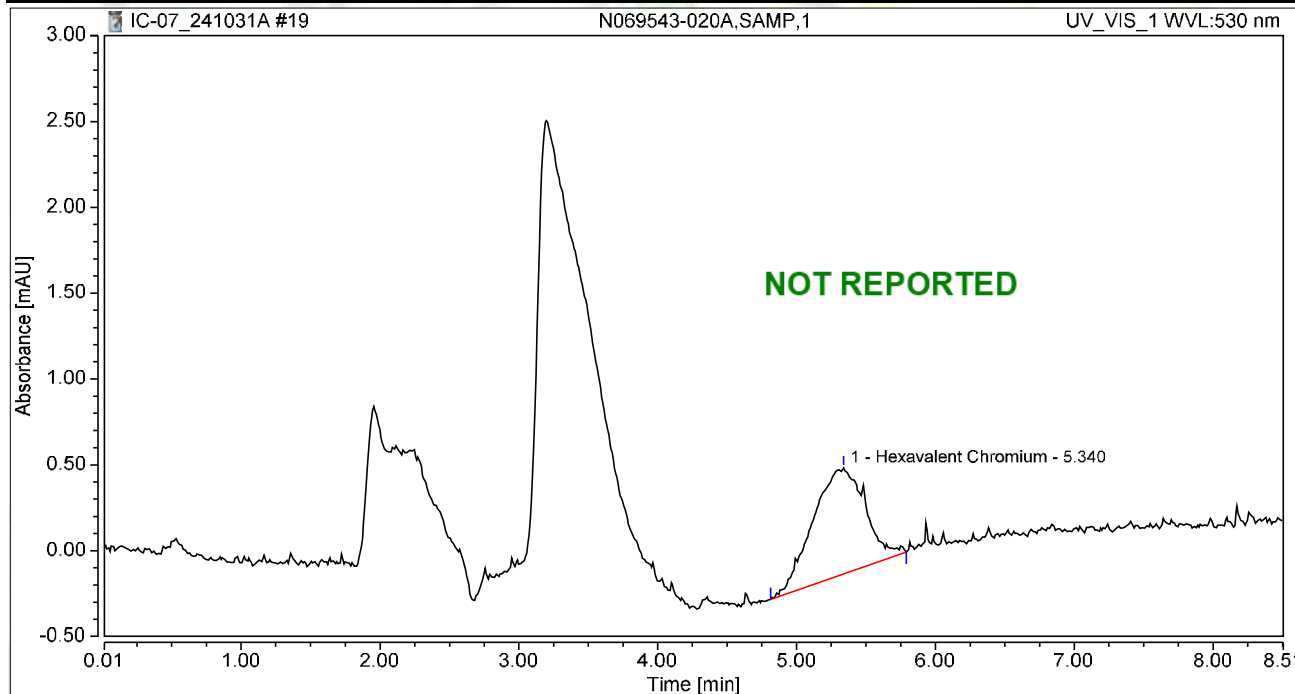
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.356	0.567	1.153	100.00	100.00	1.9972
Total:			0.567	1.153	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-020A,SAMP,1	Run Time (min):	8.49
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 11:24	Sample Weight:	1.0000

Chromatogram



Integration Results

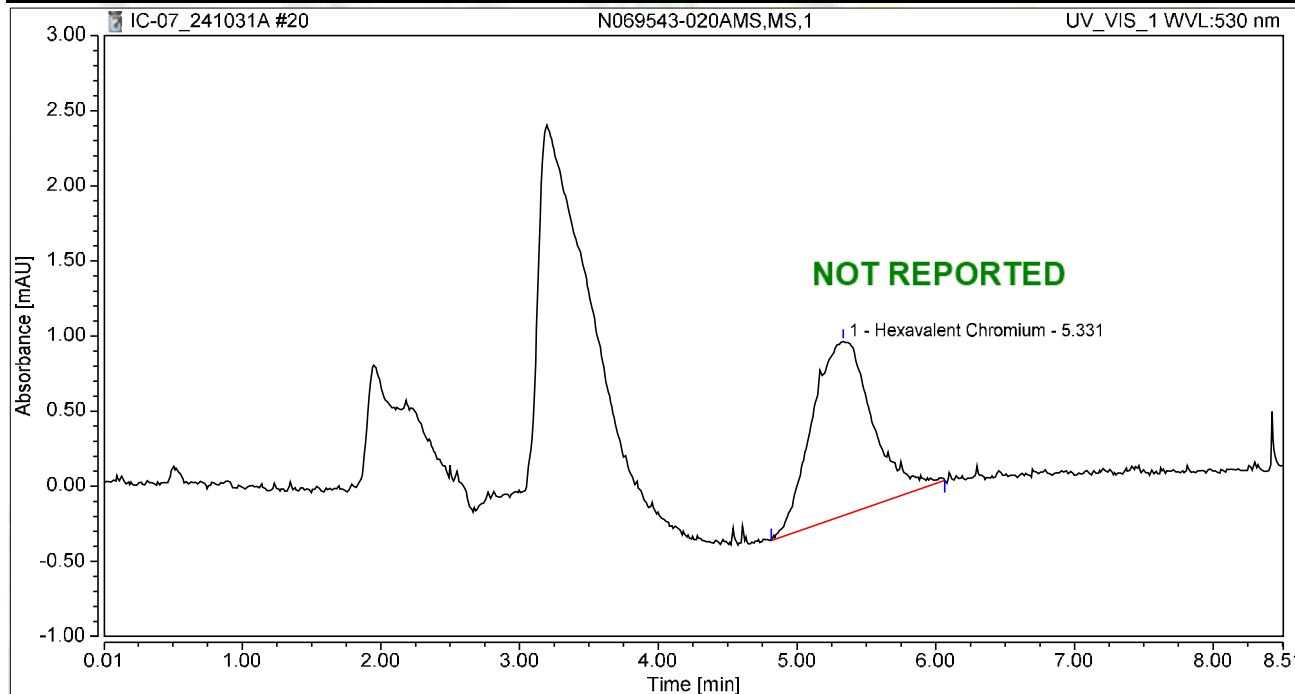
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.340	0.273	0.618	100.00	100.00	0.9625
Total:			0.273	0.618	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-020AMS,MS,1	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 11:33	Sample Weight:	1.0000

Chromatogram



Integration Results

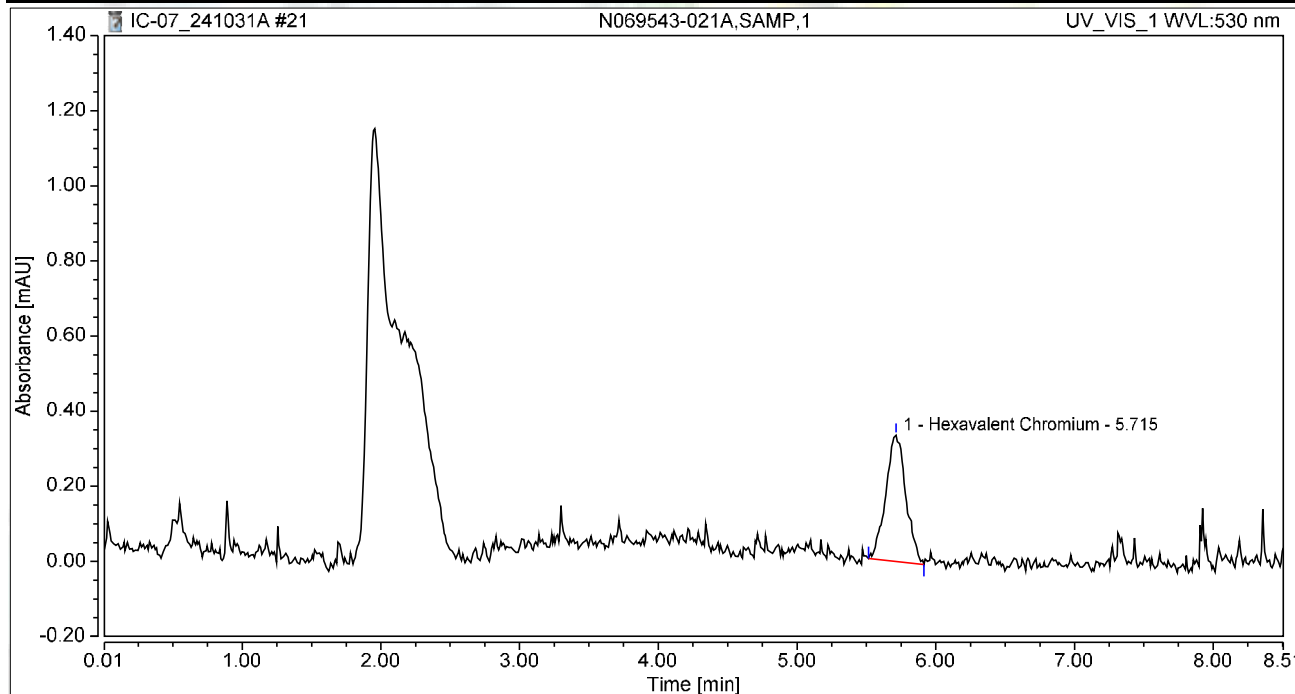
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.331	0.587	1.160	100.00	100.00	2.0685
Total:			0.587	1.160	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-021A,SAMP,1	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 11:43	Sample Weight:	1.0000

Chromatogram



Integration Results

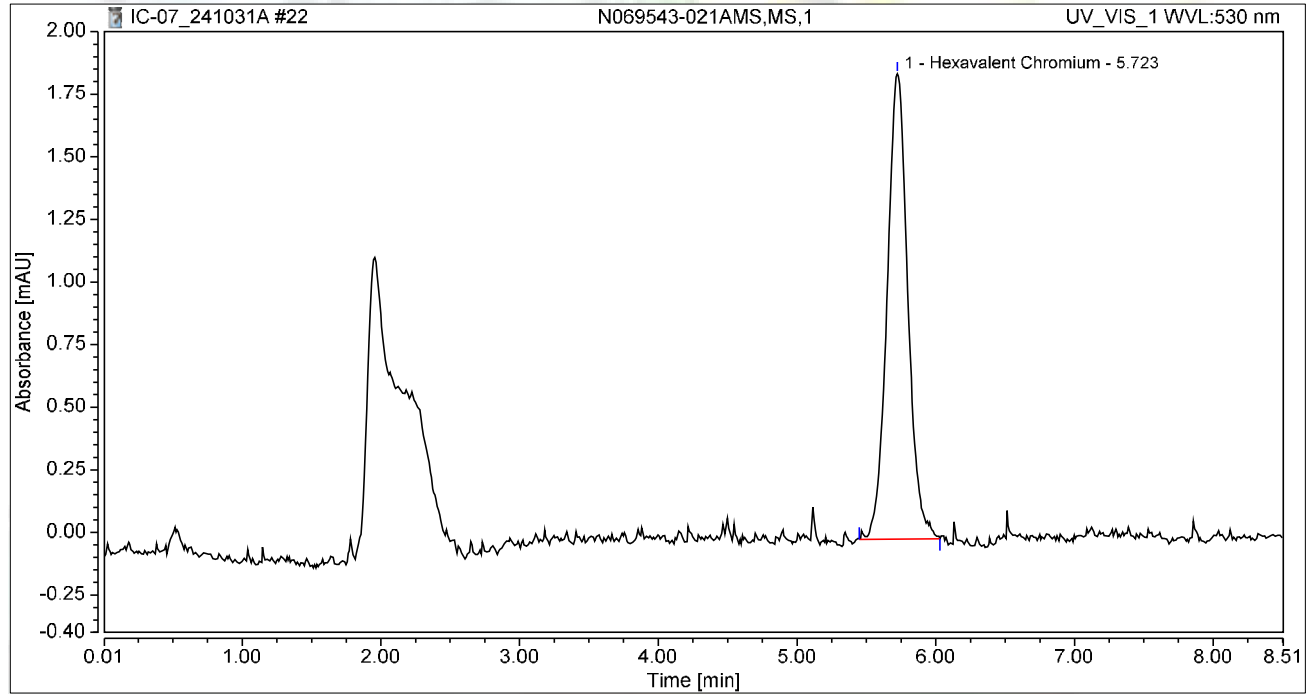
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.057	0.336	100.00	100.00	0.1996
Total:			0.057	0.336	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-021AMS,MS,1	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 11:52	Sample Weight:	1.0000

Chromatogram



Integration Results

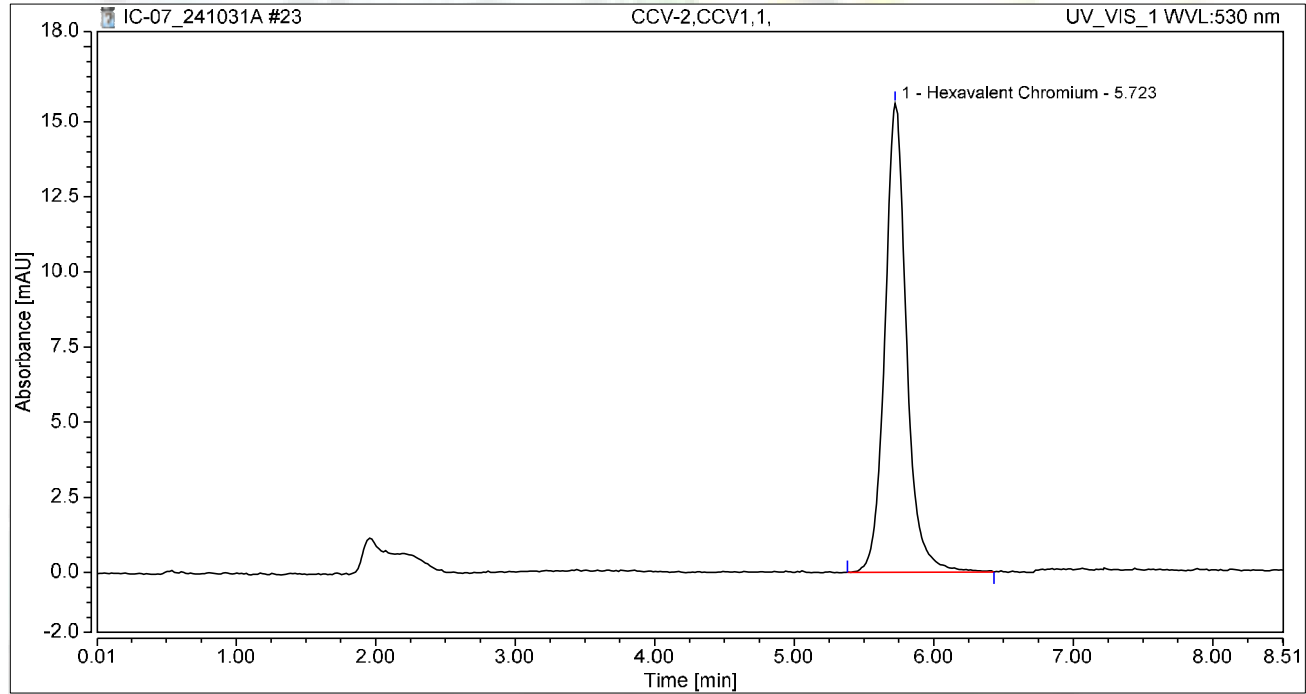
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.321	1.858	100.00	100.00	1.1321
Total:			0.321	1.858	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-2,CCV1,1,	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 12:02	Sample Weight:	1.0000

Chromatogram



Integration Results

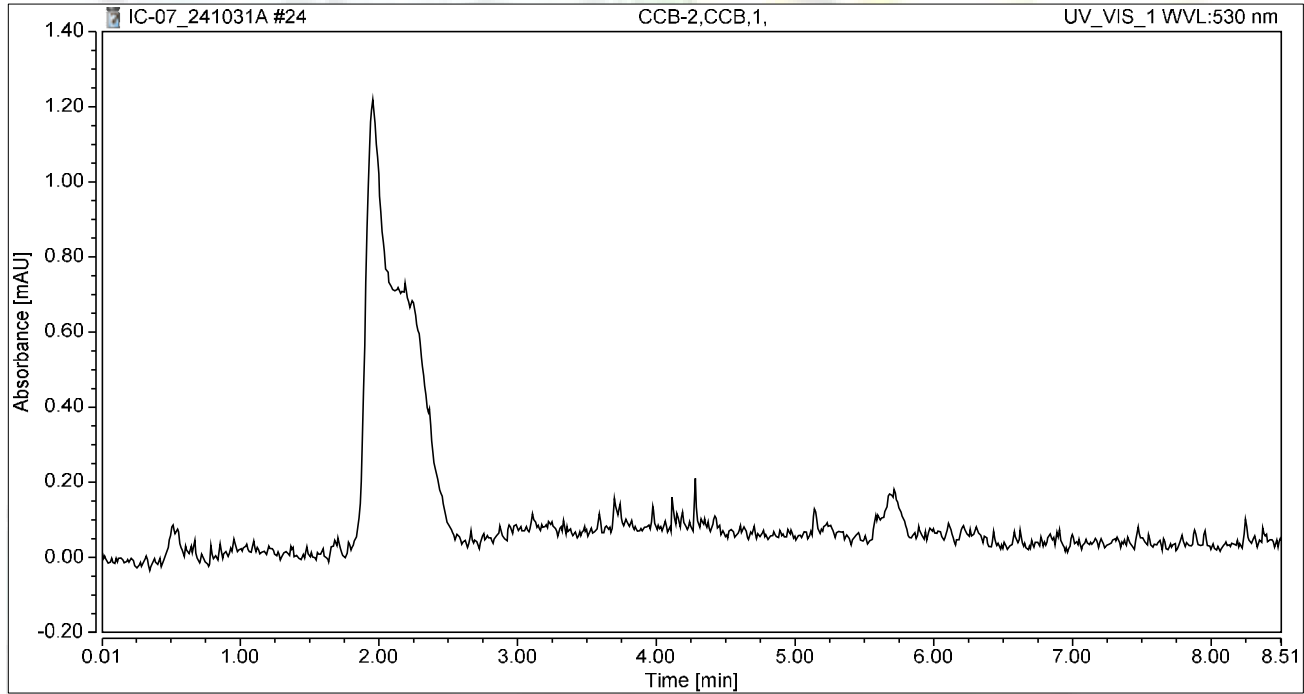
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	2.804	15.603	100.00	100.00	9.8821
Total:			2.804	15.603	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-2,CCB,1,	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 12:11	Sample Weight:	1.0000

Chromatogram



Integration Results

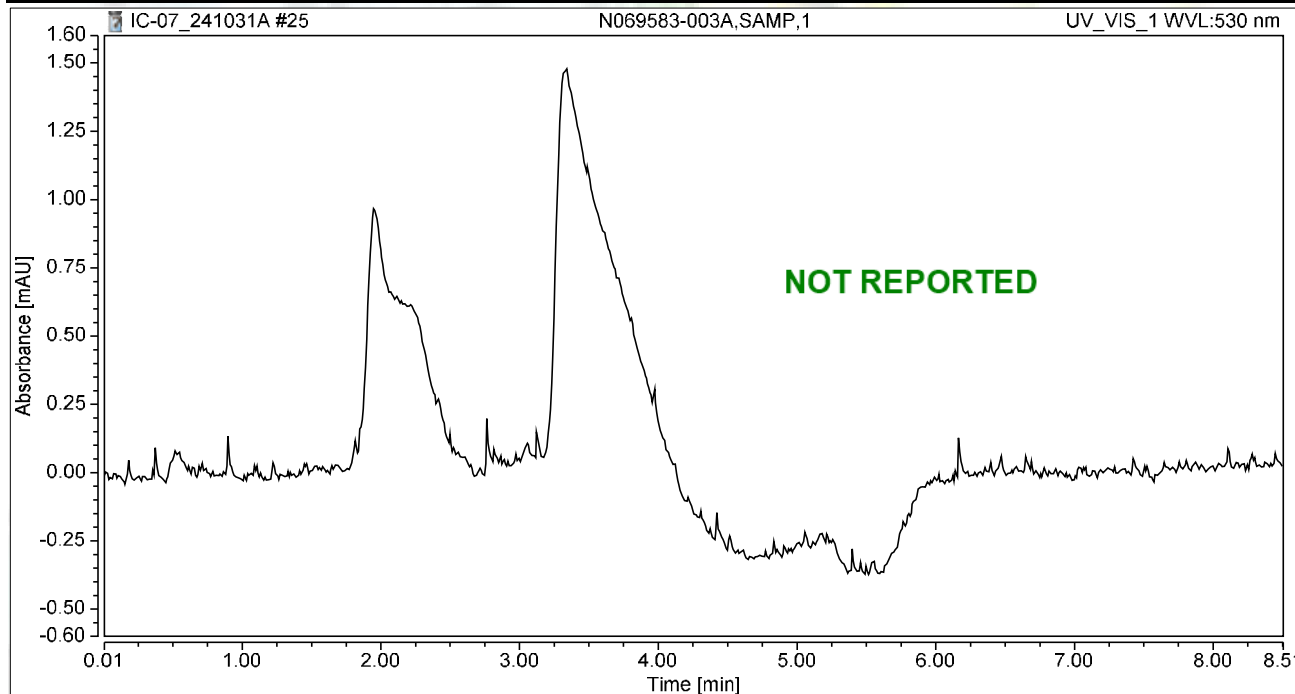
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 12:22	Sample Weight:	1.0000

Chromatogram



Integration Results

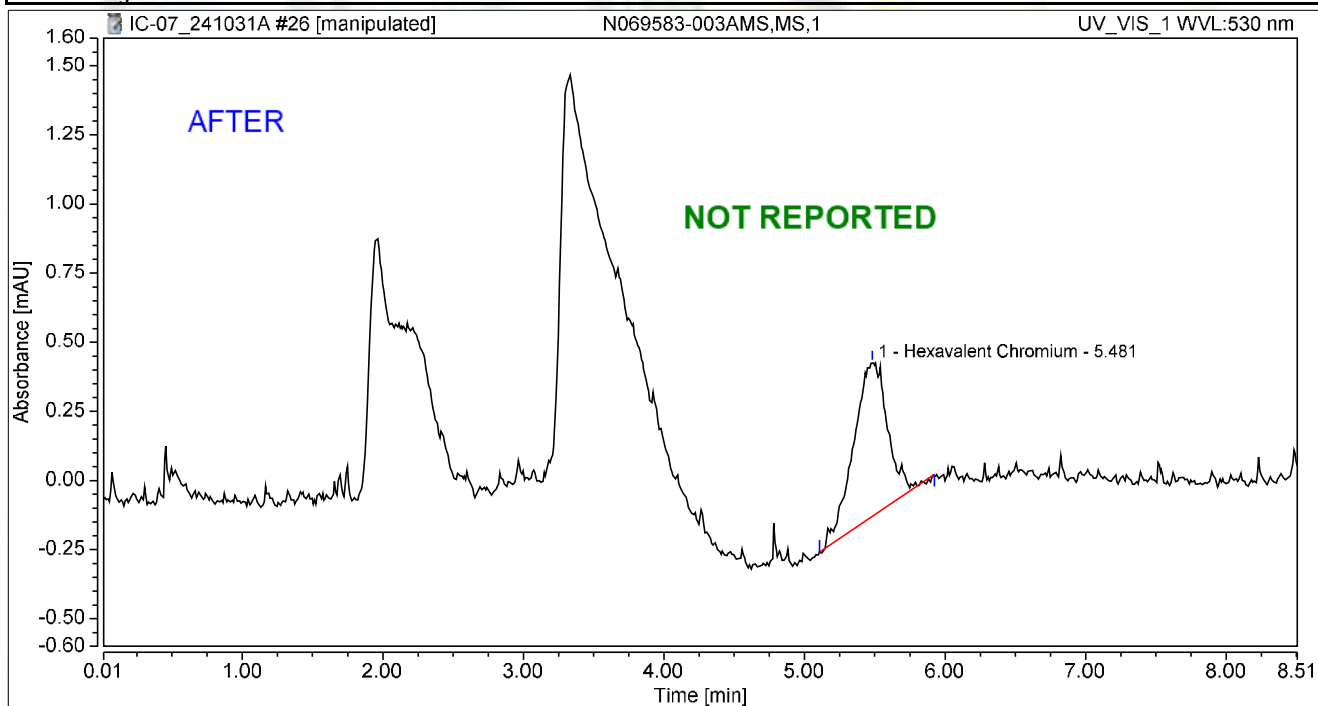
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-003AMS,MS,1	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 12:33	Sample Weight:	1.0000

Chromatogram



Integration Results

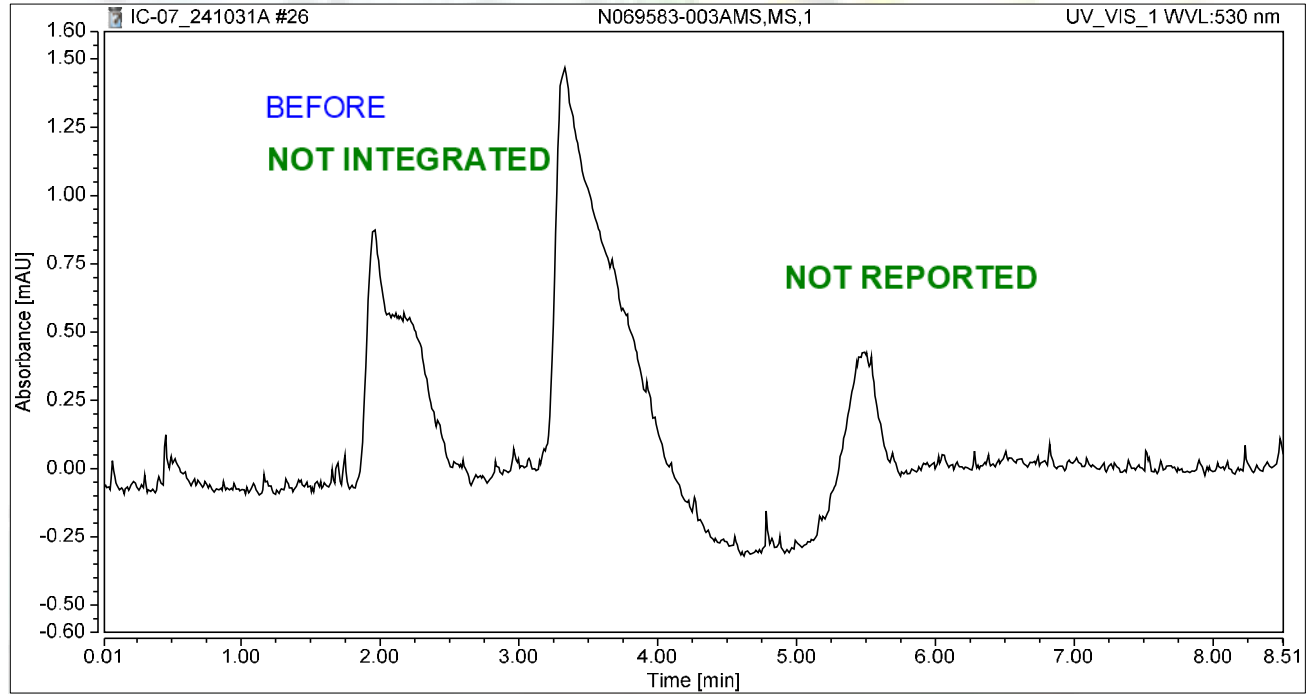
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.481	0.155	0.556	100.00	100.00	0.5470
Total:			0.155	0.556	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-003AMS,MS,1	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 12:33	Sample Weight:	1.0000

Chromatogram



Integration Results

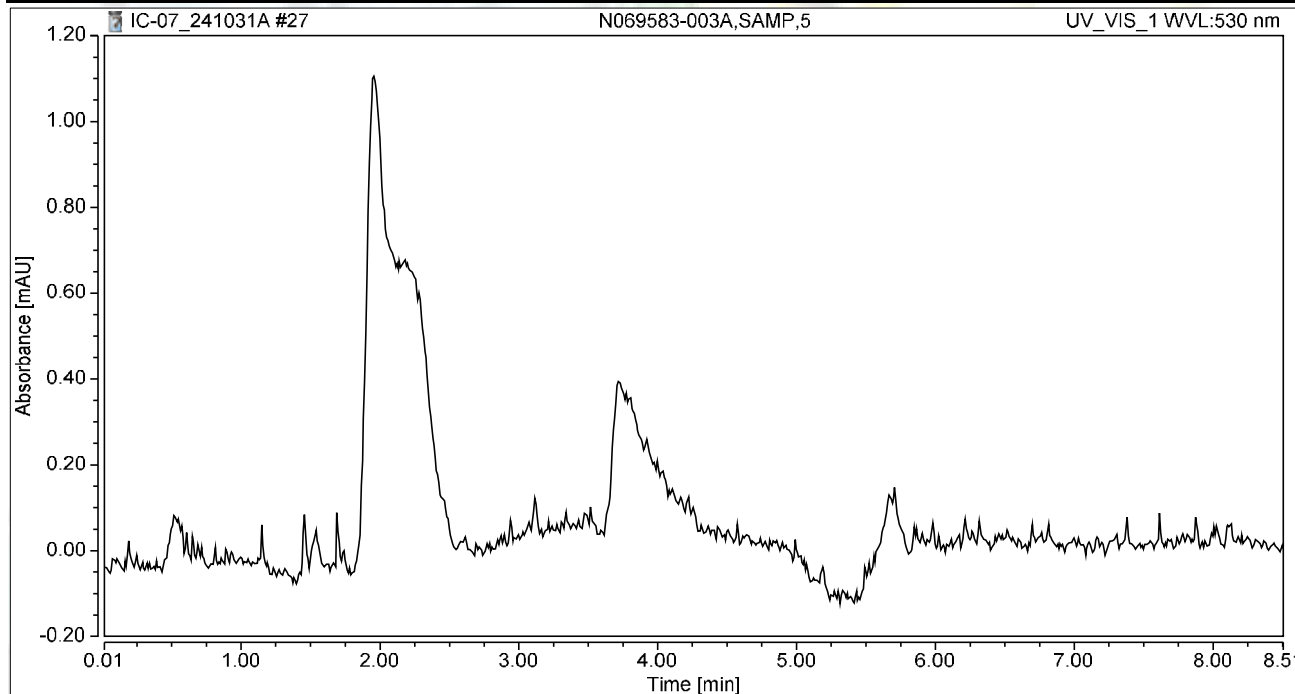
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-003A,SAMP,5	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 12:43	Sample Weight:	1.0000

Chromatogram



Integration Results

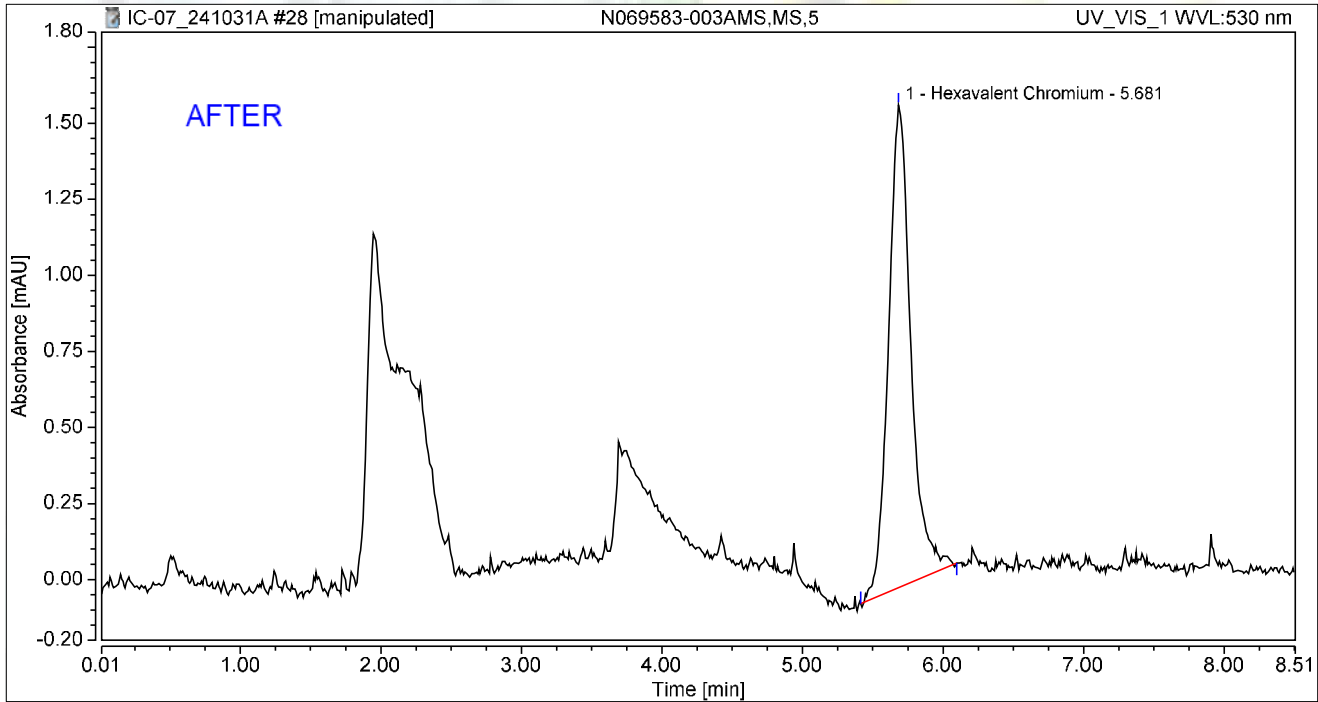
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-003AMS,MS,5	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 12:52	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.292	1.587	100.00	100.00	1.0289
Total:			0.292	1.587	100.00	100.00	

Reviewed by:

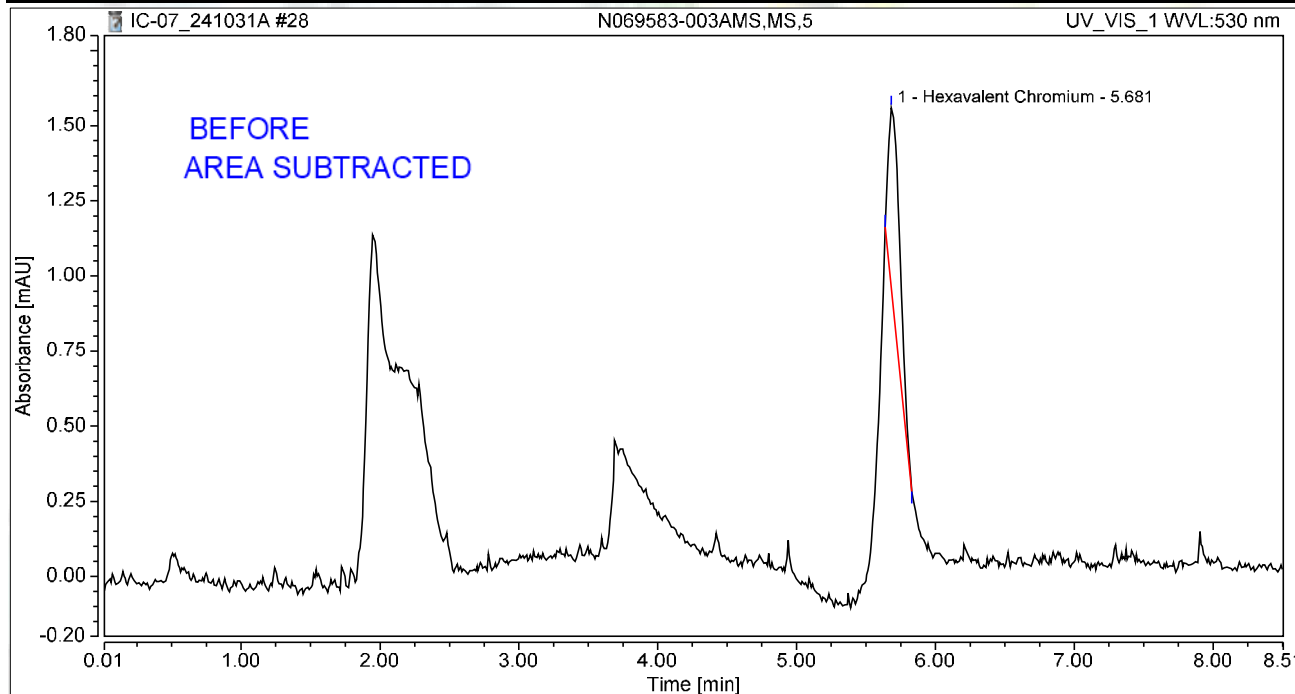
M. Rocha 11/13/2024

Chromatogram and Results

Injection Details

Injection Name:	N069583-003AMS,MS,5	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 12:52	Sample Weight:	1.0000

Chromatogram



Integration Results

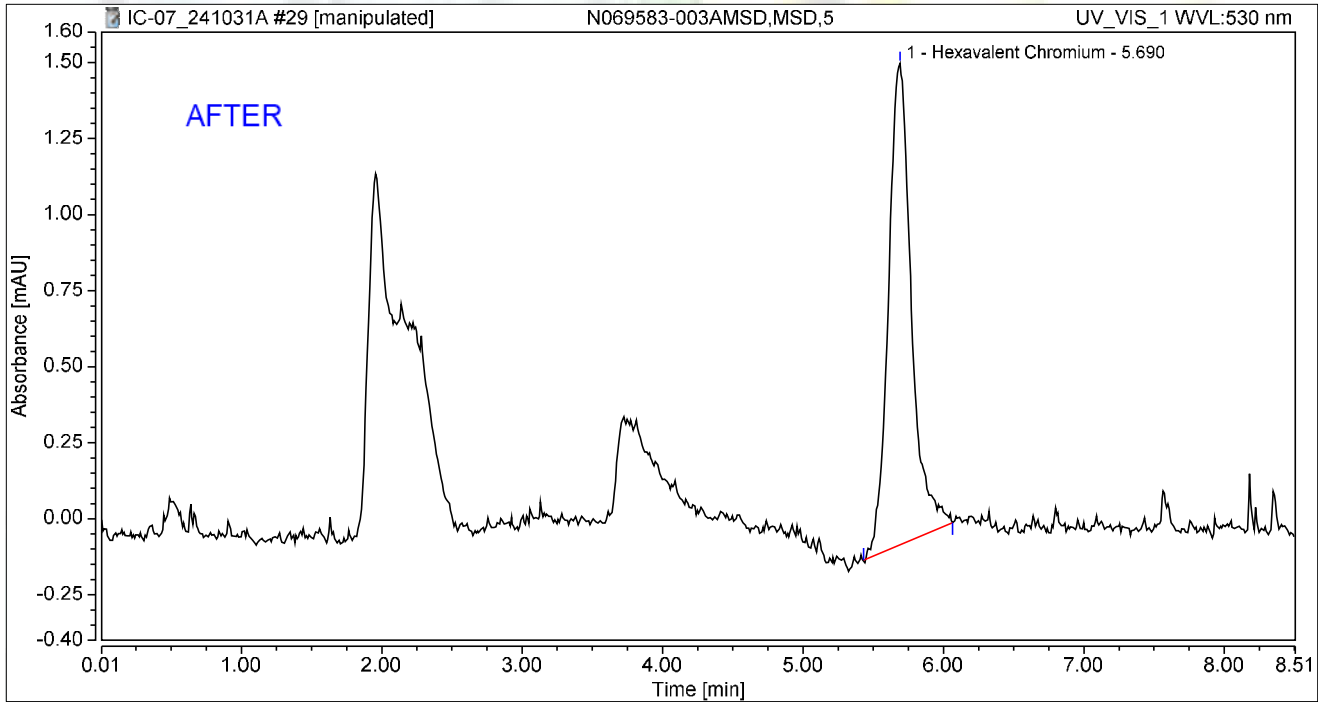
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.061	0.589	100.00	100.00	0.2164
Total:			0.061	0.589	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-003AMSD,MSD,5	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 13:02	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.300	1.582	100.00	100.00	1.0565
Total:			0.300	1.582	100.00	100.00	

Reviewed by:

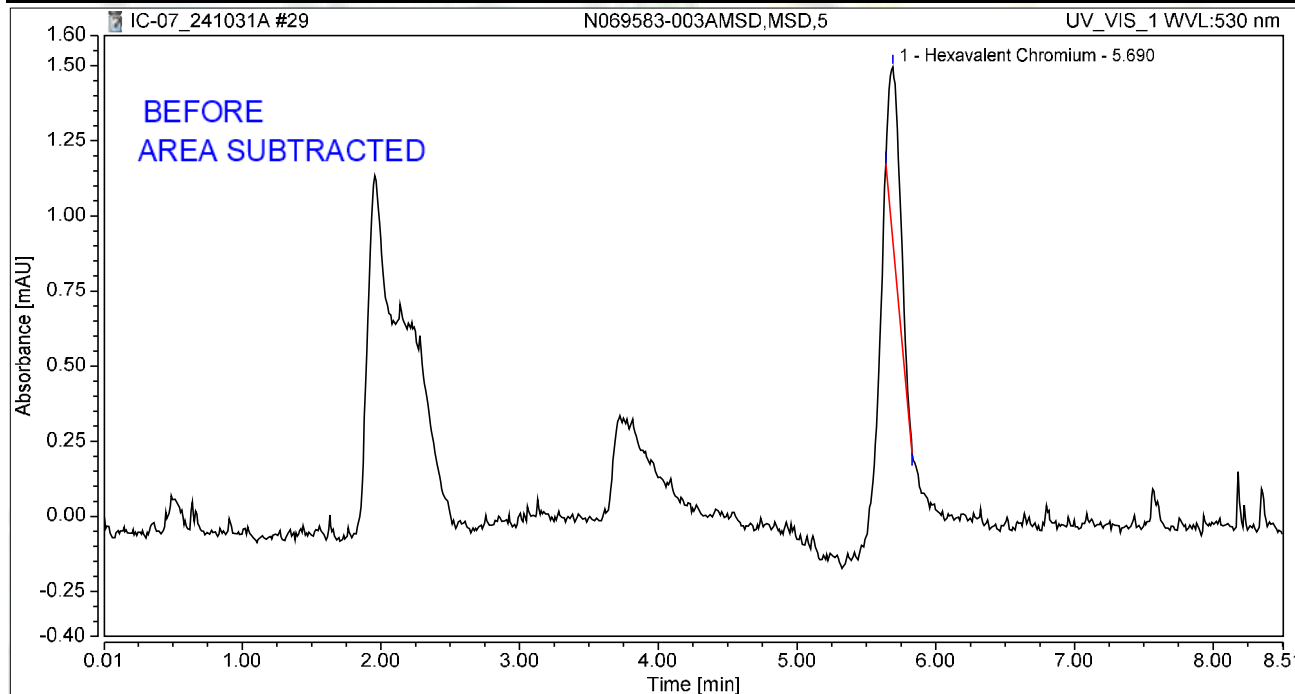
MRecha 11/13/2024

Chromatogram and Results

Injection Details

Injection Name:	N069583-003AMSD,MSD,5	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 13:02	Sample Weight:	1.0000

Chromatogram



Integration Results

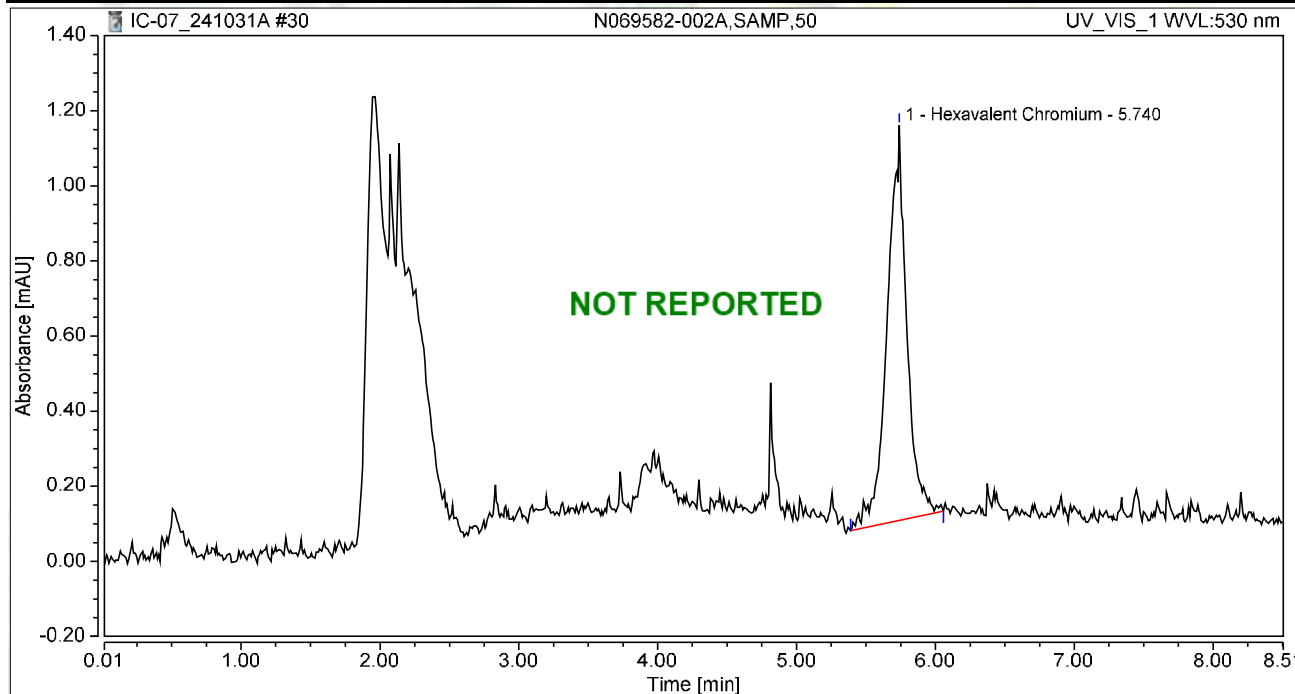
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.057	0.574	100.00	100.00	0.2025
Total:			0.057	0.574	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-002A,SAMP,50	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 13:52	Sample Weight:	1.0000

Chromatogram



Integration Results

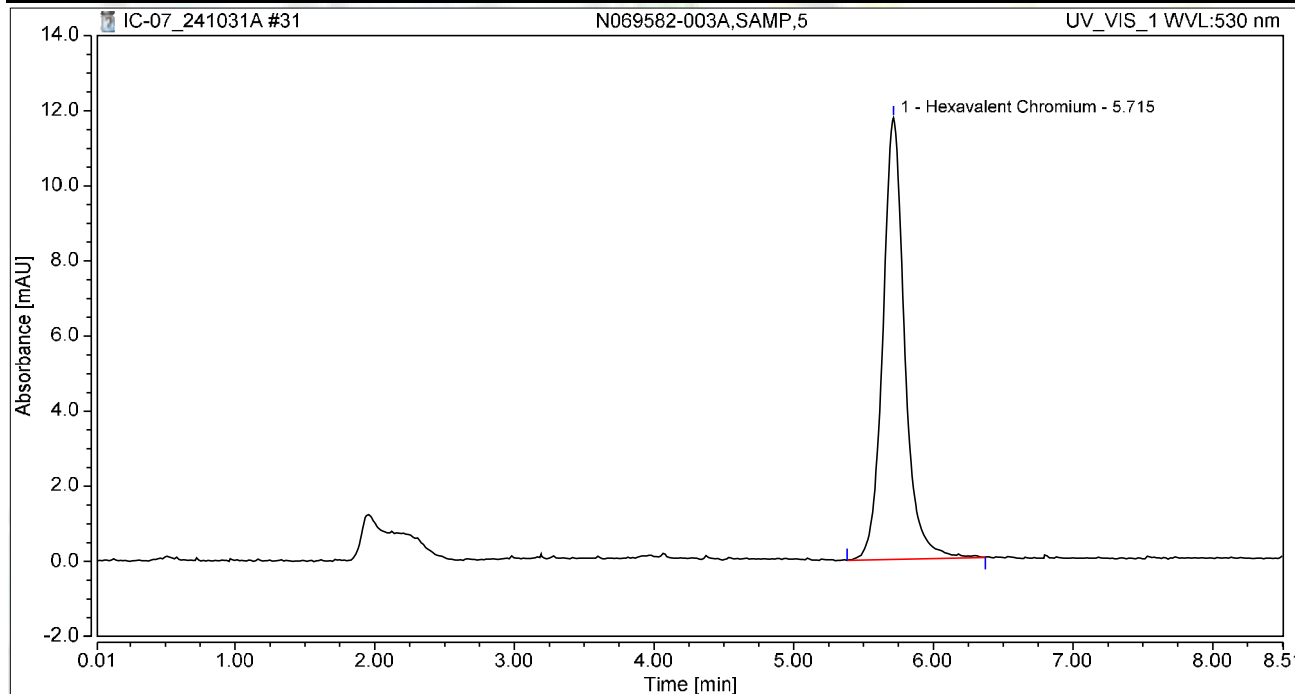
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	0.171	1.052	100.00	100.00	0.6034
Total:			0.171	1.052	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-003A,SAMP,5	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 14:05	Sample Weight:	1.0000

Chromatogram



Integration Results

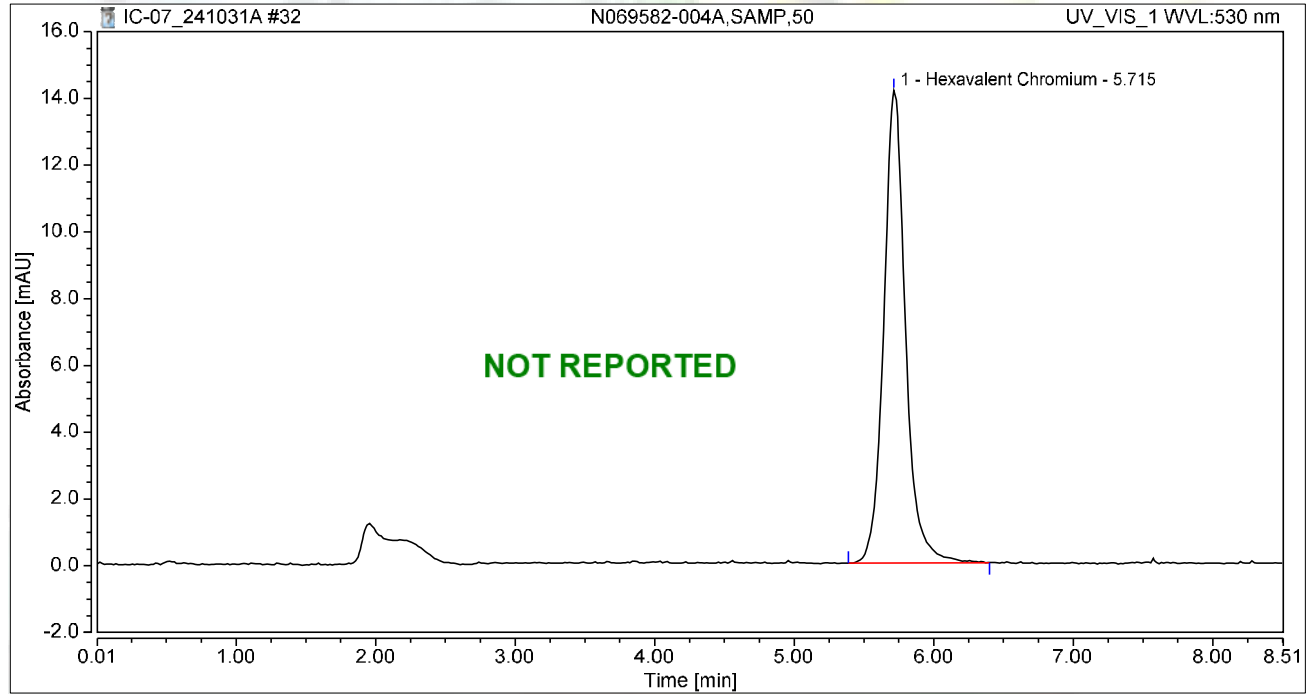
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.133	11.753	100.00	100.00	7.5182
Total:			2.133	11.753	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-004A,SAMP,50	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 14:14	Sample Weight:	1.0000

Chromatogram



Integration Results

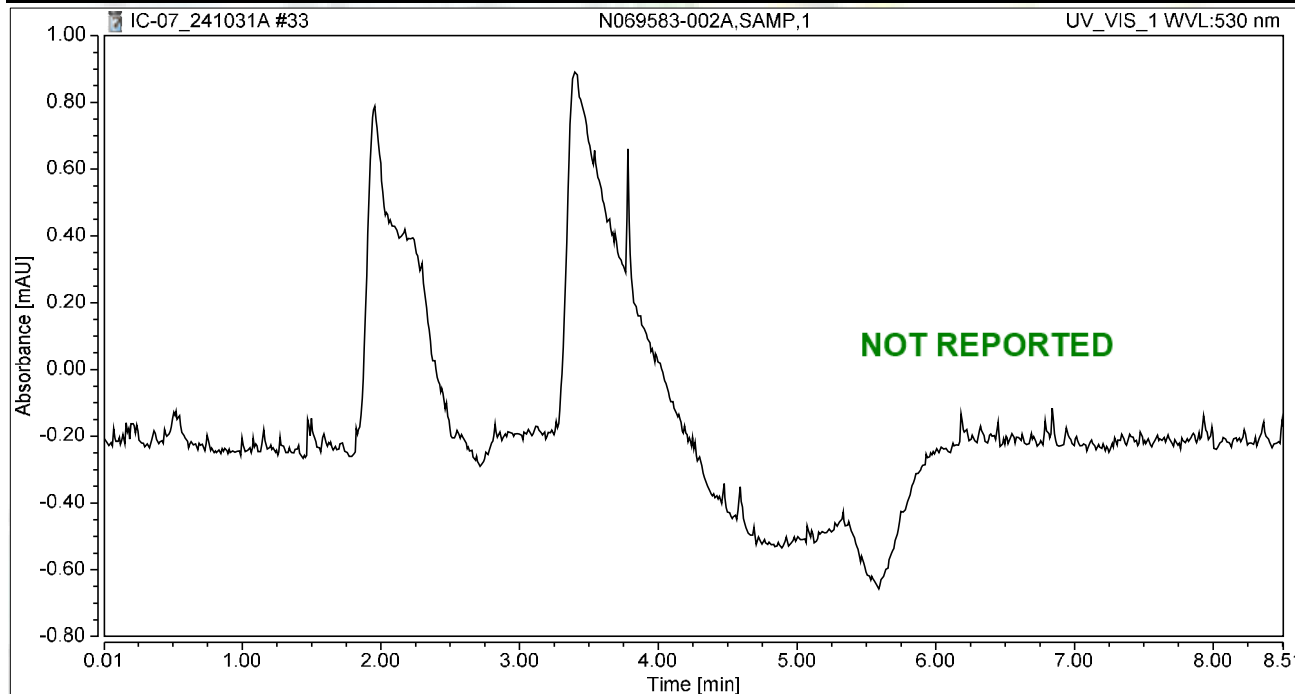
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.555	14.157	100.00	100.00	9.0038
Total:			2.555	14.157	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 14:24	Sample Weight:	1.0000

Chromatogram



Integration Results

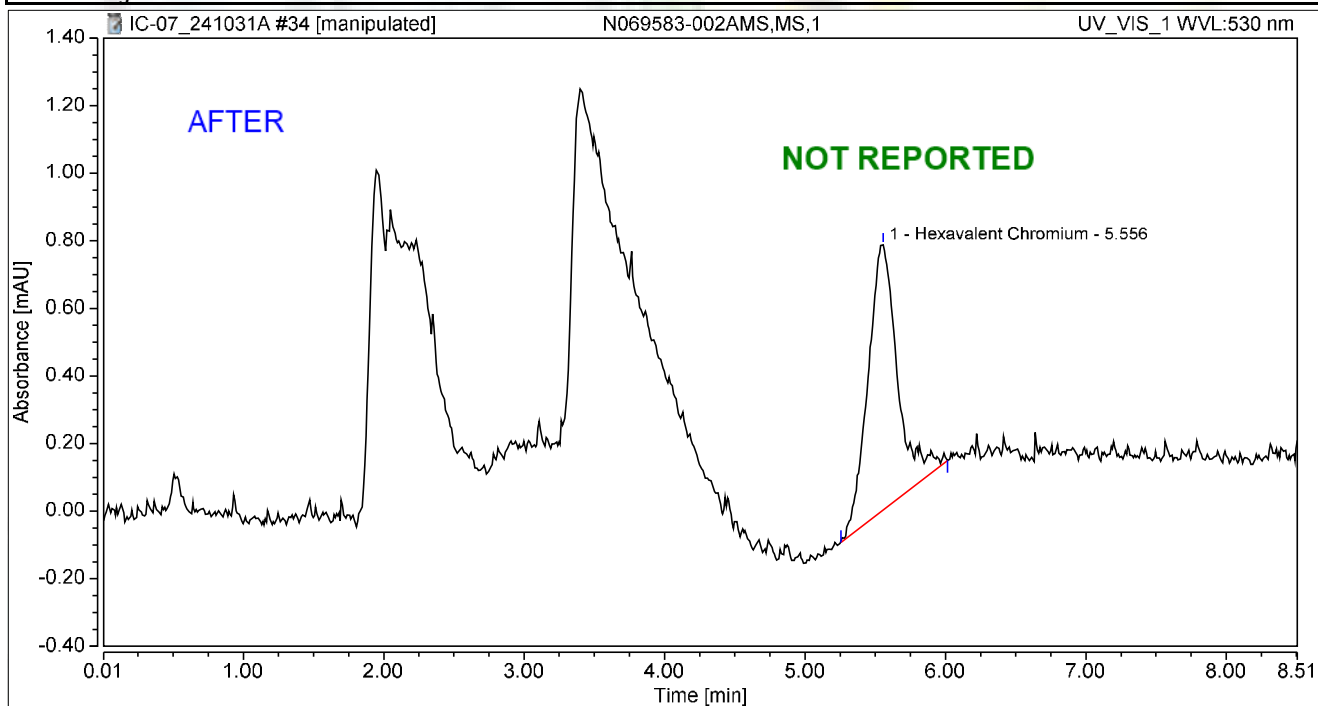
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 14:33	Sample Weight:	1.0000

Chromatogram



Integration Results

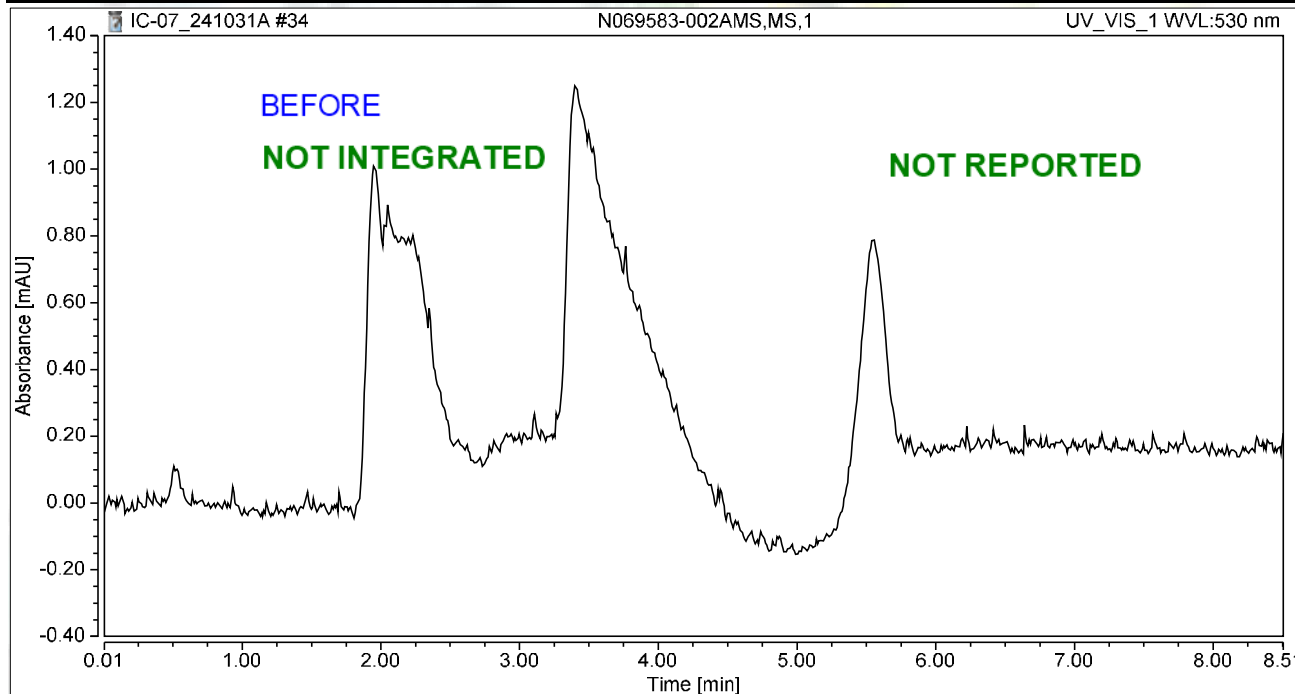
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.556	0.193	0.784	100.00	100.00	0.6794
Total:			0.193	0.784	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 14:33	Sample Weight:	1.0000

Chromatogram



Integration Results

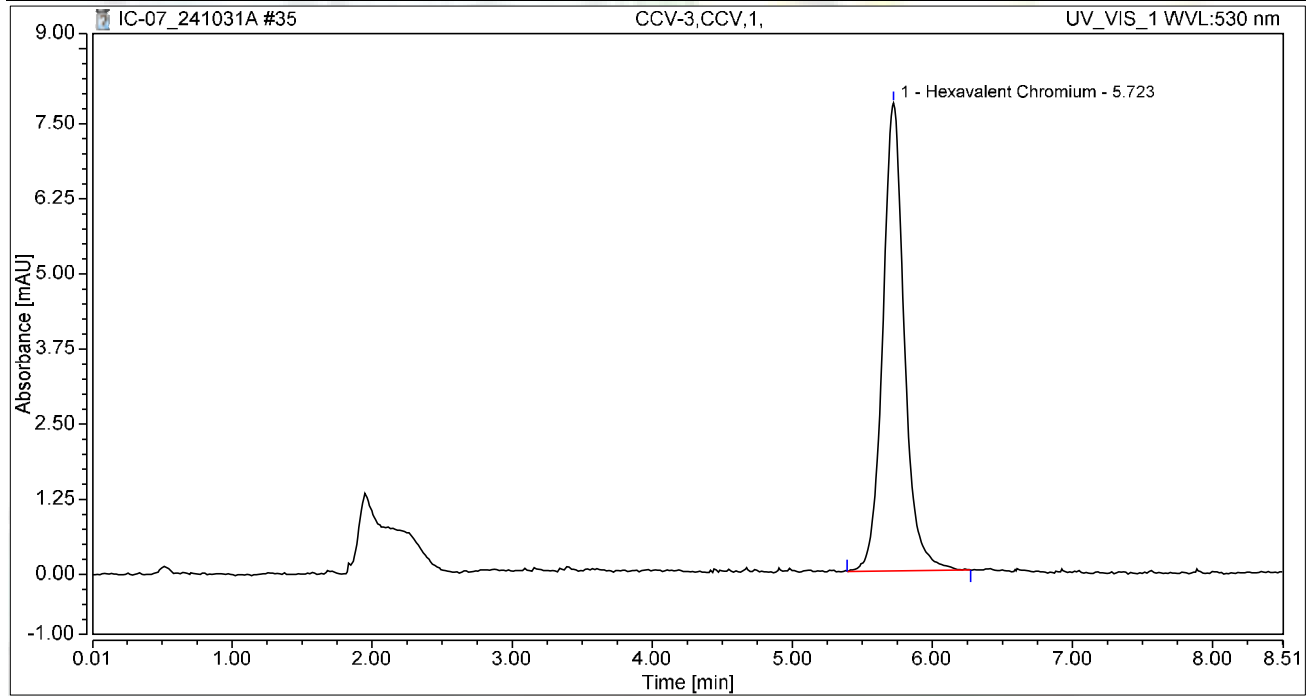
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-3,CCV,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 14:43	Sample Weight:	1.0000

Chromatogram



Integration Results

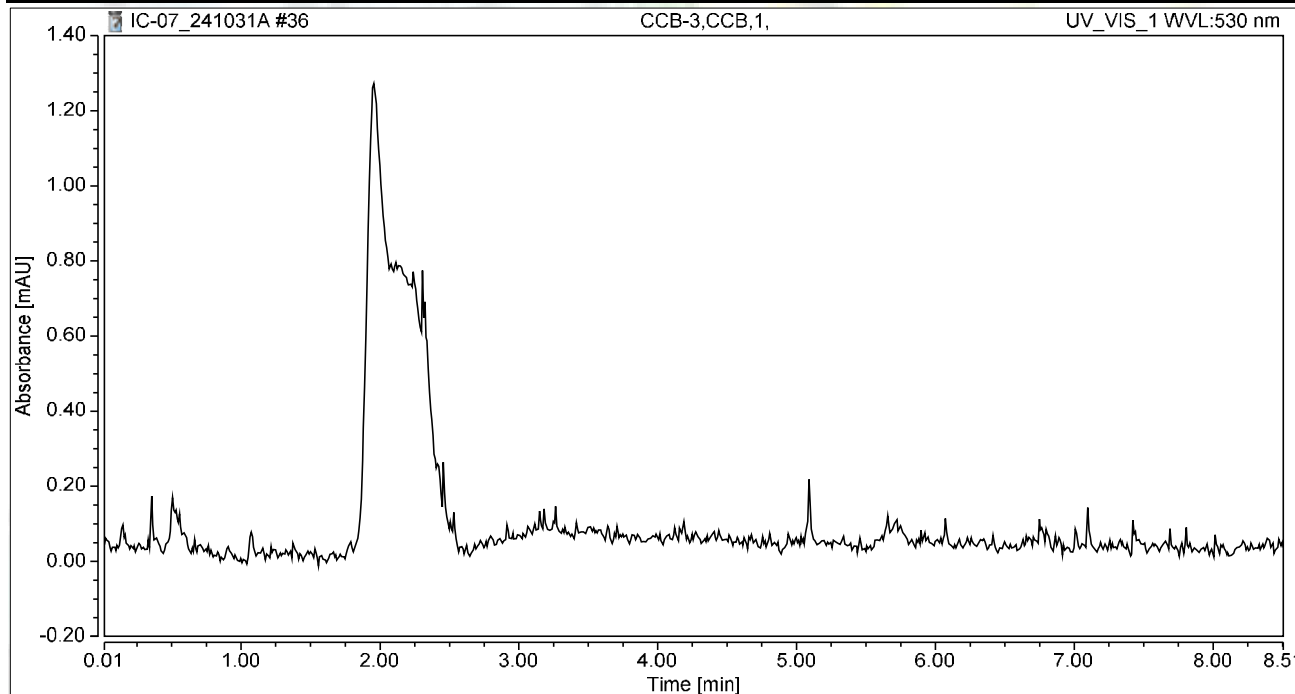
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	1.393	7.787	100.00	100.00	4.9088
Total:			1.393	7.787	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-3,CCB,1,	Run Time (min):	8.49
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 14:52	Sample Weight:	1.0000

Chromatogram



Integration Results

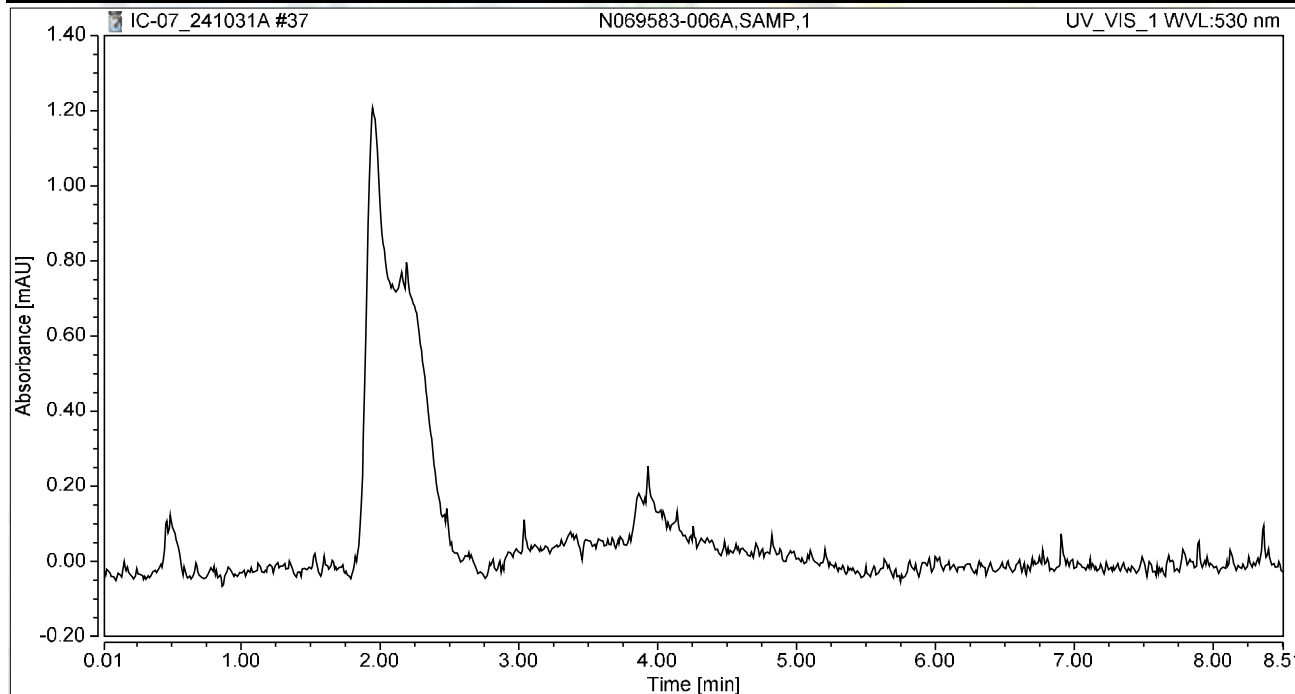
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-006A,SAMP,1	Run Time (min):	8.49
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 15:02	Sample Weight:	1.0000

Chromatogram



Integration Results

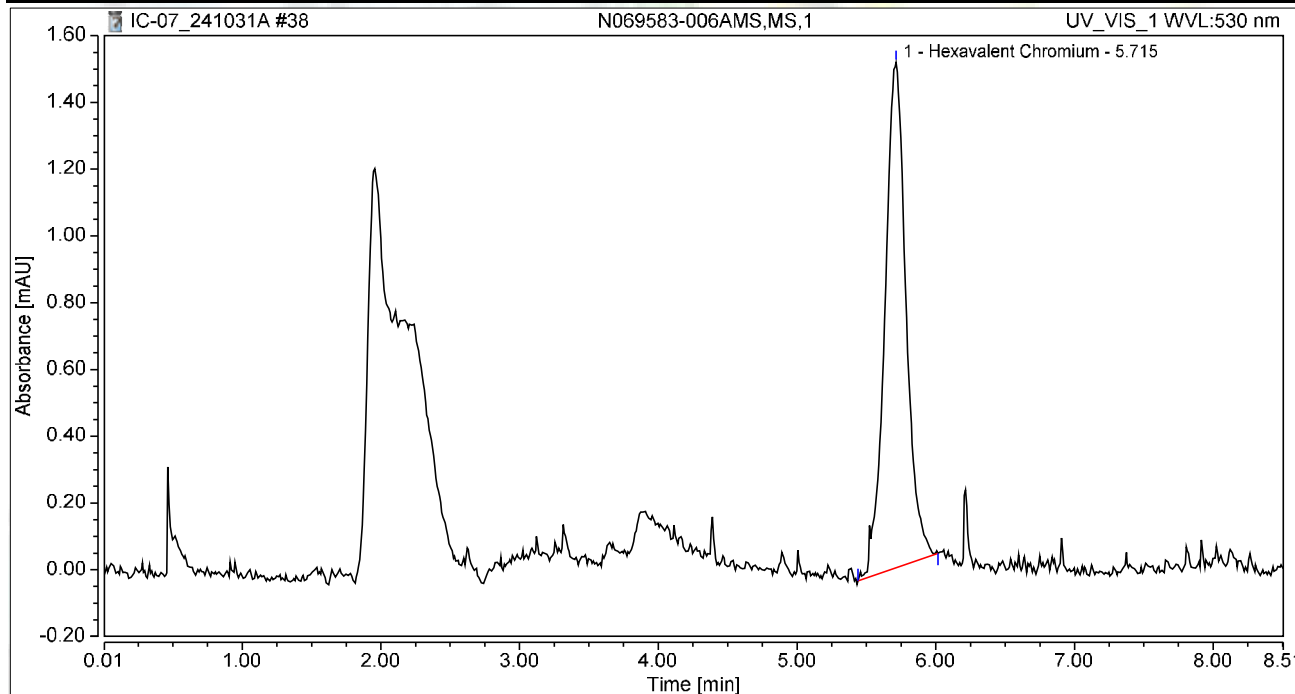
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-006AMS,MS,1	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 15:11	Sample Weight:	1.0000

Chromatogram



Integration Results

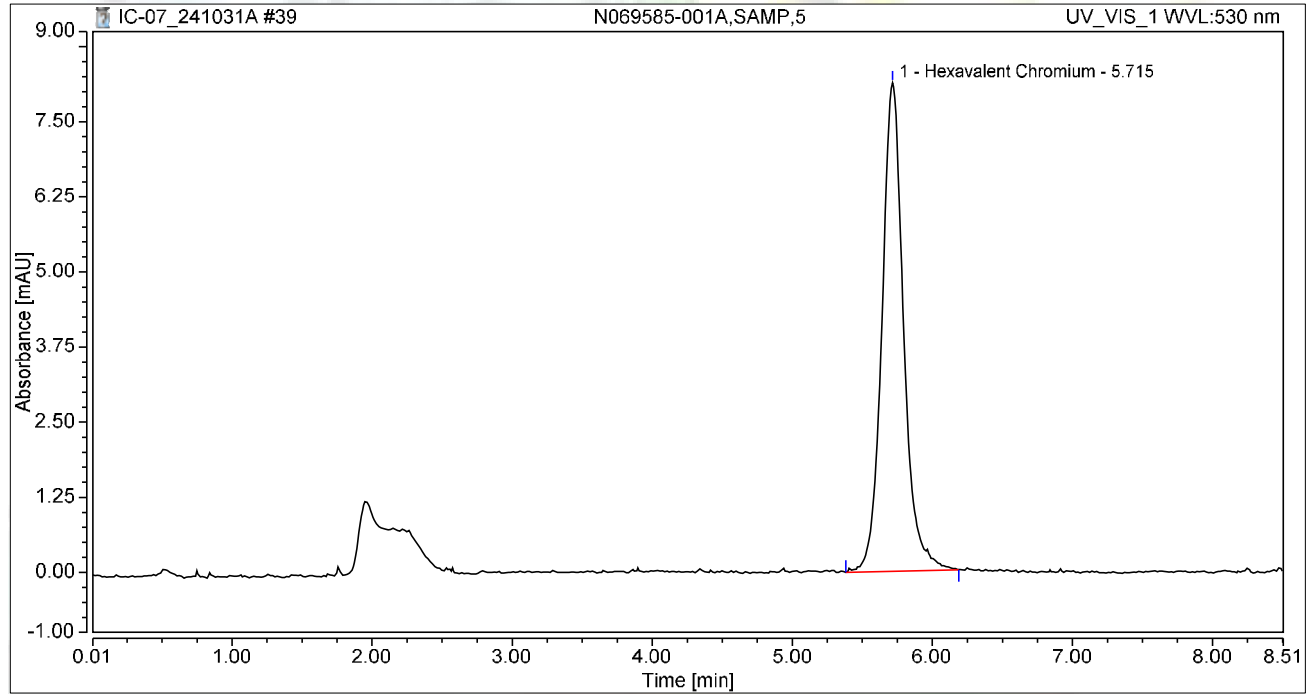
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.268	1.513	100.00	100.00	0.9431
Total:			0.268	1.513	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069585-001A,SAMP,5	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 15:21	Sample Weight:	1.0000

Chromatogram



Integration Results

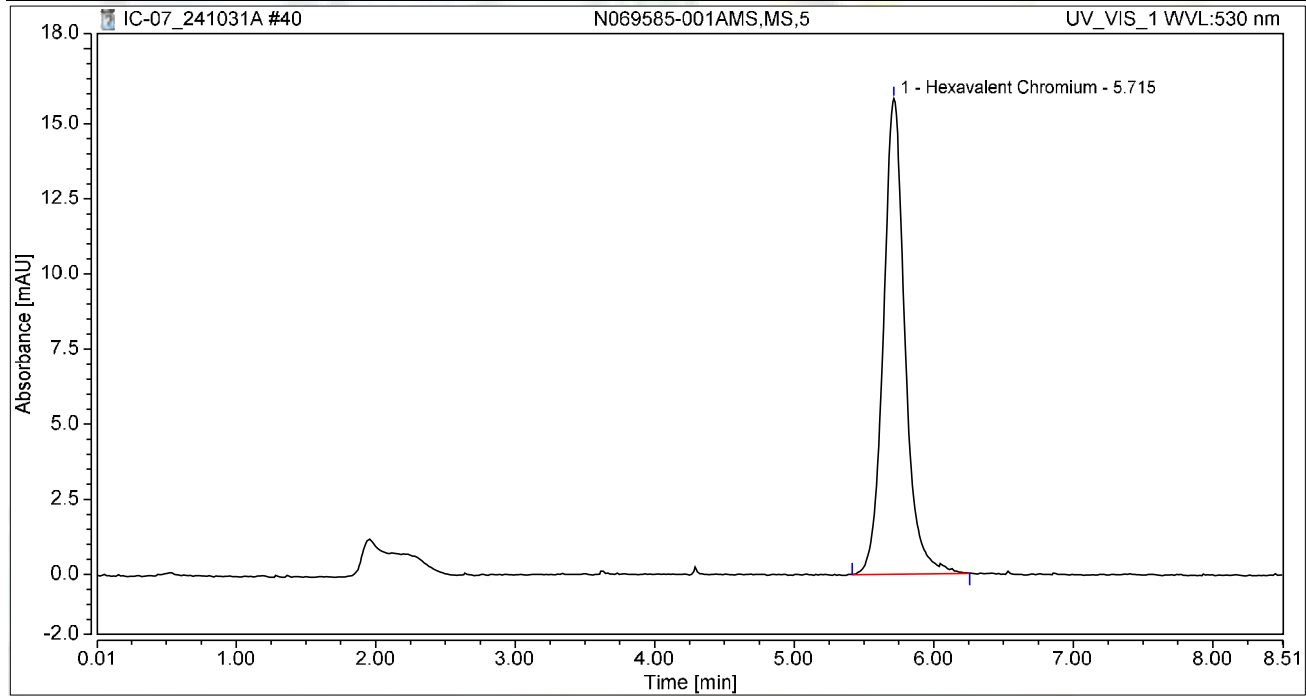
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	1.457	8.127	100.00	100.00	5.1353
Total:			1.457	8.127	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069585-001AMS,MS,5	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 15:30	Sample Weight:	1.0000

Chromatogram



Integration Results

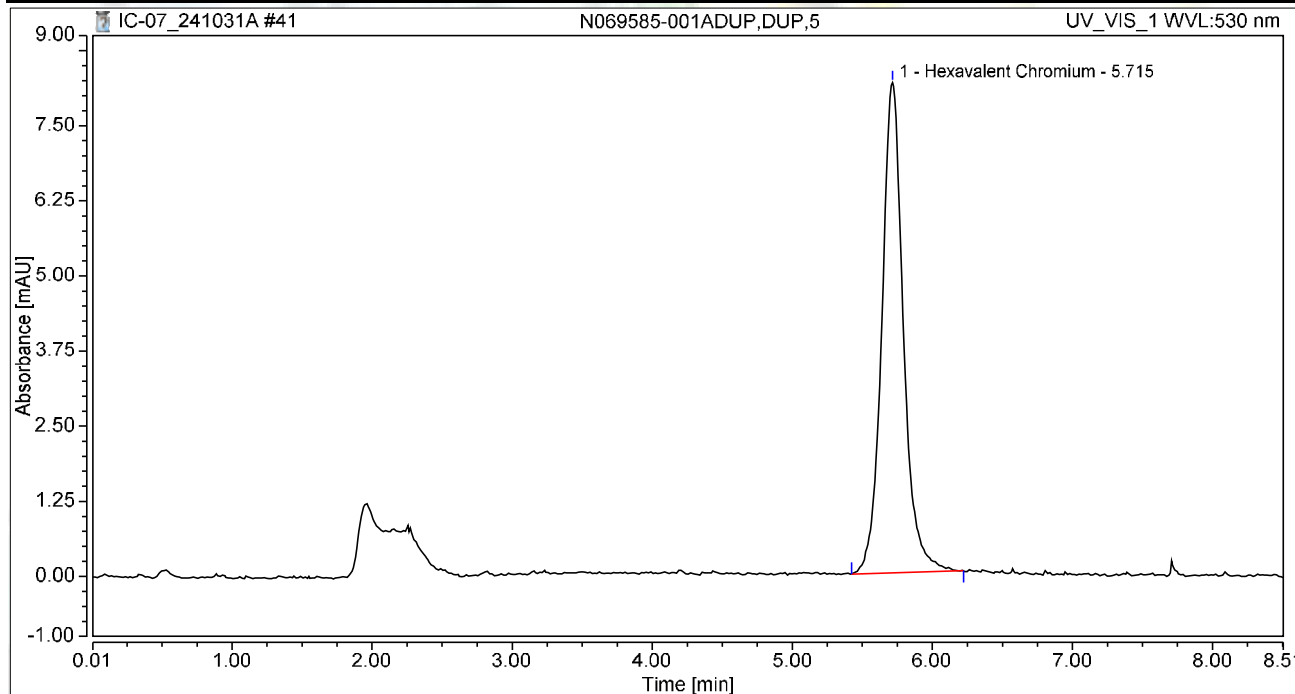
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.832	15.835	100.00	100.00	9.9807
Total:			2.832	15.835	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069585-001ADUP,DUP,5	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 15:39	Sample Weight:	1.0000

Chromatogram



Integration Results

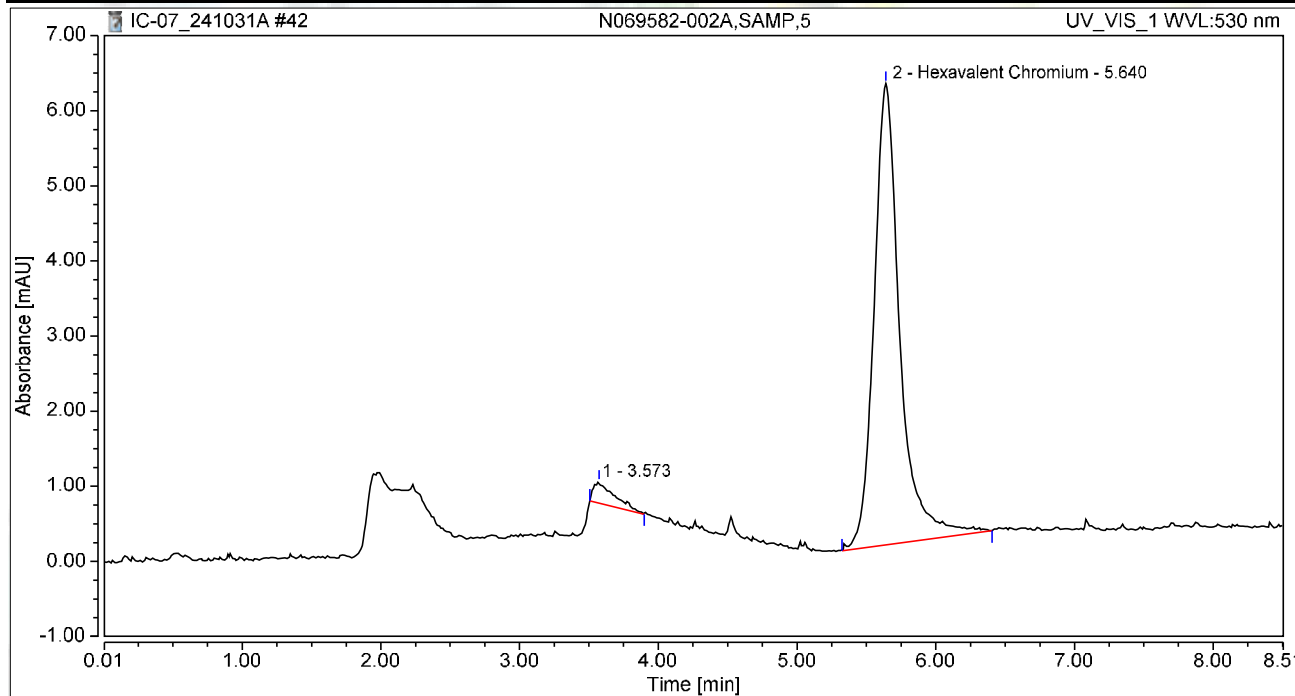
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	1.458	8.160	100.00	100.00	5.1369
Total:			1.458	8.160	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-002A,SAMP,5	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 16:04	Sample Weight:	1.0000

Chromatogram



Integration Results

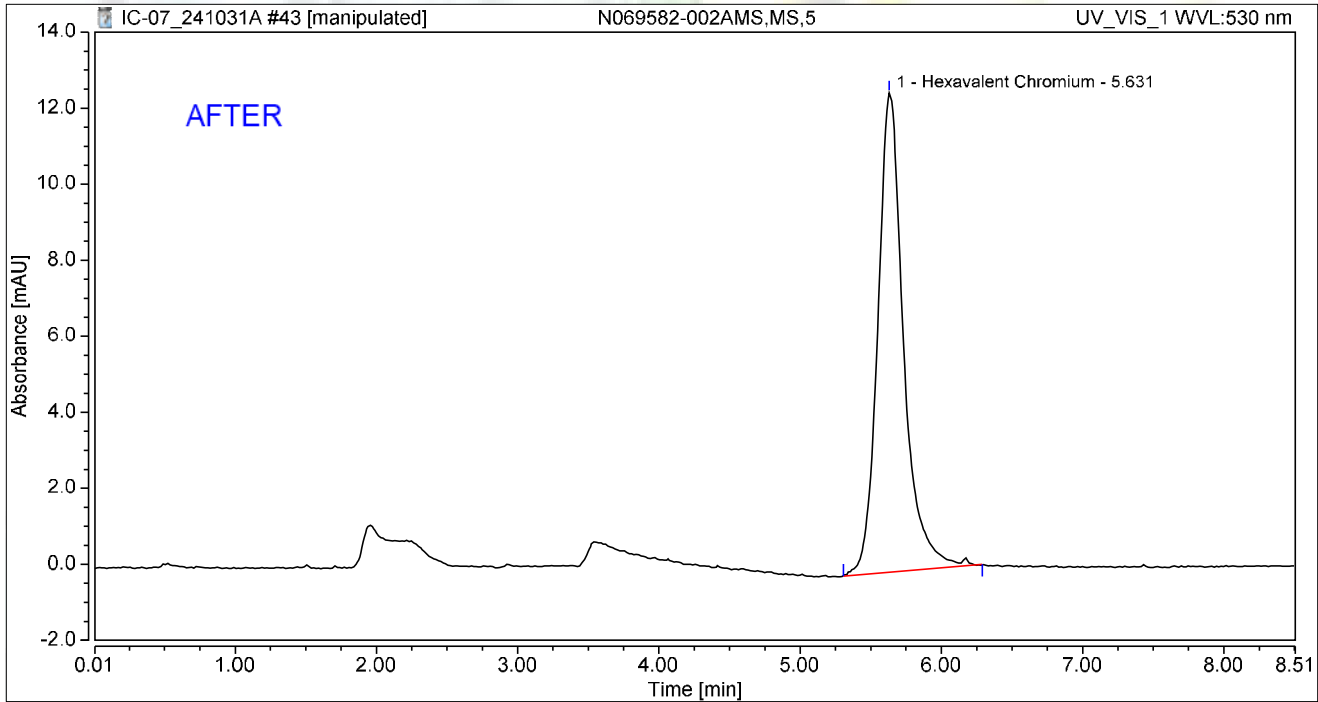
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.573	0.051	0.284	3.71	4.42	n.a.
2	Hexavalent Chromium	5.640	1.326	6.143	96.29	95.58	4.6721
Total:			1.377	6.427	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 16:16	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.631	2.657	12.603	100.00	100.00	9.3634
Total:			2.657	12.603	100.00	100.00	

Reviewed by:

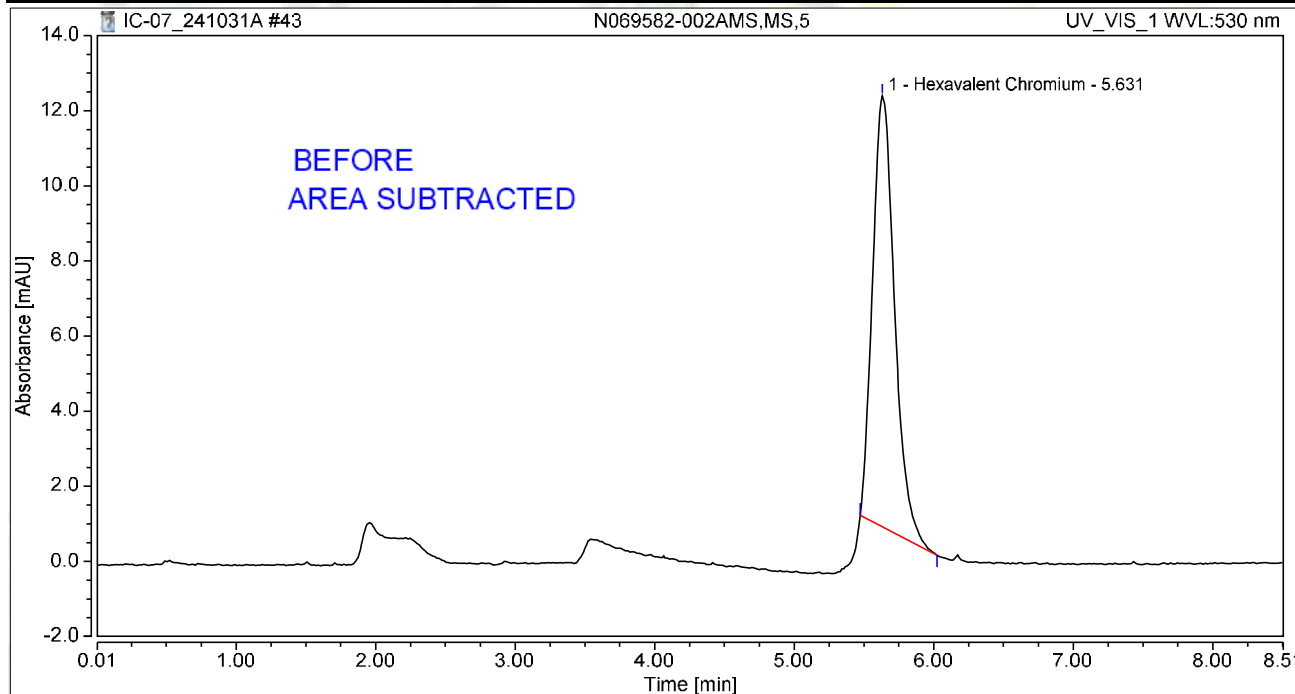
d/Rocha 11/13/2024

Chromatogram and Results

Injection Details

Injection Name:	N069582-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 16:16	Sample Weight:	1.0000

Chromatogram



Integration Results

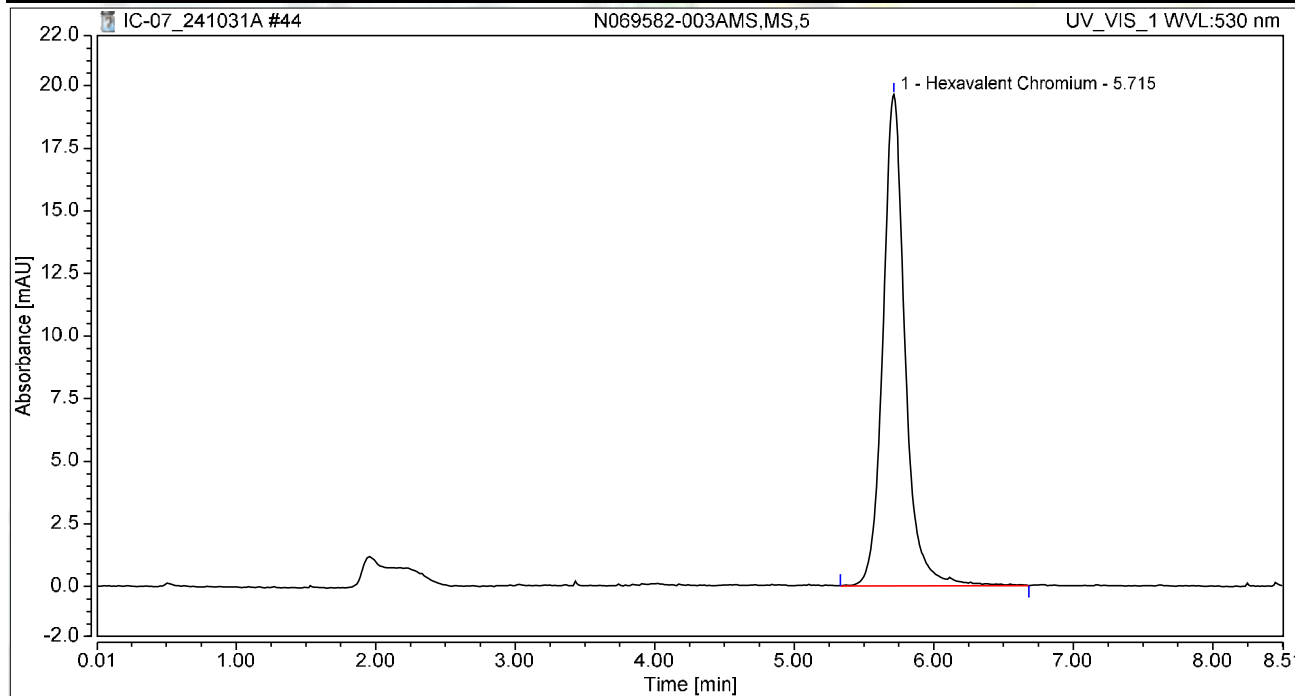
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.631	2.099	11.477	100.00	100.00	7.3957
Total:			2.099	11.477	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-003AMS,MS,5	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 16:26	Sample Weight:	1.0000

Chromatogram



Integration Results

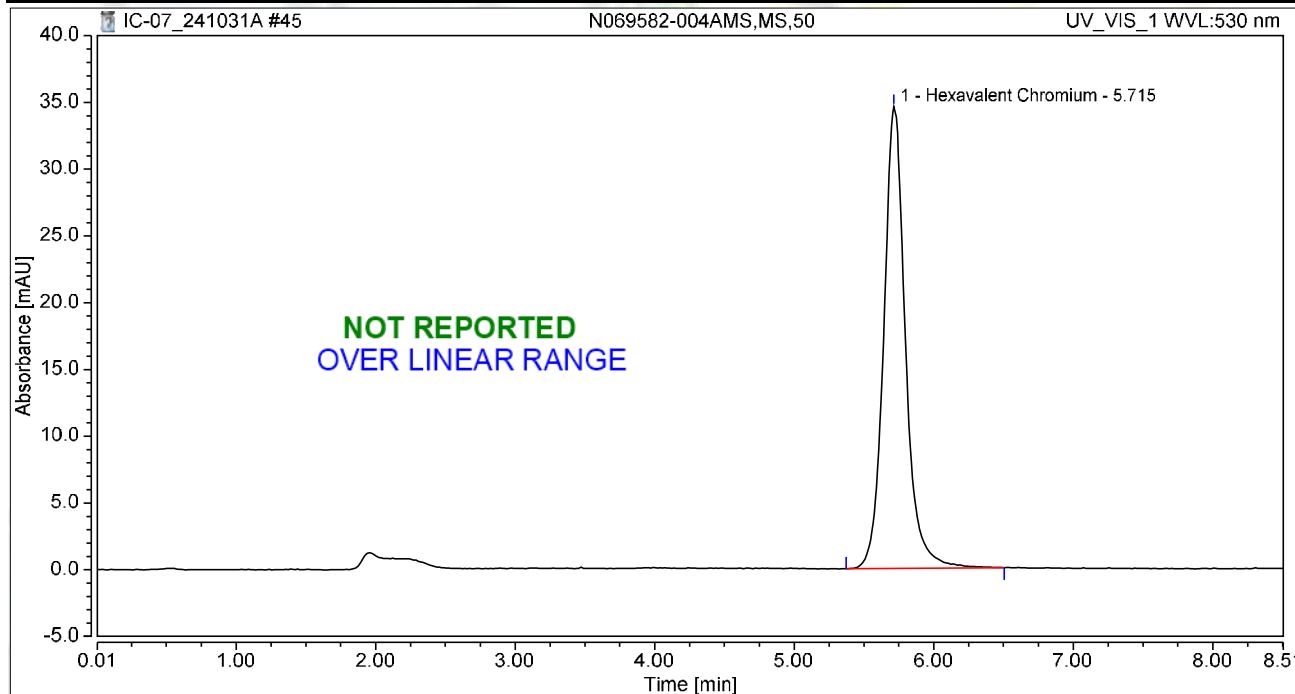
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	3.600	19.616	100.00	100.00	12.6882
Total:			3.600	19.616	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-004AMS,MS,50	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 16:35	Sample Weight:	1.0000

Chromatogram



Integration Results

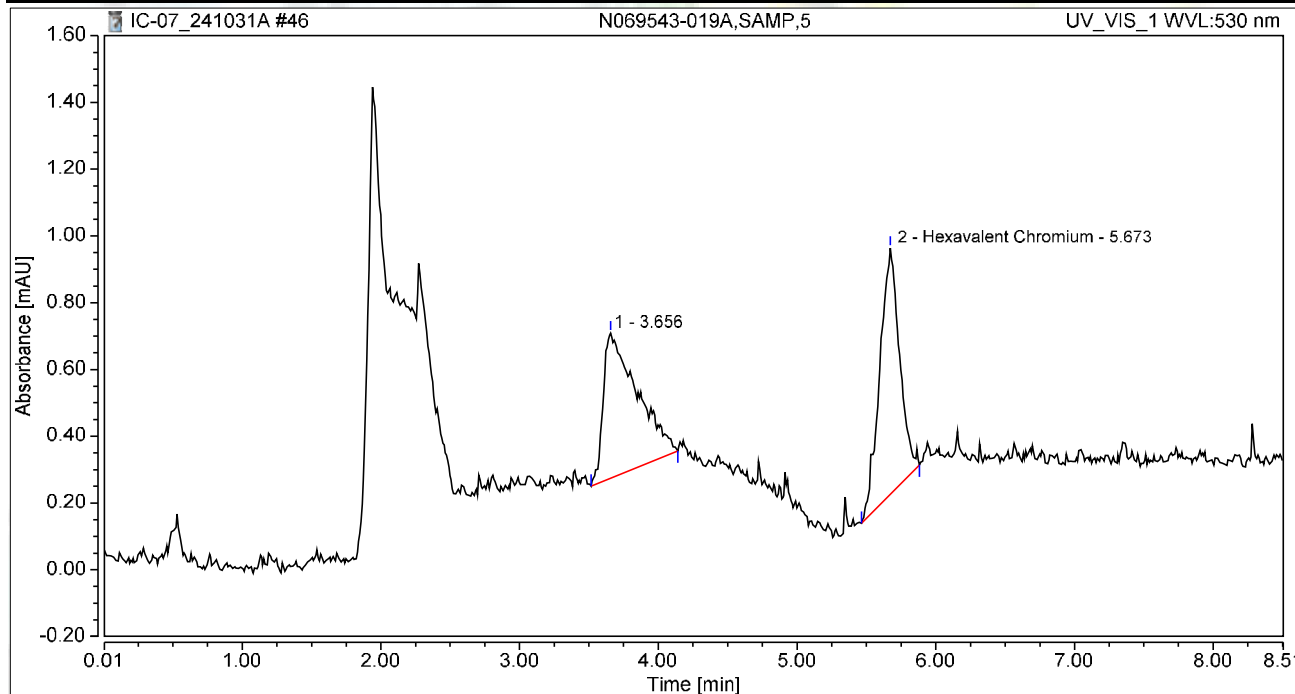
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	6.229	34.594	100.00	100.00	21.9538
Total:			6.229	34.594	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-019A,SAMP,5	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 16:44	Sample Weight:	1.0000

Chromatogram



Integration Results

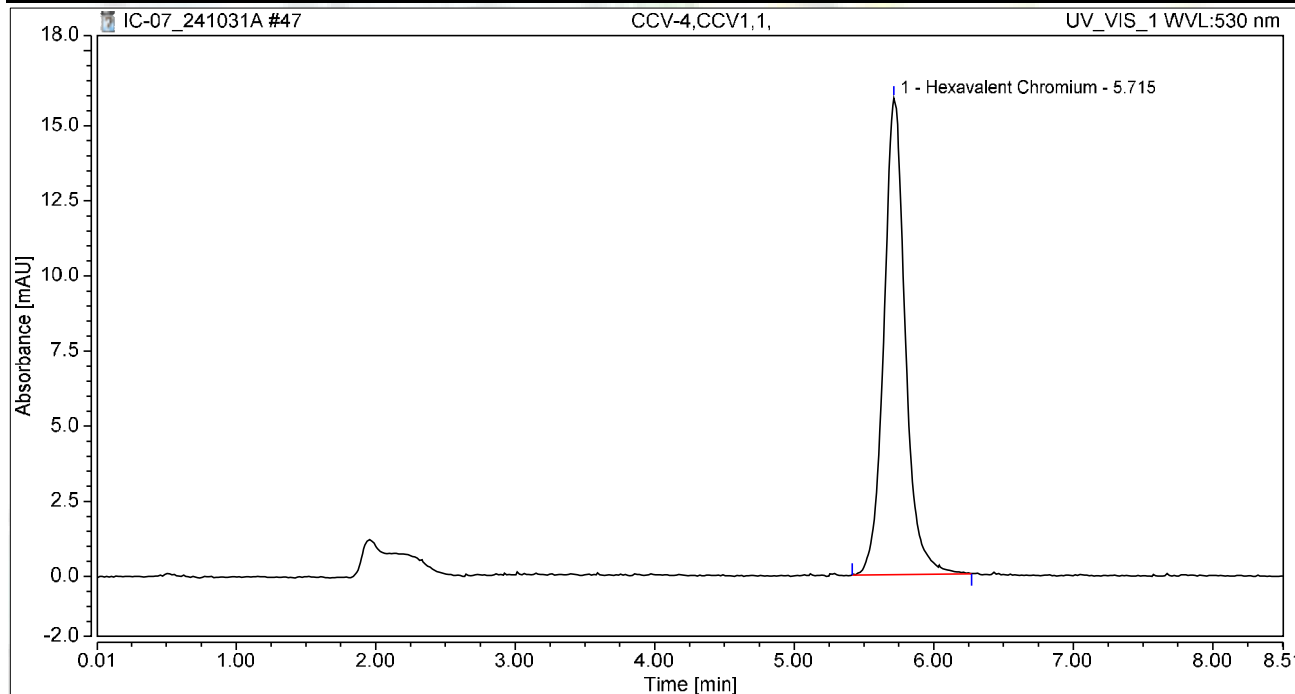
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.656	0.121	0.435	49.93	37.08	n.a.
2	Hexavalent Chromium	5.673	0.122	0.738	50.07	62.92	0.4291
Total:			0.243	1.172	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-4,CCV1,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 16:54	Sample Weight:	1.0000

Chromatogram



Integration Results

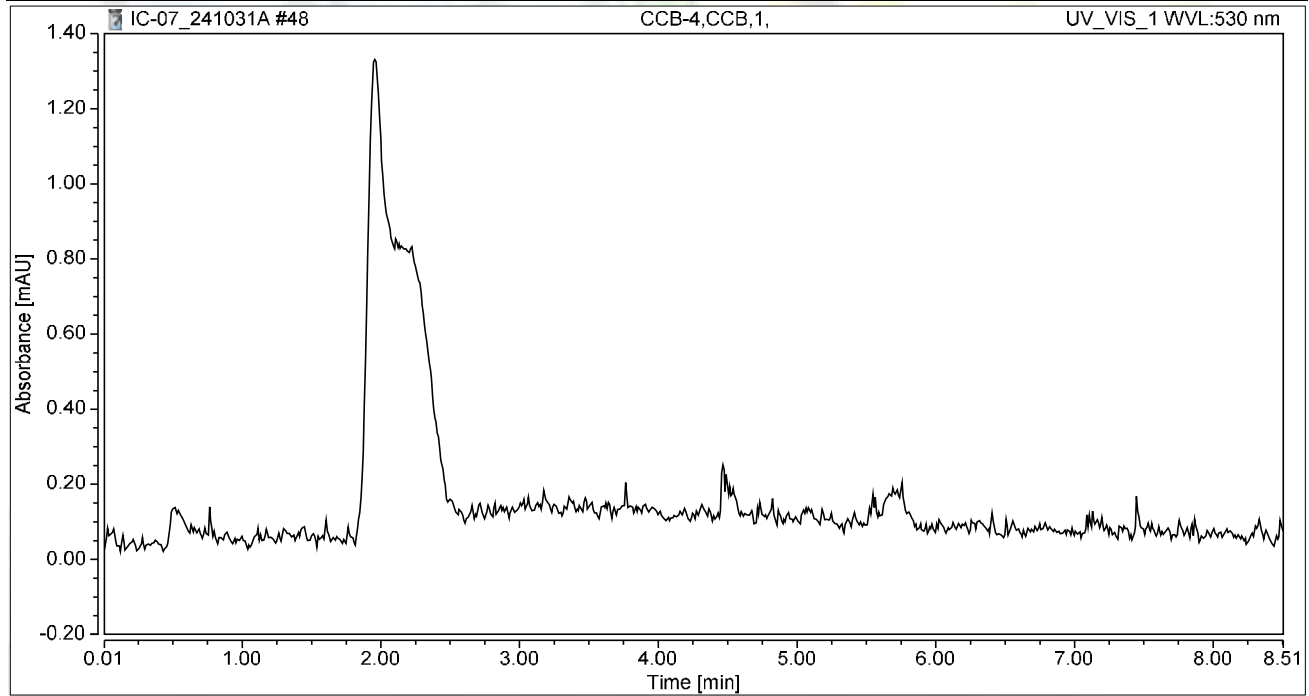
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.828	15.858	100.00	100.00	9.9671
Total:			2.828	15.858	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-4,CCB,1,	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 17:03	Sample Weight:	1.0000

Chromatogram



Integration Results

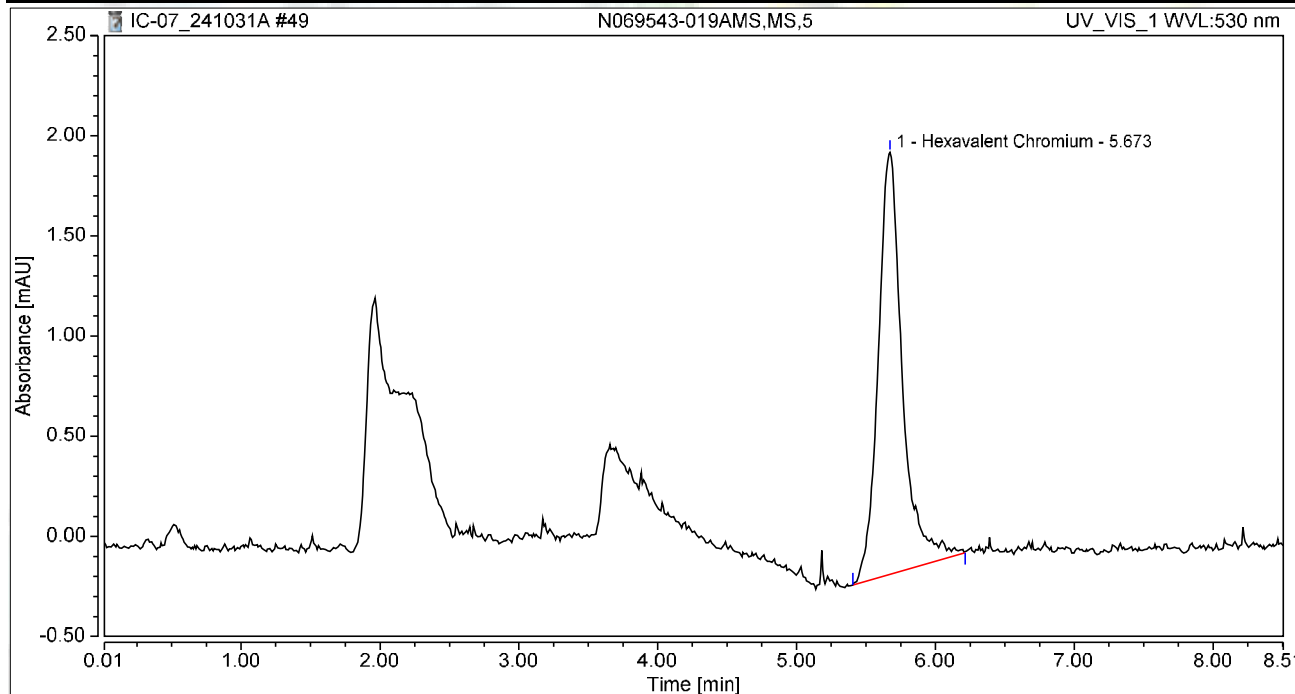
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-019AMS,MS,5	Run Time (min):	8.49
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 17:13	Sample Weight:	1.0000

Chromatogram



Integration Results

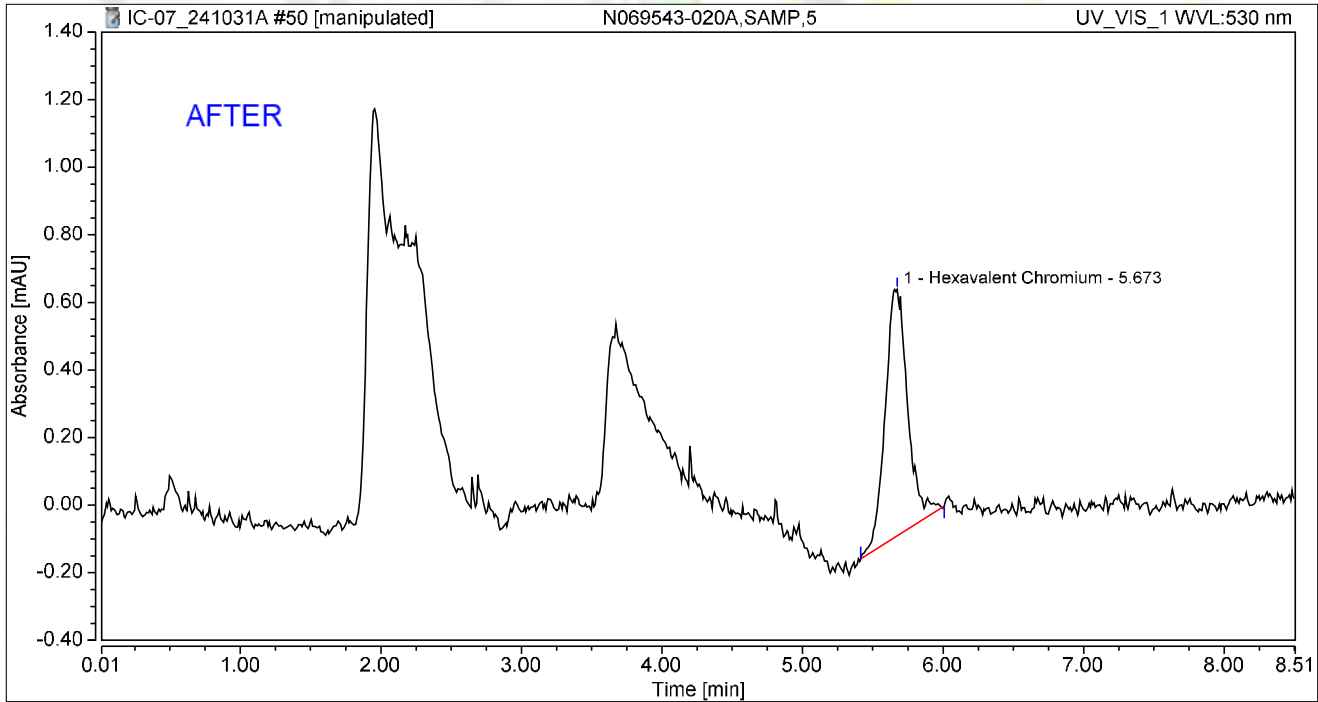
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.426	2.106	100.00	100.00	1.5005
Total:			0.426	2.106	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-020A,SAMP,5	Run Time (min):	8.49
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 17:22	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.135	0.729	100.00	100.00	0.4773
Total:			0.135	0.729	100.00	100.00	

Reviewed by:

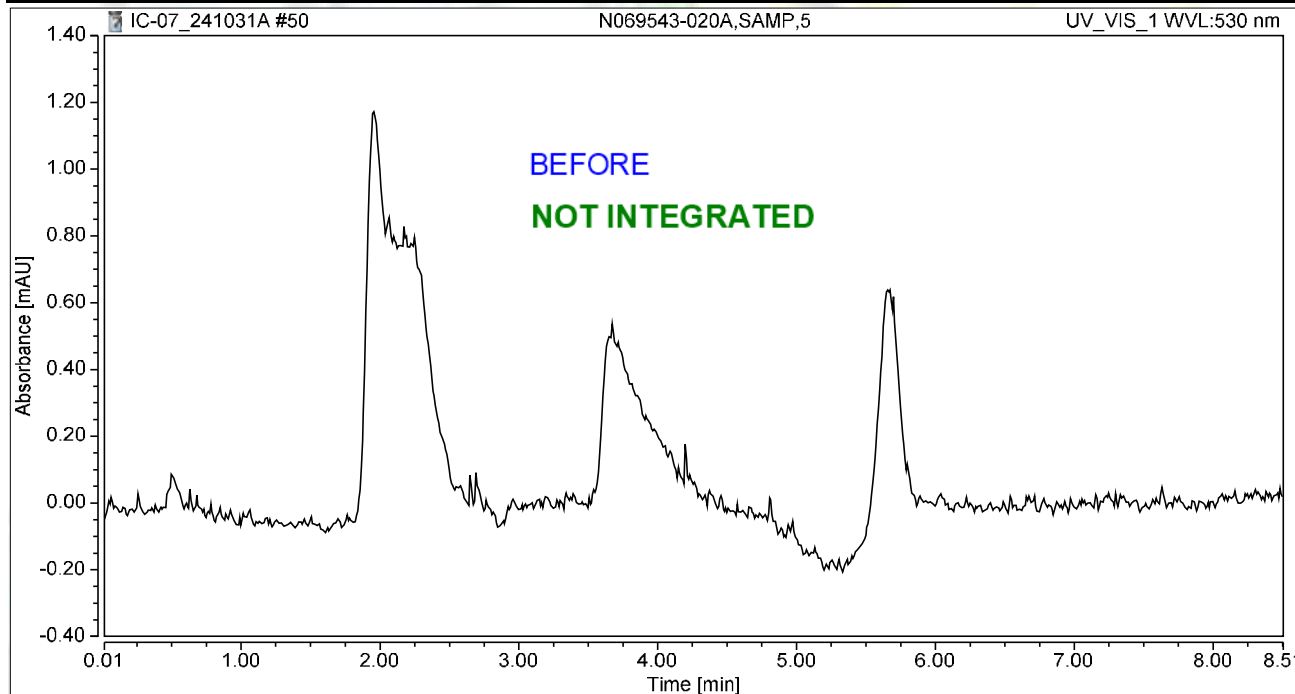
d/Rocha 11/13/2024

Chromatogram and Results

Injection Details

Injection Name:	N069543-020A,SAMP,5	Run Time (min):	8.49
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 17:22	Sample Weight:	1.0000

Chromatogram



Integration Results

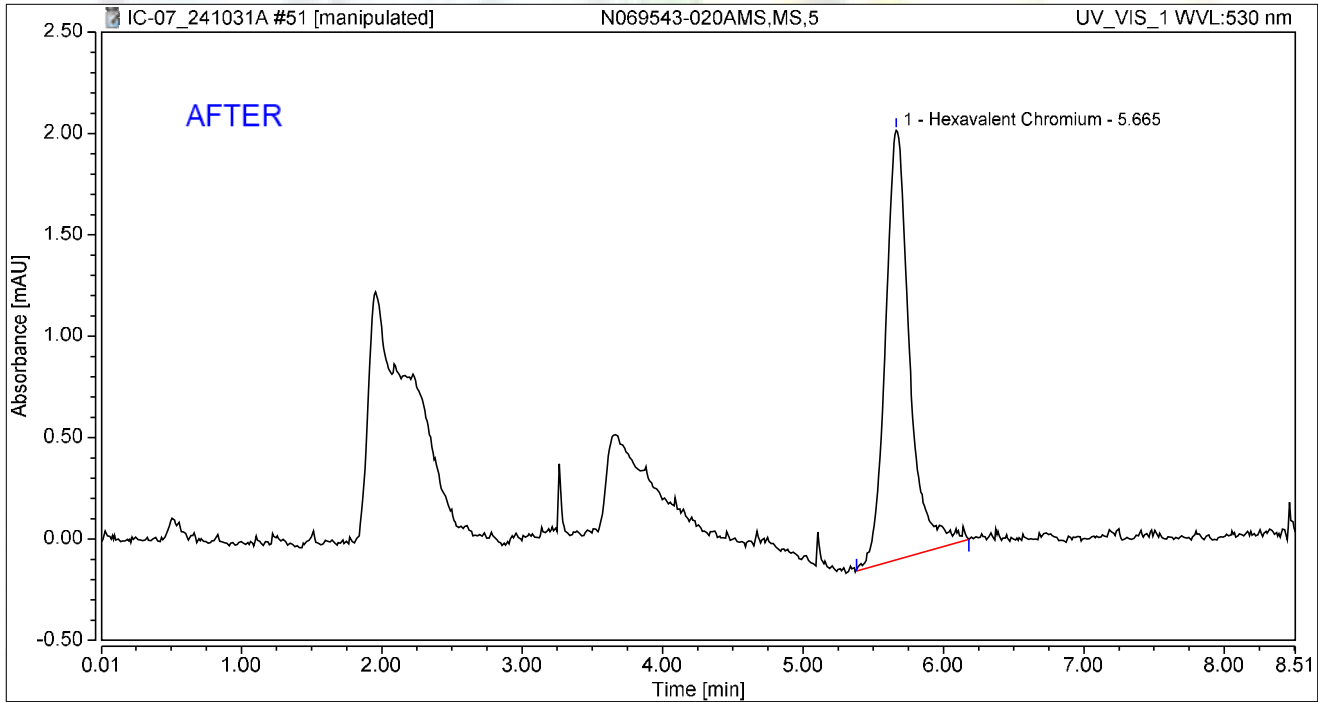
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-020AMS,MS,5	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 17:32	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.422	2.117	100.00	100.00	1.4870
Total:			0.422	2.117	100.00	100.00	

Reviewed by:

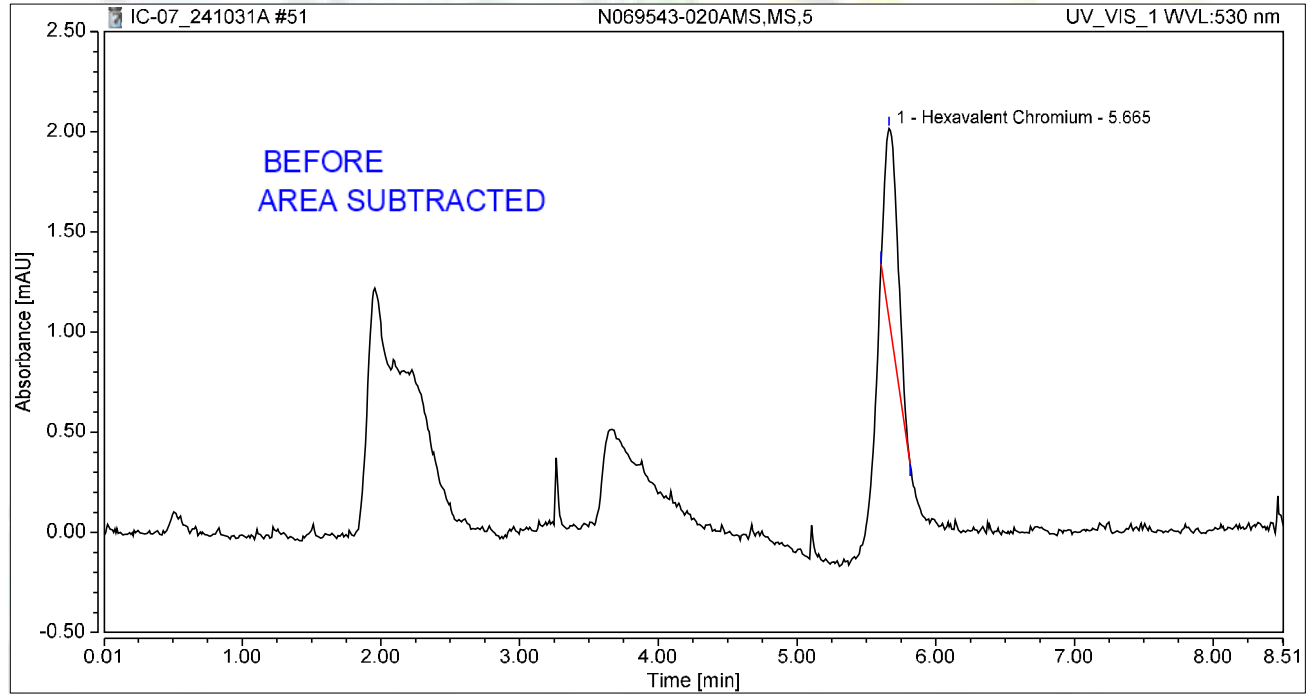
d/Rocha 11/13/2024

Chromatogram and Results

Injection Details

Injection Name:	N069543-020AMS,MS,5	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 17:32	Sample Weight:	1.0000

Chromatogram



Integration Results

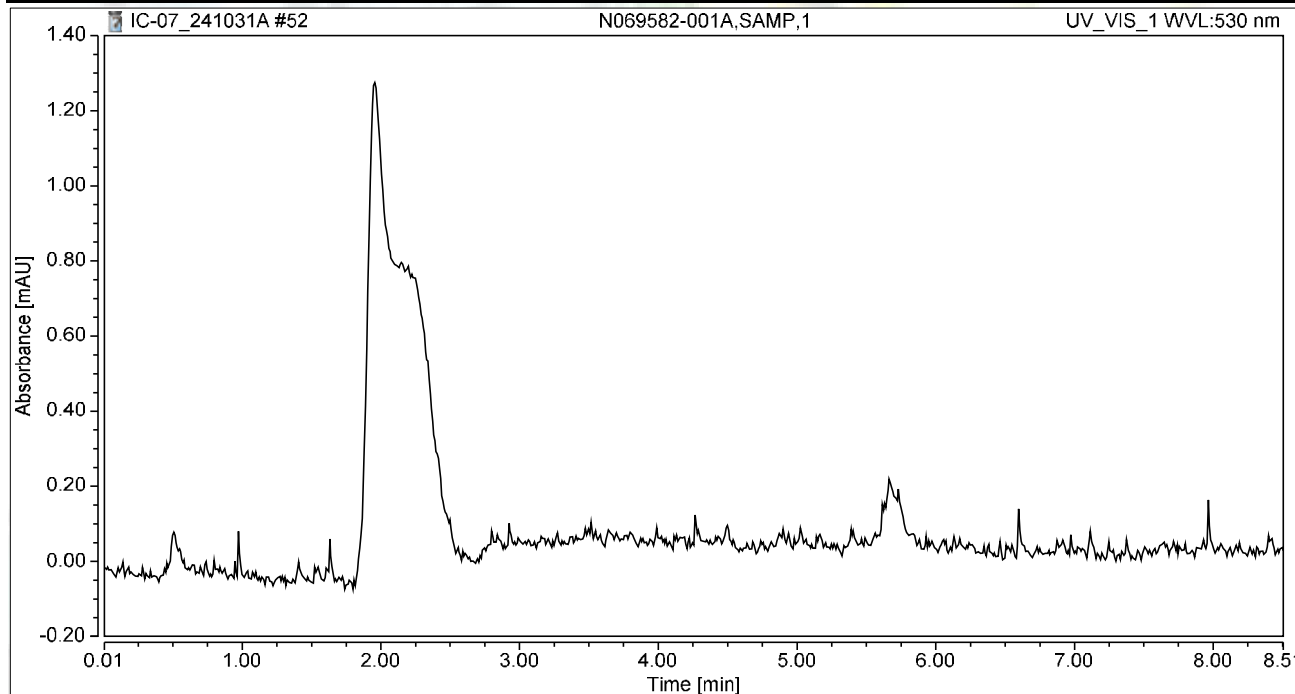
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.108	0.954	100.00	100.00	0.3809
Total:			0.108	0.954	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 17:41	Sample Weight:	1.0000

Chromatogram



Integration Results

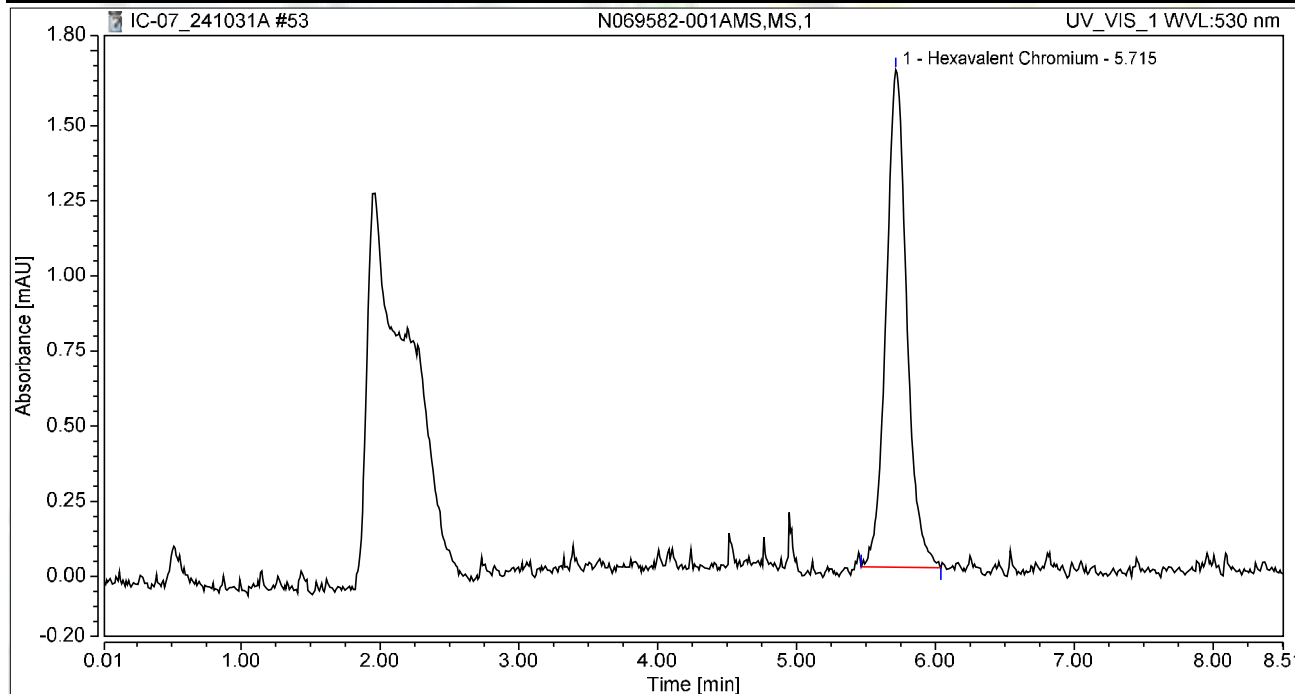
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-001AMS,MS,1	Run Time (min):	8.49
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 17:51	Sample Weight:	1.0000

Chromatogram



Integration Results

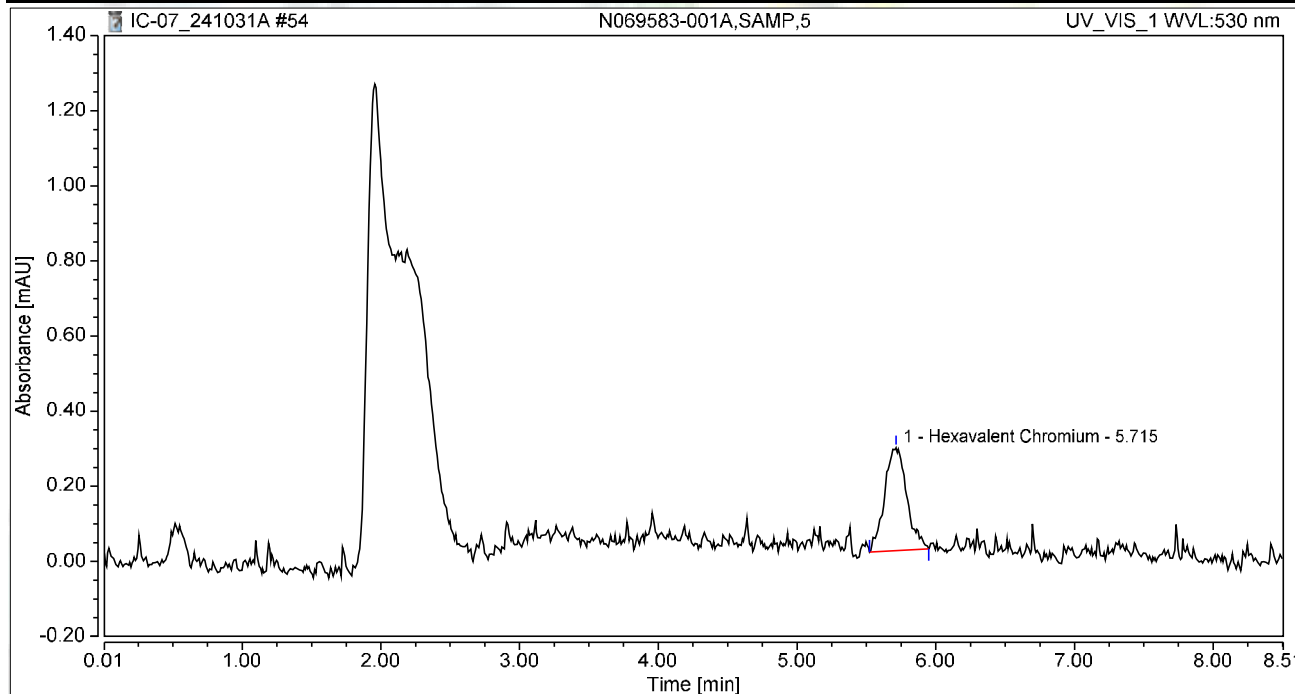
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.286	1.656	100.00	100.00	1.0097
Total:			0.286	1.656	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-001A,SAMP,5	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 18:00	Sample Weight:	1.0000

Chromatogram



Integration Results

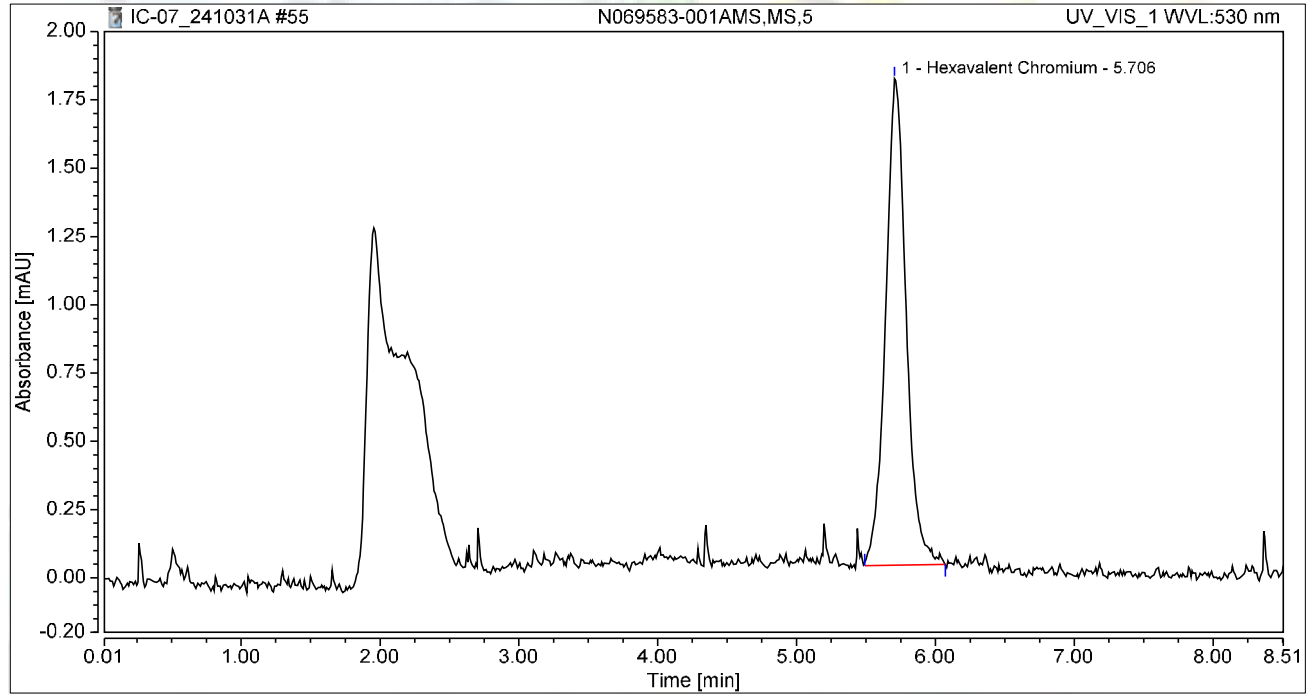
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.051	0.274	100.00	100.00	0.1791
Total:			0.051	0.274	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-001AMS,MS,5	Run Time (min):	8.49
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 18:10	Sample Weight:	1.0000

Chromatogram



Integration Results

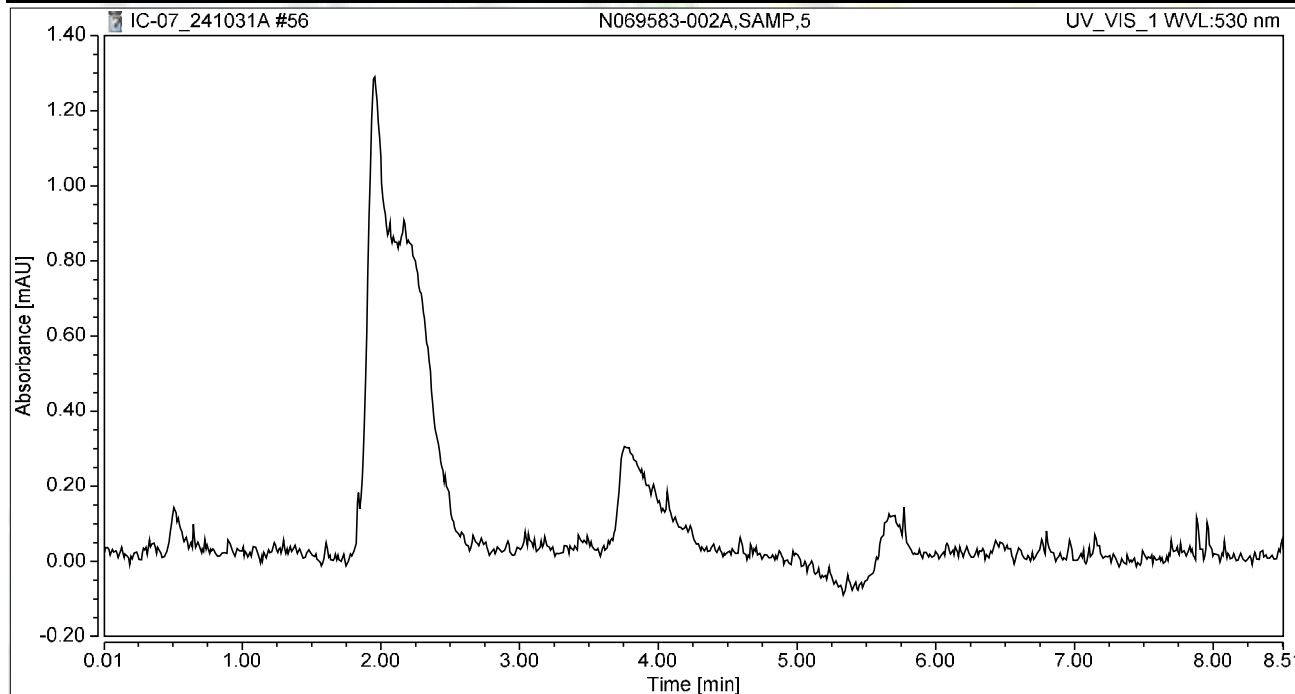
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	0.307	1.781	100.00	100.00	1.0825
Total:			0.307	1.781	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-002A,SAMP,5	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 18:19	Sample Weight:	1.0000

Chromatogram



Integration Results

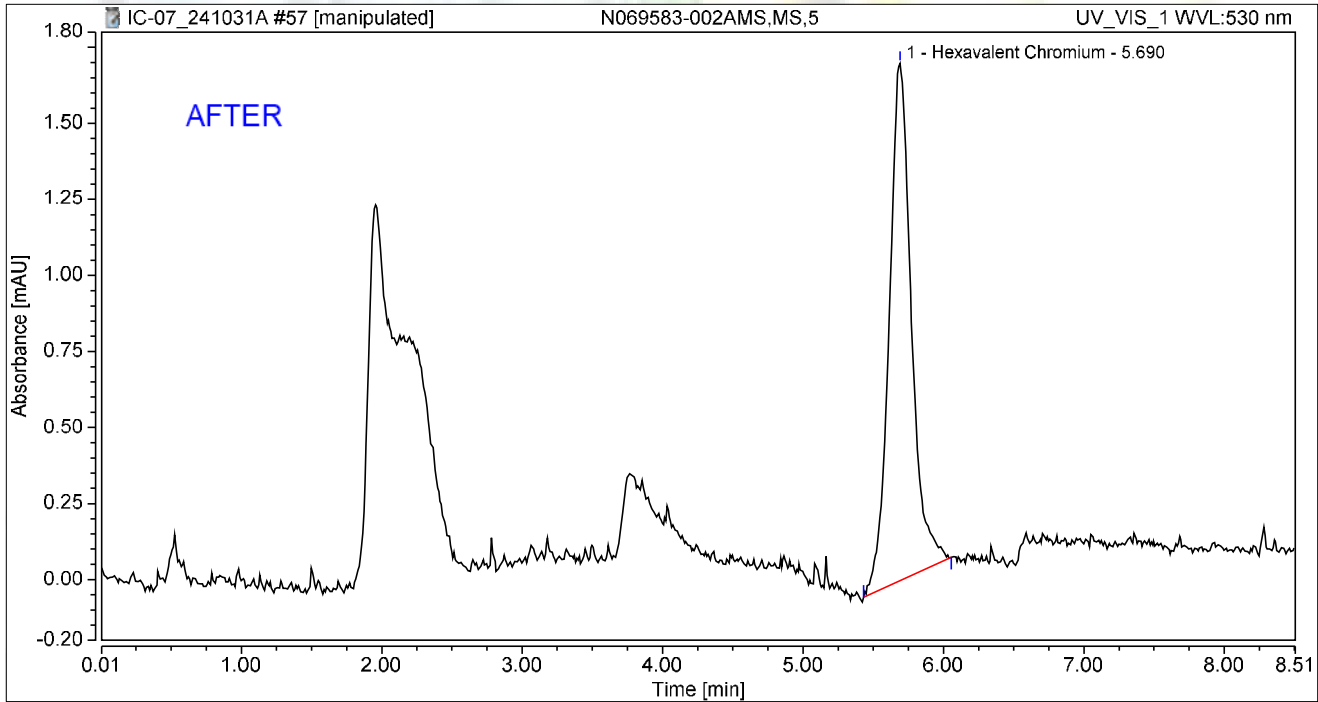
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 18:28	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.311	1.701	100.00	100.00	1.0961
Total:			0.311	1.701	100.00	100.00	

Reviewed by:

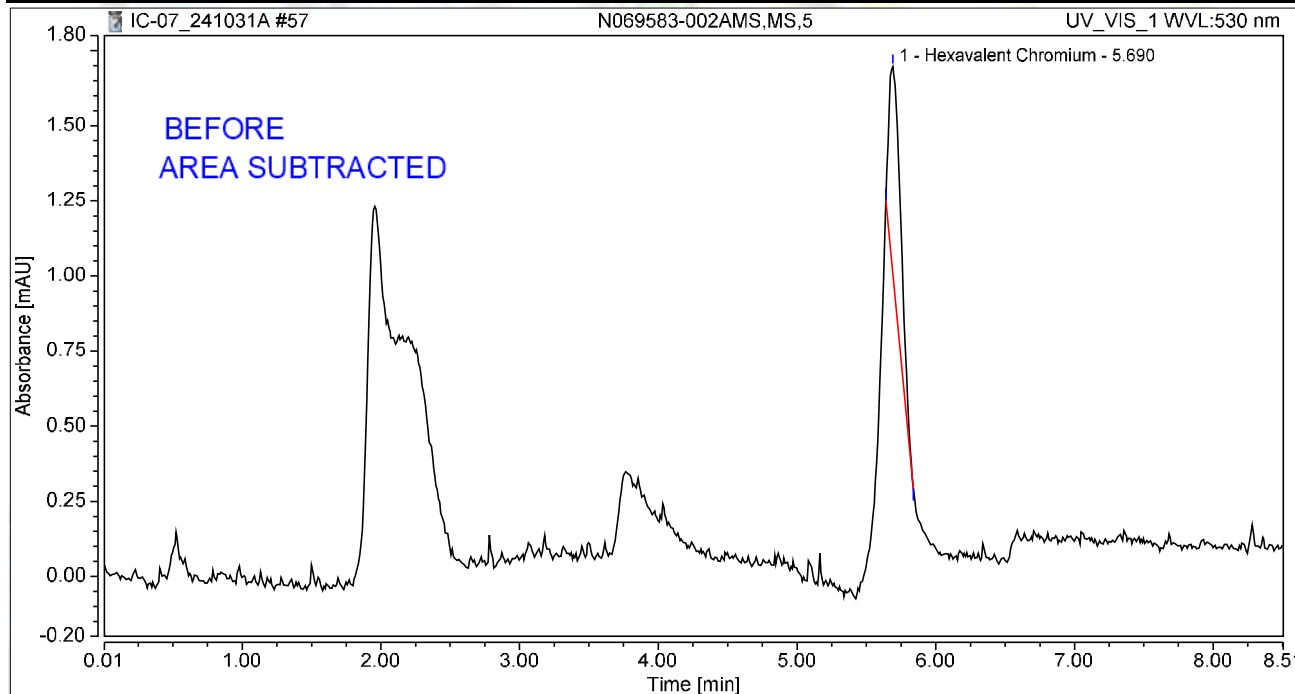
d/Rocha 11/13/2024

Chromatogram and Results

Injection Details

Injection Name:	N069583-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 18:28	Sample Weight:	1.0000

Chromatogram



Integration Results

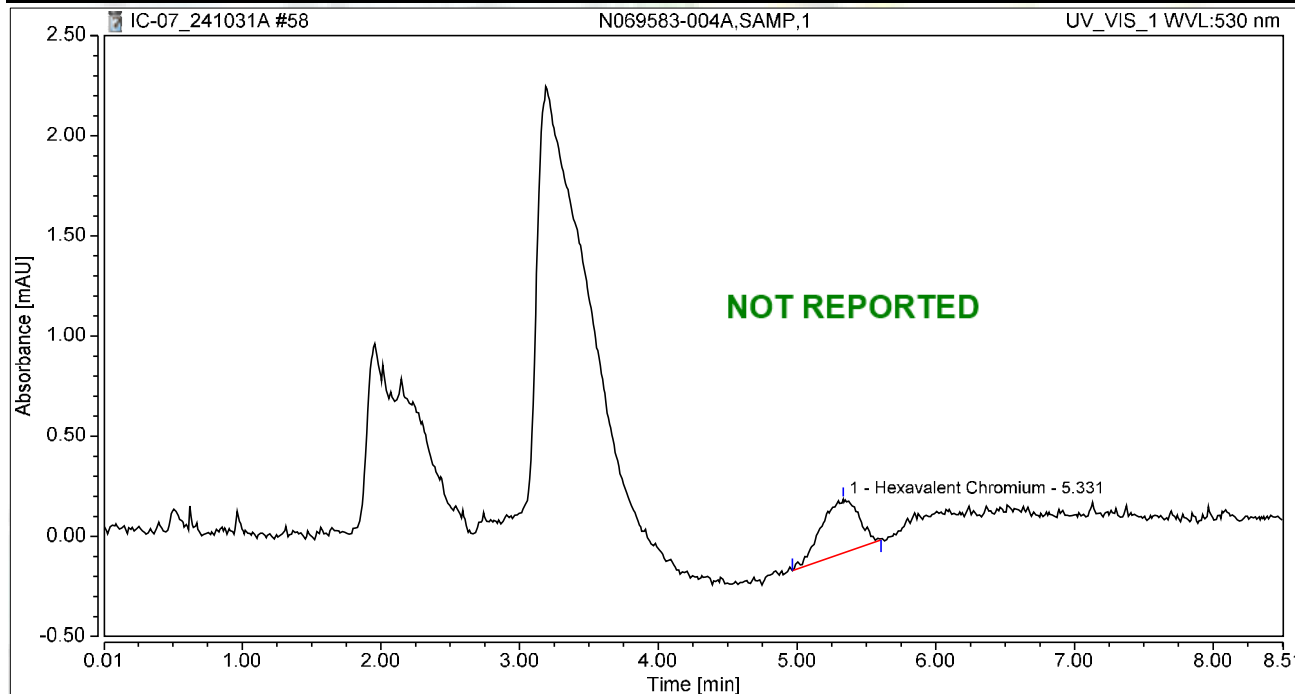
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.070	0.685	100.00	100.00	0.2457
Total:			0.070	0.685	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-004A,SAMP,1	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 18:38	Sample Weight:	1.0000

Chromatogram



Integration Results

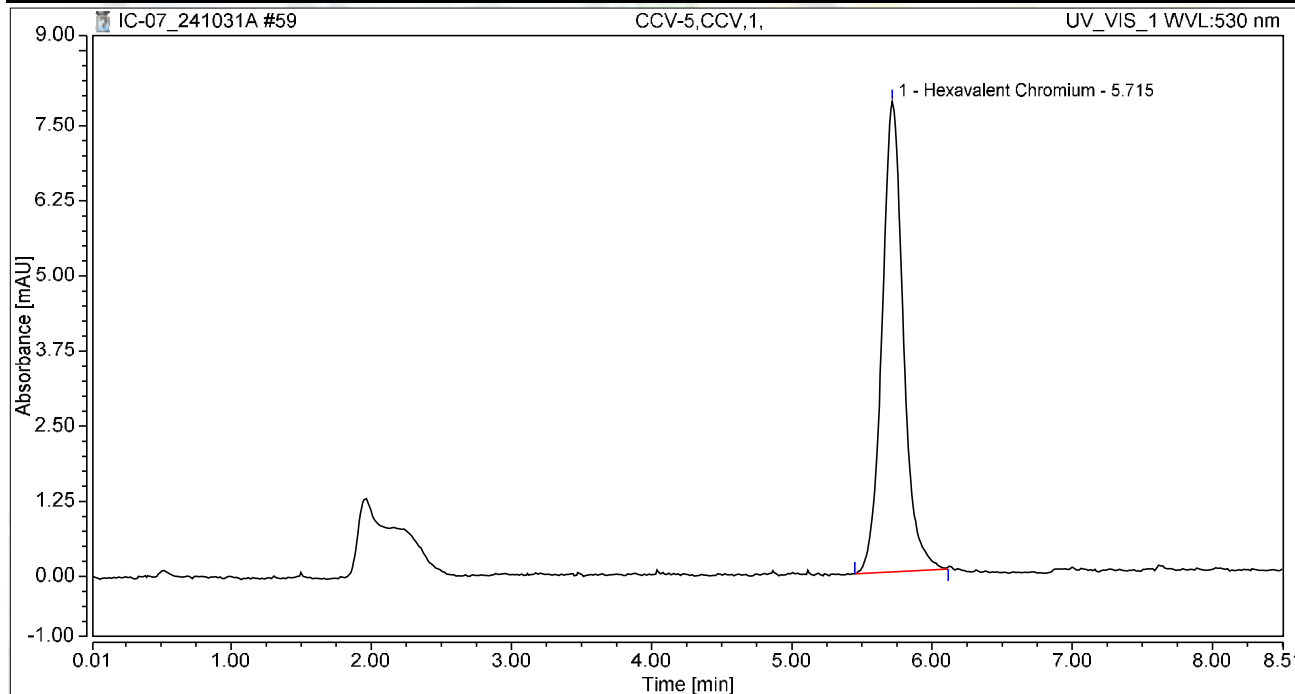
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.331	0.085	0.268	100.00	100.00	0.2987
Total:			0.085	0.268	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.49
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 18:47	Sample Weight:	1.0000

Chromatogram



Integration Results

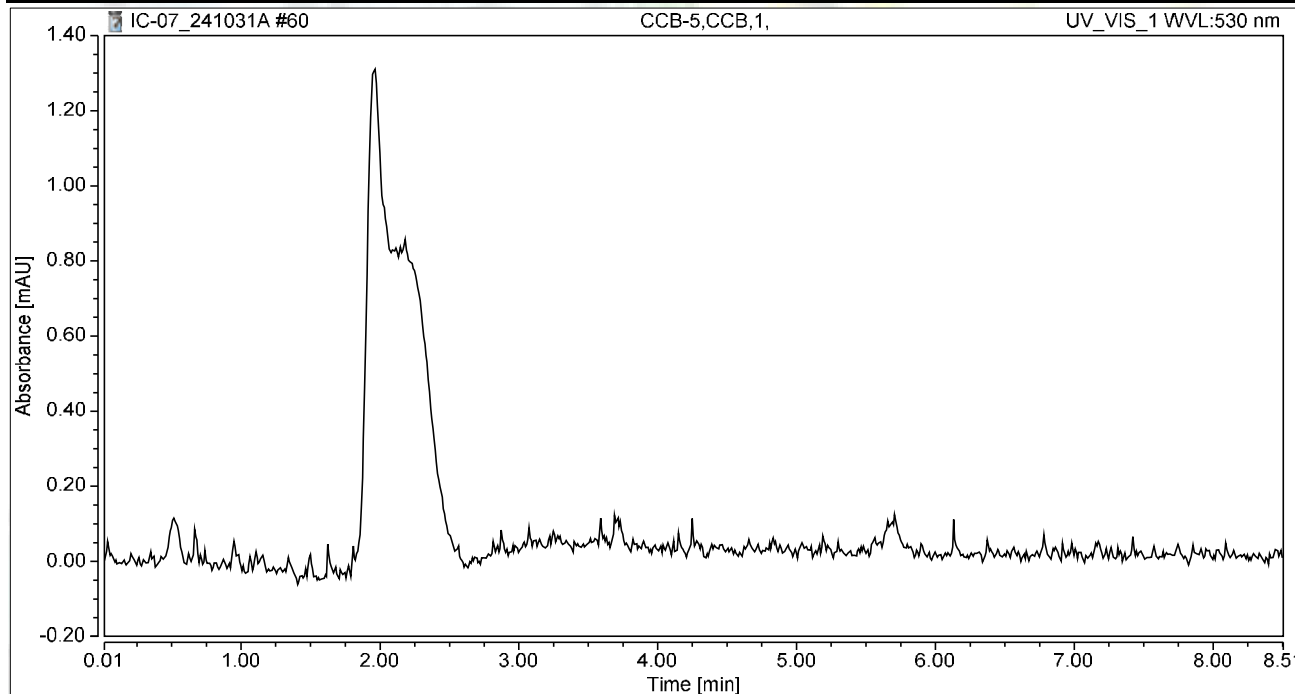
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	1.377	7.831	100.00	100.00	4.8512
Total:			1.377	7.831	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.49
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 18:57	Sample Weight:	1.0000

Chromatogram



Integration Results

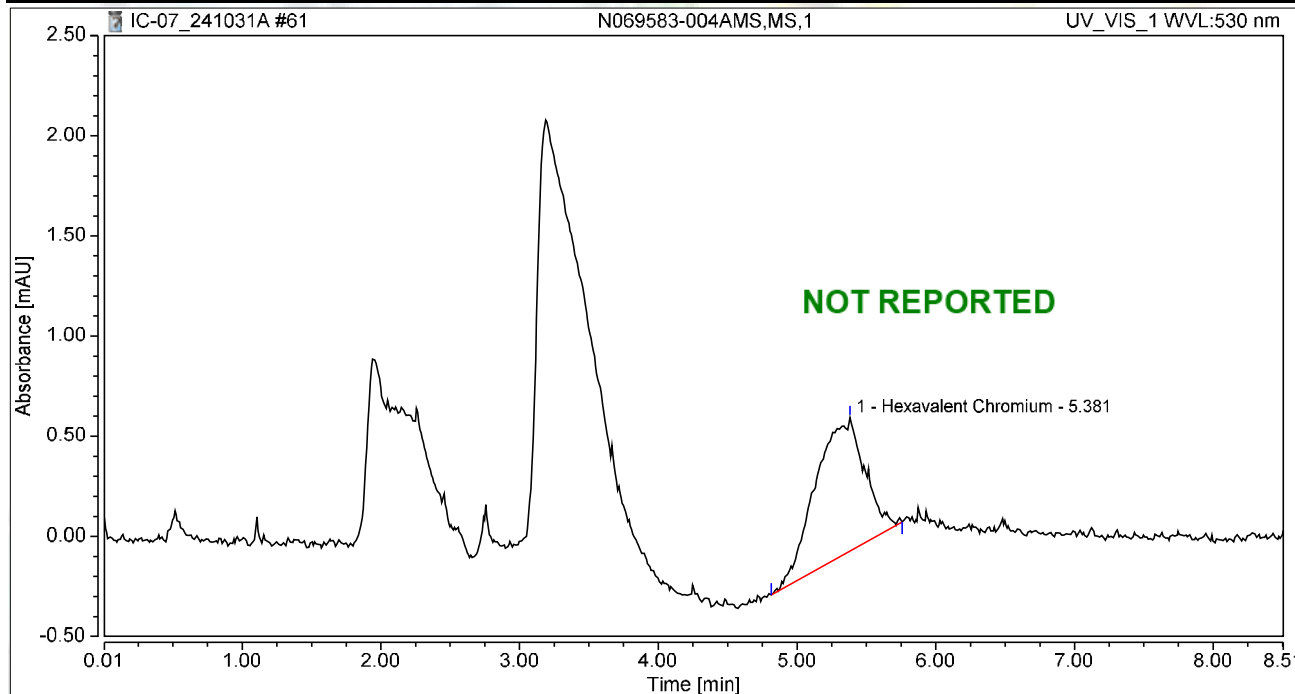
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-004AMS,MS,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 19:06	Sample Weight:	1.0000

Chromatogram



Integration Results

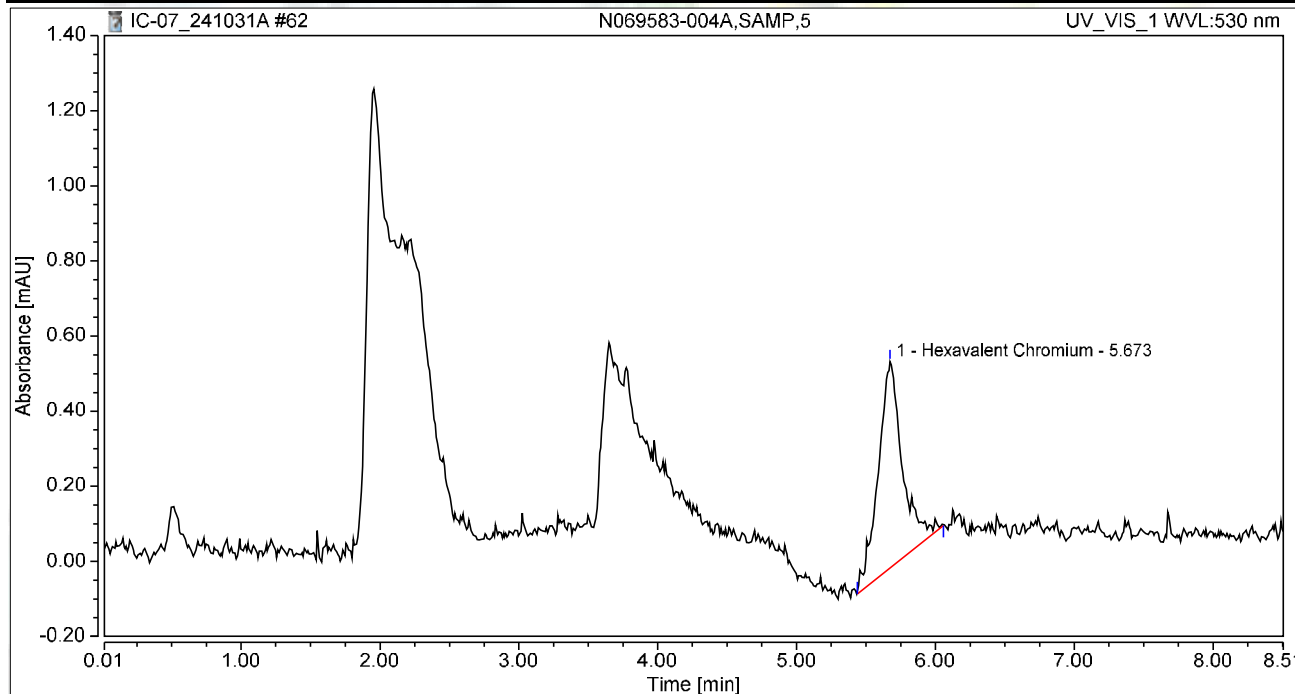
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.381	0.282	0.667	100.00	100.00	0.9952
Total:			0.282	0.667	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-004A,SAMP,5	Run Time (min):	8.49
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 19:16	Sample Weight:	1.0000

Chromatogram



Integration Results

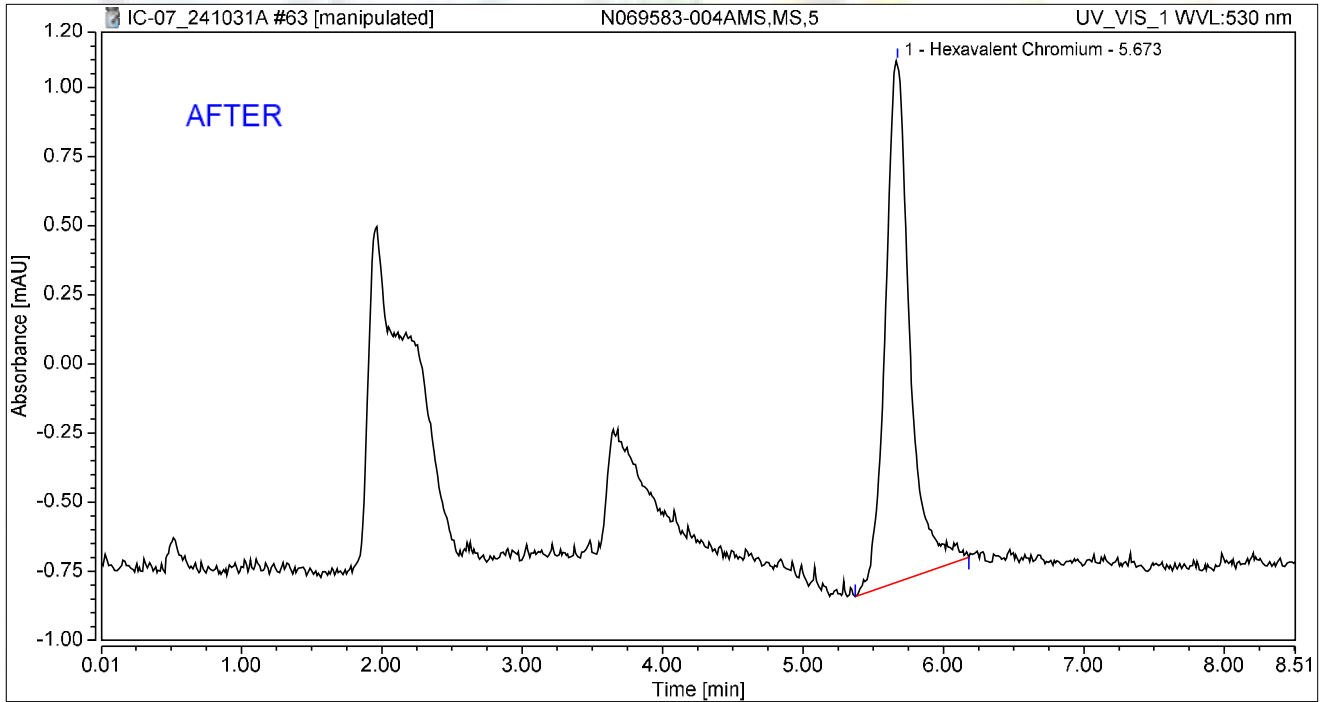
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.111	0.550	100.00	100.00	0.3915
Total:			0.111	0.550	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-004AMS,MS,5	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 19:25	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.382	1.887	100.00	100.00	1.3469
Total:			0.382	1.887	100.00	100.00	

Reviewed by:

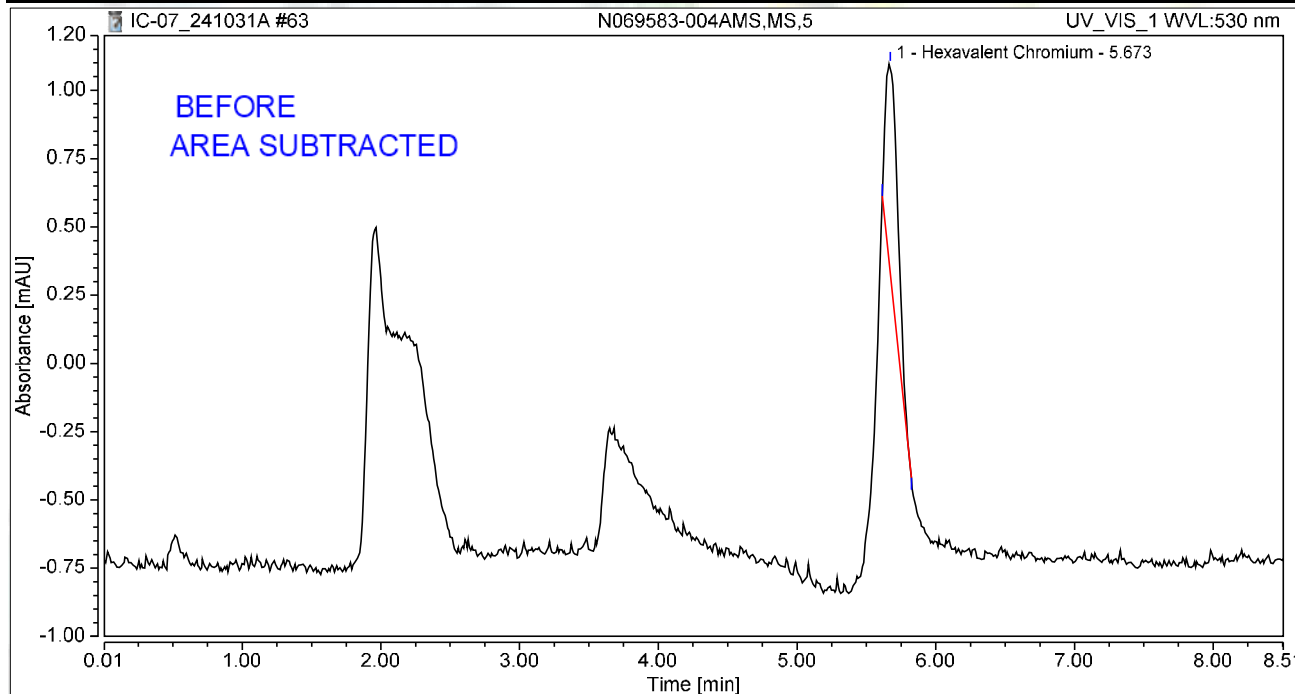
d/Rocha 11/13/2024

Chromatogram and Results

Injection Details

Injection Name:	N069583-004AMS,MS,5	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 19:25	Sample Weight:	1.0000

Chromatogram



Integration Results

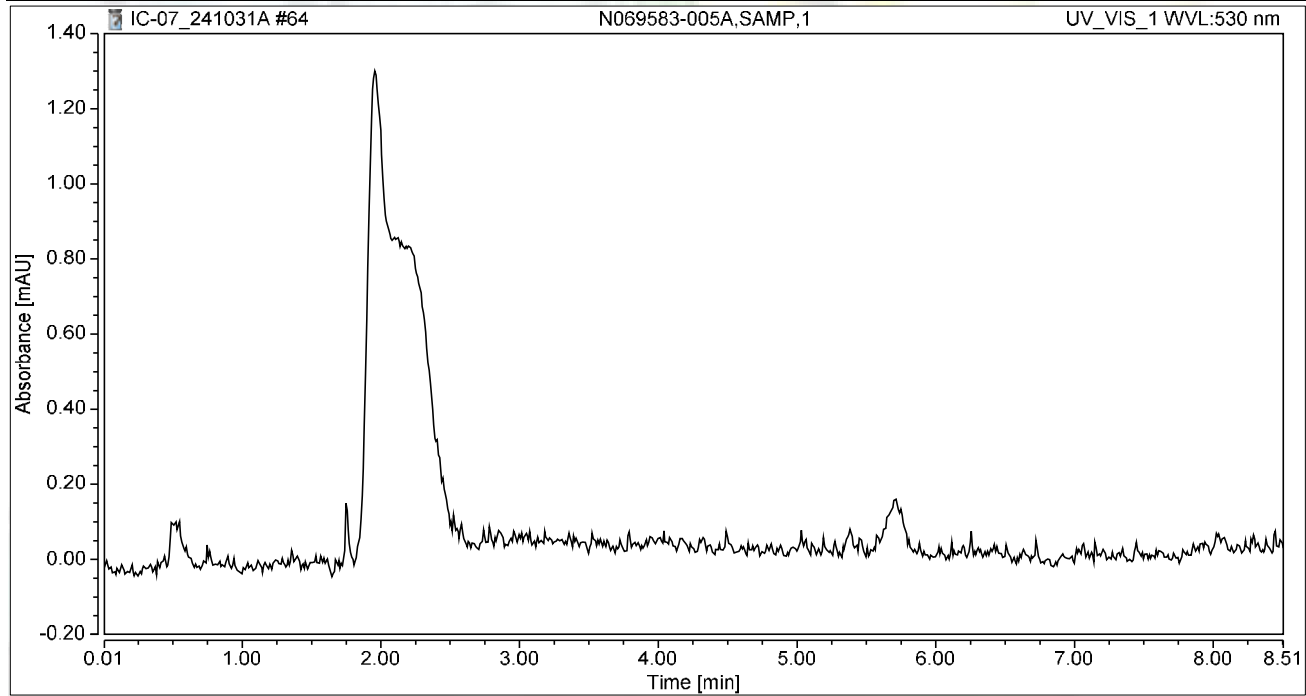
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.080	0.774	100.00	100.00	0.2828
Total:			0.080	0.774	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 19:35	Sample Weight:	1.0000

Chromatogram



Integration Results

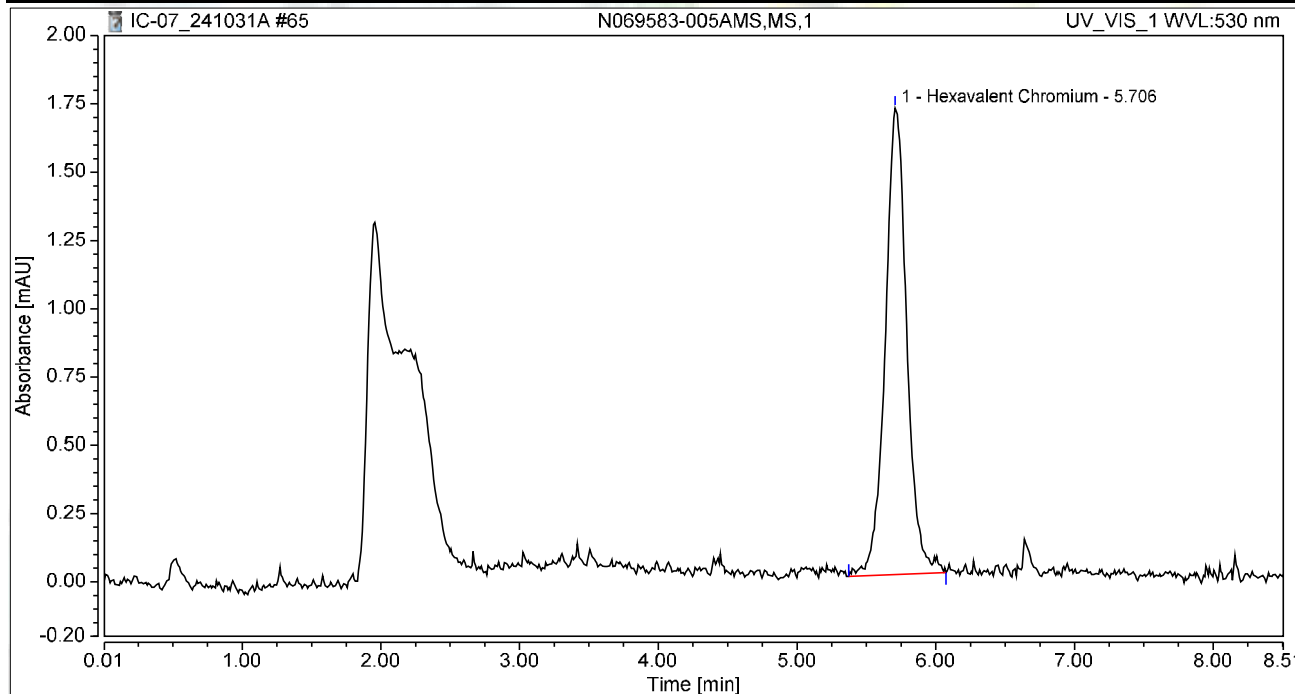
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-005AMS,MS,1	Run Time (min):	8.50
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 19:44	Sample Weight:	1.0000

Chromatogram



Integration Results

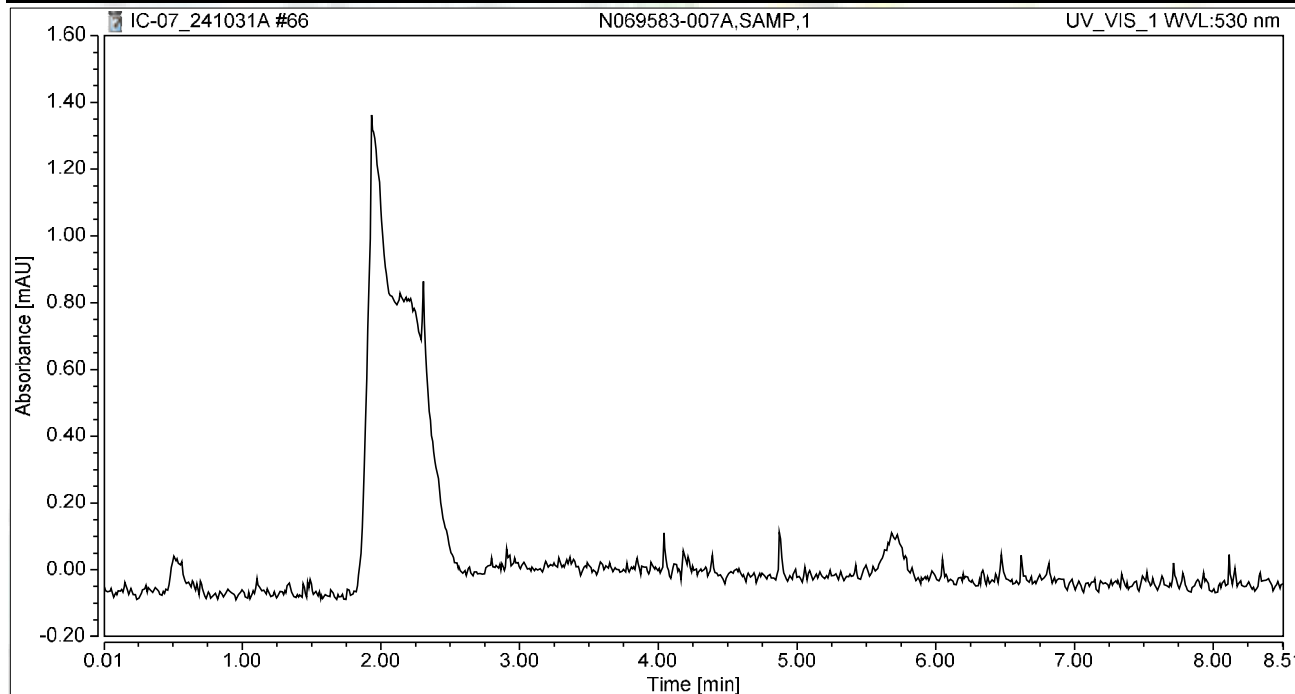
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	0.308	1.708	100.00	100.00	1.0852
Total:			0.308	1.708	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-007A,SAMP,1	Run Time (min):	8.50
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 19:54	Sample Weight:	1.0000

Chromatogram



Integration Results

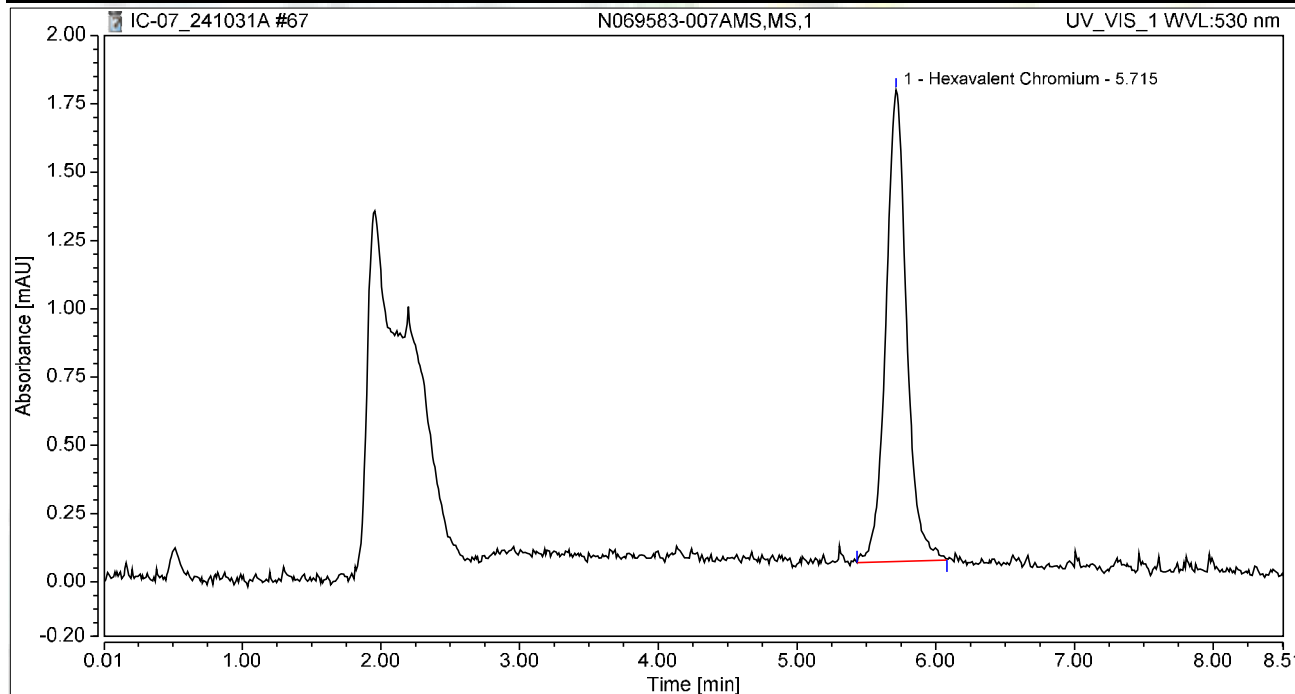
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-007AMS,MS,1	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 20:03	Sample Weight:	1.0000

Chromatogram



Integration Results

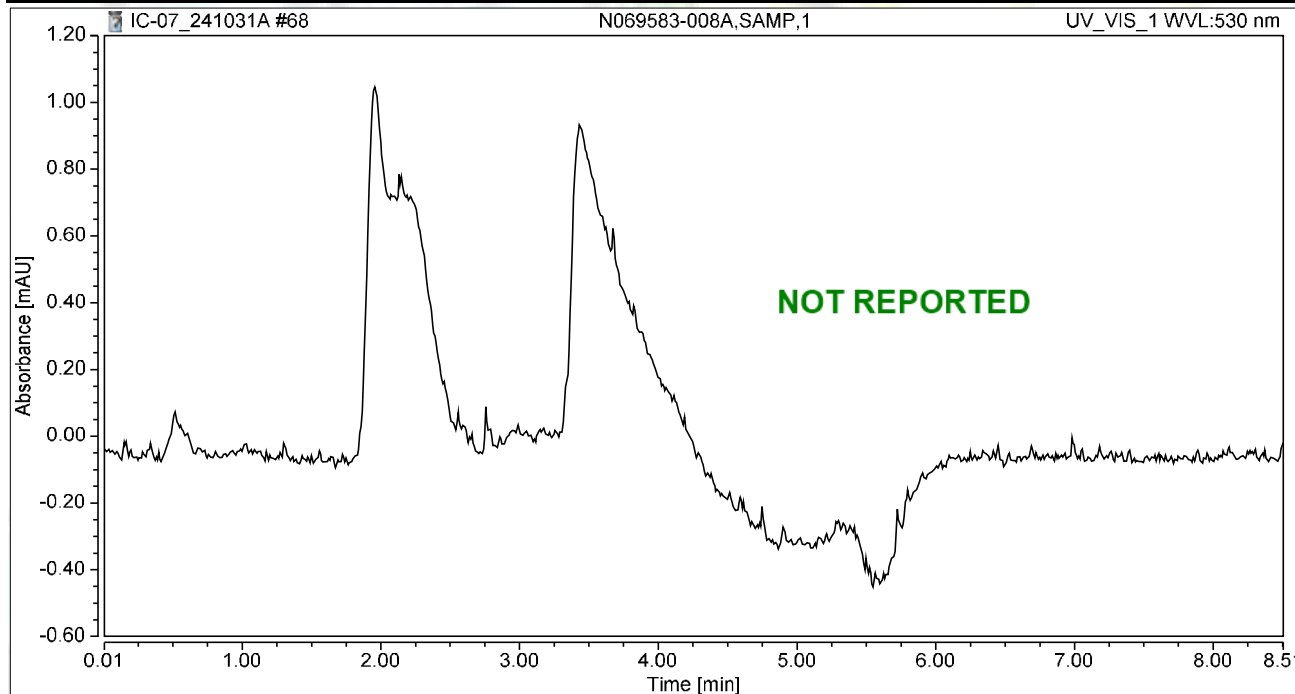
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.299	1.727	100.00	100.00	1.0532
Total:			0.299	1.727	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-008A,SAMP,1	Run Time (min):	8.50
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 20:12	Sample Weight:	1.0000

Chromatogram



Integration Results

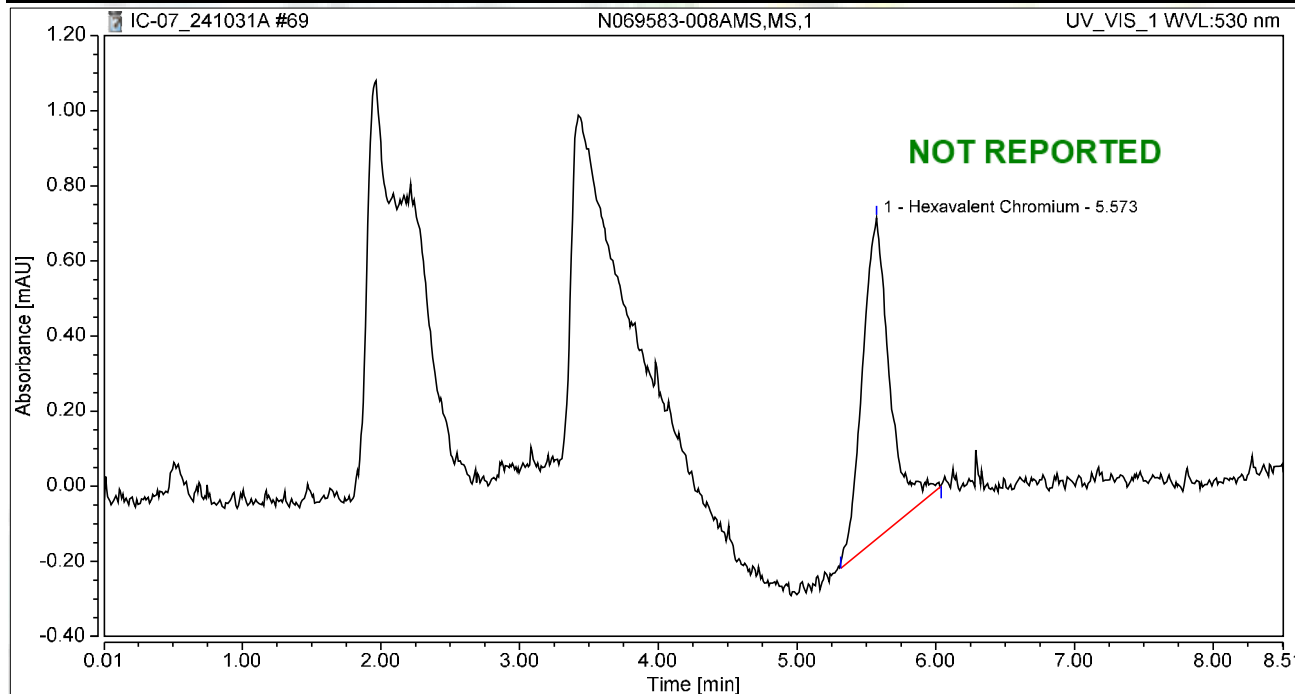
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-008AMS,MS,1	Run Time (min):	8.50
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 20:22	Sample Weight:	1.0000

Chromatogram



Integration Results

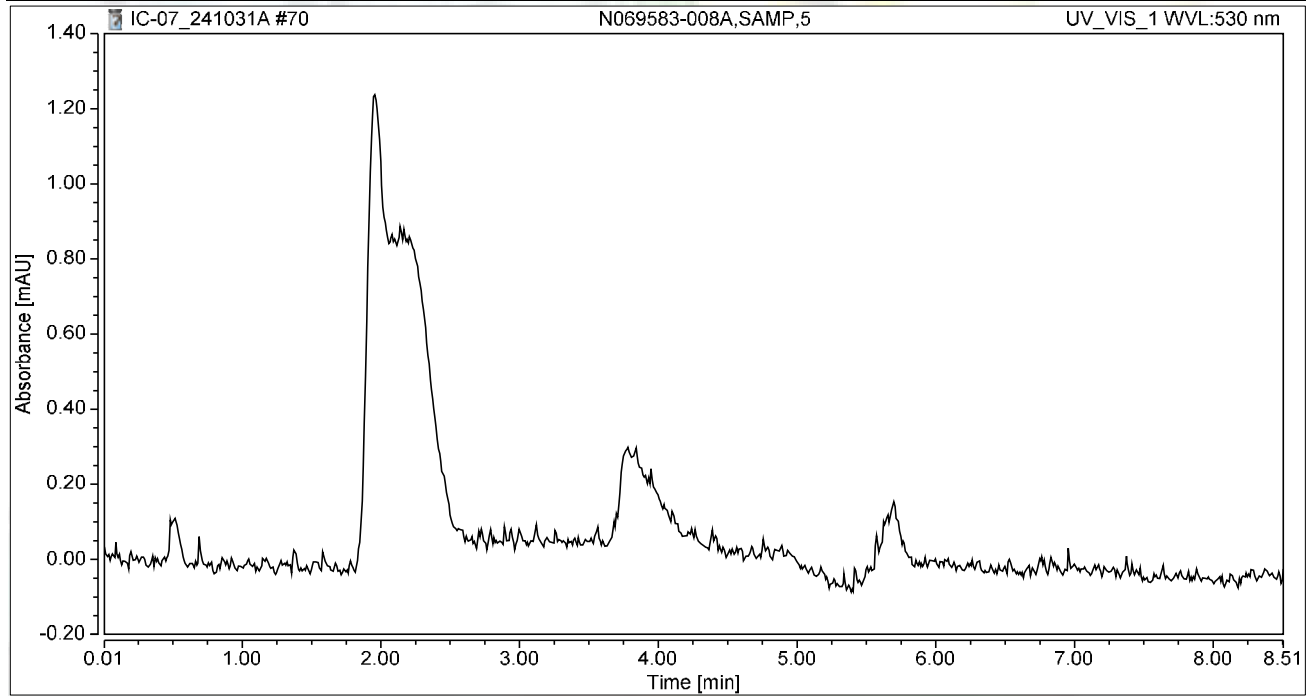
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.573	0.196	0.856	100.00	100.00	0.6894
Total:			0.196	0.856	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-008A,SAMP,5	Run Time (min):	8.50
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 20:31	Sample Weight:	1.0000

Chromatogram



Integration Results

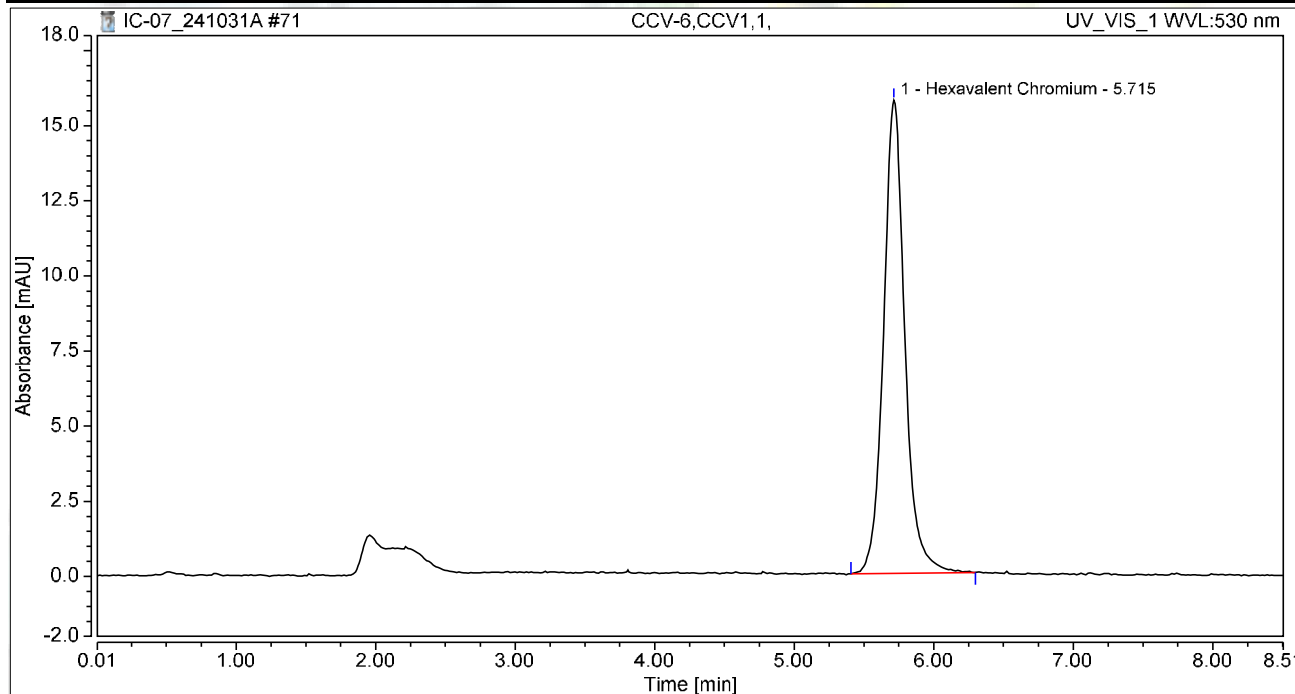
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-6,CCV1,1,	Run Time (min):	8.50
Vial Number:	30	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 20:41	Sample Weight:	1.0000

Chromatogram



Integration Results

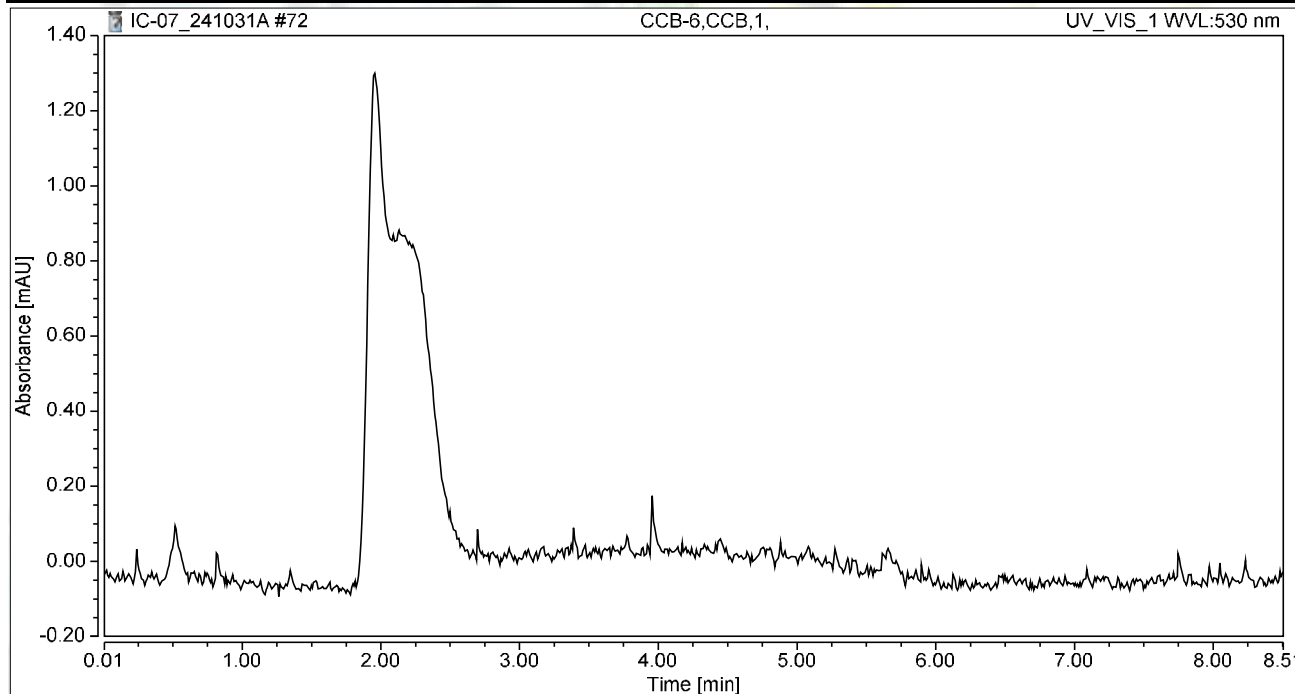
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.783	15.751	100.00	100.00	9.8090
Total:			2.783	15.751	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-6,CCB,1,	Run Time (min):	8.50
Vial Number:	31	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 20:50	Sample Weight:	1.0000

Chromatogram



Integration Results

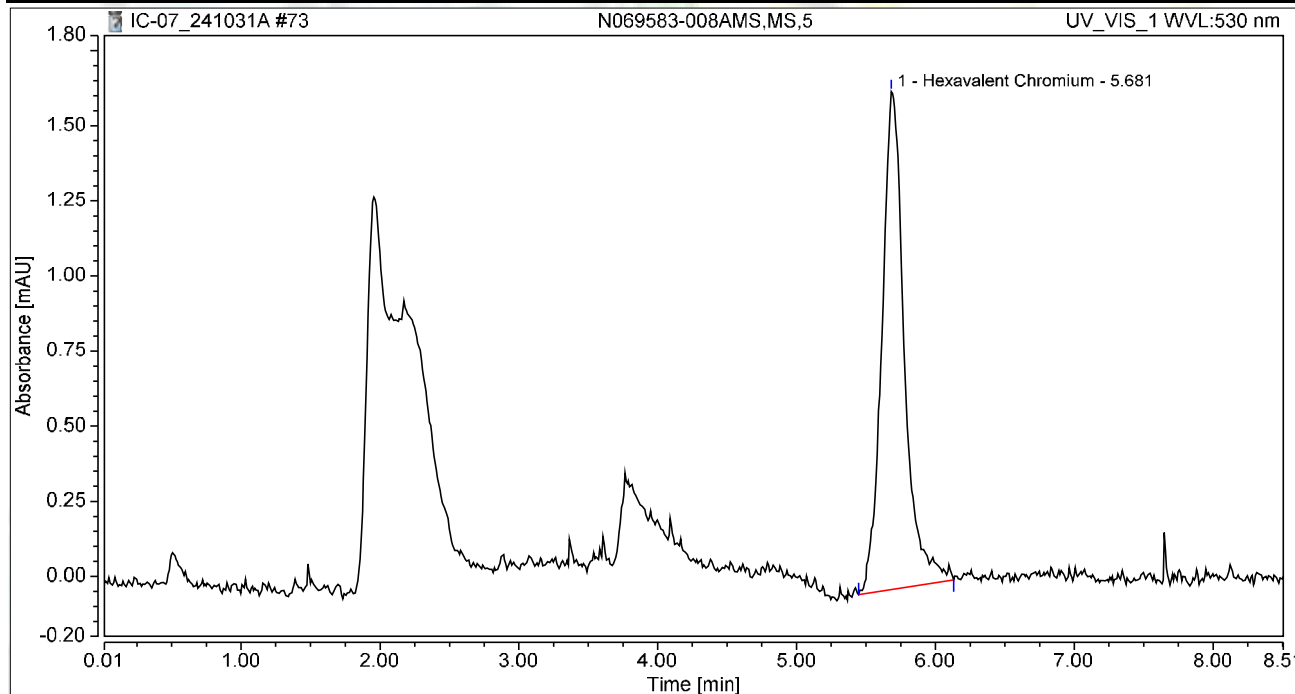
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-008AMS,MS,5	Run Time (min):	8.49
Vial Number:	32	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 21:00	Sample Weight:	1.0000

Chromatogram



Integration Results

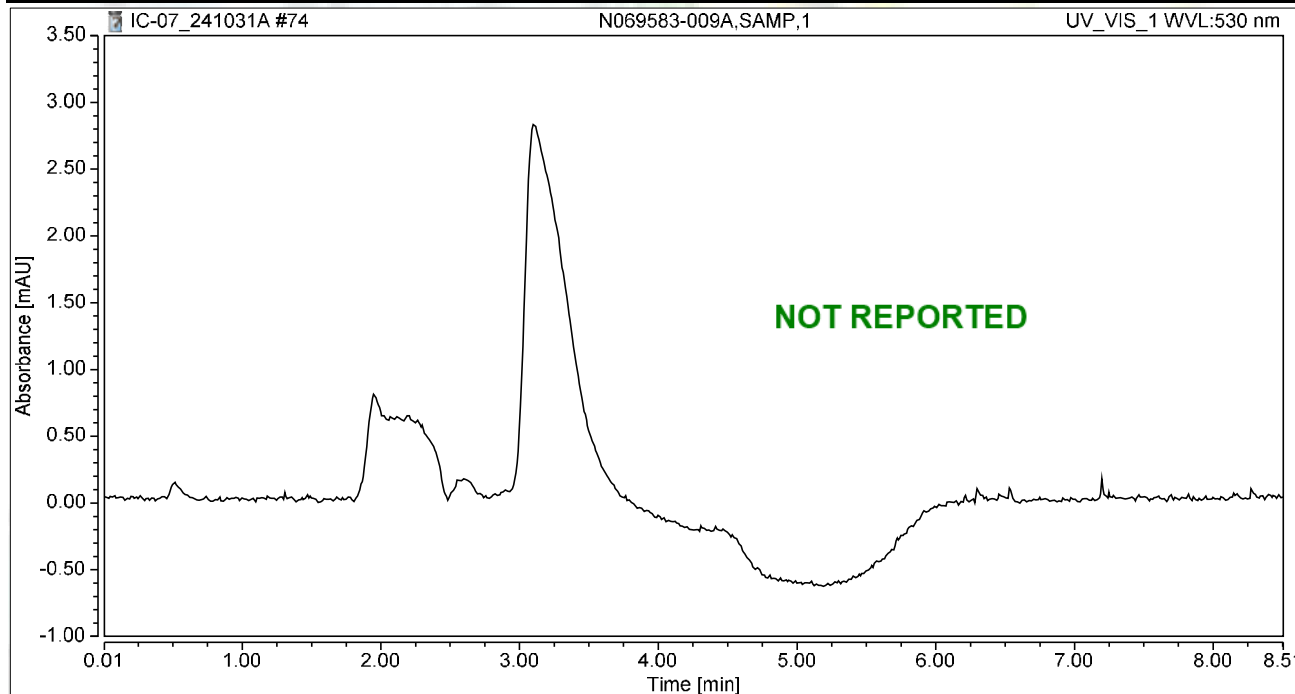
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.311	1.658	100.00	100.00	1.0976
Total:			0.311	1.658	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-009A,SAMP,1	Run Time (min):	8.50
Vial Number:	33	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 21:09	Sample Weight:	1.0000

Chromatogram



Integration Results

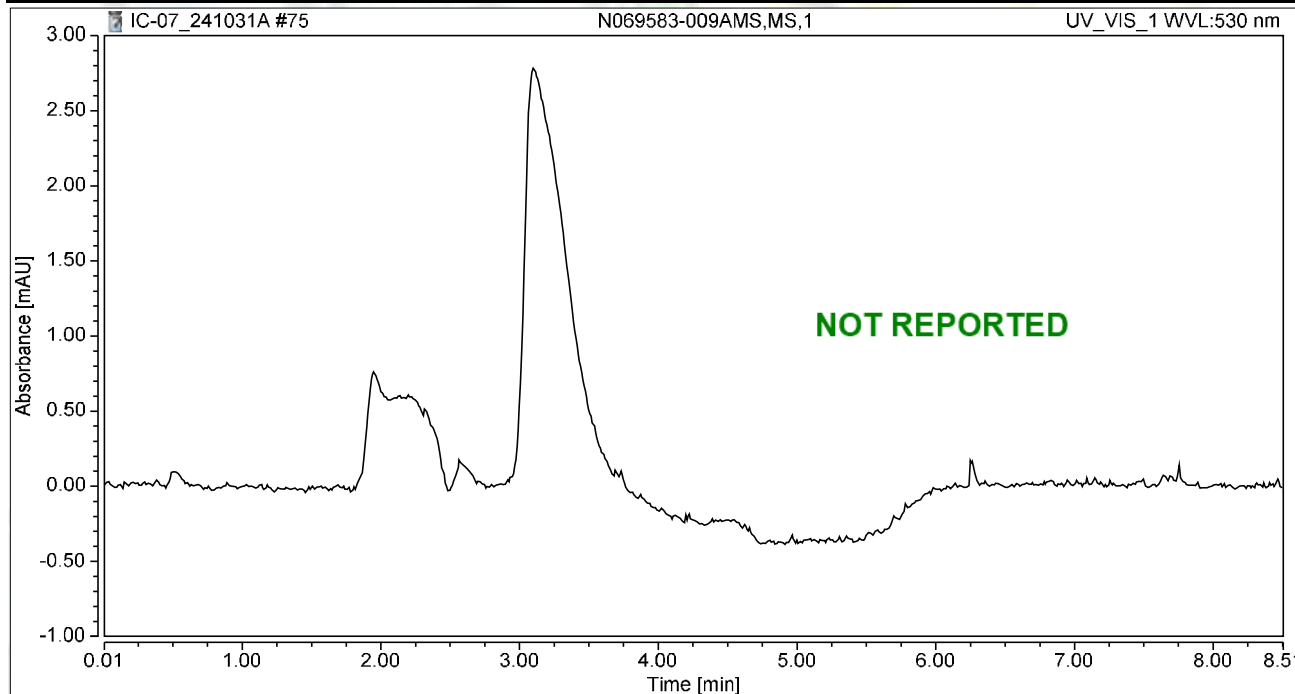
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-009AMS,MS,1	Run Time (min):	8.50
Vial Number:	34	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 21:19	Sample Weight:	1.0000

Chromatogram



Integration Results

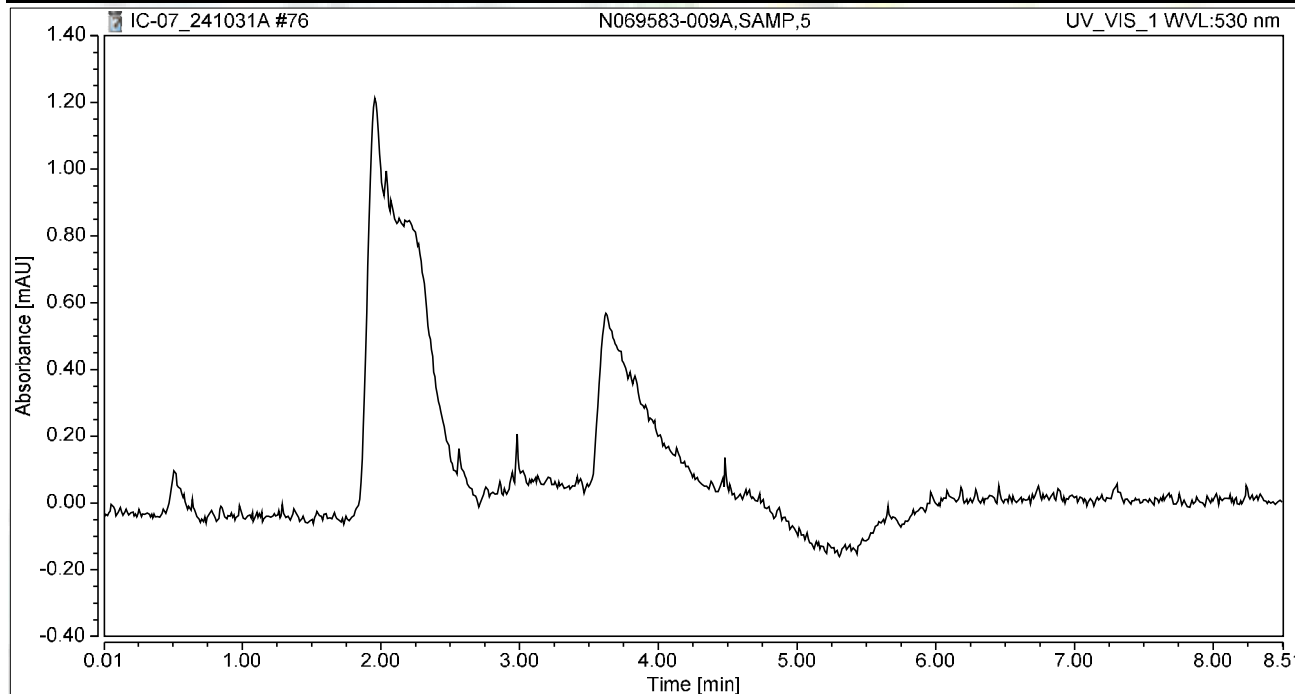
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-009A,SAMP,5	Run Time (min):	8.50
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 21:28	Sample Weight:	1.0000

Chromatogram



Integration Results

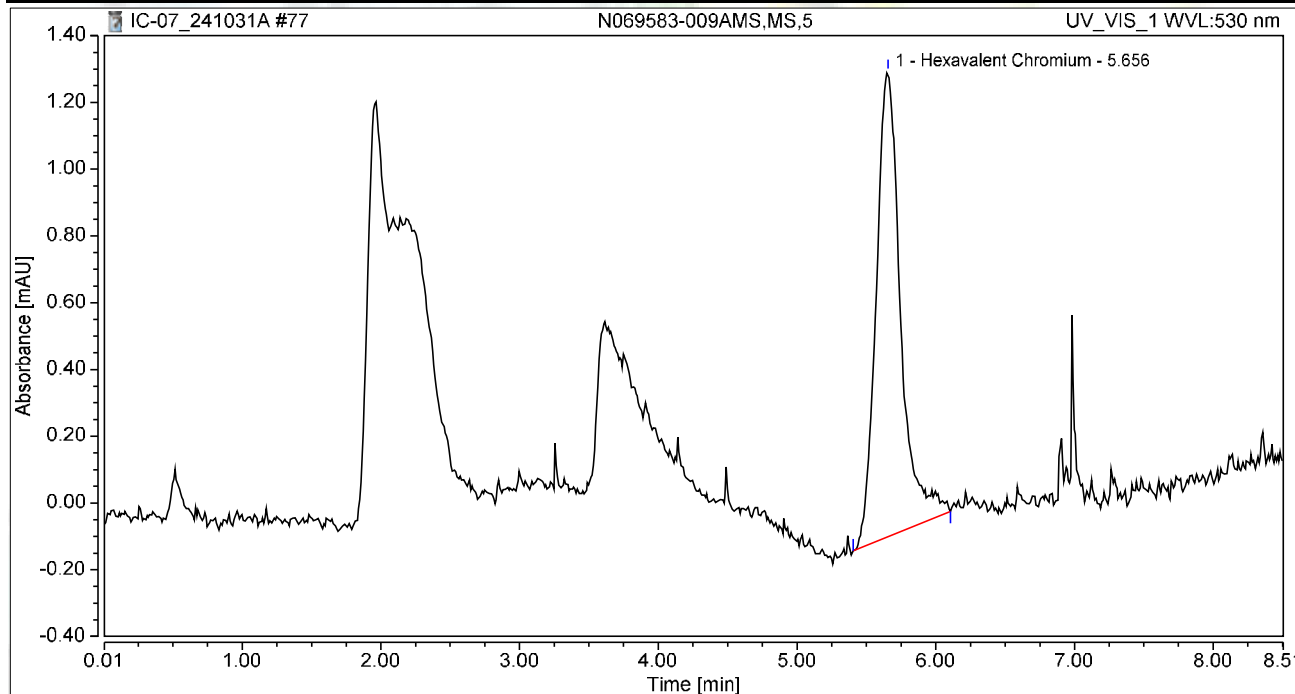
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-009AMS,MS,5	Run Time (min):	8.50
Vial Number:	36	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 21:38	Sample Weight:	1.0000

Chromatogram



Integration Results

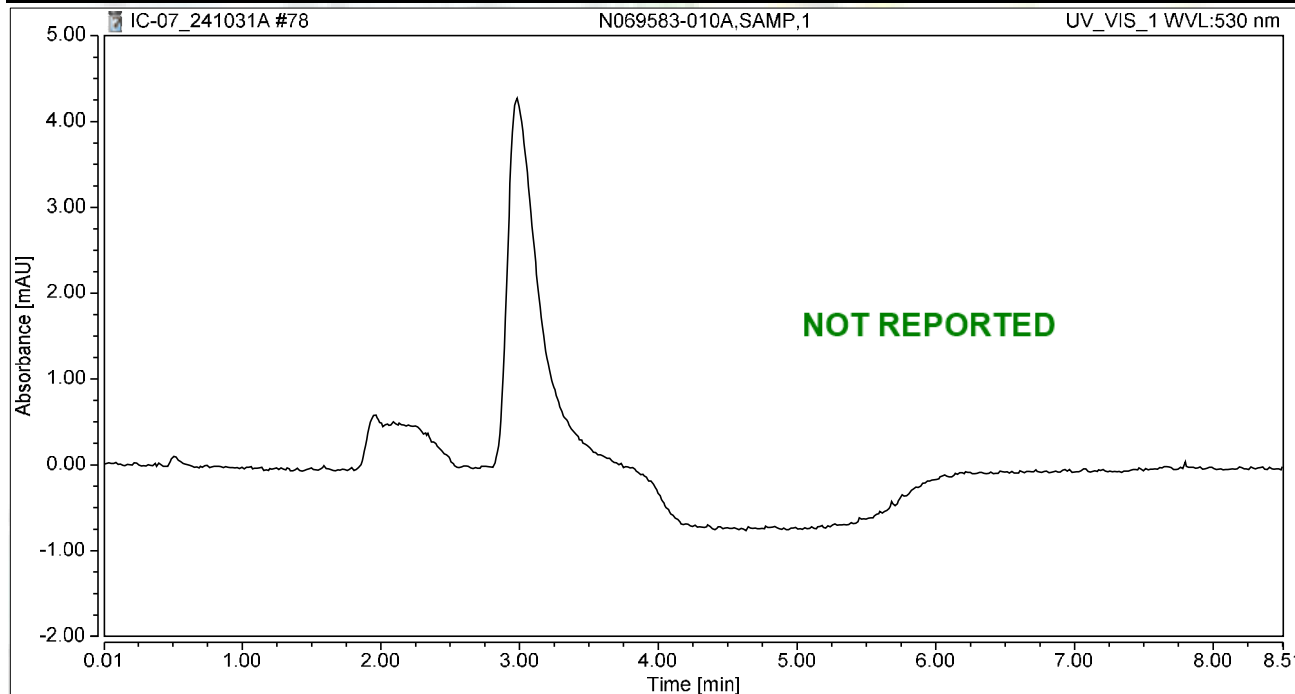
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.656	0.285	1.393	100.00	100.00	1.0053
Total:			0.285	1.393	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-010A,SAMP,1	Run Time (min):	8.50
Vial Number:	37	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 21:47	Sample Weight:	1.0000

Chromatogram



Integration Results

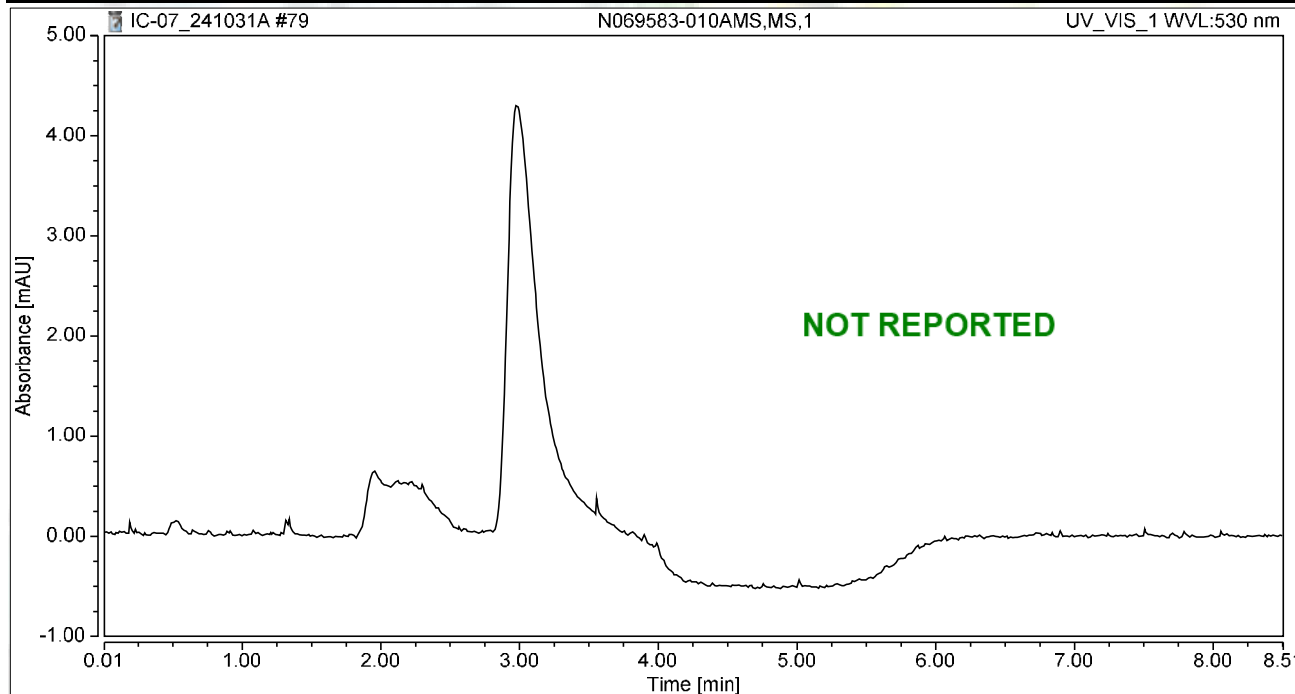
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-010AMS,MS,1	Run Time (min):	8.50
Vial Number:	38	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 21:56	Sample Weight:	1.0000

Chromatogram



Integration Results

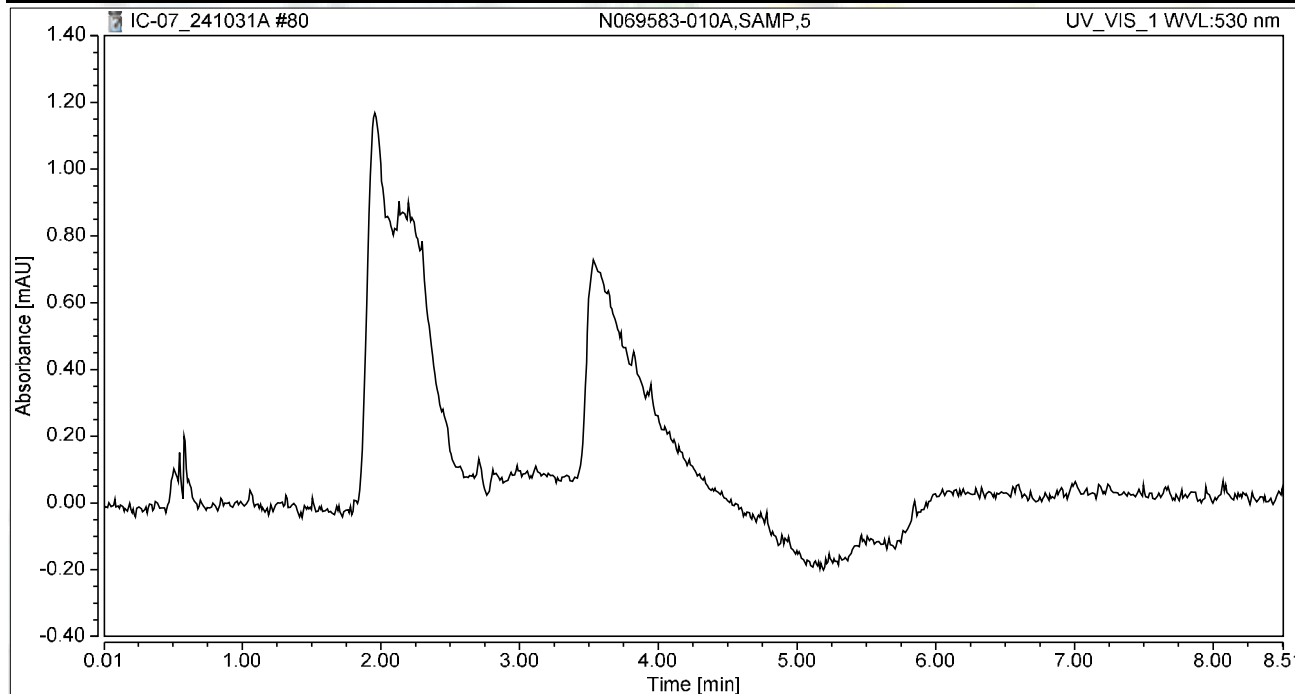
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-010A,SAMP,5	Run Time (min):	8.50
Vial Number:	39	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 22:06	Sample Weight:	1.0000

Chromatogram



Integration Results

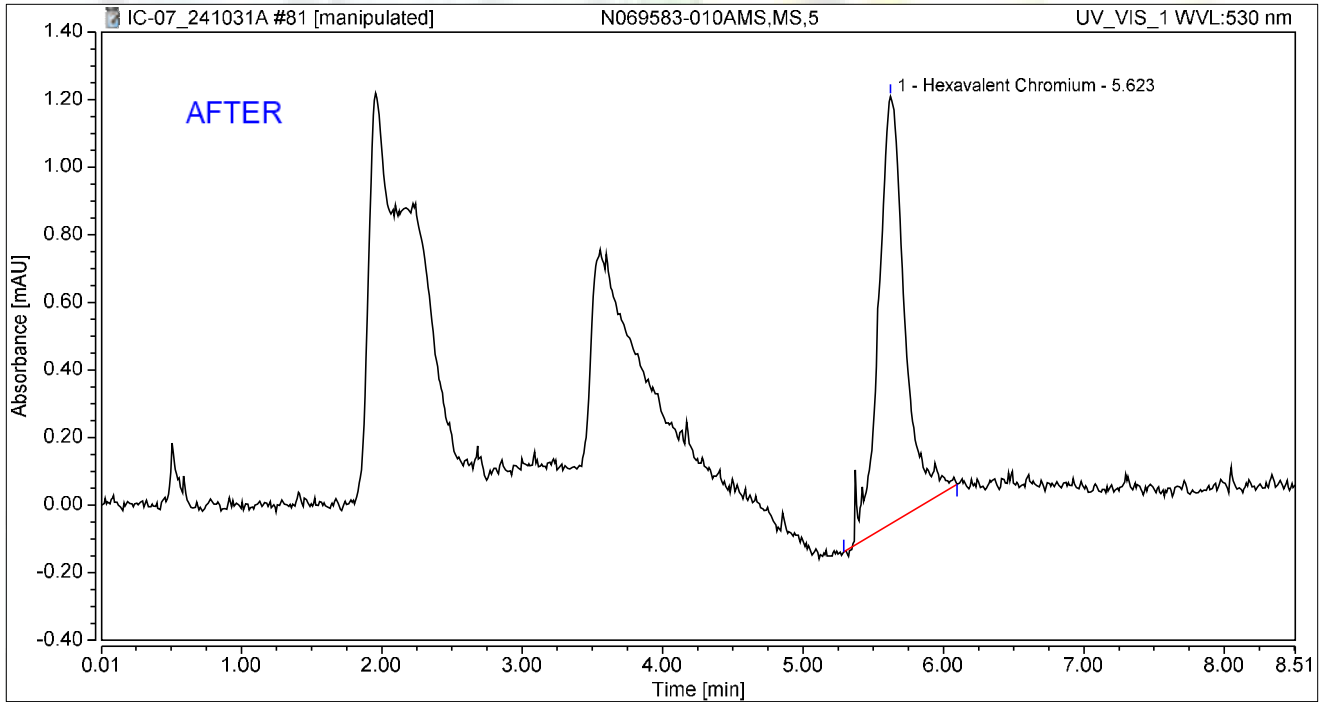
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-010AMS,MS,5	Run Time (min):	8.50
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 22:15	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.623	0.275	1.265	100.00	100.00	0.9680
Total:			0.275	1.265	100.00	100.00	

Reviewed by:

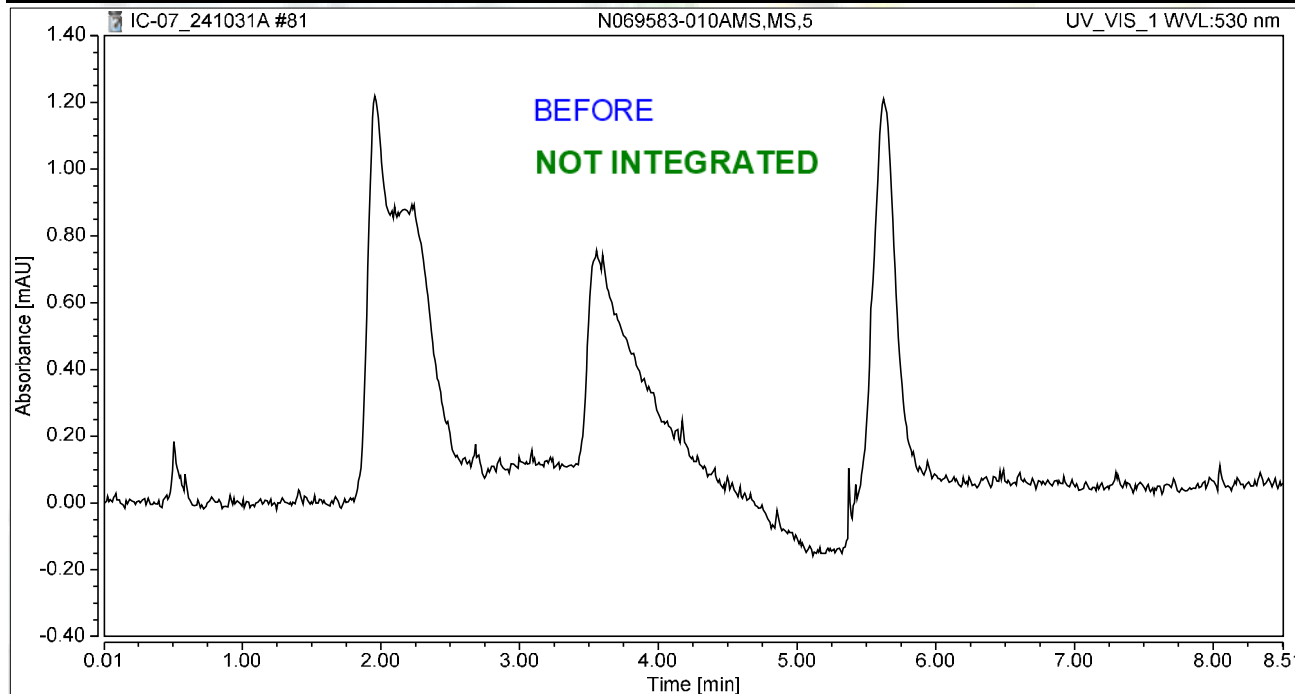
d/Recha 11/13/2024

Chromatogram and Results

Injection Details

Injection Name:	N069583-010AMS,MS,5	Run Time (min):	8.50
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 22:15	Sample Weight:	1.0000

Chromatogram



Integration Results

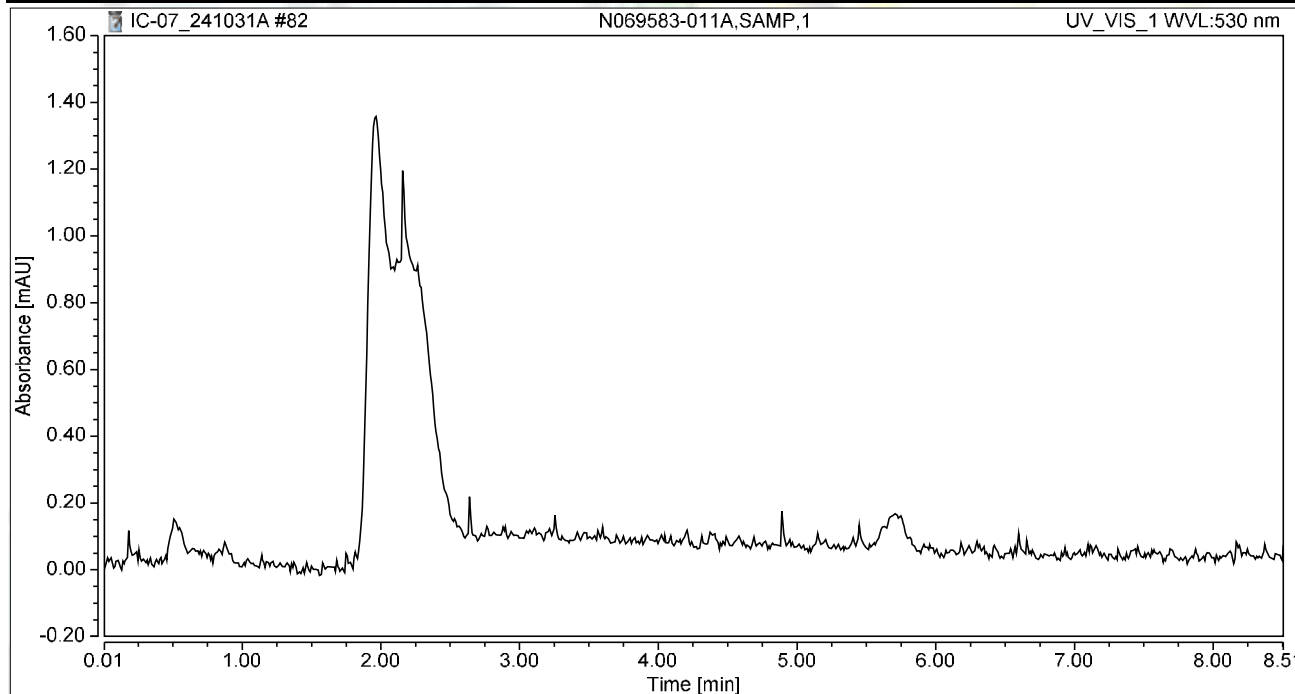
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-011A,SAMP,1	Run Time (min):	8.50
Vial Number:	41	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 22:25	Sample Weight:	1.0000

Chromatogram



Integration Results

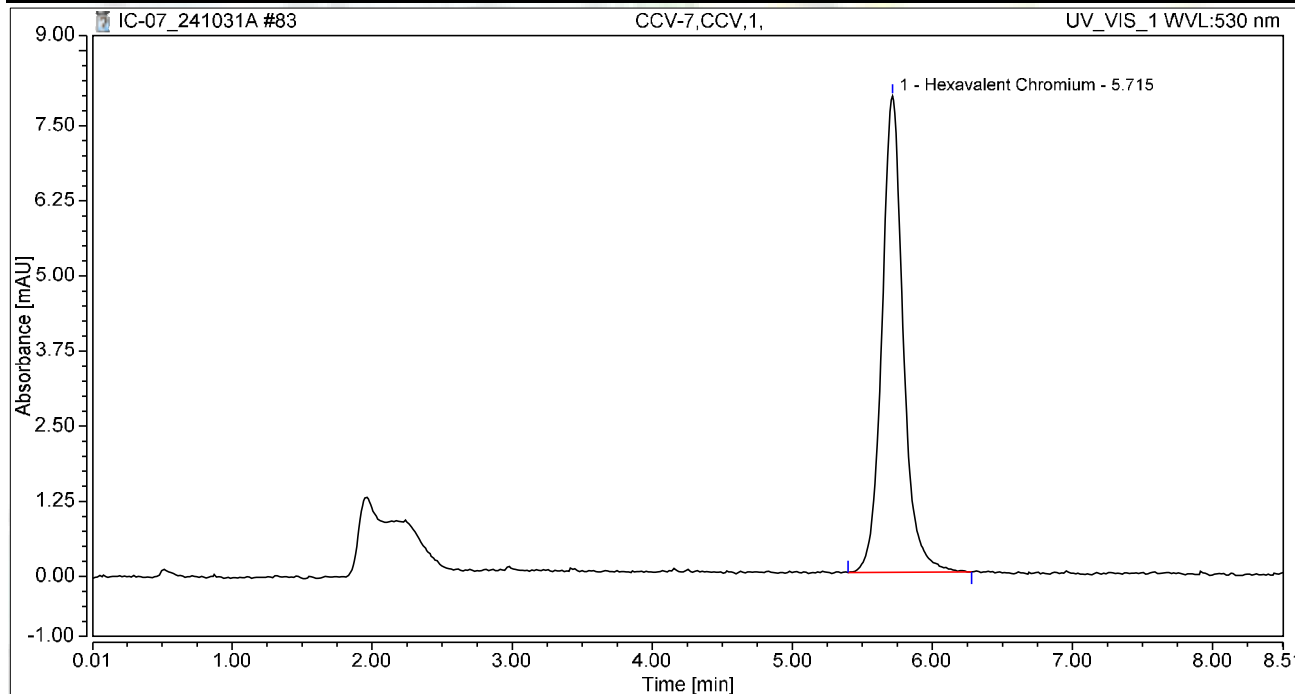
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-7,CCV,1,	Run Time (min):	8.50
Vial Number:	42	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 22:34	Sample Weight:	1.0000

Chromatogram



Integration Results

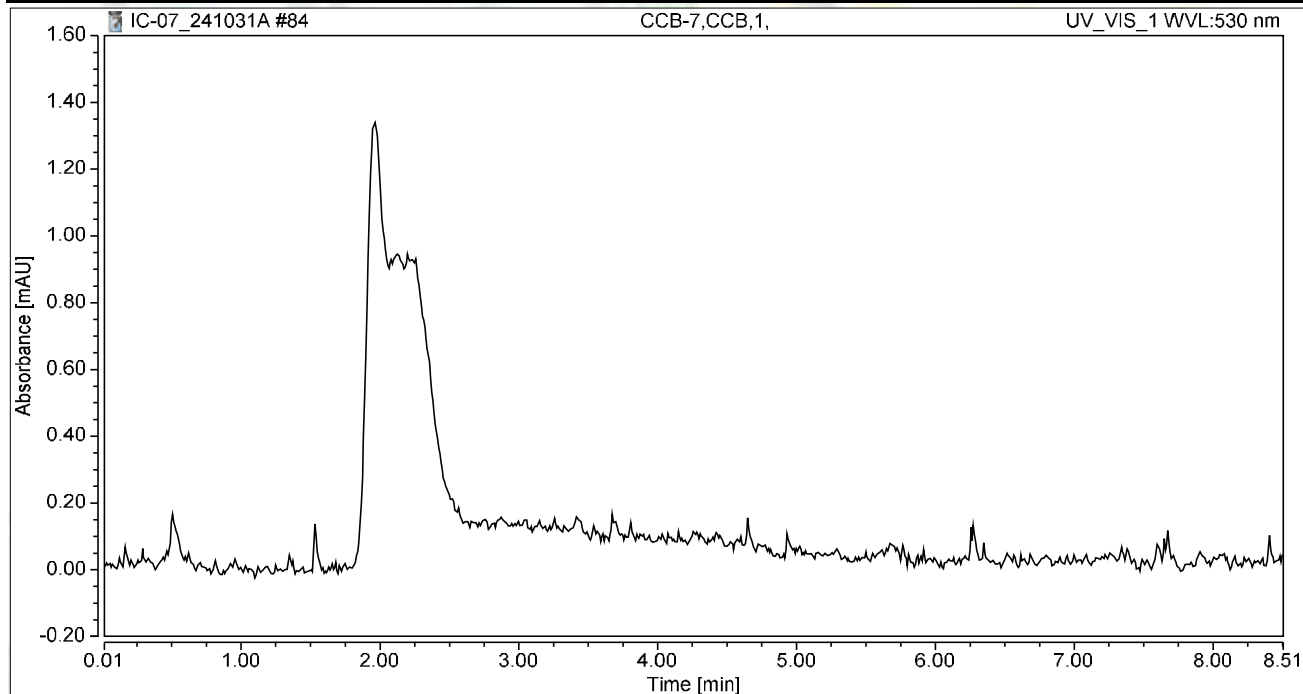
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	1.403	7.927	100.00	100.00	4.9432
Total:			1.403	7.927	100.00	100.00	

Chromatogram and Results

Injection Details

<i>Injection Name:</i>	CCB-7,CCB,1,	<i>Run Time (min):</i>	8.49
<i>Vial Number:</i>	43	<i>Injection Volume:</i>	1000.00
<i>Injection Type:</i>	Unknown	<i>Channel:</i>	UV_VIS_1
<i>Calibration Level:</i>		<i>Wavelength:</i>	530.0
<i>Instrument Method:</i>	Hex Chrom 4 mm	<i>Bandwidth:</i>	n.a.
<i>Processing Method:</i>	241028A_IC-07_Cr6_218_6_HIGH	<i>Dilution Factor:</i>	1.0000
<i>Injection Date/Time:</i>	31/Oct/24 22:44	<i>Sample Weight:</i>	1.0000

Chromatogram



Integration Results

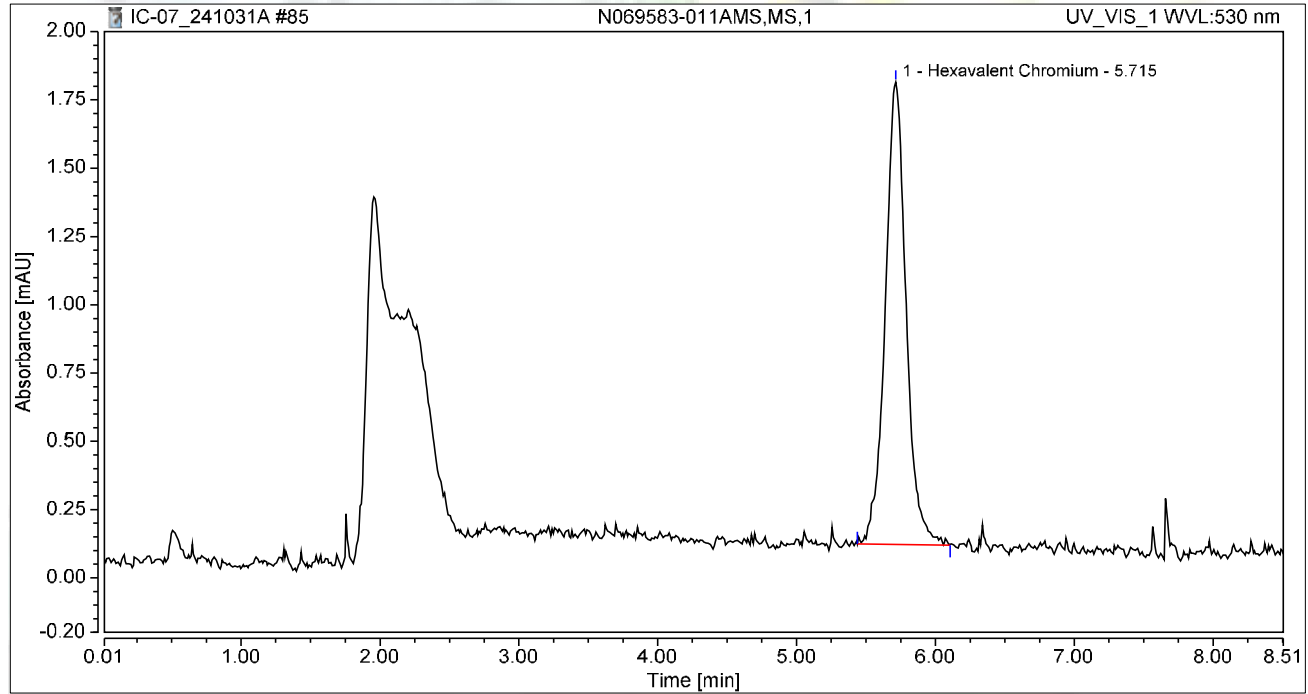
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-011AMS,MS,1	Run Time (min):	8.49
Vial Number:	44	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 22:53	Sample Weight:	1.0000

Chromatogram



Integration Results

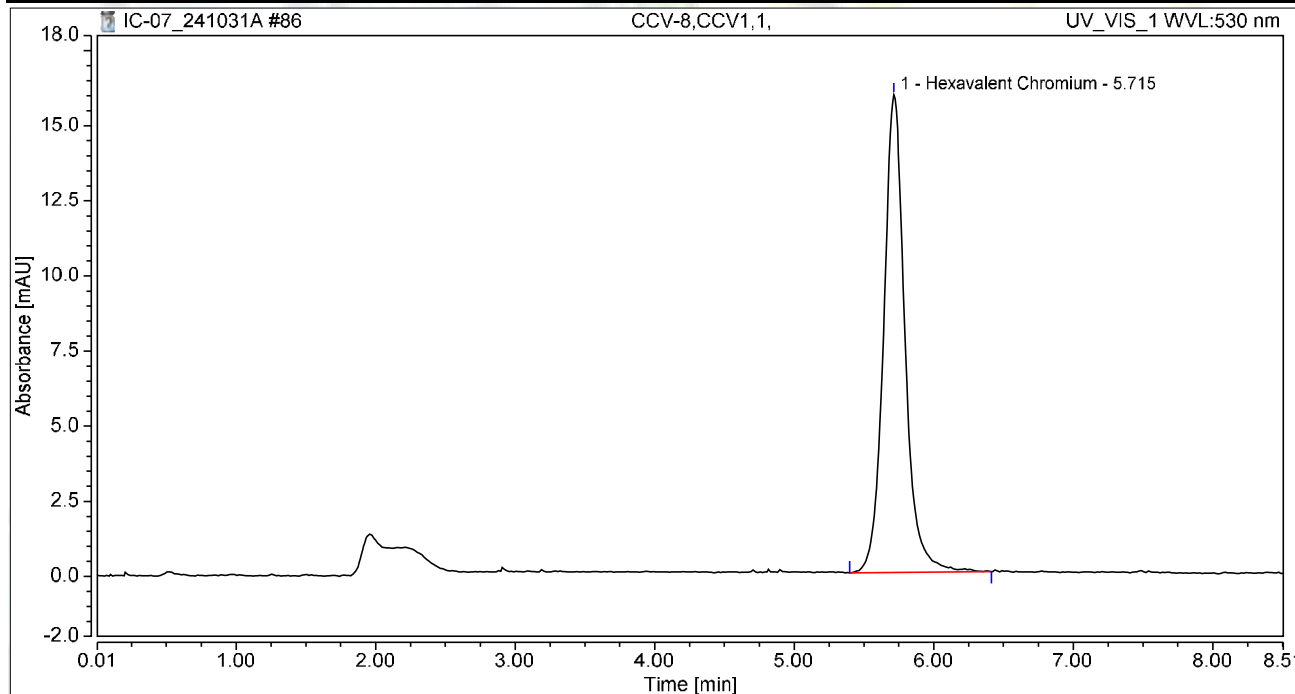
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.296	1.693	100.00	100.00	1.0434
Total:			0.296	1.693	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-8,CCV1,1,	Run Time (min):	8.50
Vial Number:	45	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 23:03	Sample Weight:	1.0000

Chromatogram



Integration Results

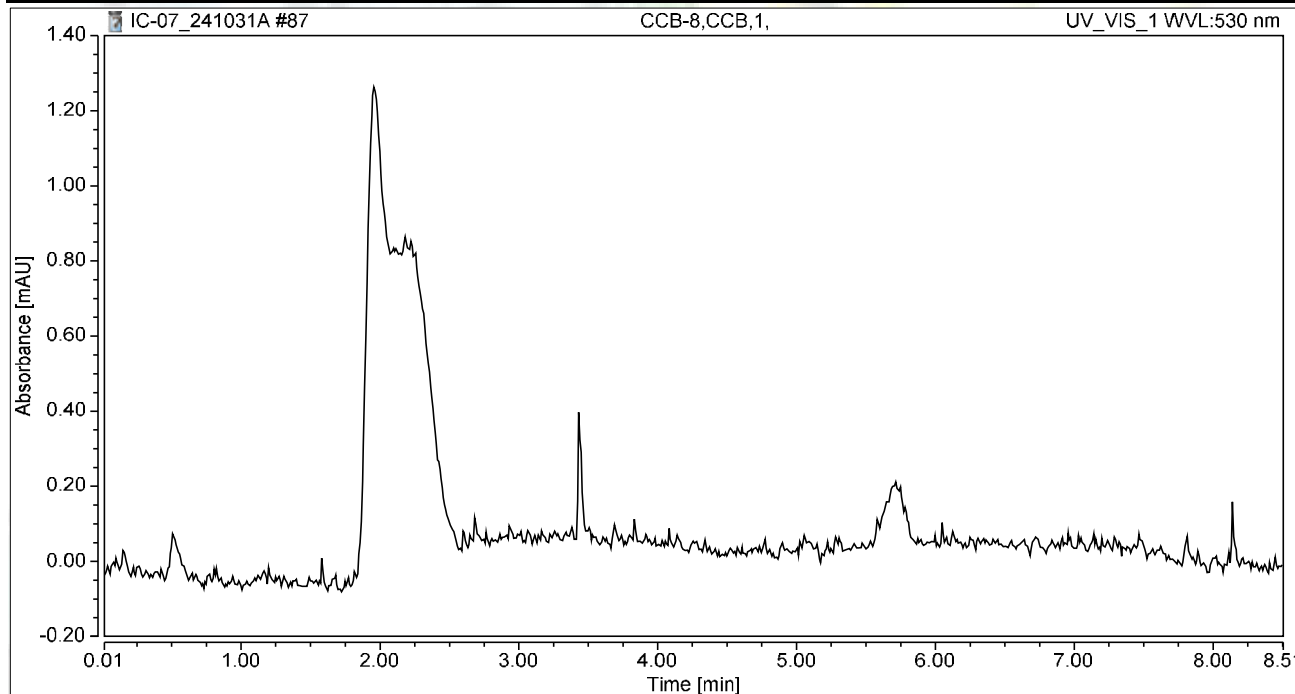
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.806	15.894	100.00	100.00	9.8907
Total:			2.806	15.894	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-8,CCB,1,	Run Time (min):	8.49
Vial Number:	46	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 23:12	Sample Weight:	1.0000

Chromatogram



Integration Results

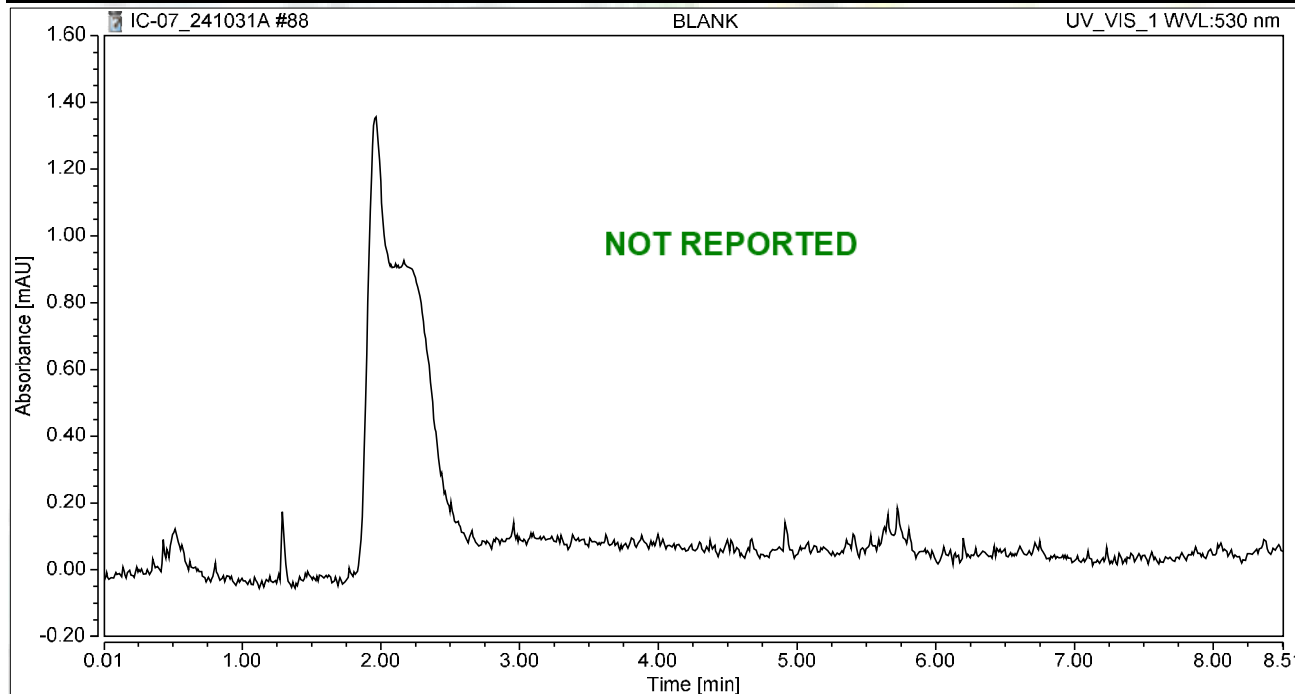
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	47	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 23:22	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

RAW DATA



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"Serving Clients with Passion and Professionalism"

INJECTION LOG: 241113A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	11/13/24 8:49 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	11/13/24 9:02 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	11/13/24 9:11 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	11/13/24 9:21 AM	Reported
13	MB-R195632	MBLK	1	Hexavalent Chromium	11/13/24 9:30 AM	Reported
14	LCS-R195632	LCS	1	Hexavalent Chromium	11/13/24 9:40 AM	Reported
15	N069927-001B	SAMP	5	Hexavalent Chromium	11/13/24 9:49 AM	Reported
16	N069927-002B	SAMP	10	Hexavalent Chromium	11/13/24 9:59 AM	Reported
17	N069927-004B	SAMP	5	Hexavalent Chromium	11/13/24 10:08 AM	Reported
18	N069927-005B	SAMP	5	Hexavalent Chromium	11/13/24 10:17 AM	Reported
19	N069927-006B	SAMP	2	Hexavalent Chromium	11/13/24 10:27 AM	Reported
20	N069927-003A	SAMP	1	Hexavalent Chromium	11/13/24 10:36 AM	Reported
21	N069927-001BREP	DUP	5	Hexavalent Chromium	11/13/24 10:46 AM	Reported
22	N069927-002BREP	DUP	10	Hexavalent Chromium	11/13/24 10:55 AM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	11/13/24 11:05 AM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	11/13/24 11:14 AM	Reported
25	N069927-004BREP	DUP	5	Hexavalent Chromium	11/13/24 11:24 AM	Reported
26	N069927-005BREP	DUP	5	Hexavalent Chromium	11/13/24 11:33 AM	Reported
27	N069927-006BREP	DUP	2	Hexavalent Chromium	11/13/24 11:43 AM	Reported
28	N069927-003AREP	DUP	1	Hexavalent Chromium	11/13/24 11:52 AM	Reported
29	N069927-001BMS	MS	5	Hexavalent Chromium	11/13/24 12:02 PM	Reported
30	N069927-002BMS	MS	10	Hexavalent Chromium	11/13/24 12:11 PM	Reported
31	N069927-002BMSD	MSD	10	Hexavalent Chromium	11/13/24 12:20 PM	Reported
32	N069927-004BMS	MS	5	Hexavalent Chromium	11/13/24 12:30 PM	Reported
33	N069927-005BMS	MS	5	Hexavalent Chromium	11/13/24 12:39 PM	Reported
34	N069927-006BMS	MS	2	Hexavalent Chromium	11/13/24 12:49 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	11/13/24 12:58 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	11/13/24 1:08 PM	Reported
37	N069927-003AMS	MS	1	Hexavalent Chromium	11/13/24 1:17 PM	Reported
38	N069891-006A	SAMP	1	Hexavalent Chromium	11/13/24 1:27 PM	Reported
39	N069891-006AMS	MS	1	Hexavalent Chromium	11/13/24 1:36 PM	Reported
40	N069891-009A	SAMP	1	Hexavalent Chromium	11/13/24 1:46 PM	Reported
41	N069891-009AMS	MS	1	Hexavalent Chromium	11/13/24 1:55 PM	Reported
42	N069891-016A	SAMP	5	Hexavalent Chromium	11/13/24 2:05 PM	Reported

Nancy 11/14/2024

INJECTION LOG: 241113A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069891-016AMS	MS	5	Hexavalent Chromium	11/13/24 2:14 PM	Reported
44	N069891-012A	SAMP	1	Hexavalent Chromium	11/13/24 2:23 PM	Reported
45	N069891-012AMS	MS	1	Hexavalent Chromium	11/13/24 2:33 PM	Reported
46	N069891-014A	SAMP	1	Hexavalent Chromium	11/13/24 2:42 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	11/13/24 2:52 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	11/13/24 3:01 PM	Reported
49	N069891-014AMS	MS	1	Hexavalent Chromium	11/13/24 3:11 PM	Reported
50	N069543-003A	SAMP	5	Hexavalent Chromium	11/13/24 3:36 PM	Reported
51	N069543-003AMS	MS	5	Hexavalent Chromium	11/13/24 3:48 PM	Reported
52	N069891-012A	SAMP	5	Hexavalent Chromium	11/13/24 3:58 PM	Not Reported
53	N069891-012AMS	MS	5	Hexavalent Chromium	11/13/24 4:07 PM	Not Reported
54	N069891-014A	SAMP	5	Hexavalent Chromium	11/13/24 4:16 PM	Not Reported
55	N069891-014AMS	MS	5	Hexavalent Chromium	11/13/24 4:26 PM	Not Reported
56	N069891-015A	SAMP	5	Hexavalent Chromium	11/13/24 4:35 PM	Reported
57	N069891-015AMS	MS	5	Hexavalent Chromium	11/13/24 4:45 PM	Reported
58	N069891-013A	SAMP	1	Hexavalent Chromium	11/13/24 4:54 PM	Reported
59	CCV-5	CCV	1	Hexavalent Chromium	11/13/24 5:04 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	11/13/24 5:13 PM	Reported
61	N069891-013AMS	MS	1	Hexavalent Chromium	11/13/24 5:23 PM	Reported
62	N069891-017A	SAMP	1	Hexavalent Chromium	11/13/24 5:32 PM	Reported
63	N069891-017AMS	MS	1	Hexavalent Chromium	11/13/24 5:42 PM	Reported
64	N069889-001A	SAMP	1	Hexavalent Chromium	11/13/24 5:51 PM	Not Reported
65	N069889-001AMS	MS	1	Hexavalent Chromium	11/13/24 6:01 PM	Not Reported
66	N069889-002A	SAMP	1	Hexavalent Chromium	11/13/24 6:10 PM	Not Reported
67	N069889-002AMS	MS	1	Hexavalent Chromium	11/13/24 6:19 PM	Not Reported
68	N069889-003A	SAMP	1	Hexavalent Chromium	11/13/24 6:29 PM	Not Reported
69	N069889-003AMS	MS	1	Hexavalent Chromium	11/13/24 6:38 PM	Not Reported
70	N069923-001A	SAMP	1	Hexavalent Chromium	11/13/24 6:48 PM	Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	11/13/24 6:57 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	11/13/24 7:07 PM	Reported
73	N069923-001AMS	MS	1	Hexavalent Chromium	11/13/24 7:16 PM	Not Reported
74	N069923-002A	SAMP	1	Hexavalent Chromium	11/13/24 7:26 PM	Not Reported
75	N069923-002AMS	MS	1	Hexavalent Chromium	11/13/24 7:35 PM	Not Reported
76	N069923-003A	SAMP	1	Hexavalent Chromium	11/13/24 7:45 PM	Not Reported
77	N069923-003AMS	MS	1	Hexavalent Chromium	11/13/24 7:54 PM	Not Reported
78	N069889-001A	SAMP	5	Hexavalent Chromium	11/13/24 8:04 PM	Reported
79	N069889-001AMS	MS	5	Hexavalent Chromium	11/13/24 8:13 PM	Reported
80	N069889-002A	SAMP	5	Hexavalent Chromium	11/13/24 8:22 PM	Reported
81	N069889-002AMS	MS	5	Hexavalent Chromium	11/13/24 8:32 PM	Reported
82	CCV-7	CCV	1	Hexavalent Chromium	11/13/24 8:41 PM	Reported
83	CCB-7	CCB	1	Hexavalent Chromium	11/13/24 8:51 PM	Reported
84	N069889-003A	SAMP	5	Hexavalent Chromium	11/13/24 9:00 PM	Reported

INJECTION LOG: 241113A**Instrument ID: NV00922-IC7**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N069889-003AMS	MS	5	Hexavalent Chromium	11/13/24 9:10 PM	Reported
86	N069923-001A	SAMP	5	Hexavalent Chromium	11/13/24 9:19 PM	Reported
87	N069923-001AMS	MS	5	Hexavalent Chromium	11/13/24 9:29 PM	Reported
88	N069923-002A	SAMP	5	Hexavalent Chromium	11/13/24 9:38 PM	Reported
89	N069923-002AMS	MS	5	Hexavalent Chromium	11/13/24 9:48 PM	Reported
90	N069923-003A	SAMP	5	Hexavalent Chromium	11/13/24 9:57 PM	Not Reported
91	N069923-003AMS	MS	5	Hexavalent Chromium	11/13/24 10:07 PM	Not Reported
92	N069891-015A	SAMP	1	Hexavalent Chromium	11/13/24 10:16 PM	Not Reported
93	N069891-015AMS	MS	1	Hexavalent Chromium	11/13/24 10:25 PM	Not Reported
94	CCV-8	CCV1	1	Hexavalent Chromium	11/13/24 10:35 PM	Reported
95	CCB-8	CCB	1	Hexavalent Chromium	11/13/24 10:44 PM	Reported
96	BLANK	BLANK	1	Hexavalent Chromium	11/13/24 10:54 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241113A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	13/Nov/24 23:24:37
No. of Injections:	99	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume μ L	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	BLANK	1	1000	Unknown		11/13/2024 08:49	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		11/13/2024 09:02	Finished	CCV @5ppb, IWST-240729A
11	PQL@0.2ppb,CCV2,	3	1000	Unknown		11/13/2024 09:11	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		11/13/2024 09:21	Finished	CCB R241001A
13	MB-H2O,MBLK,1,	5	1000	Unknown		11/13/2024 09:30	Finished	MB R241001A
14	LCS-H2O,LCS,1,	6	1000	Unknown		11/13/2024 09:40	Finished	LCS @5ppb, IWST-240729B
15	N069927-001B,SAMP	7	1000	Unknown		11/13/2024 09:49	Finished	SAMP,2>10 mL
16	N069927-002B,SAMP	8	1000	Unknown		11/13/2024 09:59	Finished	SAMP,1>10 mL
17	N069927-004B,SAMP	9	1000	Unknown		11/13/2024 10:08	Finished	SAMP,2>10 mL
18	N069927-005B,SAMP	10	1000	Unknown		11/13/2024 10:17	Finished	SAMP,2>10 mL
19	N069927-006B,SAMP	11	1000	Unknown		11/13/2024 10:27	Finished	SAMP,5>10 mL
20	N069927-003A,SAMP	12	1000	Unknown		11/13/2024 10:36	Finished	SAMP,10 mL
21	N069927-001BREP,D	13	1000	Unknown		11/13/2024 10:46	Finished	REP,2>10 mL
22	N069927-002BREP,D	14	1000	Unknown		11/13/2024 10:55	Finished	REP,1>10 mL
23	CCV-2,CCV1,1,	15	1000	Unknown		11/13/2024 11:05	Finished	CCV @10ppb, IWST-240729A
24	CCB-2,CCB,1,	16	1000	Unknown		11/13/2024 11:14	Finished	CCB R241001A
25	N069927-004BREP,D	17	1000	Unknown		11/13/2024 11:24	Finished	REP,2>10 mL
26	N069927-005BREP,D	18	1000	Unknown		11/13/2024 11:33	Finished	REP,2>10 mL
27	N069927-006BREP,D	19	1000	Unknown		11/13/2024 11:43	Finished	REP,5>10 mL
28	N069927-003AREP,D	20	1000	Unknown		11/13/2024 11:52	Finished	REP,10 mL
29	N069927-001BMS,M	21	1000	Unknown		11/13/2024 12:02	Finished	MS (5ppb), IWST-240729B,2>
30	N069927-002BMS,M	22	1000	Unknown		11/13/2024 12:11	Finished	MS (5ppb), IWST-240729B,1>
31	N069927-002BMSD,N	23	1000	Unknown		11/13/2024 12:20	Finished	MSD (5ppb), IWST-240729B,1>
32	N069927-004BMS,M	24	1000	Unknown		11/13/2024 12:30	Finished	MS (5ppb), IWST-240729B,2>
33	N069927-005BMS,M	25	1000	Unknown		11/13/2024 12:39	Finished	MS (5ppb), IWST-240729B,2>
34	N069927-006BMS,M	26	1000	Unknown		11/13/2024 12:49	Finished	MS (5ppb), IWST-240729B,5>
35	CCV-3,CCV,1,	27	1000	Unknown		11/13/2024 12:58	Finished	CCV @5ppb, IWST-240729A
36	CCB-3,CCB,1,	28	1000	Unknown		11/13/2024 13:08	Finished	CCB R241001A
37	N069927-003AMS,M	29	1000	Unknown		11/13/2024 13:17	Finished	MS (1ppb), IWST-240729B,10r
38	N069891-006A,SAMP	30	1000	Unknown		11/13/2024 13:27	Finished	SAMP,10 mL
39	N069891-006AMS,M	31	1000	Unknown		11/13/2024 13:36	Finished	MS (1ppb), IWST-240729B,10r
40	N069891-009A,SAMP	32	1000	Unknown		11/13/2024 13:46	Finished	SAMP,10 mL
41	N069891-009AMS,M	33	1000	Unknown		11/13/2024 13:55	Finished	MS (1ppb), IWST-240729B,10r
42	N069891-016A,SAMP	34	1000	Unknown		11/13/2024 14:05	Finished	SAMP,2>10 mL
43	N069891-016AMS,M	35	1000	Unknown		11/13/2024 14:14	Finished	MS (5ppb), IWST-240729B,2>
44	N069891-012A,SAMP	36	1000	Unknown		11/13/2024 14:23	Finished	SAMP,10 mL
45	N069891-012AMS,M	37	1000	Unknown		11/13/2024 14:33	Finished	MS (1ppb), IWST-240729B,10r
46	N069891-014A,SAMP	38	1000	Unknown		11/13/2024 14:42	Finished	SAMP,10 mL
47	CCV-4,CCV1,1,	39	1000	Unknown		11/13/2024 14:52	Finished	CCV @10ppb, IWST-240729A
48	CCB-4,CCB,1,	40	1000	Unknown		11/13/2024 15:01	Finished	CCB R241001A
49	N069891-014AMS,M	41	1000	Unknown		11/13/2024 15:11	Finished	MS (1ppb), IWST-240729B,10r
50	N069543-003A,SAMP	1	1000	Unknown		11/13/2024 15:36	Finished	SAMP,2>10 mL
51	N069543-003AMS,M	2	1000	Unknown		11/13/2024 15:48	Finished	MS (1ppb), IWST-240729B,2>
52	N069891-012A,SAMP	3	1000	Unknown		11/13/2024 15:58	Finished	SAMP,2>10 mL
53	N069891-012AMS,M	4	1000	Unknown		11/13/2024 16:07	Finished	MS (1ppb), IWST-240729B,2>
54	N069891-014A,SAMP	5	1000	Unknown		11/13/2024 16:16	Finished	SAMP,2>10 mL
55	N069891-014AMS,M	6	1000	Unknown		11/13/2024 16:26	Finished	MS (1ppb), IWST-240729B,2>
56	N069891-015A,SAMP	7	1000	Unknown		11/13/2024 16:35	Finished	SAMP,2>10 mL
57	N069891-015AMS,M	8	1000	Unknown		11/13/2024 16:45	Finished	MS (1ppb), IWST-240729B,2>
58	N069891-013A,SAMP	9	1000	Unknown		11/13/2024 16:54	Finished	SAMP,10 mL
59	CCV-5,CCV,1,	10	1000	Unknown		11/13/2024 17:04	Finished	CCV @5ppb, IWST-240729A
60	CCB-5,CCB,1,	11	1000	Unknown		11/13/2024 17:13	Finished	CCB R241001A

61	N069891-013AMS.M\$	12	1000	Unknown	11/13/2024 17:23	Finished	MS (1ppb), IWST-240729B,10r
62	N069891-017A,SAMF	13	1000	Unknown	11/13/2024 17:32	Finished	SAMP,10 mL
63	N069891-017AMS.M\$	14	1000	Unknown	11/13/2024 17:42	Finished	MS (1ppb), IWST-240729B,10r
64	N069889-001A,SAMF	15	1000	Unknown	11/13/2024 17:51	Finished	SAMP,10 mL
65	N069889-001AMS.M\$	16	1000	Unknown	11/13/2024 18:01	Finished	MS (1ppb), IWST-240729B,10r
66	N069889-002A,SAMF	17	1000	Unknown	11/13/2024 18:10	Finished	SAMP,10 mL
67	N069889-002AMS.M\$	18	1000	Unknown	11/13/2024 18:19	Finished	MS (1ppb), IWST-240729B,10r
68	N069889-003A,SAMF	19	1000	Unknown	11/13/2024 18:29	Finished	SAMP,10 mL
69	N069889-003AMS.M\$	20	1000	Unknown	11/13/2024 18:38	Finished	MS (1ppb), IWST-240729B,10r
70	N069923-001A,SAMF	21	1000	Unknown	11/13/2024 18:48	Finished	SAMP,10 mL
71	CCV-6,CCV1,1,	22	1000	Unknown	11/13/2024 18:57	Finished	CCV @10ppb, IWST-240729A
72	CCB-6,CCB,1,	23	1000	Unknown	11/13/2024 19:07	Finished	CCB R241001A
73	N069923-001AMS.M\$	24	1000	Unknown	11/13/2024 19:16	Finished	MS (1ppb), IWST-240729B,10r
74	N069923-002A,SAMF	25	1000	Unknown	11/13/2024 19:26	Finished	SAMP,10 mL
75	N069923-002AMS.M\$	26	1000	Unknown	11/13/2024 19:35	Finished	MS (1ppb), IWST-240729B,10r
76	N069923-003A,SAMF	27	1000	Unknown	11/13/2024 19:45	Finished	SAMP,10 mL
77	N069923-003AMS.M\$	28	1000	Unknown	11/13/2024 19:54	Finished	MS (1ppb), IWST-240729B,10r
78	N069889-001A,SAMF	29	1000	Unknown	11/13/2024 20:04	Finished	SAMP,2>10 mL
79	N069889-001AMS.M\$	30	1000	Unknown	11/13/2024 20:13	Finished	MS (1ppb), IWST-240729B,2>
80	N069889-002A,SAMF	31	1000	Unknown	11/13/2024 20:22	Finished	SAMP,2>10 mL
81	N069889-002AMS.M\$	32	1000	Unknown	11/13/2024 20:32	Finished	MS (1ppb), IWST-240729B,2>
82	CCV-7,CCV,1,	33	1000	Unknown	11/13/2024 20:41	Finished	CCV @5ppb, IWST-240729A
83	CCB-7,CCB,1,	34	1000	Unknown	11/13/2024 20:51	Finished	CCB R241001A
84	N069889-003A,SAMF	35	1000	Unknown	11/13/2024 21:00	Finished	SAMP,2>10 mL
85	N069889-003AMS.M\$	36	1000	Unknown	11/13/2024 21:10	Finished	MS (1ppb), IWST-240729B,2>
86	N069923-001A,SAMF	37	1000	Unknown	11/13/2024 21:19	Finished	SAMP,2>10 mL
87	N069923-001AMS.M\$	38	1000	Unknown	11/13/2024 21:29	Finished	MS (1ppb), IWST-240729B,2>
88	N069923-002A,SAMF	39	1000	Unknown	11/13/2024 21:38	Finished	SAMP,2>10 mL
89	N069923-002AMS.M\$	40	1000	Unknown	11/13/2024 21:48	Finished	MS (1ppb), IWST-240729B,2>
90	N069923-003A,SAMF	41	1000	Unknown	11/13/2024 21:57	Finished	SAMP,2>10 mL
91	N069923-003AMS.M\$	42	1000	Unknown	11/13/2024 22:07	Finished	MS (1ppb), IWST-240729B,2>
92	N069891-015A,SAMF	43	1000	Unknown	11/13/2024 22:16	Finished	SAMP,10 mL
93	N069891-015AMS.M\$	44	1000	Unknown	11/13/2024 22:25	Finished	MS (1ppb), IWST-240729B,10r
94	CCV-8,CCV1,1,	45	1000	Unknown	11/13/2024 22:35	Finished	CCV @10ppb, IWST-240729A
95	CCB-8,CCB,1,	46	1000	Unknown	11/13/2024 22:44	Finished	CCB R241001A
96	BLANK	47	1000	Unknown	11/13/2024 22:54	Finished	BLANK
97	SHUTDOWN	48	1000	Unknown	11/13/2024 23:03	Finished	
98	Eluent: R241111A	49	1000	Unknown	n.a.	Finished	
99	PCR: R241111B	50	1000	Unknown	n.a.	Finished	

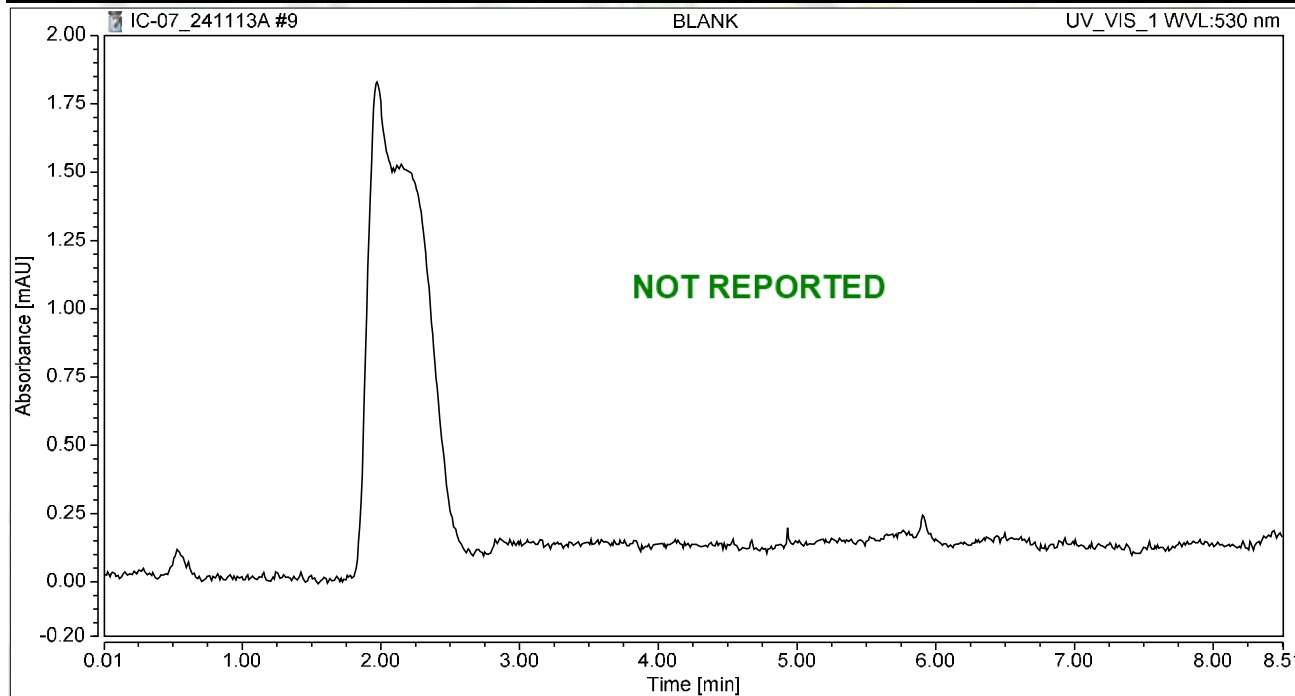


Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 08:49	Sample Weight:	1.0000

Chromatogram



Integration Results

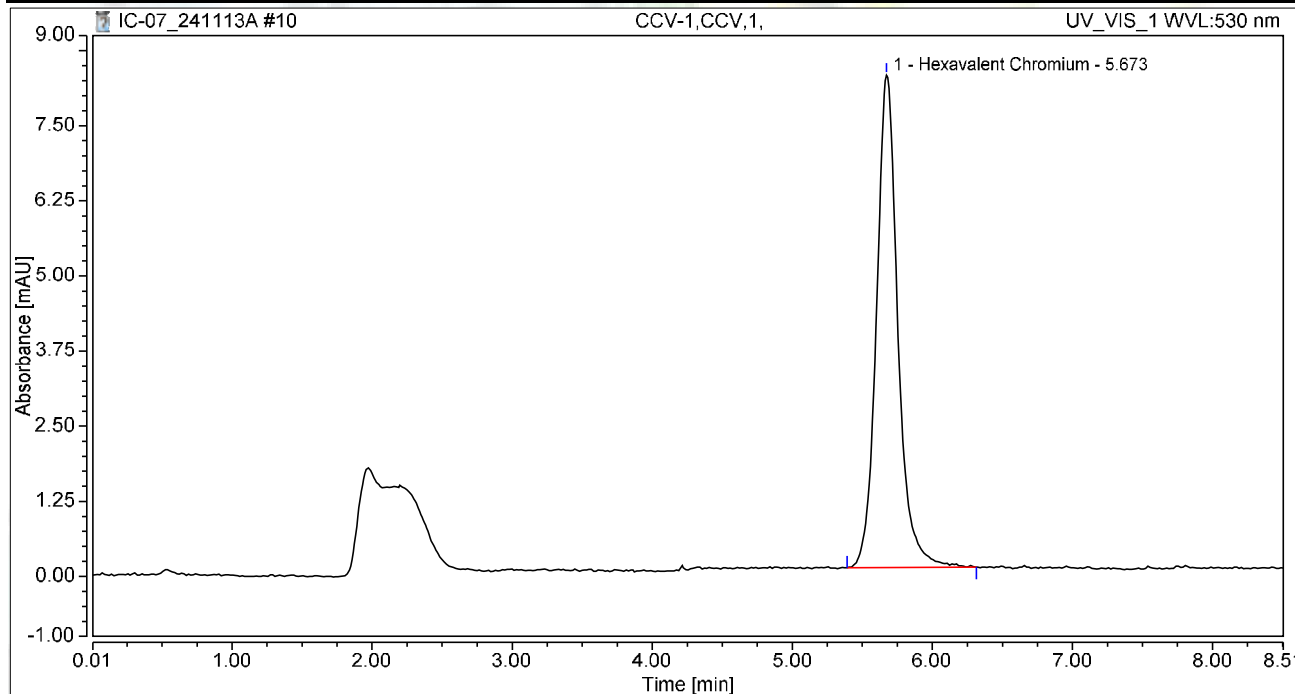
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-1,CCV,1,	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 09:02	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	1.451	8.195	100.00	100.00	5.1147
Total:			1.451	8.195	100.00	100.00	

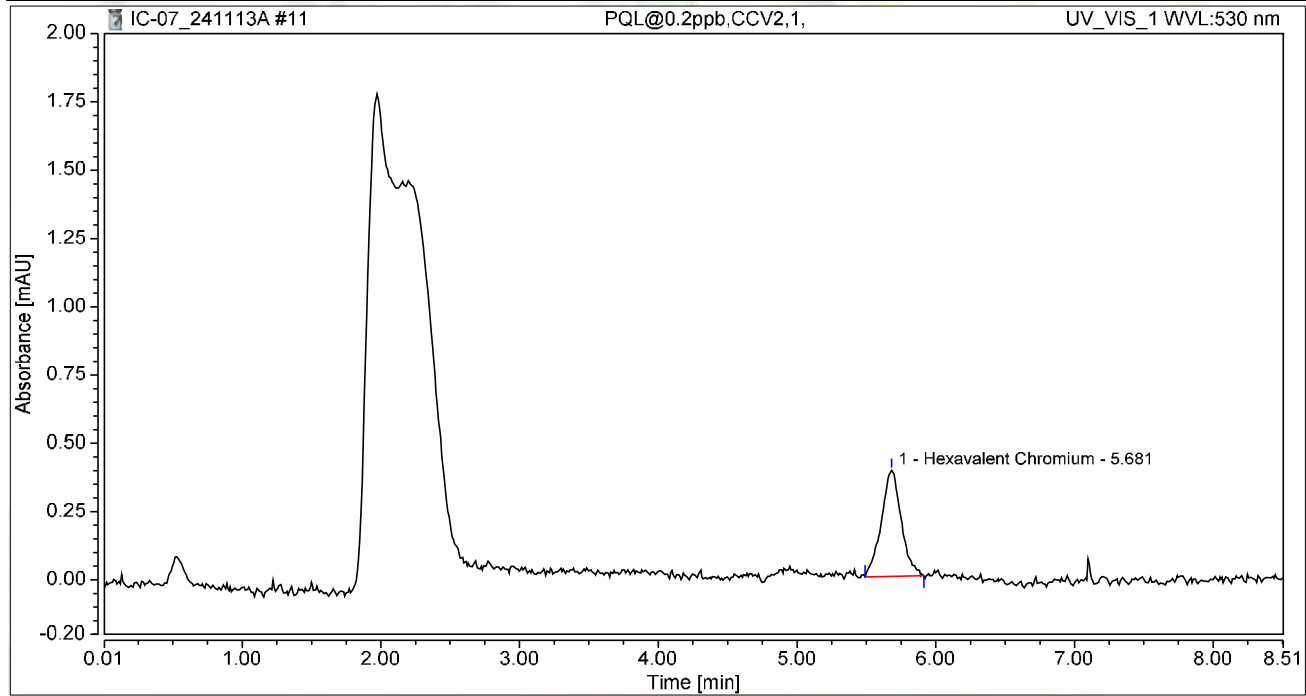
Murray 11/14/2024

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 09:11	Sample Weight:	1.0000

Chromatogram



Integration Results

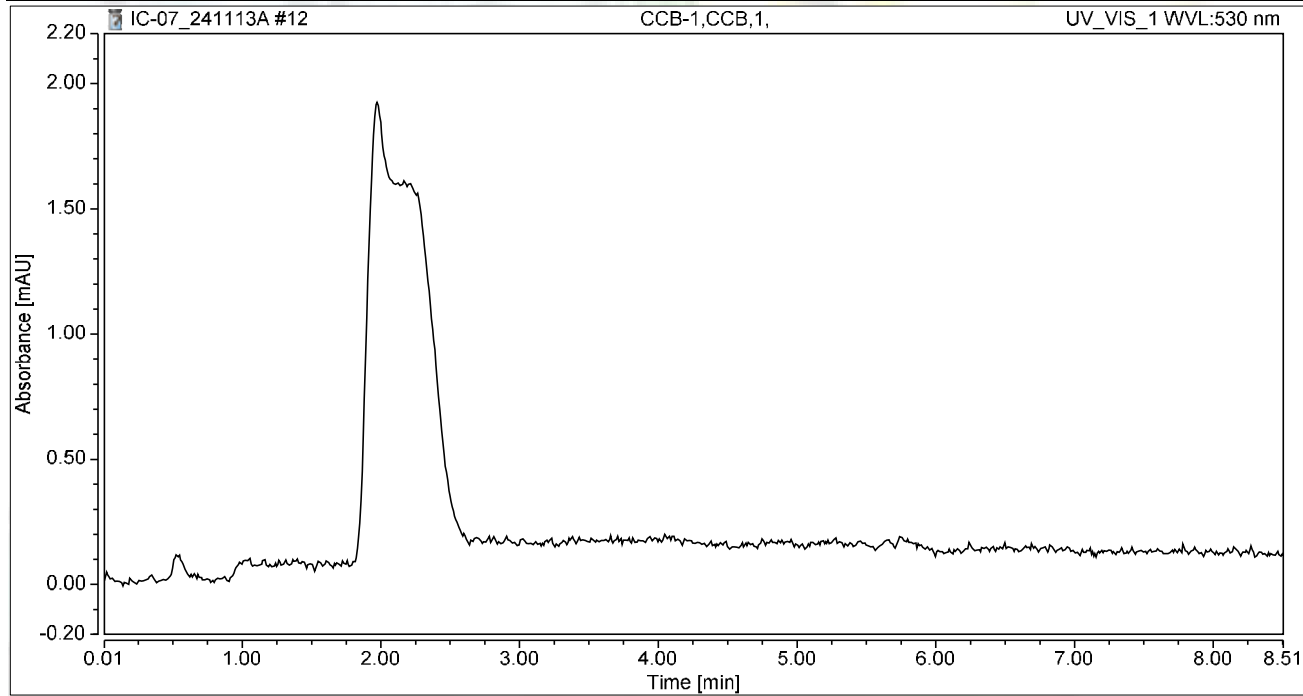
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.064	0.388	100.00	100.00	0.2271
Total:			0.064	0.388	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-1,CCB,1,	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 09:21	Sample Weight:	1.0000

Chromatogram



Integration Results

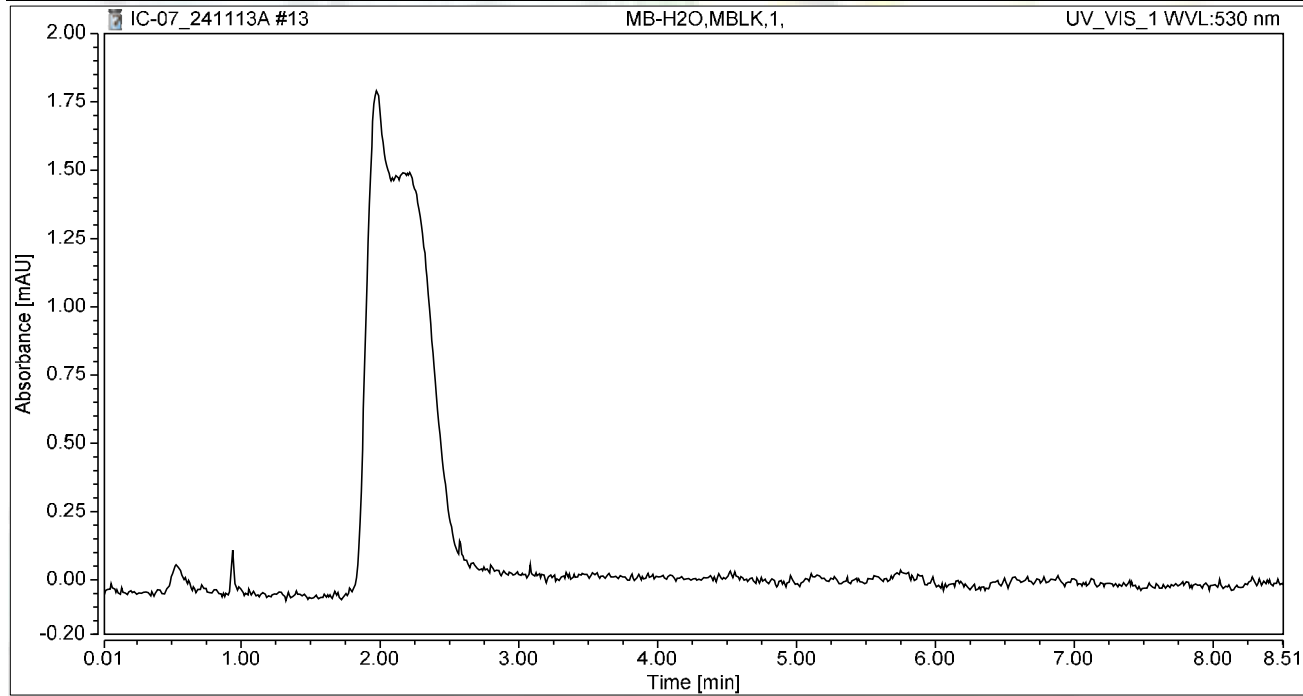
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.49
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 09:30	Sample Weight:	1.0000

Chromatogram



Integration Results

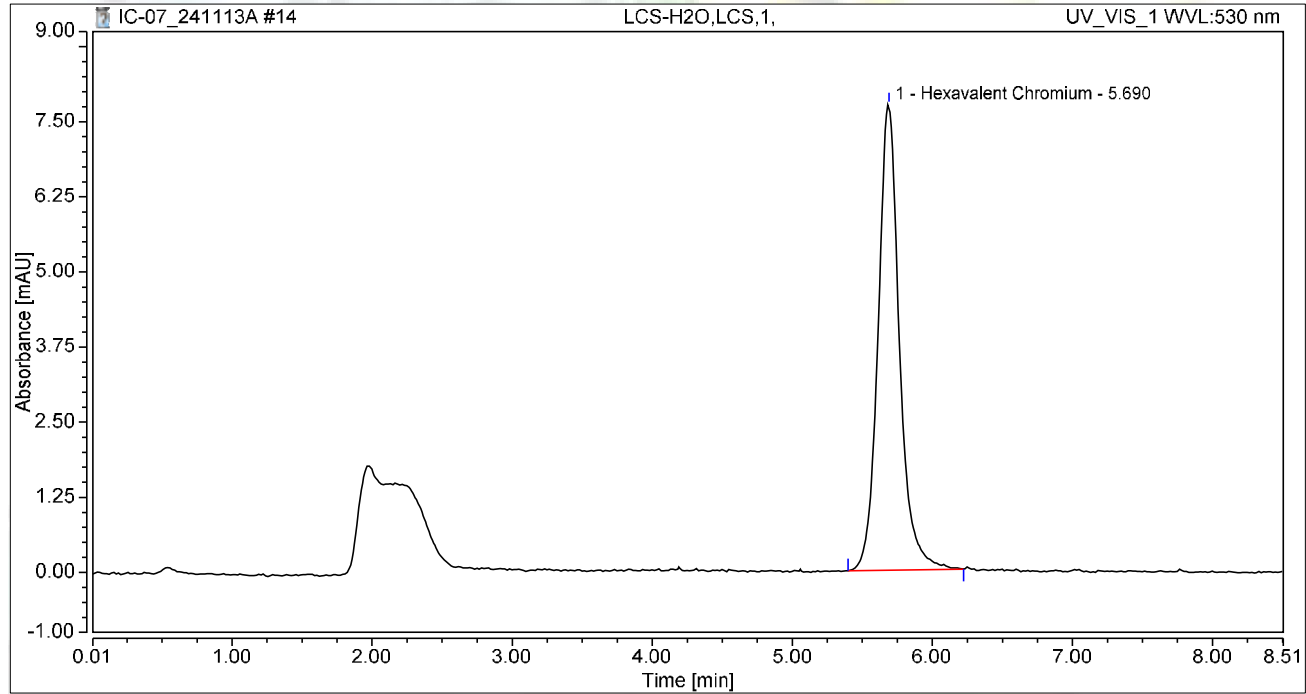
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-H2O,LCS,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 09:40	Sample Weight:	1.0000

Chromatogram



Integration Results

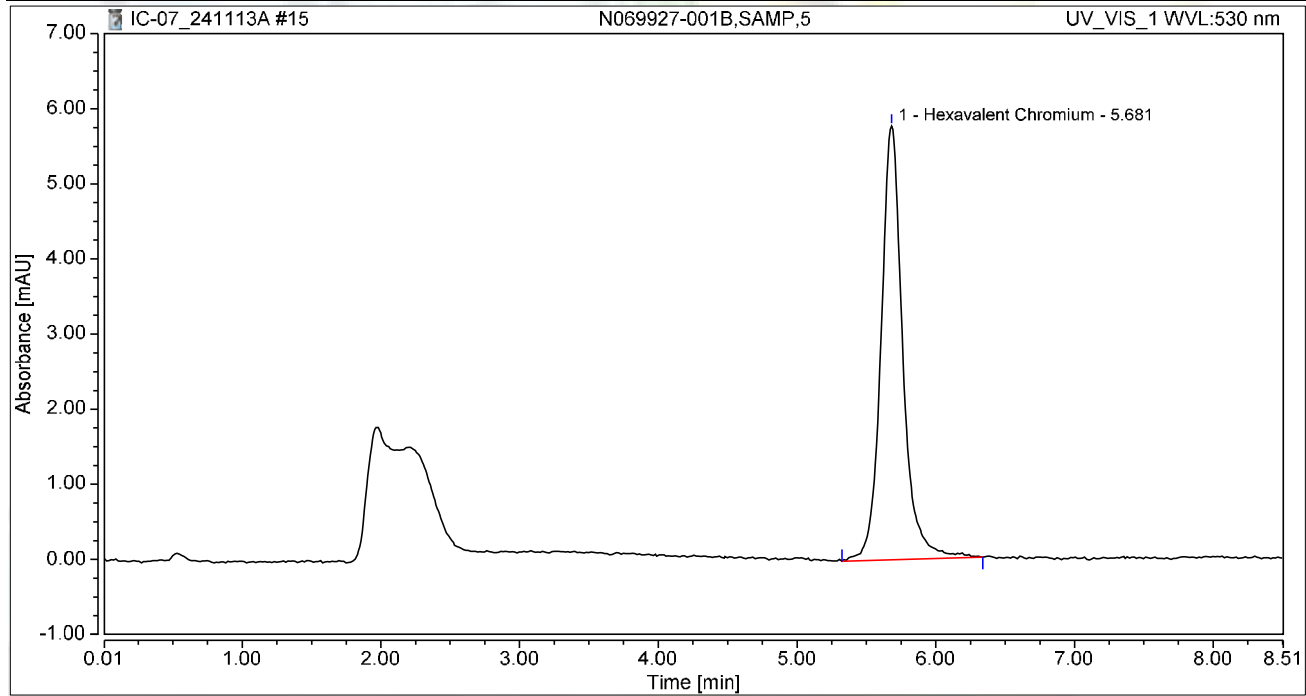
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	1.369	7.750	100.00	100.00	4.8239
Total:			1.369	7.750	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-001B,SAMP,5	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 09:49	Sample Weight:	1.0000

Chromatogram



Integration Results

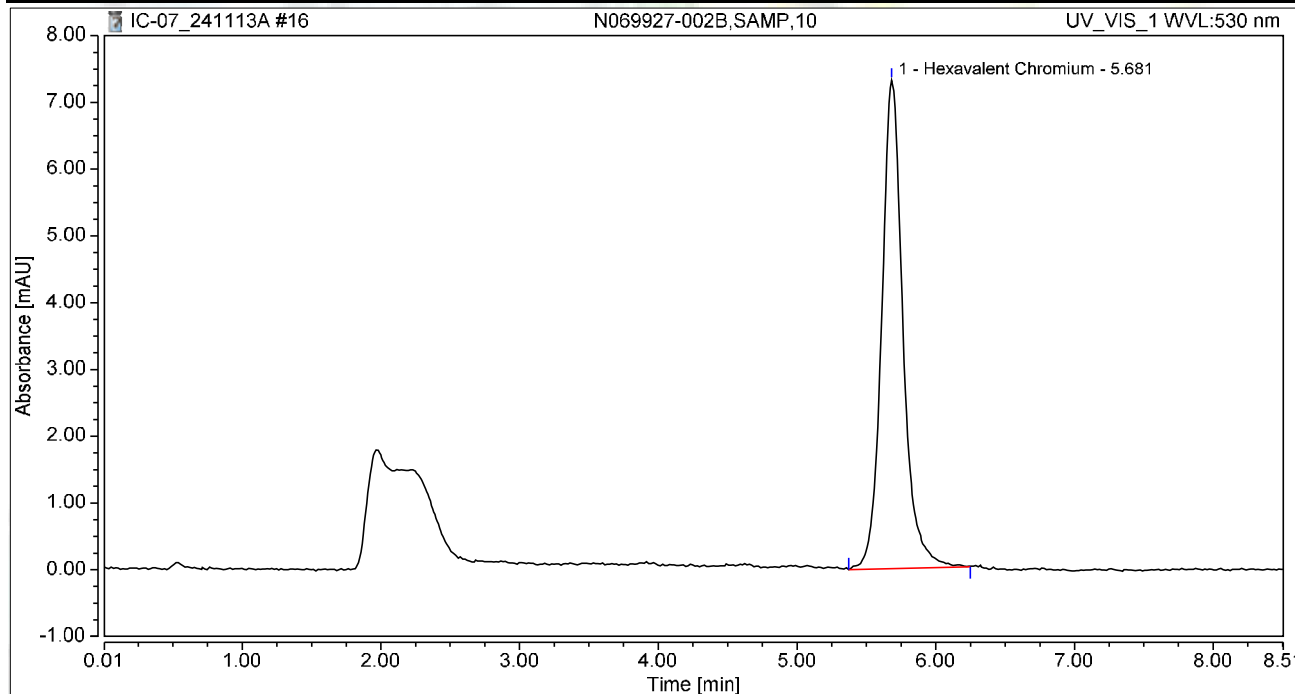
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	1.052	5.776	100.00	100.00	3.7064
Total:			1.052	5.776	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-002B,SAMP,10	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 09:59	Sample Weight:	1.0000

Chromatogram



Integration Results

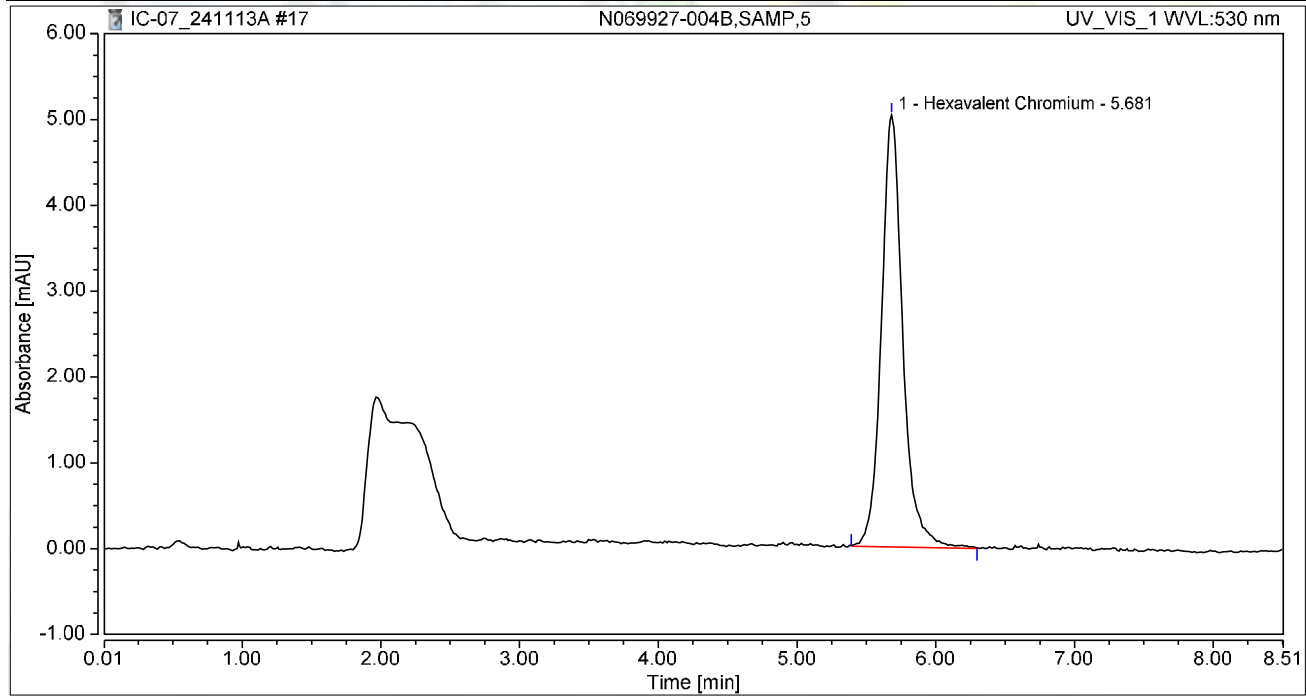
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	1.302	7.316	100.00	100.00	4.5882
Total:			1.302	7.316	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-004B,SAMP,5	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 10:08	Sample Weight:	1.0000

Chromatogram



Integration Results

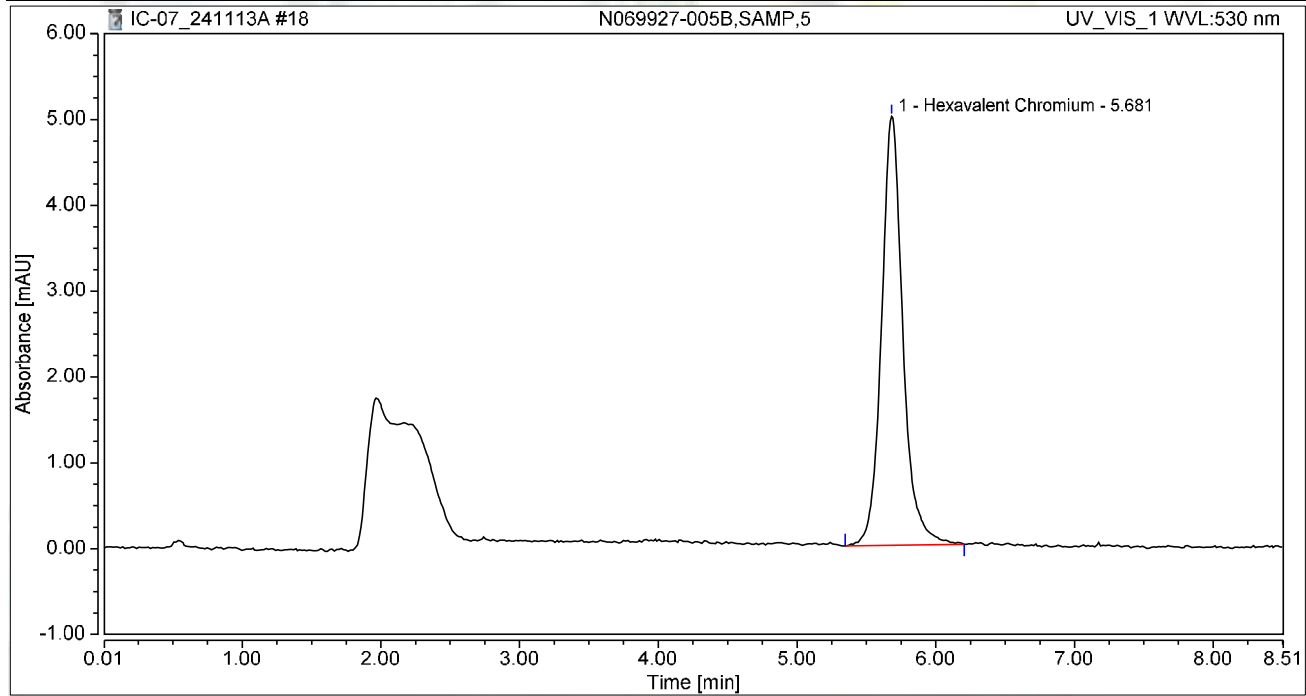
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.899	5.031	100.00	100.00	3.1668
Total:			0.899	5.031	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-005B,SAMP,5	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 10:17	Sample Weight:	1.0000

Chromatogram



Integration Results

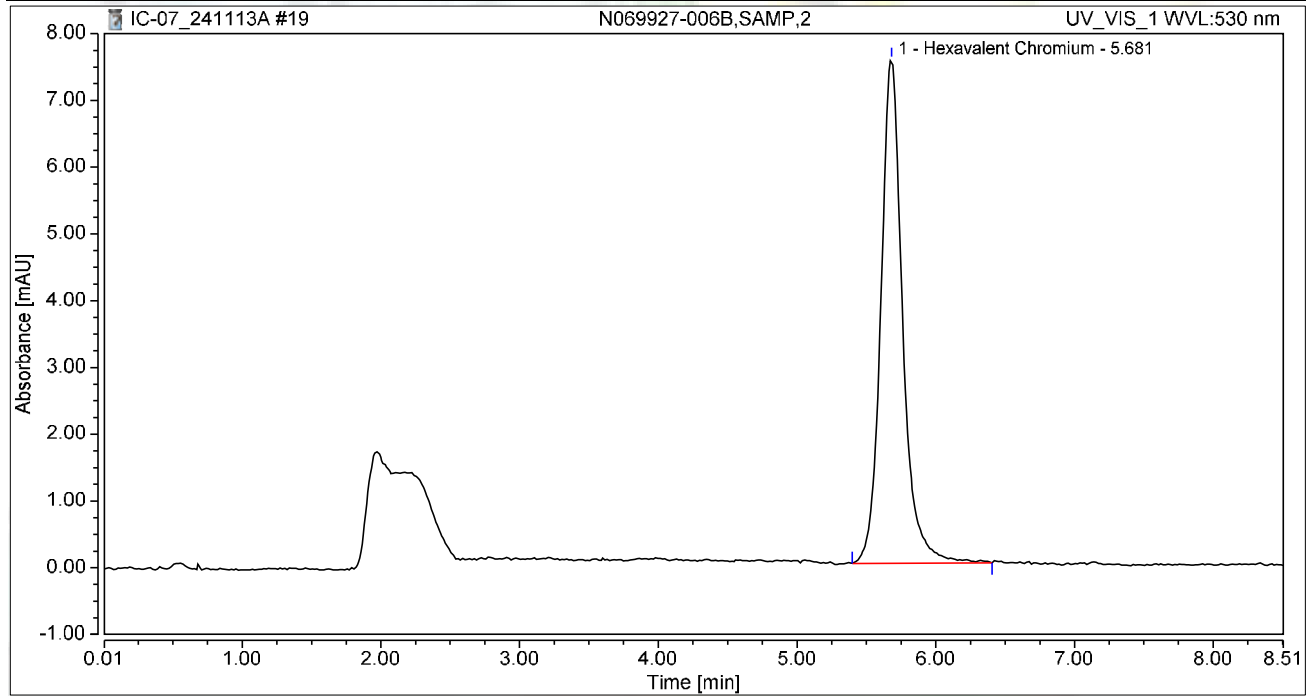
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.894	4.997	100.00	100.00	3.1491
Total:			0.894	4.997	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-006B,SAMP,2	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 10:27	Sample Weight:	1.0000

Chromatogram



Integration Results

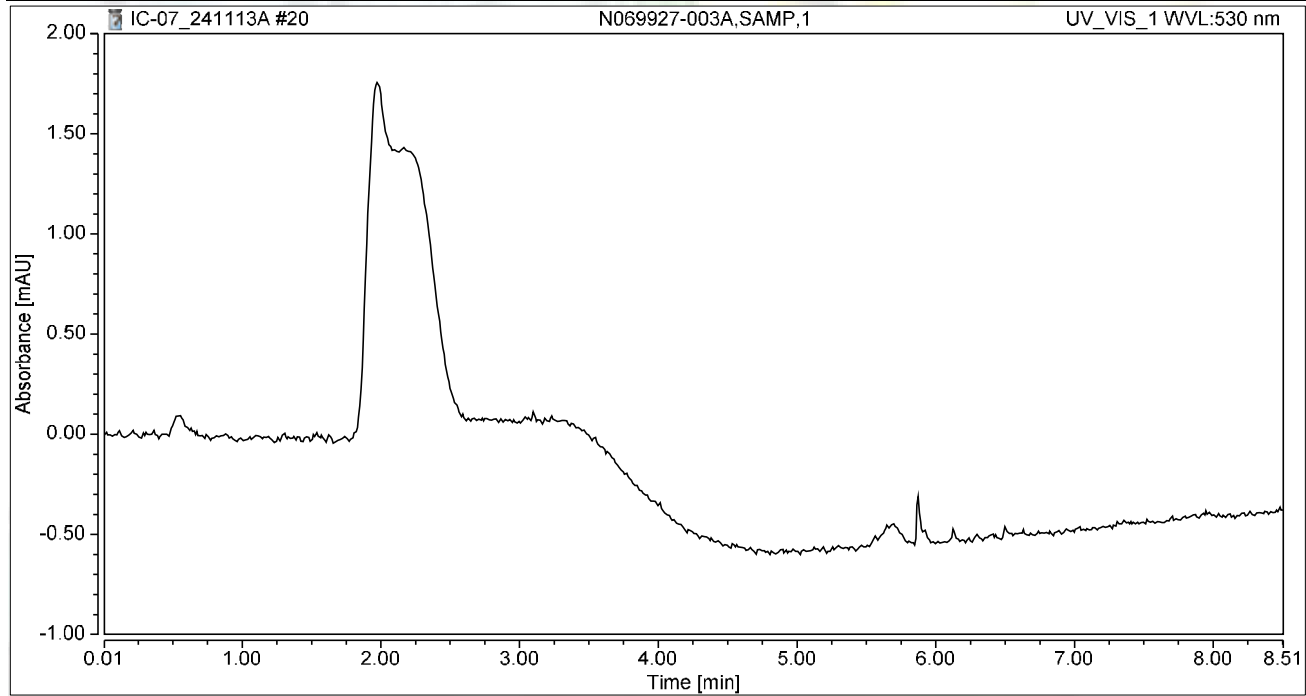
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	1.373	7.545	100.00	100.00	4.8386
Total:			1.373	7.545	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 10:36	Sample Weight:	1.0000

Chromatogram



Integration Results

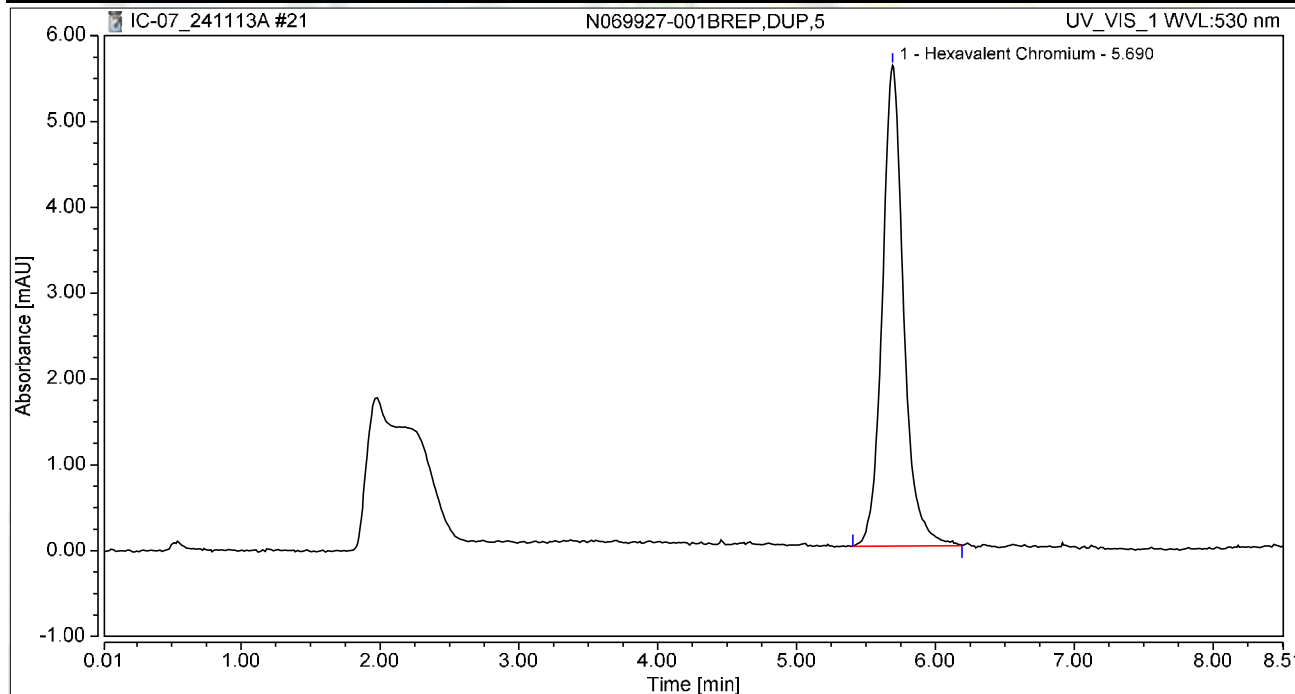
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-001BREP,DUP,5	Run Time (min):	8.49
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 10:46	Sample Weight:	1.0000

Chromatogram



Integration Results

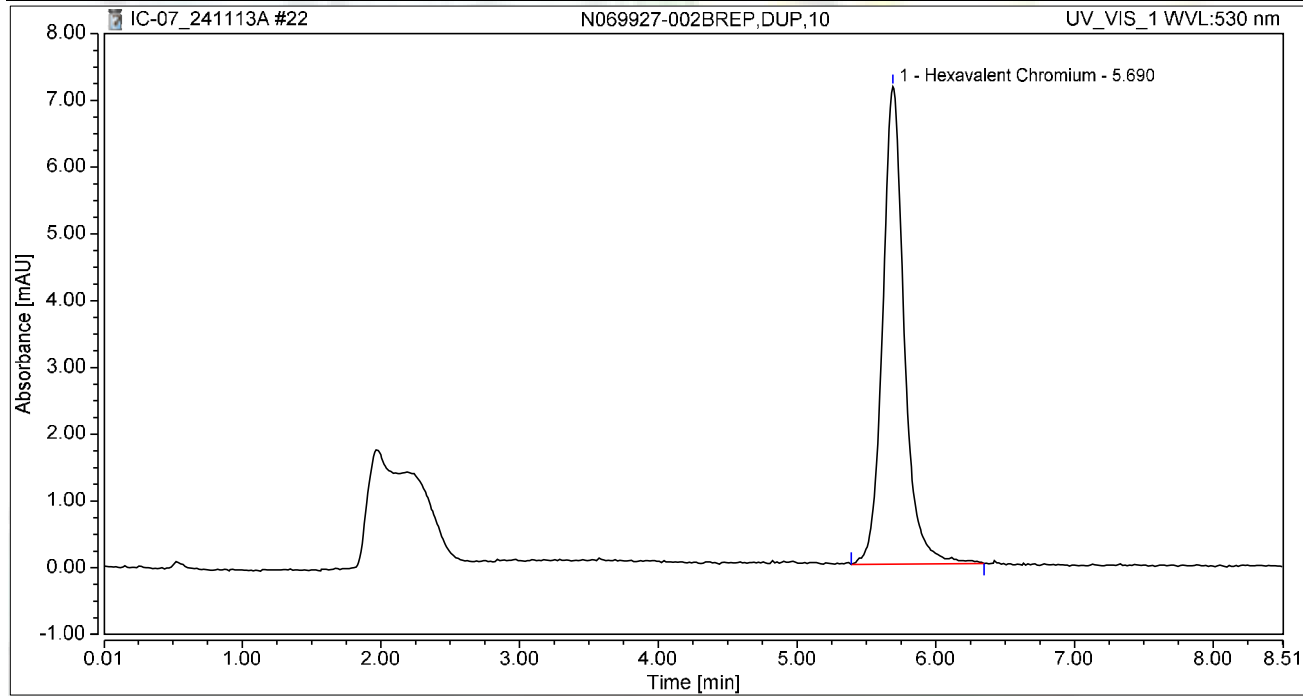
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	1.000	5.603	100.00	100.00	3.5255
Total:			1.000	5.603	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-002BREP,DUP,10	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 10:55	Sample Weight:	1.0000

Chromatogram



Integration Results

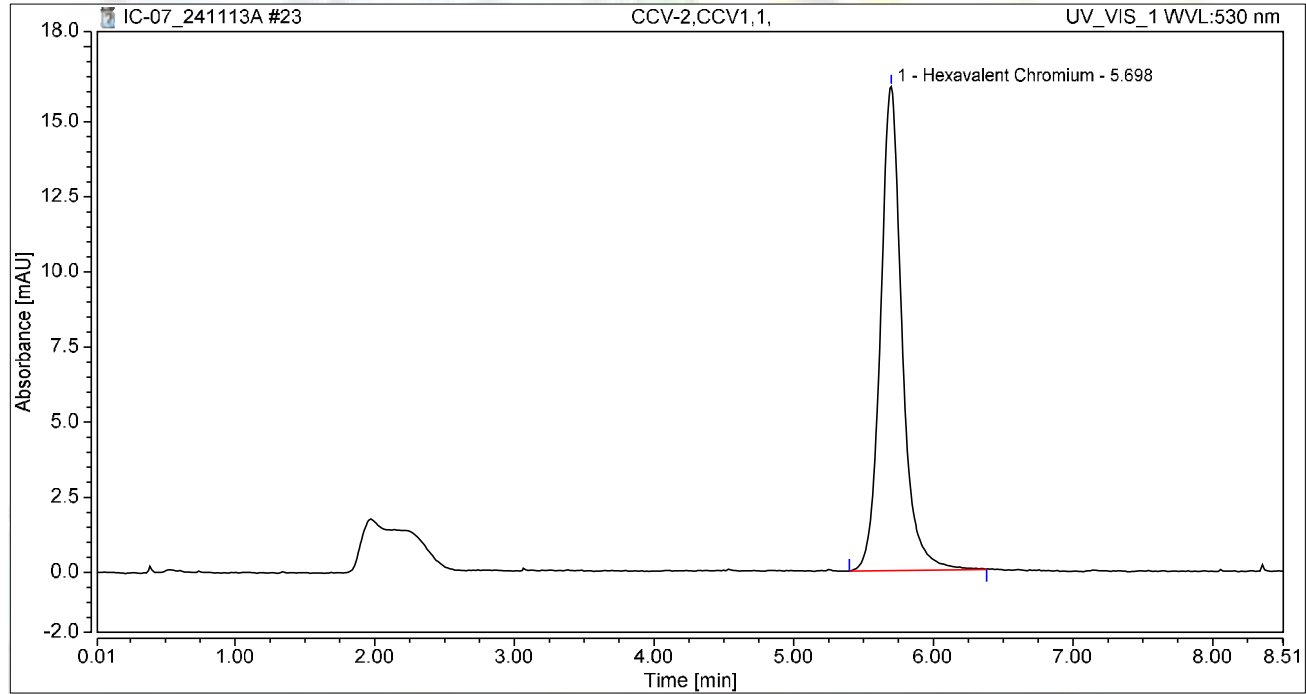
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	1.290	7.152	100.00	100.00	4.5453
Total:			1.290	7.152	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-2,CCV1,1,	Run Time (min):	8.49
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 11:05	Sample Weight:	1.0000

Chromatogram



Integration Results

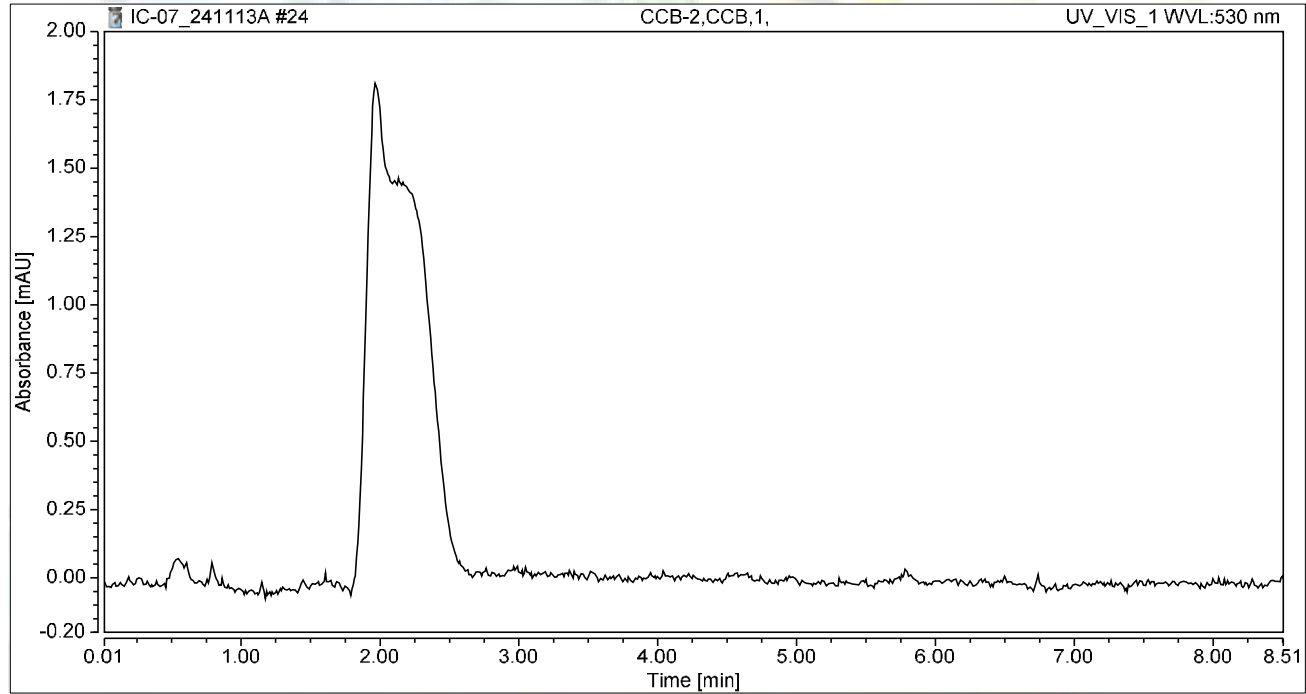
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	2.887	16.107	100.00	100.00	10.1729
Total:			2.887	16.107	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-2,CCB,1,	Run Time (min):	8.49
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 11:14	Sample Weight:	1.0000

Chromatogram



Integration Results

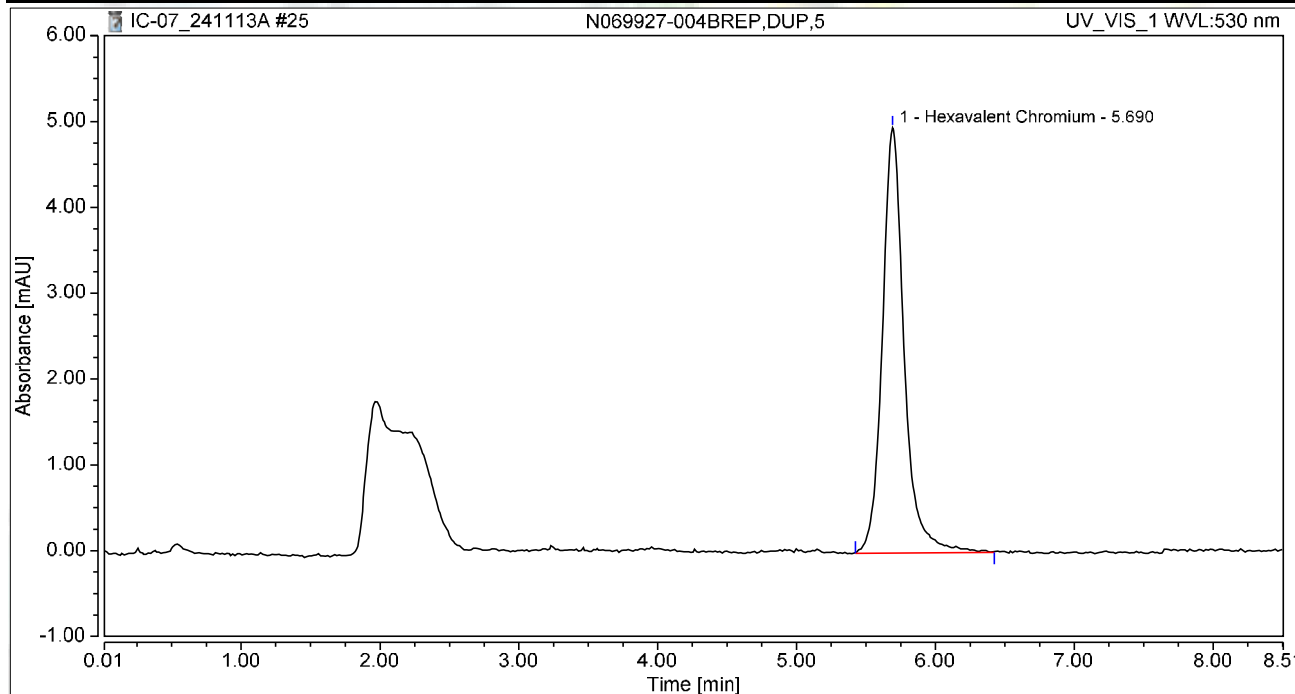
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-004BREP,DUP,5	Run Time (min):	8.49
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 11:24	Sample Weight:	1.0000

Chromatogram



Integration Results

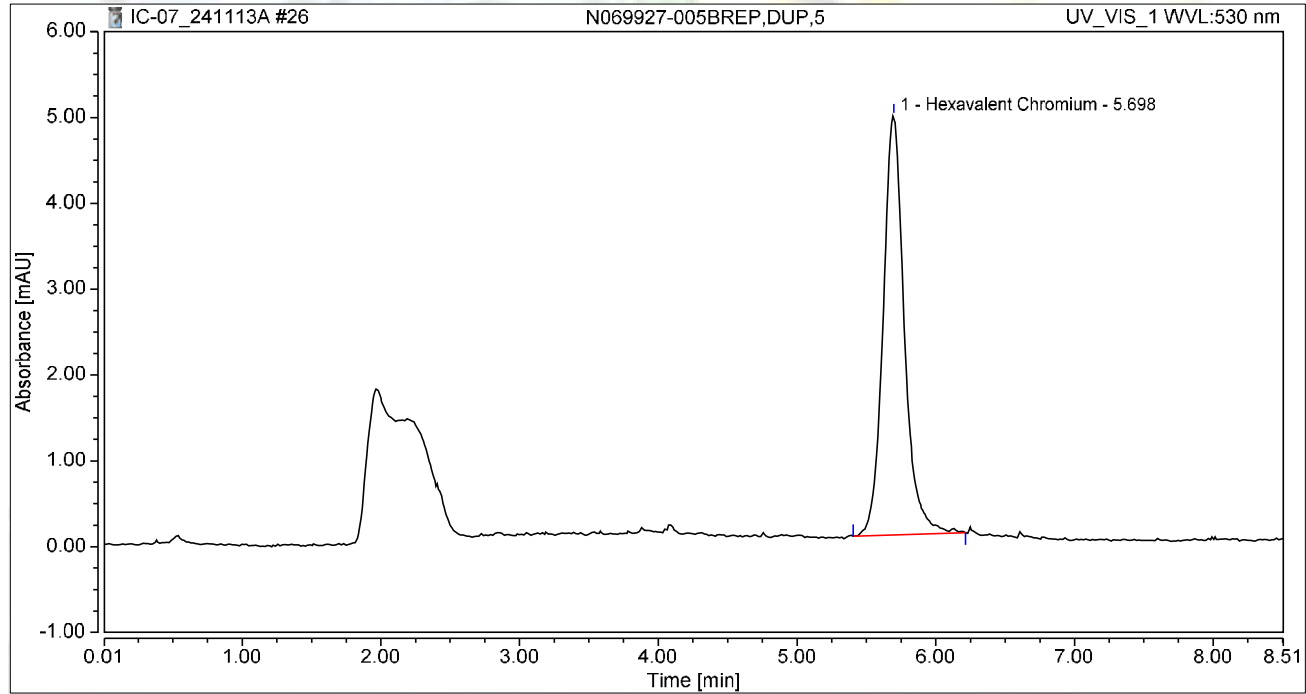
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.903	4.951	100.00	100.00	3.1833
Total:			0.903	4.951	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-005BREP,DUP,5	Run Time (min):	8.50
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 11:33	Sample Weight:	1.0000

Chromatogram



Integration Results

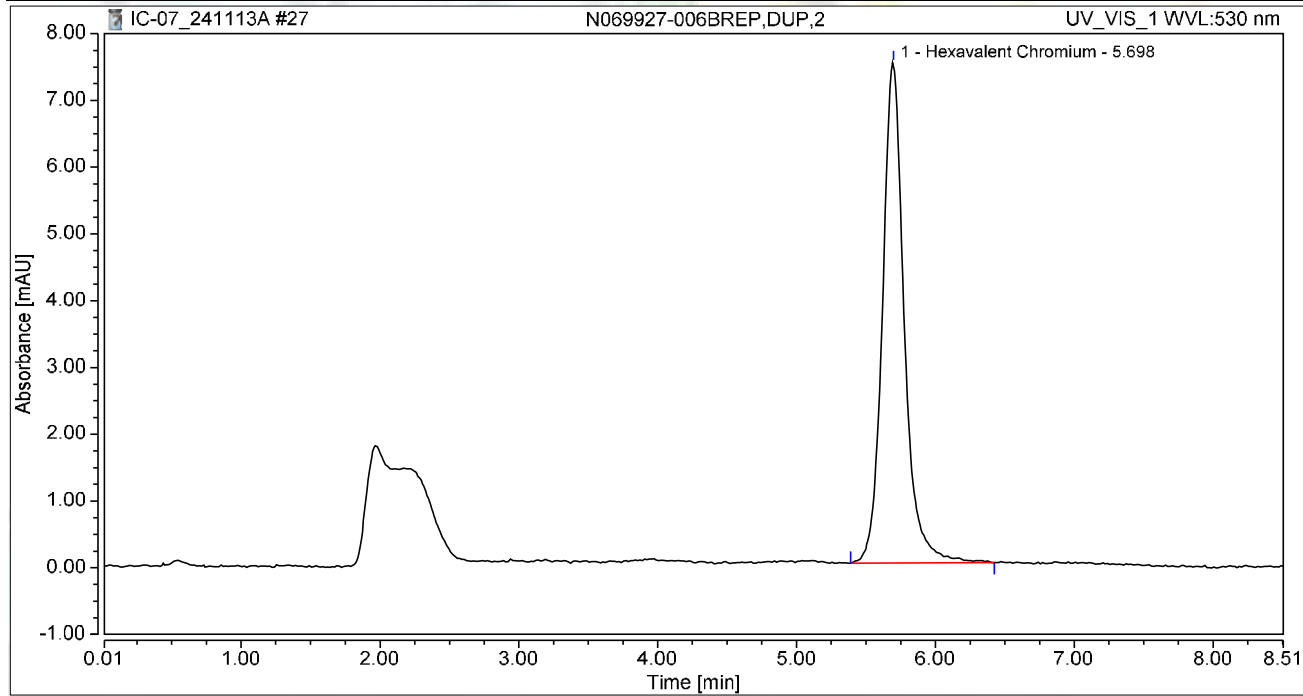
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	0.865	4.886	100.00	100.00	3.0492
Total:			0.865	4.886	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-006BREP,DUP,2	Run Time (min):	8.49
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 11:43	Sample Weight:	1.0000

Chromatogram



Integration Results

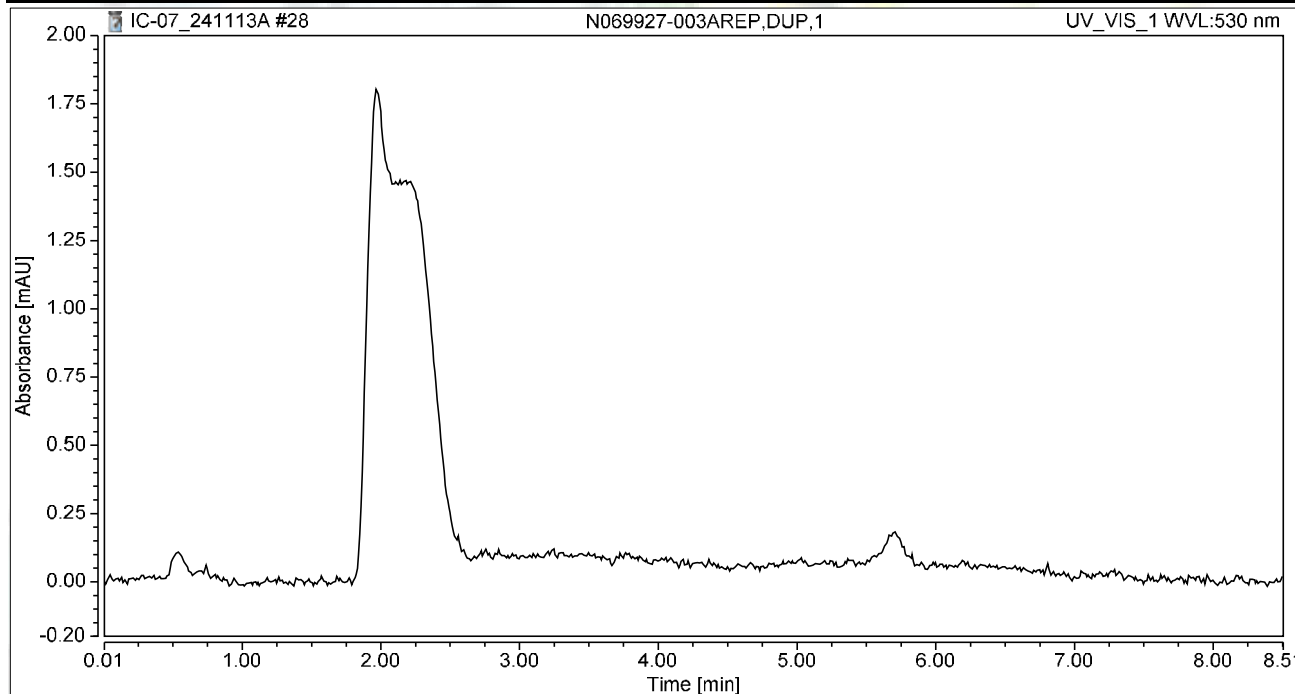
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	1.364	7.494	100.00	100.00	4.8065
Total:			1.364	7.494	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-003AREP,DUP,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 11:52	Sample Weight:	1.0000

Chromatogram



Integration Results

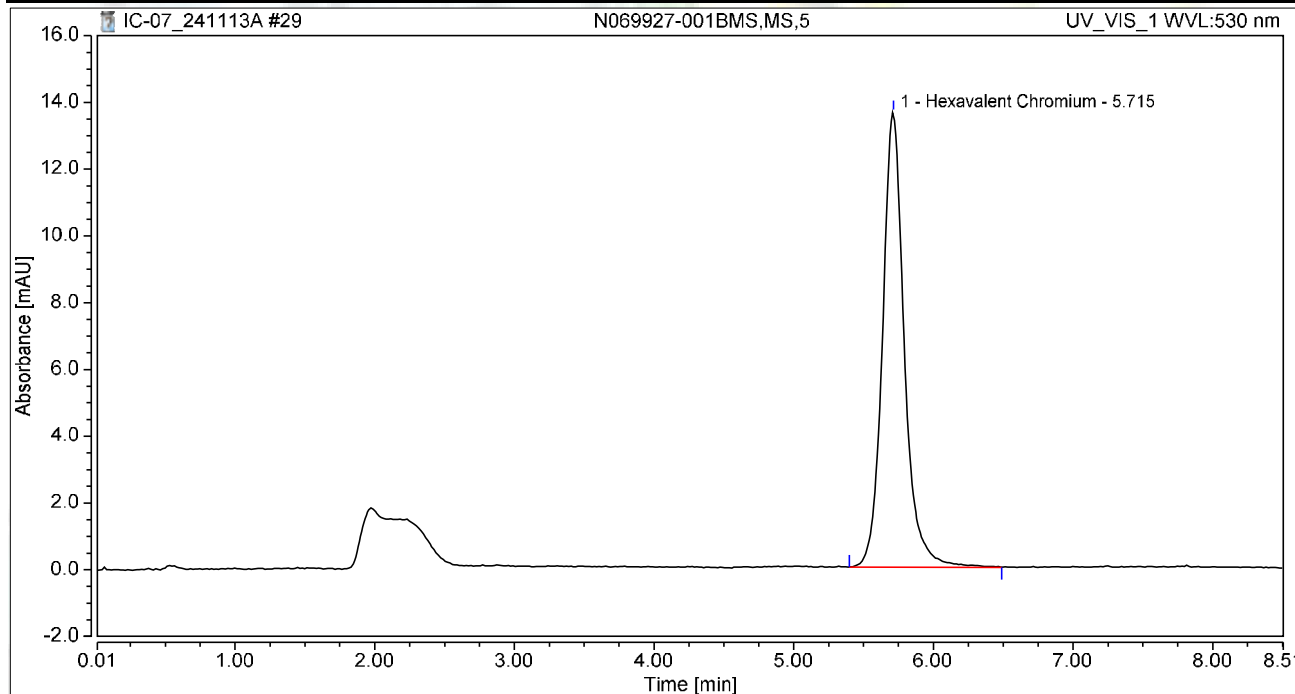
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-001BMS,MS,5	Run Time (min):	8.49
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 12:02	Sample Weight:	1.0000

Chromatogram



Integration Results

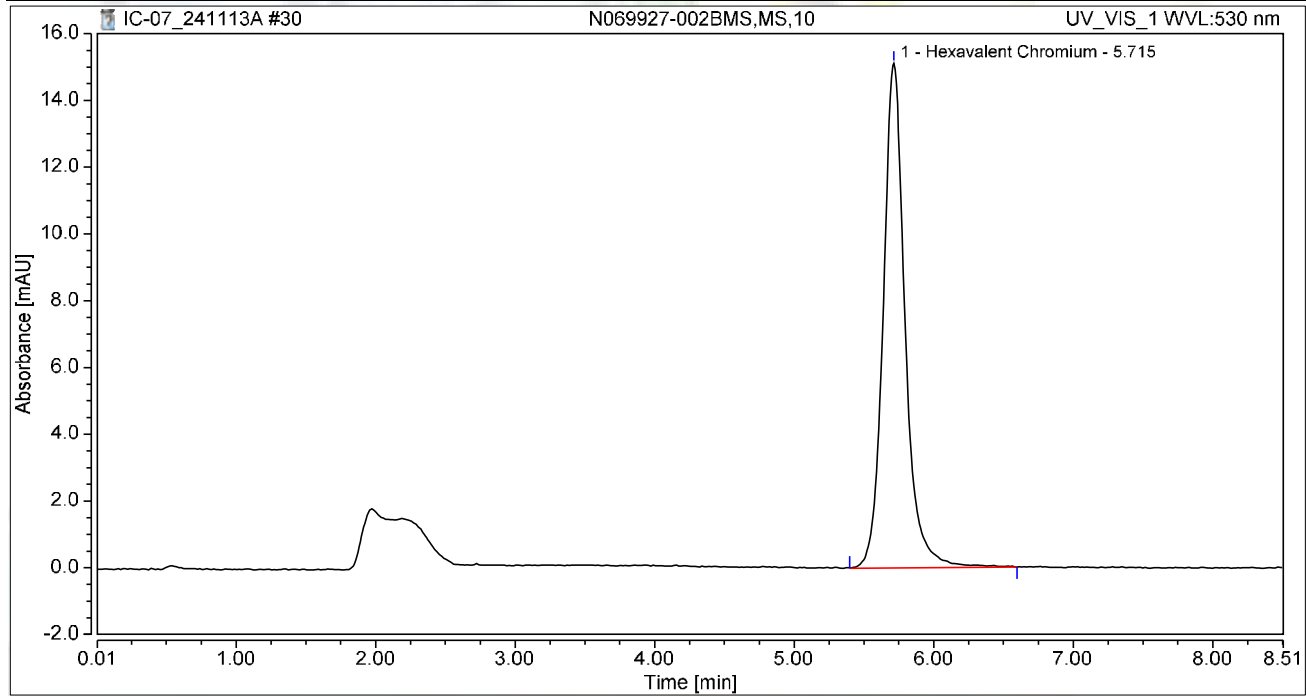
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.470	13.617	100.00	100.00	8.7043
Total:			2.470	13.617	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-002BMS,MS,10	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 12:11	Sample Weight:	1.0000

Chromatogram



Integration Results

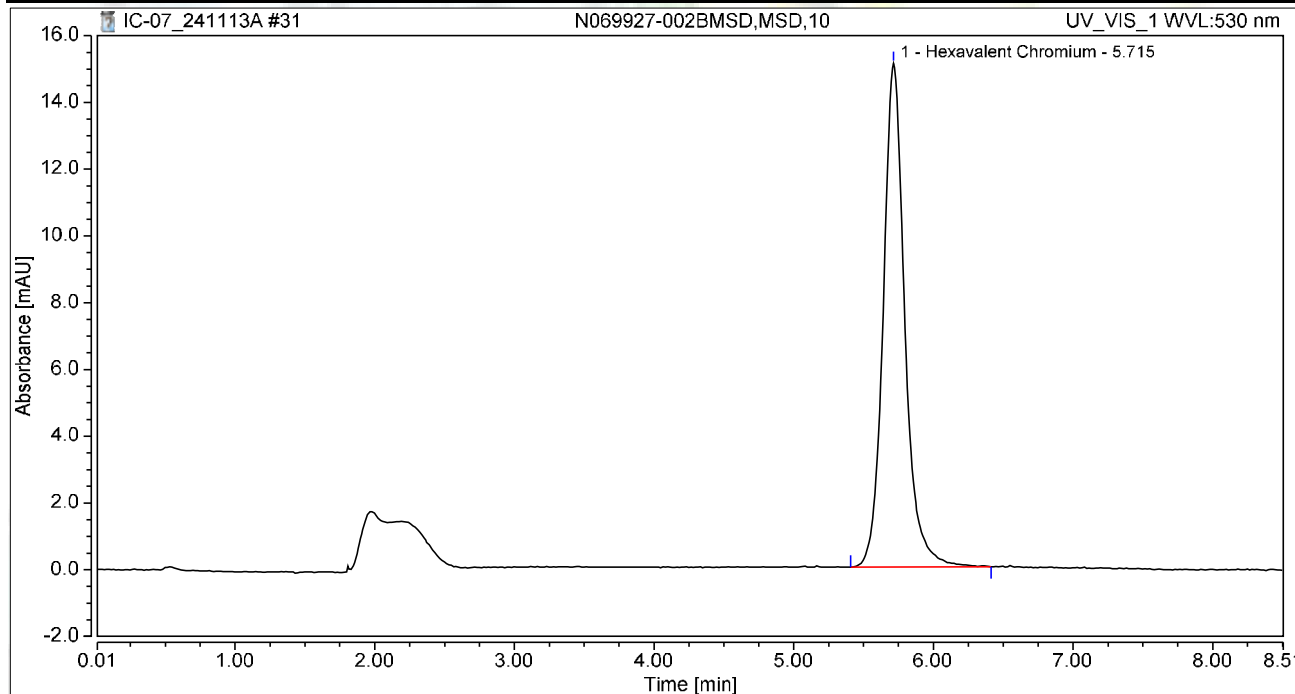
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.743	15.119	100.00	100.00	9.6685
Total:			2.743	15.119	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-002BMSD,MSD,10	Run Time (min):	8.49
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 12:20	Sample Weight:	1.0000

Chromatogram



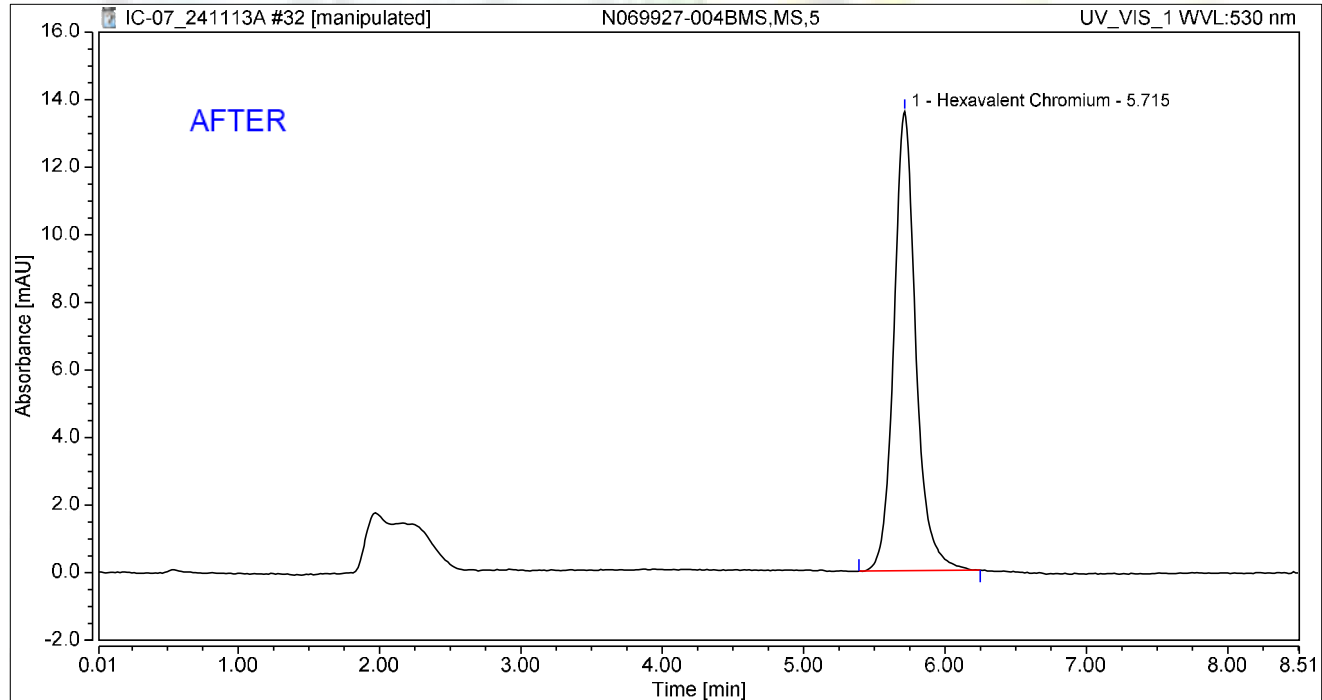
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.706	15.086	100.00	100.00	9.5382
Total:			2.706	15.086	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069927-004BMS,MS,5	Run Time (min): 8.49
Vial Number:	24	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	13/Nov/24 12:30	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.443	13.590	100.00	100.00	8.6081
Total:			2.443	13.590	100.00	100.00	

Nancy

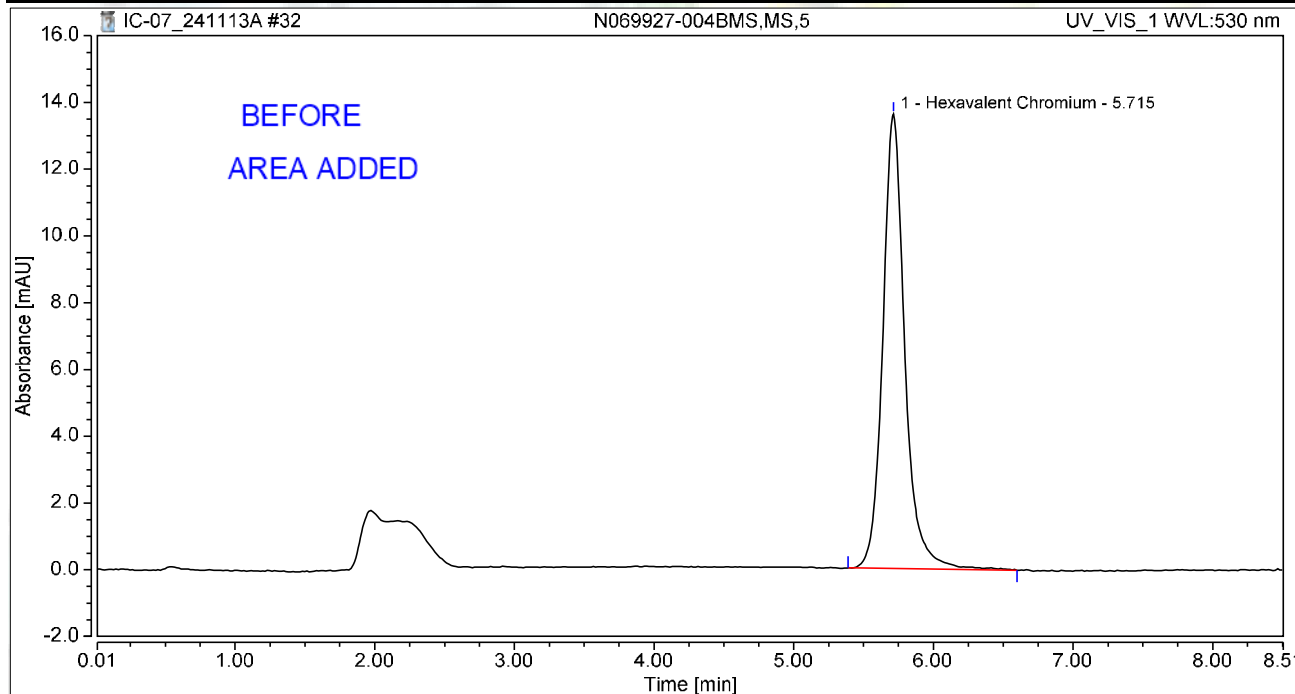
11/14/2024

Chromatogram and Results

Injection Details

Injection Name:	N069927-004BMS,MS,5	Run Time (min):	8.49
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 12:30	Sample Weight:	1.0000

Chromatogram



Integration Results

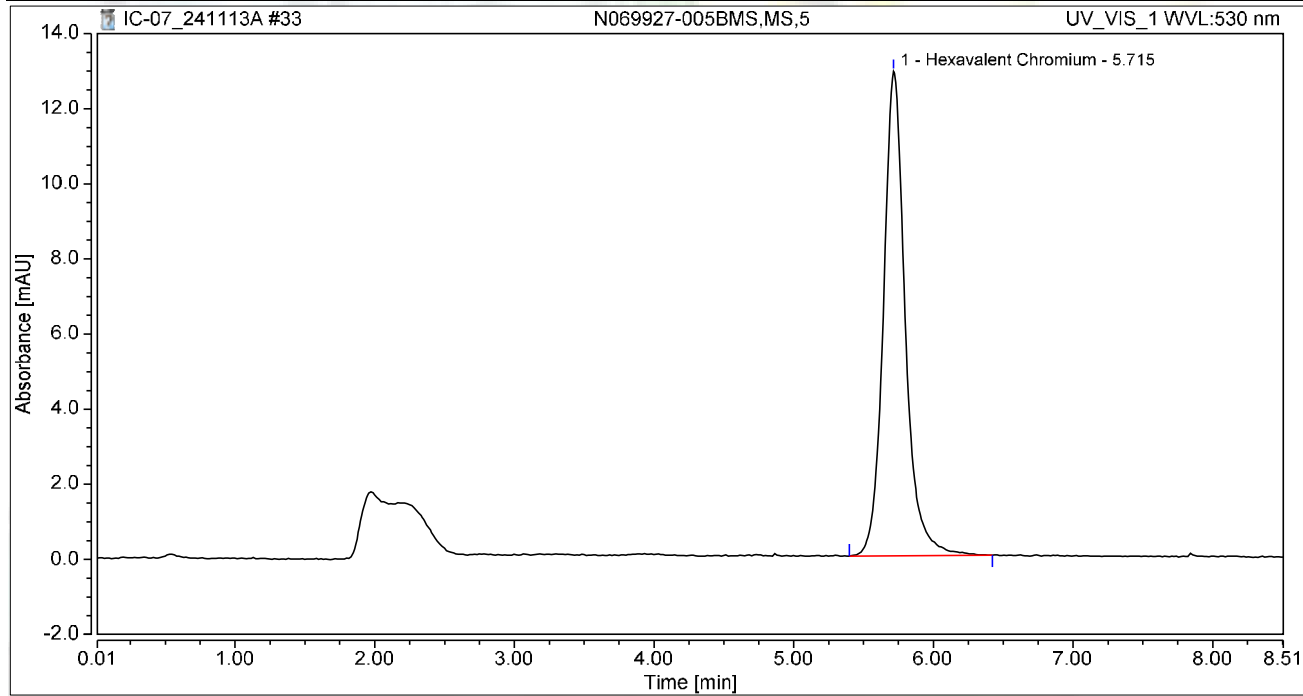
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.491	13.619	100.00	100.00	8.7771
Total:			2.491	13.619	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-005BMS,MS,5	Run Time (min):	8.49
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 12:39	Sample Weight:	1.0000

Chromatogram



Integration Results

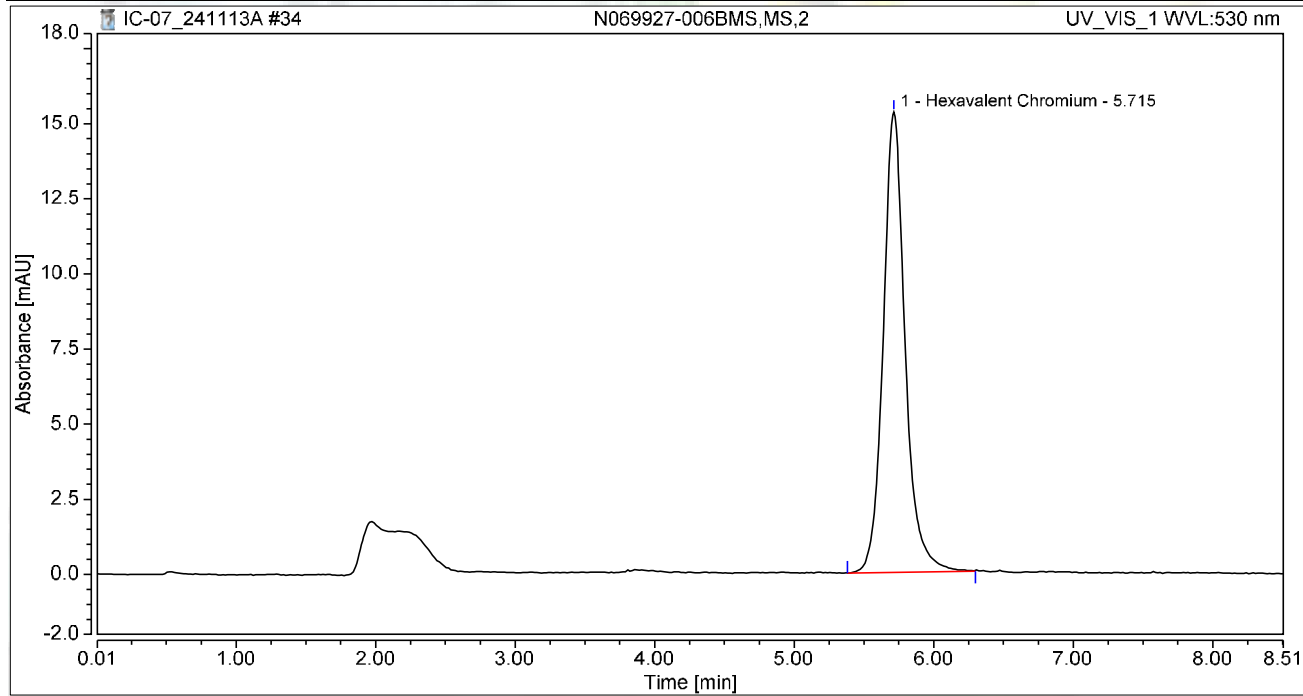
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.339	12.898	100.00	100.00	8.2415
Total:			2.339	12.898	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-006BMS,MS,2	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 12:49	Sample Weight:	1.0000

Chromatogram



Integration Results

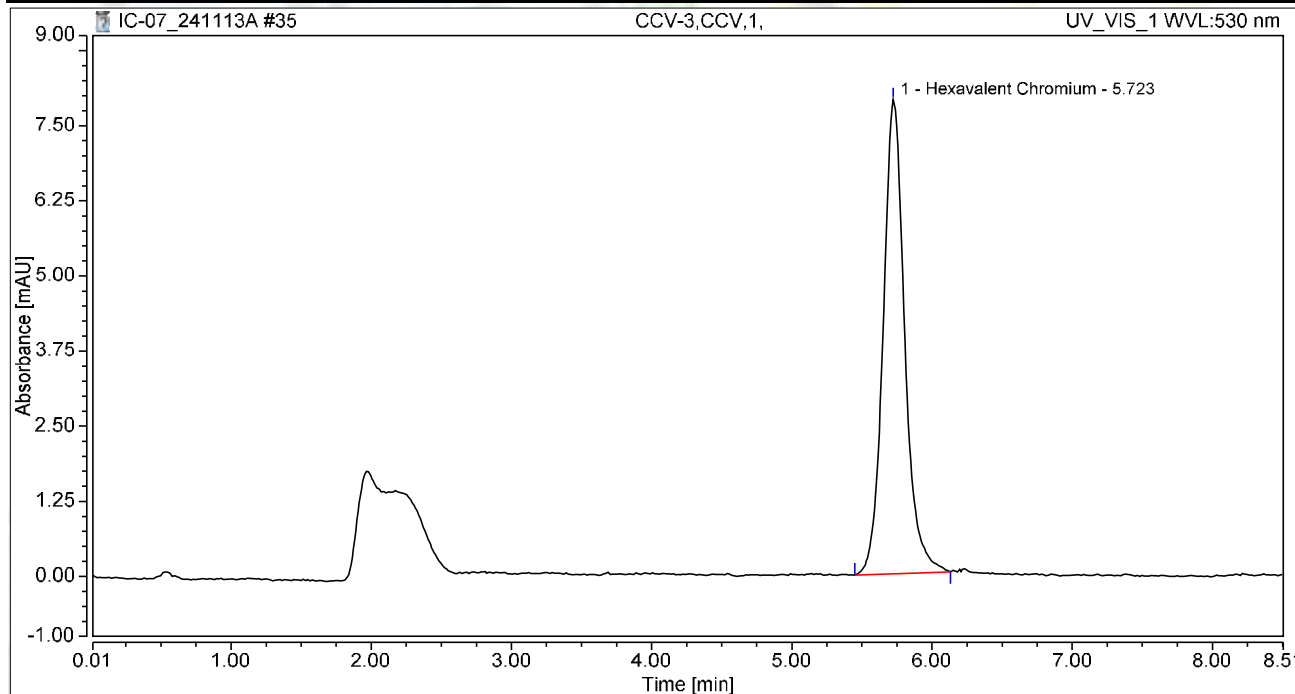
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.783	15.324	100.00	100.00	9.8069
Total:			2.783	15.324	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-3,CCV,1,	Run Time (min):	8.49
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 12:58	Sample Weight:	1.0000

Chromatogram



Integration Results

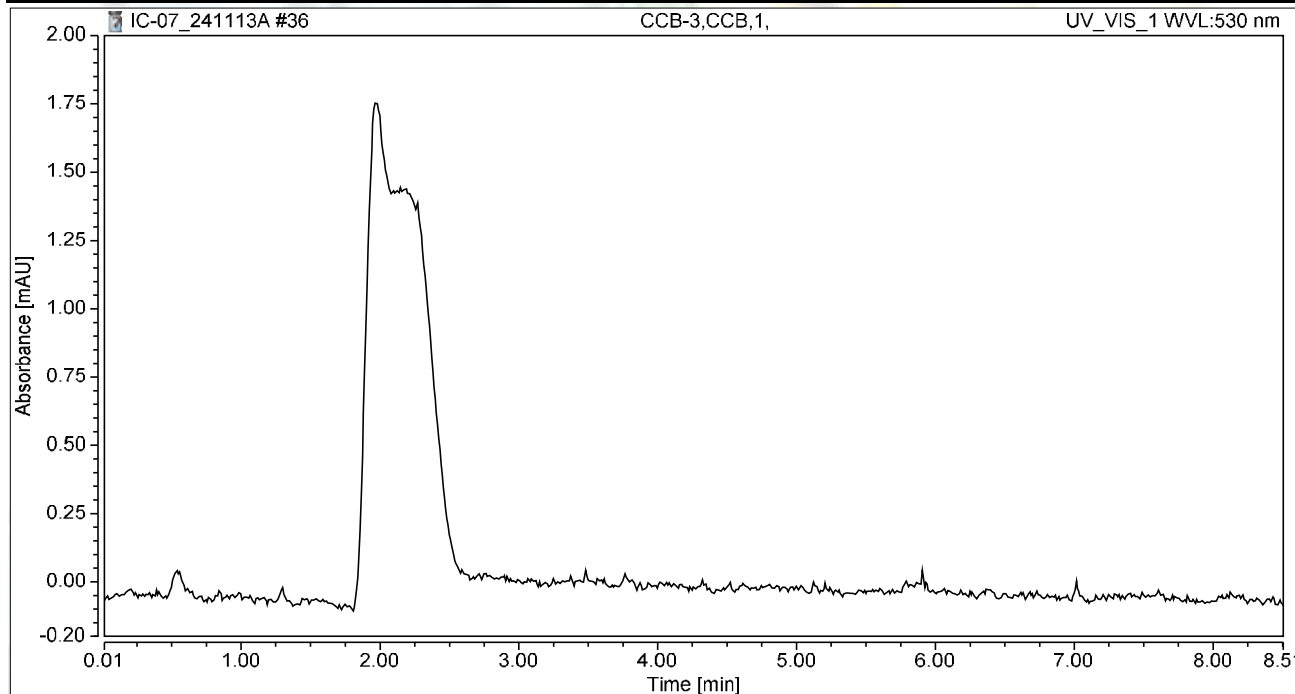
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	1.400	7.887	100.00	100.00	4.9350
Total:			1.400	7.887	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-3,CCB,1,	Run Time (min):	8.49
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 13:08	Sample Weight:	1.0000

Chromatogram



Integration Results

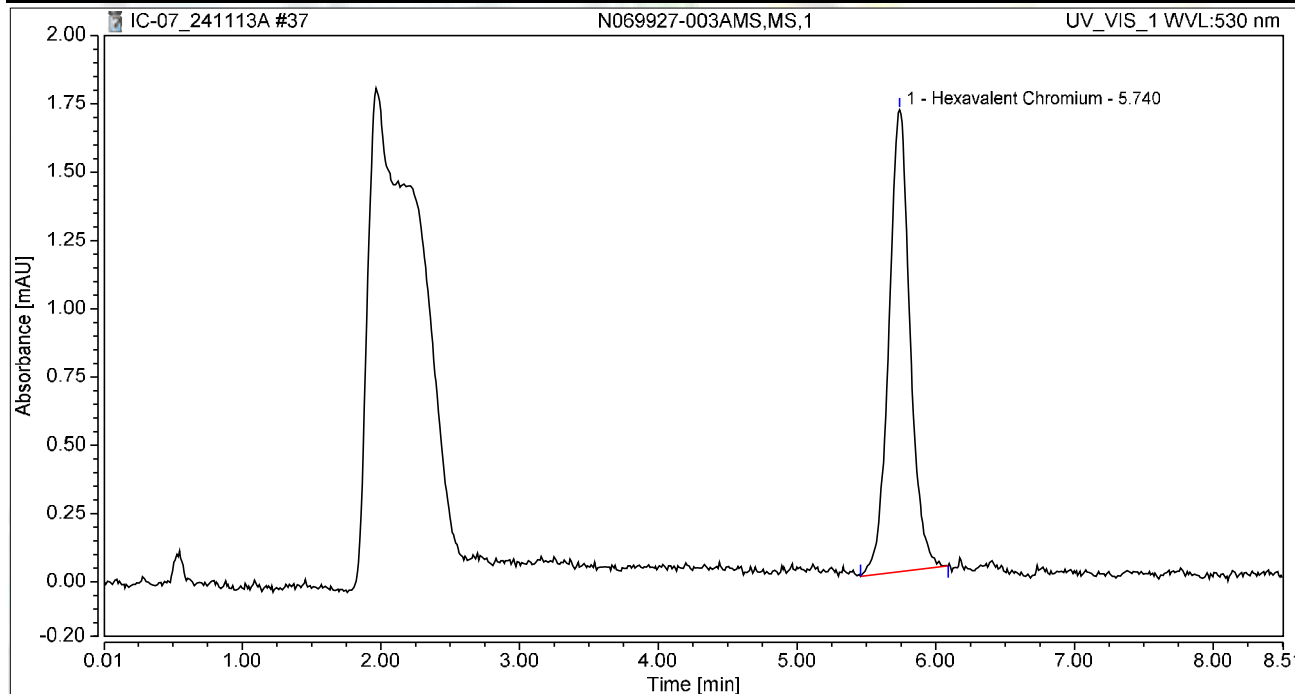
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-003AMS,MS,1	Run Time (min):	8.50
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 13:17	Sample Weight:	1.0000

Chromatogram



Integration Results

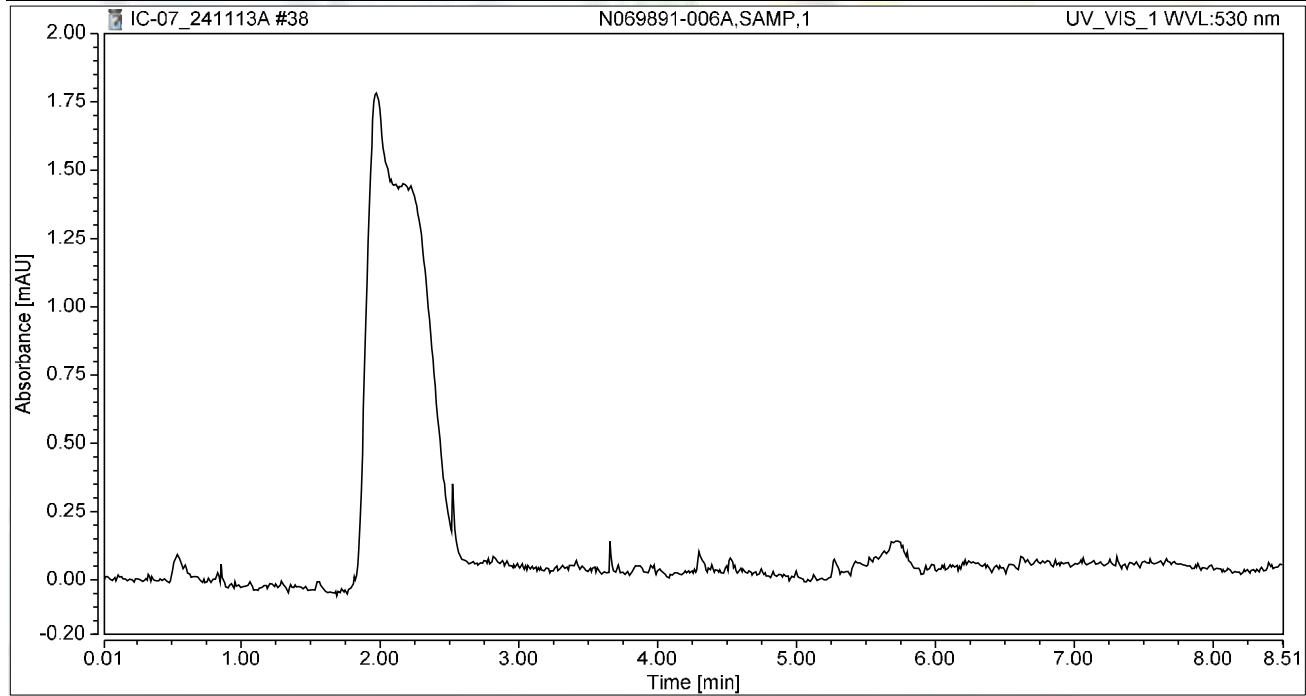
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	0.300	1.691	100.00	100.00	1.0562
Total:			0.300	1.691	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-006A,SAMP,1	Run Time (min):	8.49
Vial Number:	30	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 13:27	Sample Weight:	1.0000

Chromatogram



Integration Results

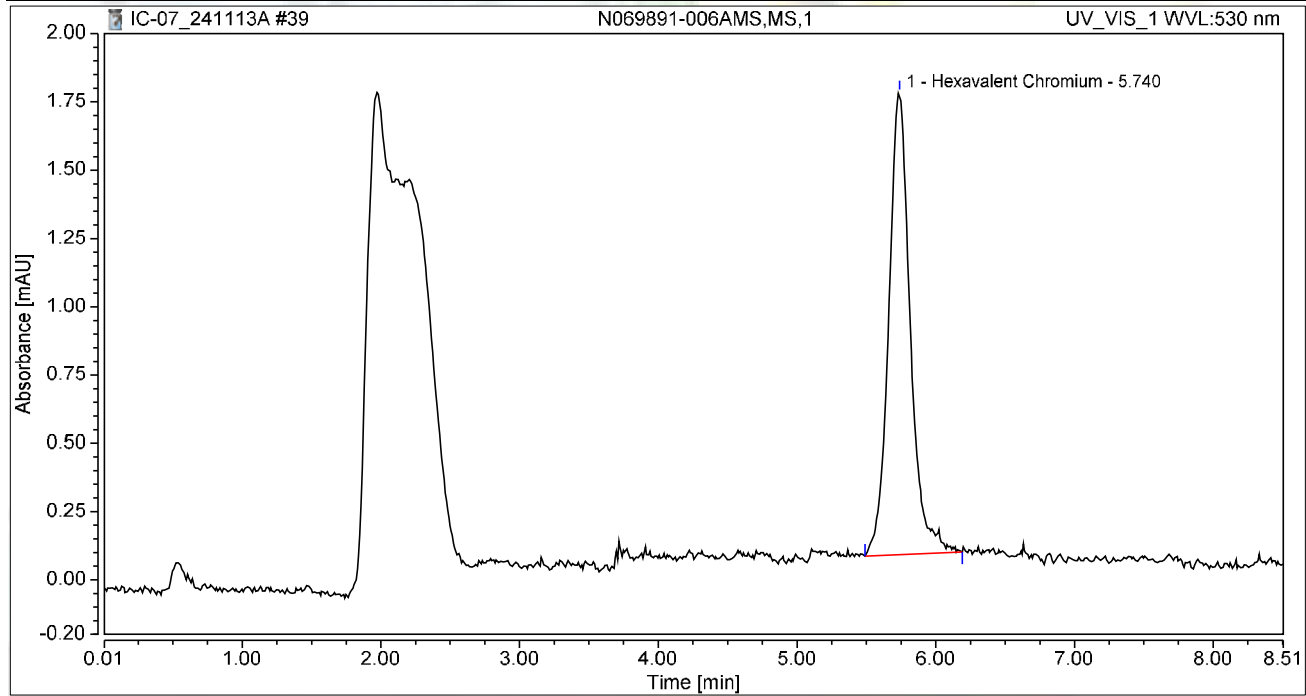
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-006AMS,MS,1	Run Time (min):	8.50
Vial Number:	31	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 13:36	Sample Weight:	1.0000

Chromatogram



Integration Results

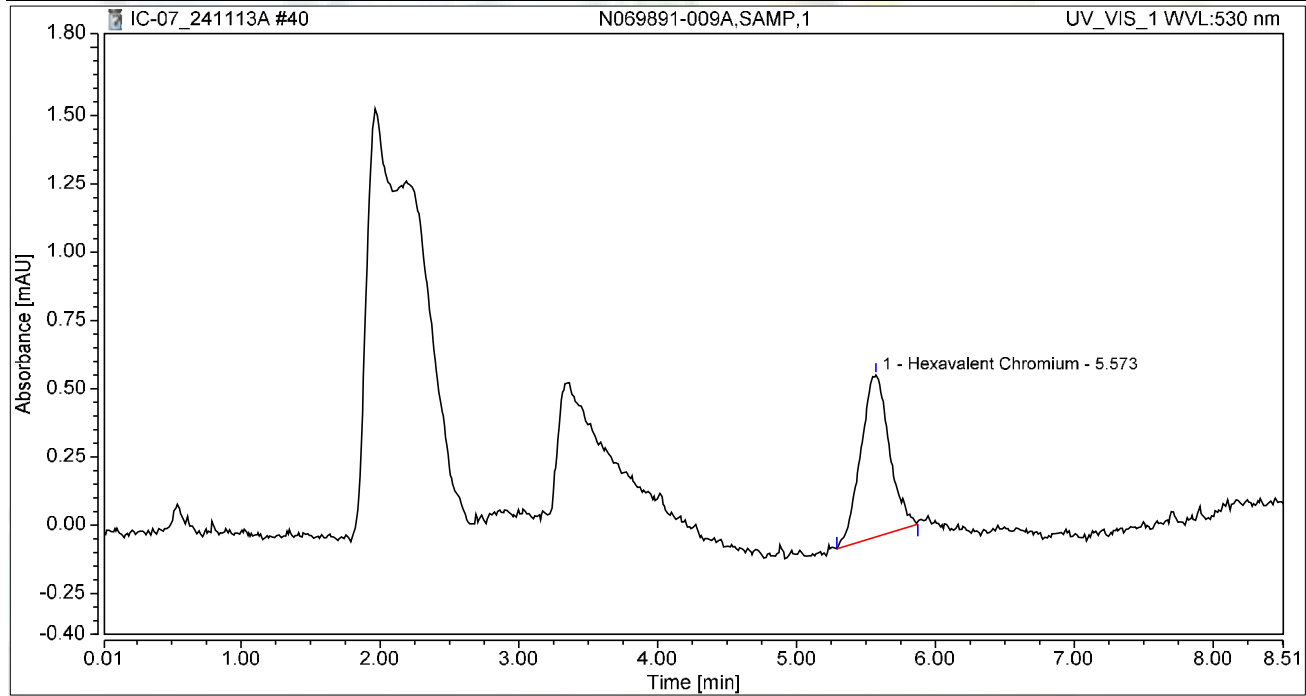
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	0.304	1.692	100.00	100.00	1.0712
Total:			0.304	1.692	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-009A,SAMP,1	Run Time (min):	8.49
Vial Number:	32	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 13:46	Sample Weight:	1.0000

Chromatogram



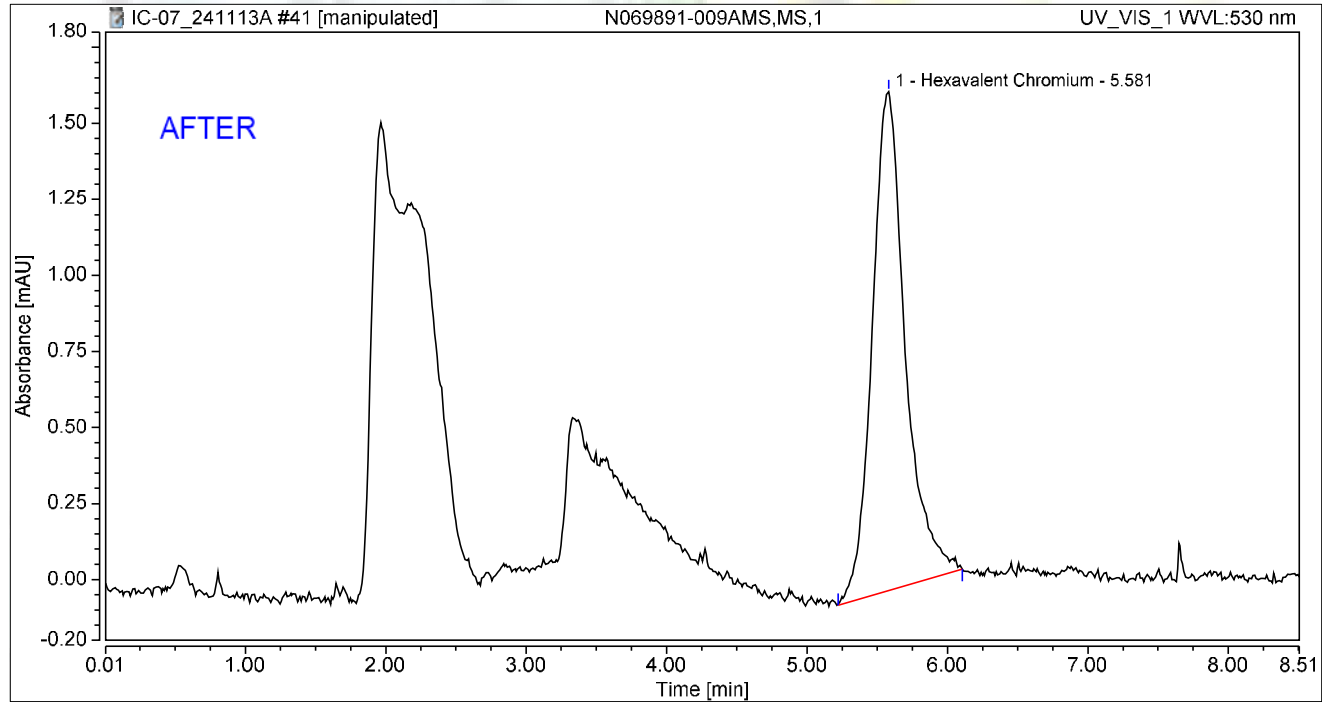
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.573	0.142	0.593	100.00	100.00	0.5013
Total:			0.142	0.593	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069891-009AMS,MS,1	Run Time (min): 8.50
Vial Number:	33	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	13/Nov/24 13:55	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.581	0.448	1.640	100.00	100.00	1.5803
Total:			0.448	1.640	100.00	100.00	

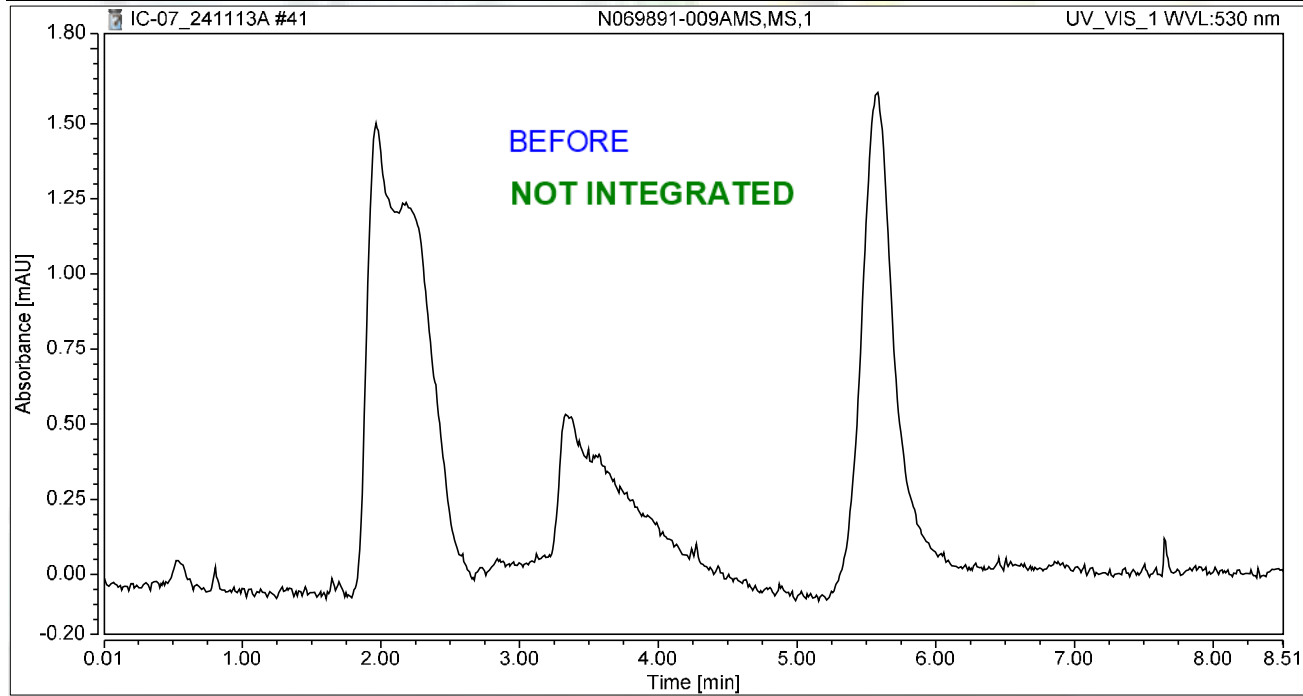
Reviewed by
Nancy 11/14/2024

Chromatogram and Results

Injection Details

Injection Name:	N069891-009AMS,MS,1	Run Time (min):	8.50
Vial Number:	33	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 13:55	Sample Weight:	1.0000

Chromatogram



Integration Results

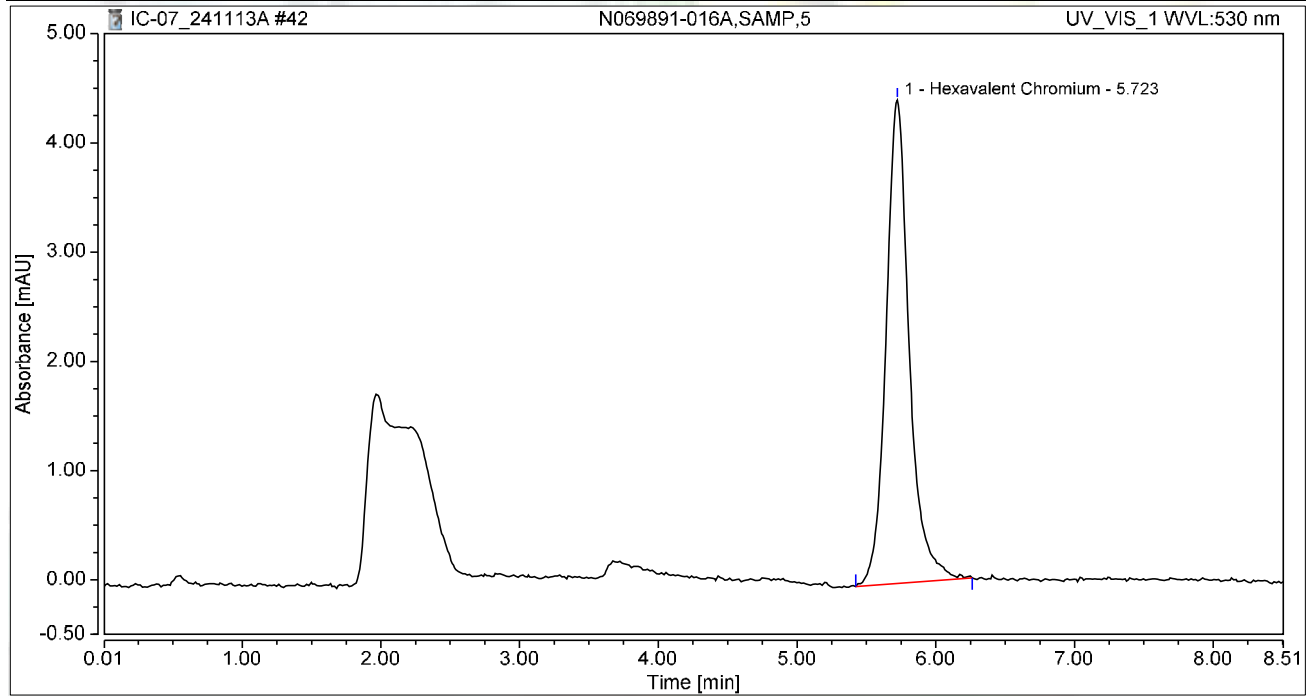
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-016A,SAMP,5	Run Time (min):	8.50
Vial Number:	34	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 14:05	Sample Weight:	1.0000

Chromatogram



Integration Results

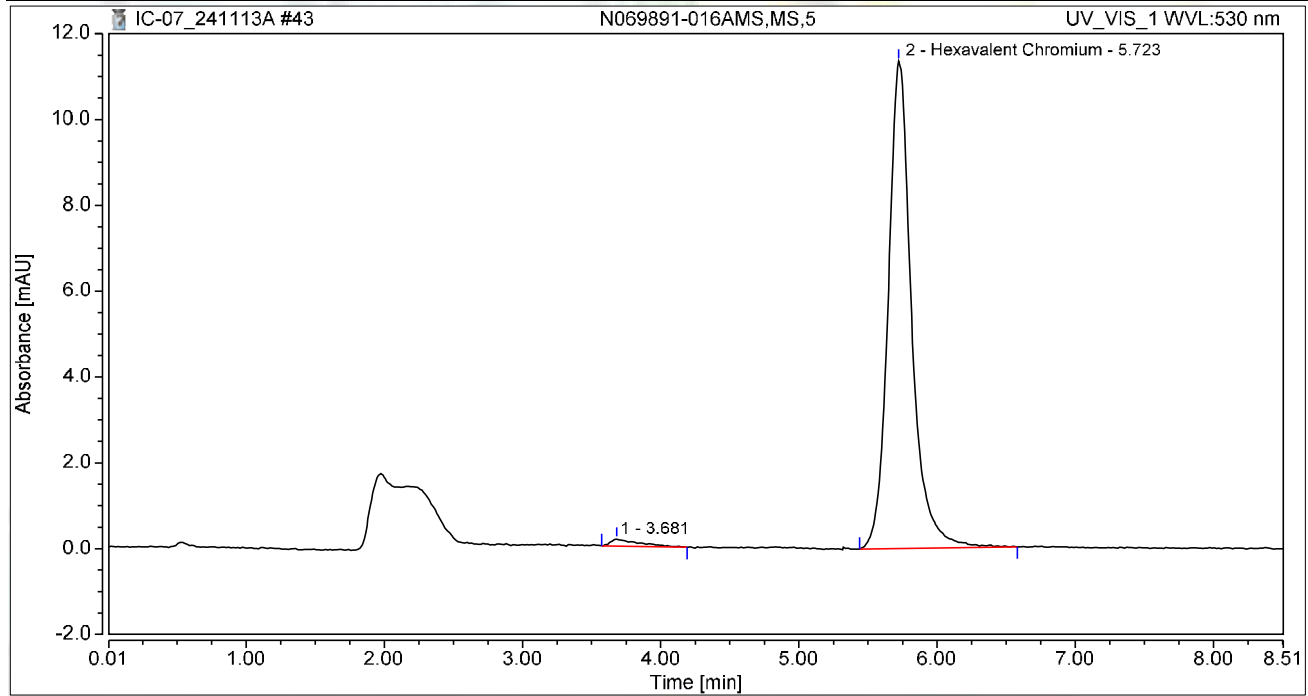
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.856	4.425	100.00	100.00	3.0182
Total:			0.856	4.425	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-016AMS,MS,5	Run Time (min):	8.50
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 14:14	Sample Weight:	1.0000

Chromatogram



Integration Results

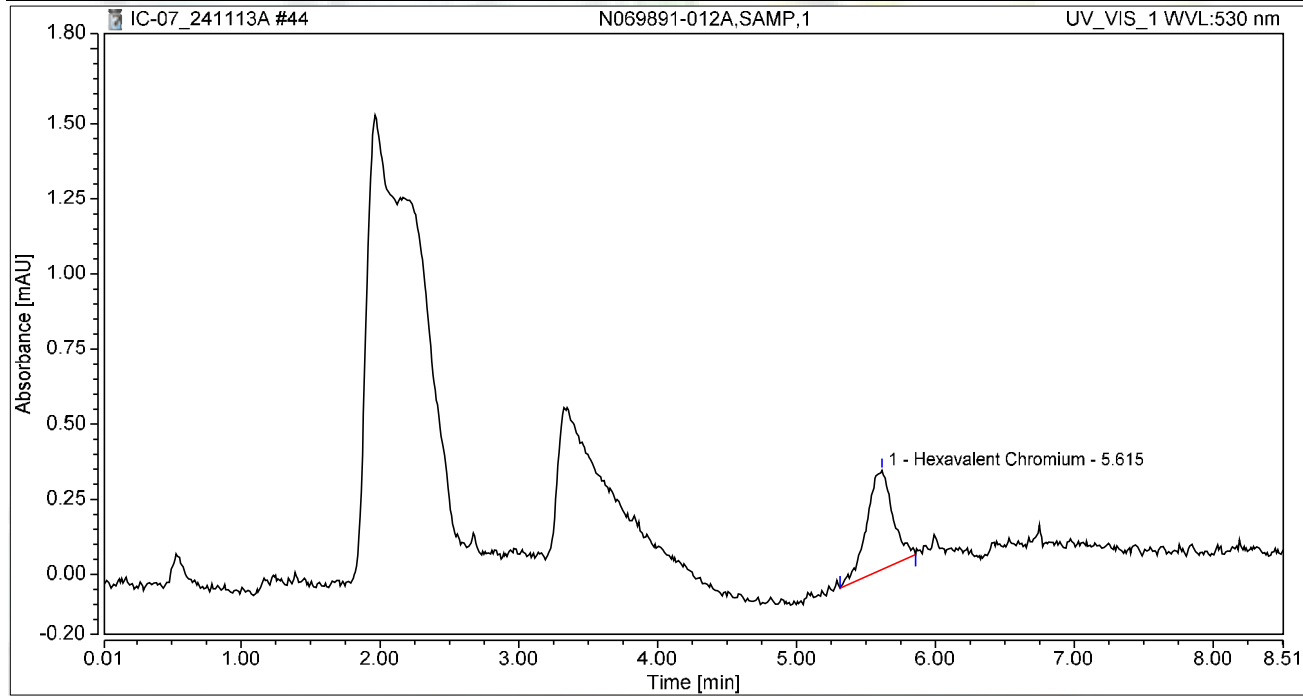
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.681	0.042	0.158	1.83	1.38	n.a.
2	Hexavalent Chromium	5.723	2.230	11.359	98.17	98.62	7.8579
Total:			2.271	11.517	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-012A,SAMP,1	Run Time (min):	8.49
Vial Number:	36	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 14:23	Sample Weight:	1.0000

Chromatogram



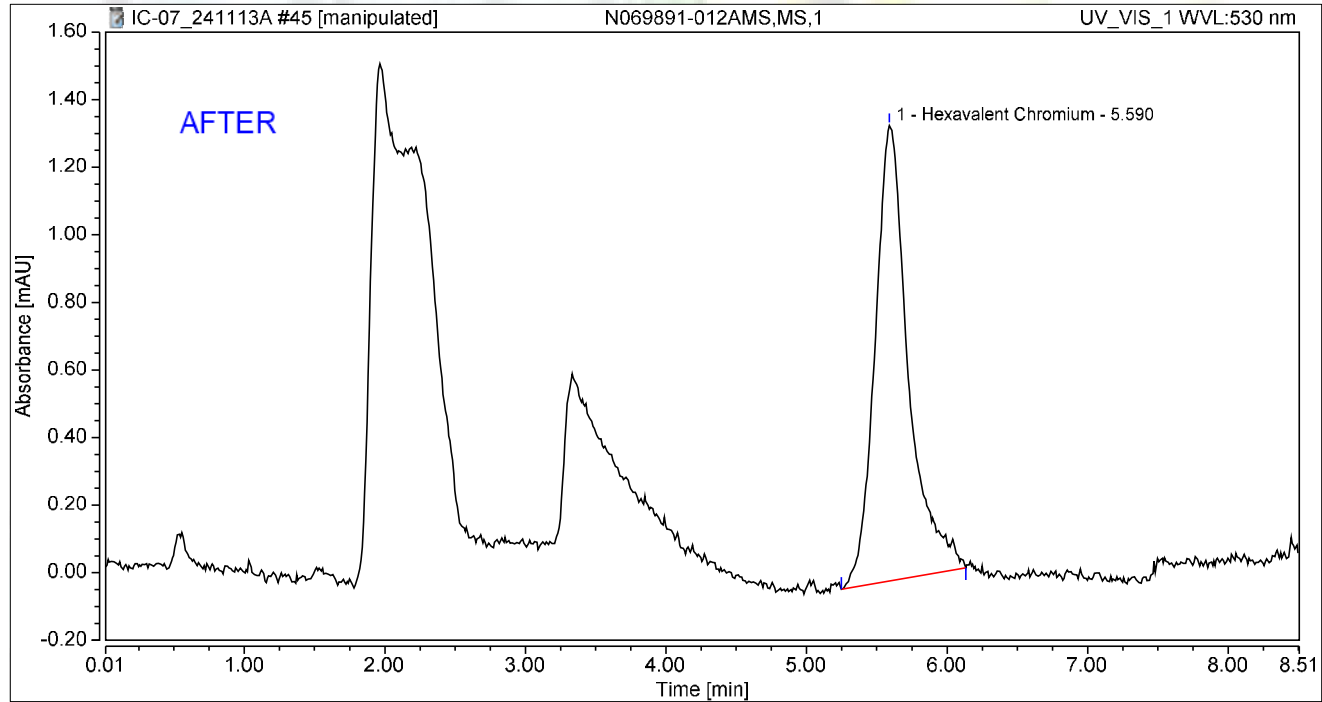
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.615	0.072	0.329	100.00	100.00	0.2536
Total:			0.072	0.329	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069891-012AMS,MS,1	Run Time (min): 8.49
Vial Number:	37	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	13/Nov/24 14:33	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.590	0.370	1.349	100.00	100.00	1.3039
Total:			0.370	1.349	100.00	100.00	

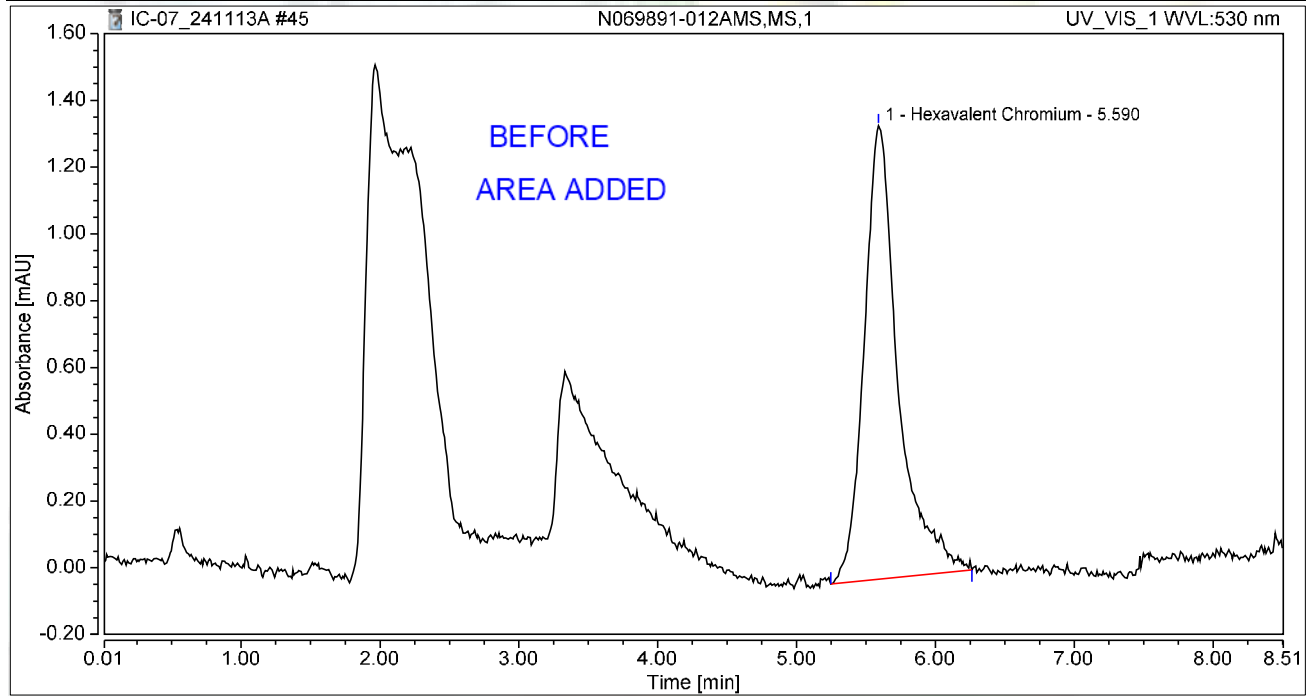
Reviewed by
 11/14/2024

Chromatogram and Results

Injection Details

Injection Name:	N069891-012AMS,MS,1	Run Time (min):	8.49
Vial Number:	37	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 14:33	Sample Weight:	1.0000

Chromatogram



Integration Results

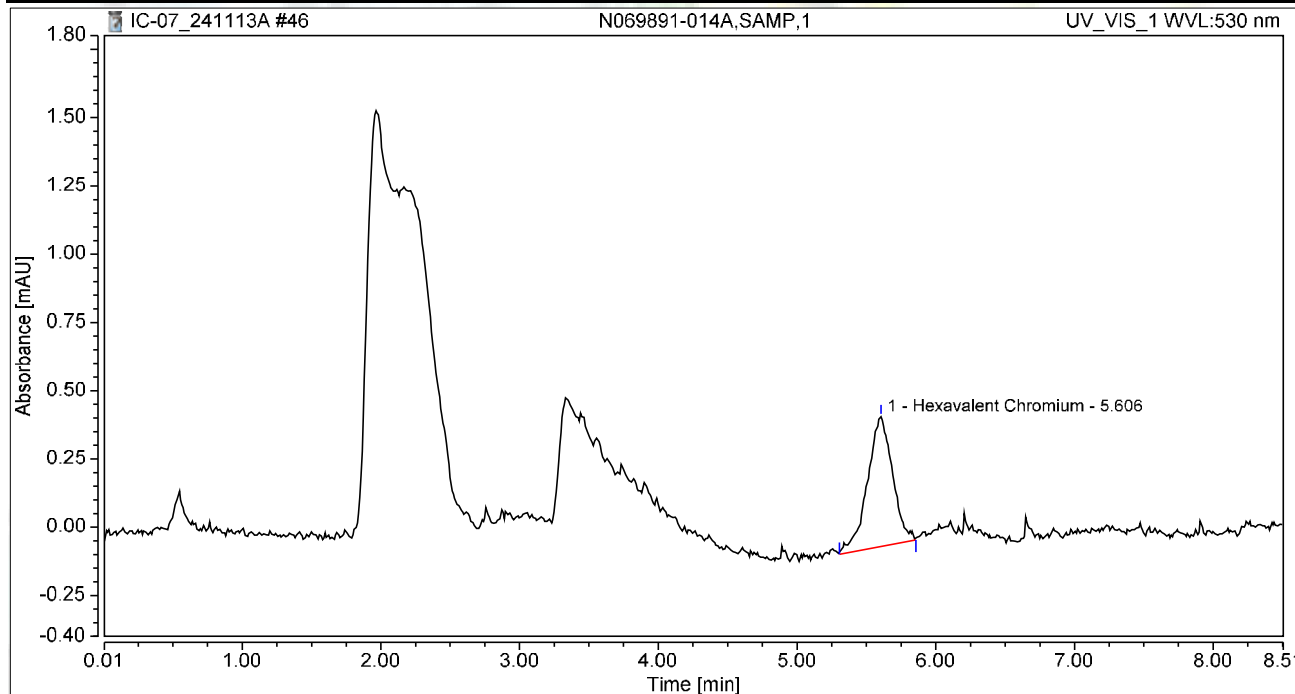
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.590	0.384	1.359	100.00	100.00	1.3548
Total:			0.384	1.359	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-014A,SAMP,1	Run Time (min):	8.50
Vial Number:	38	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 14:42	Sample Weight:	1.0000

Chromatogram



Integration Results

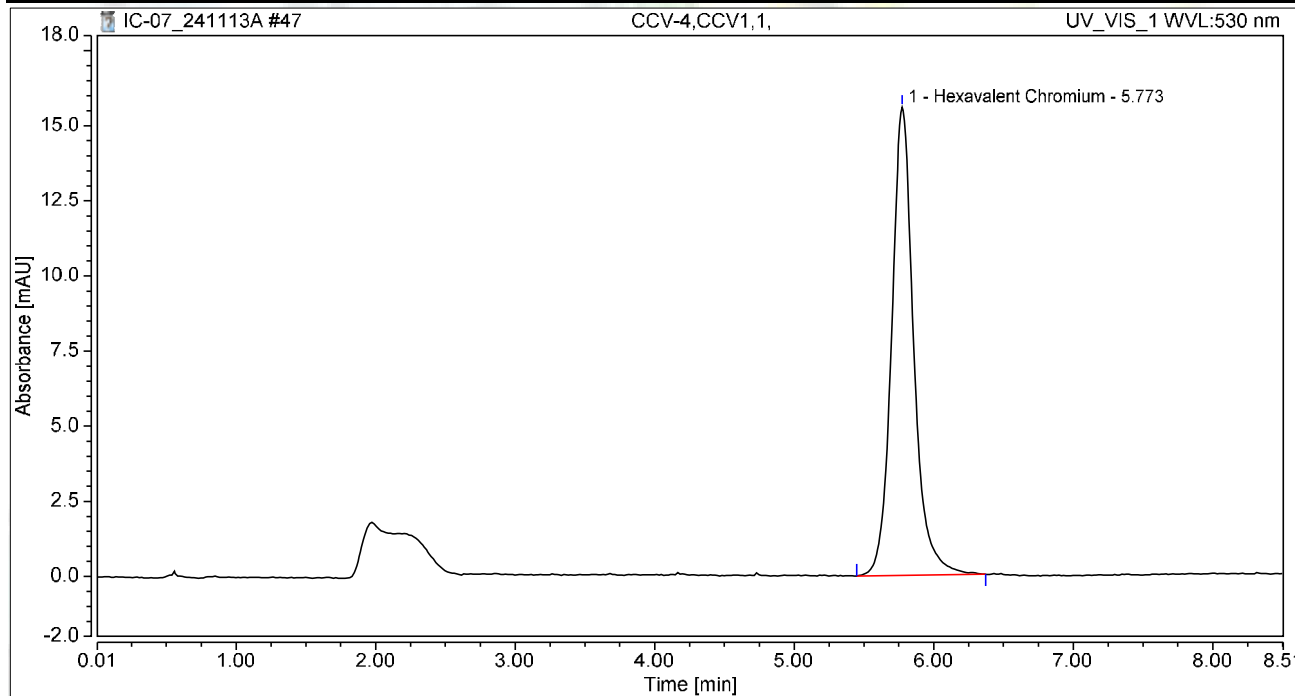
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.606	0.099	0.475	100.00	100.00	0.3505
Total:			0.099	0.475	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-4,CCV1,1,	Run Time (min):	8.50
Vial Number:	39	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 14:52	Sample Weight:	1.0000

Chromatogram



Integration Results

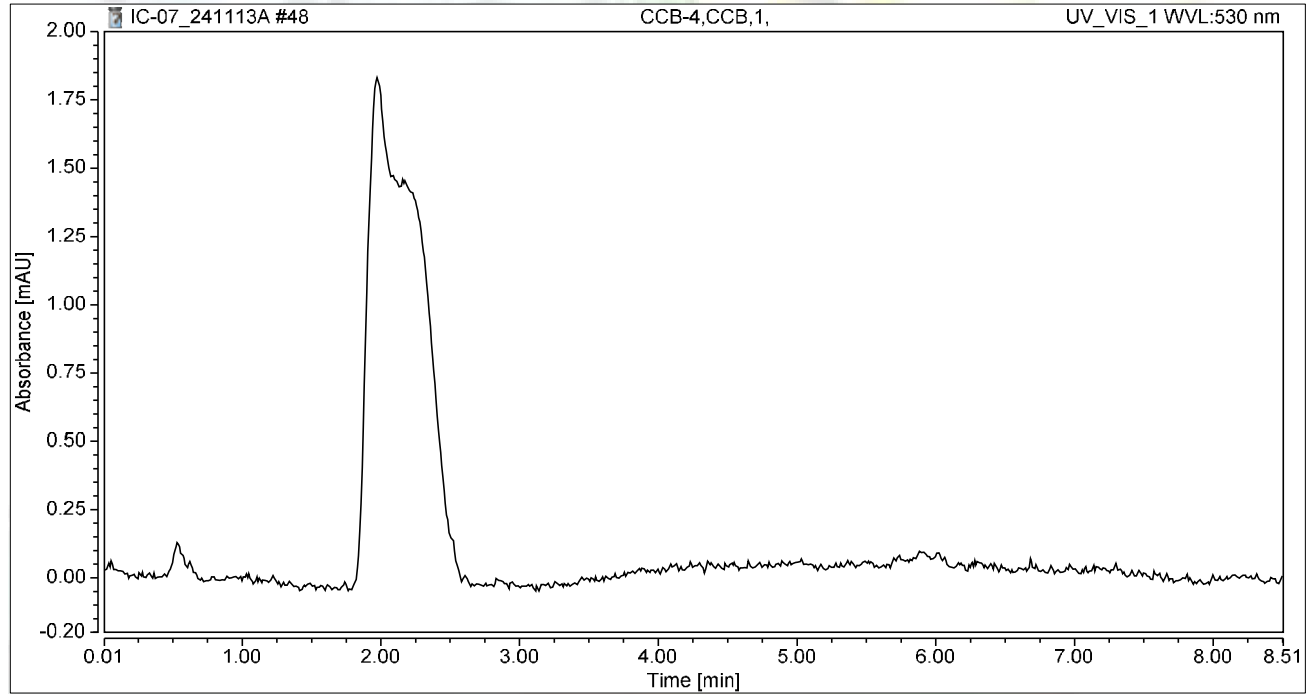
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.773	2.855	15.581	100.00	100.00	10.0600
Total:			2.855	15.581	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-4,CCB,1,	Run Time (min):	8.50
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 15:01	Sample Weight:	1.0000

Chromatogram



Integration Results

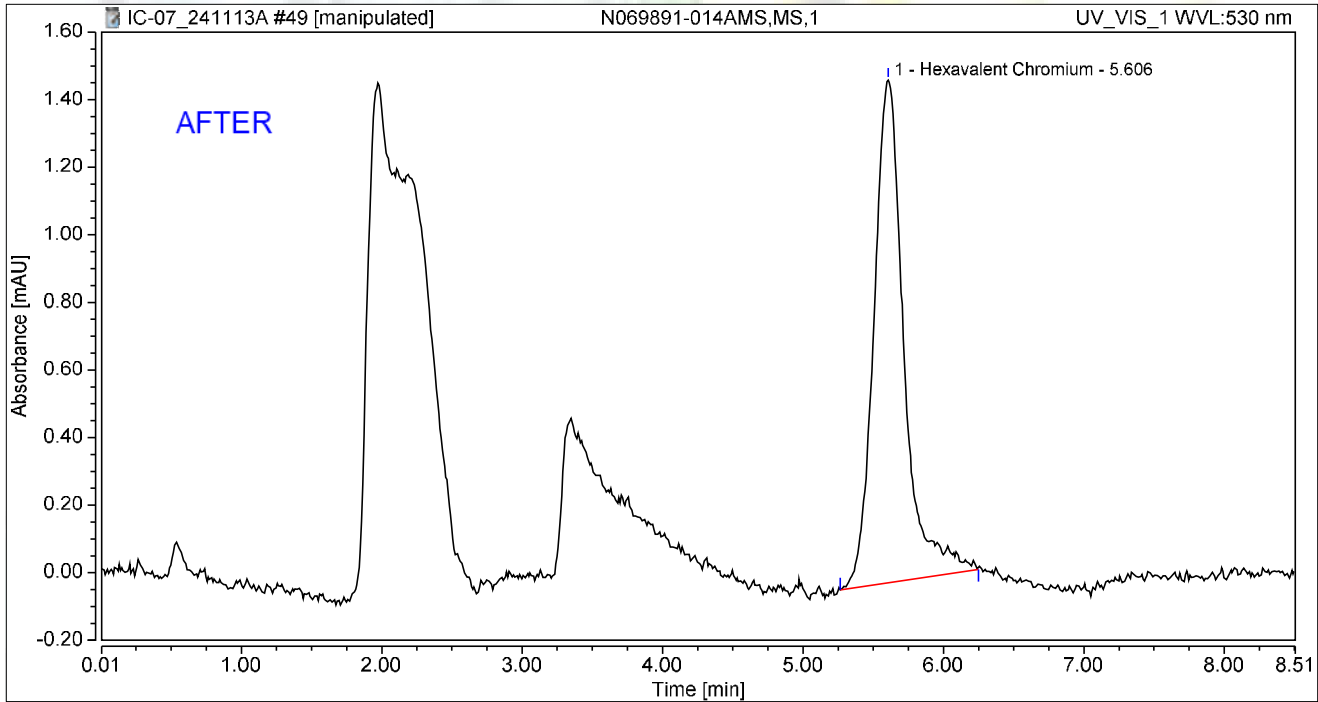
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-014AMS,MS,1	Run Time (min):	8.50
Vial Number:	41	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 15:11	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.606	0.368	1.488	100.00	100.00	1.2974
Total:			0.368	1.488	100.00	100.00	

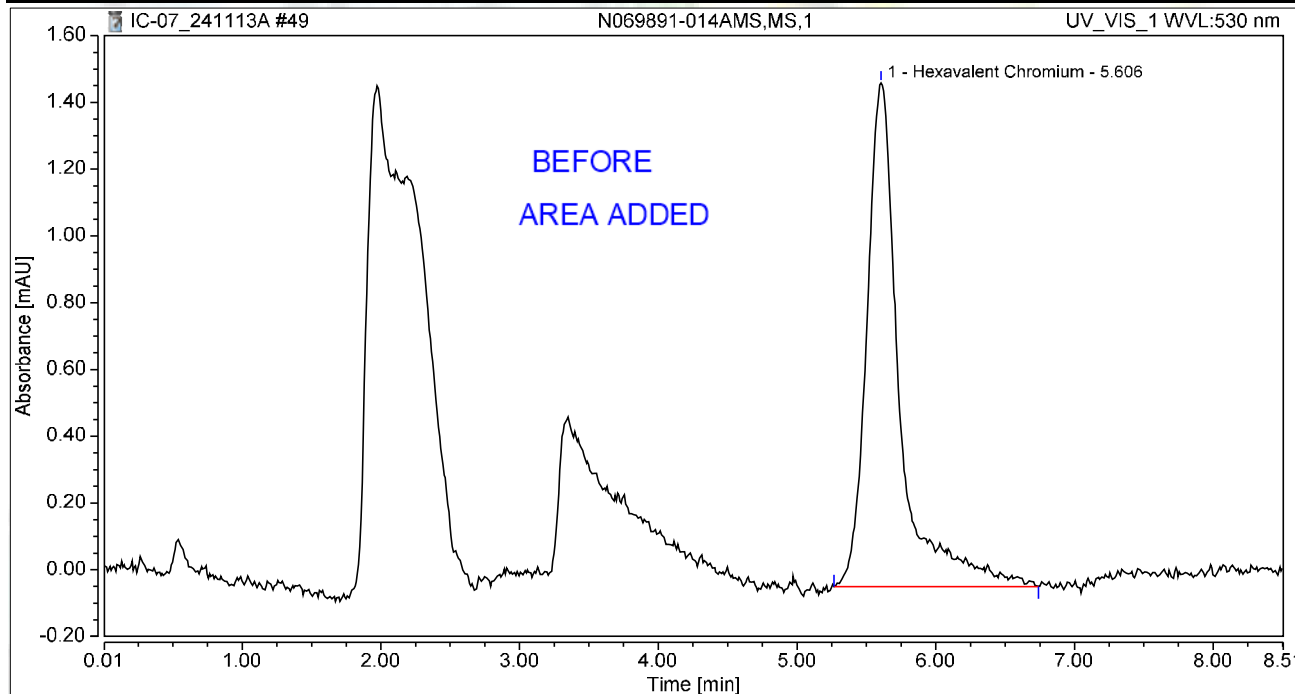
Reviewed by
 11/14/2024

Chromatogram and Results

Injection Details

Injection Name:	N069891-014AMS,MS,1	Run Time (min):	8.50
Vial Number:	41	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 15:11	Sample Weight:	1.0000

Chromatogram



Integration Results

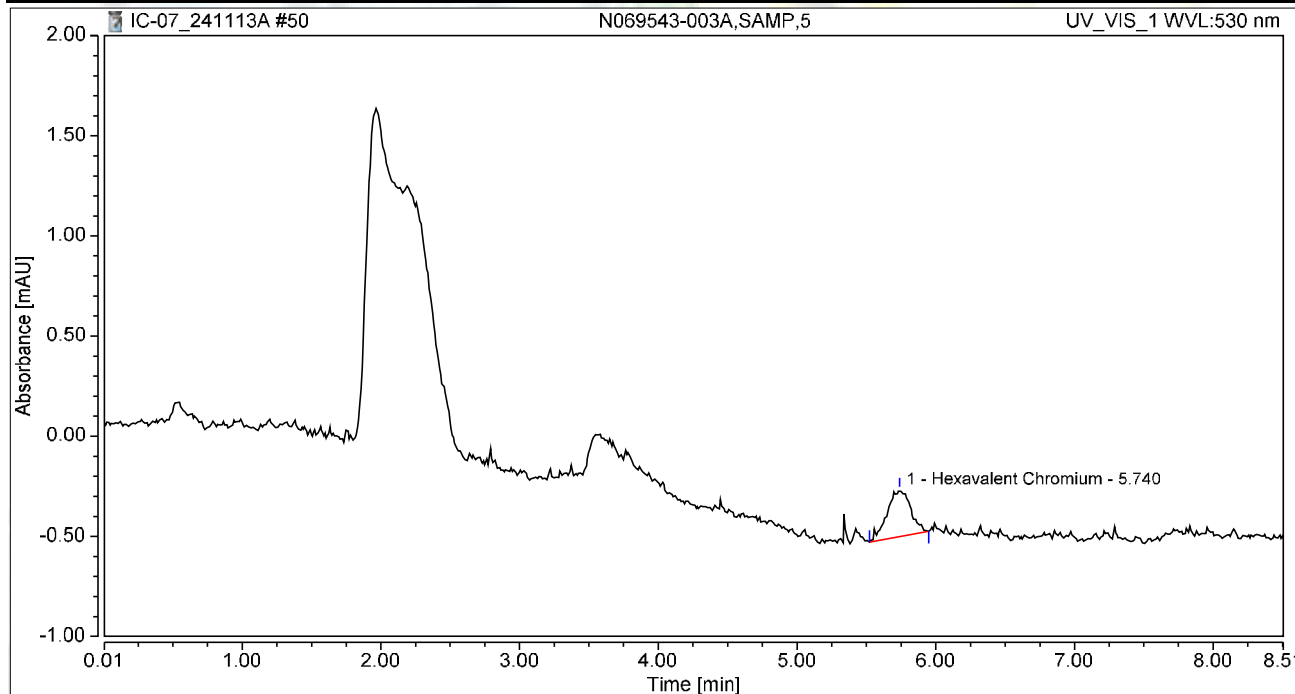
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.606	0.414	1.509	100.00	100.00	1.4601
Total:			0.414	1.509	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-003A,SAMP,5	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 15:36	Sample Weight:	1.0000

Chromatogram



Integration Results

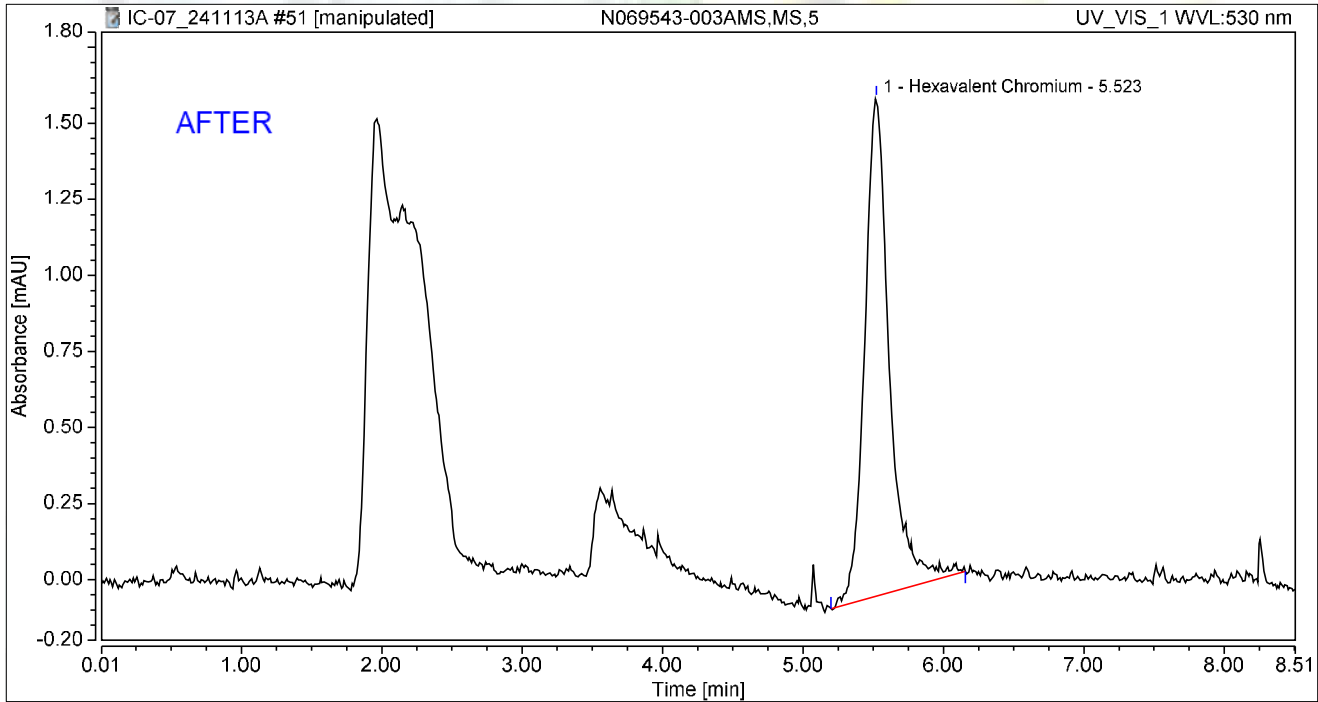
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	0.046	0.234	100.00	100.00	0.1617
Total:			0.046	0.234	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-003AMS,MS,5	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 15:48	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.523	0.336	1.638	100.00	100.00	1.1827
Total:			0.336	1.638	100.00	100.00	

Reviewed by

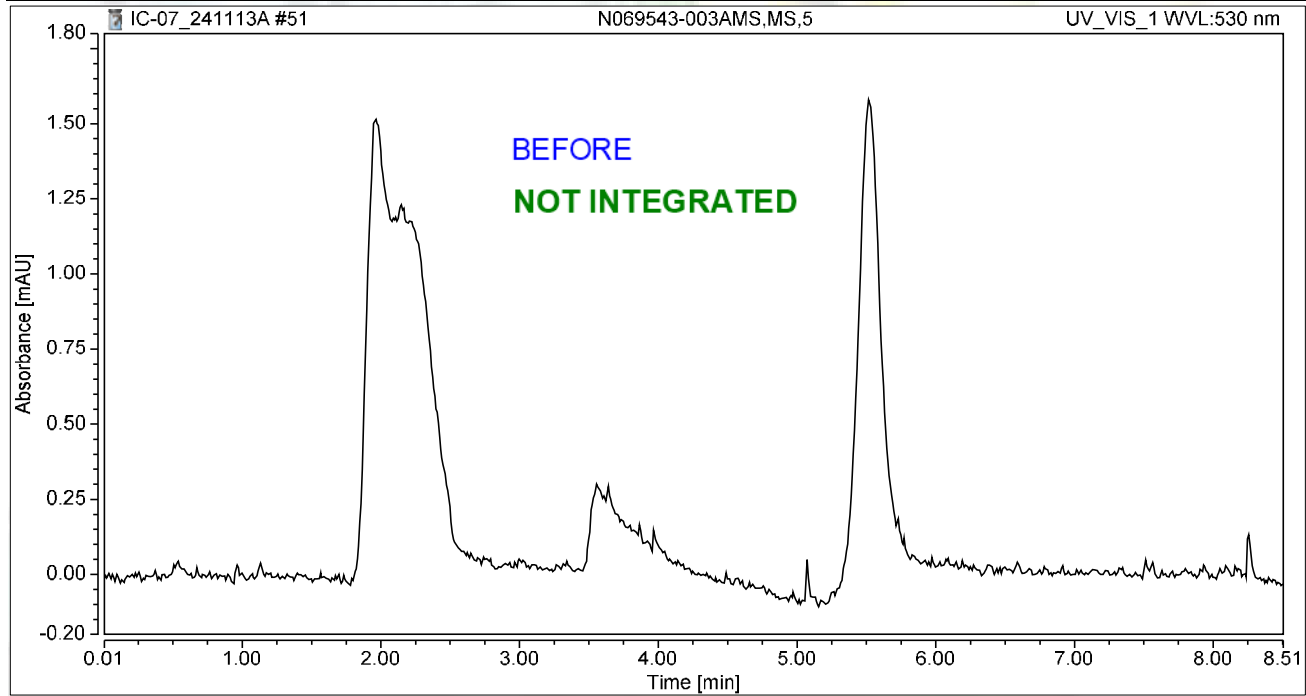
Nancy 11/14/2024

Chromatogram and Results

Injection Details

Injection Name:	N069543-003AMS,MS,5	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 15:48	Sample Weight:	1.0000

Chromatogram



Integration Results

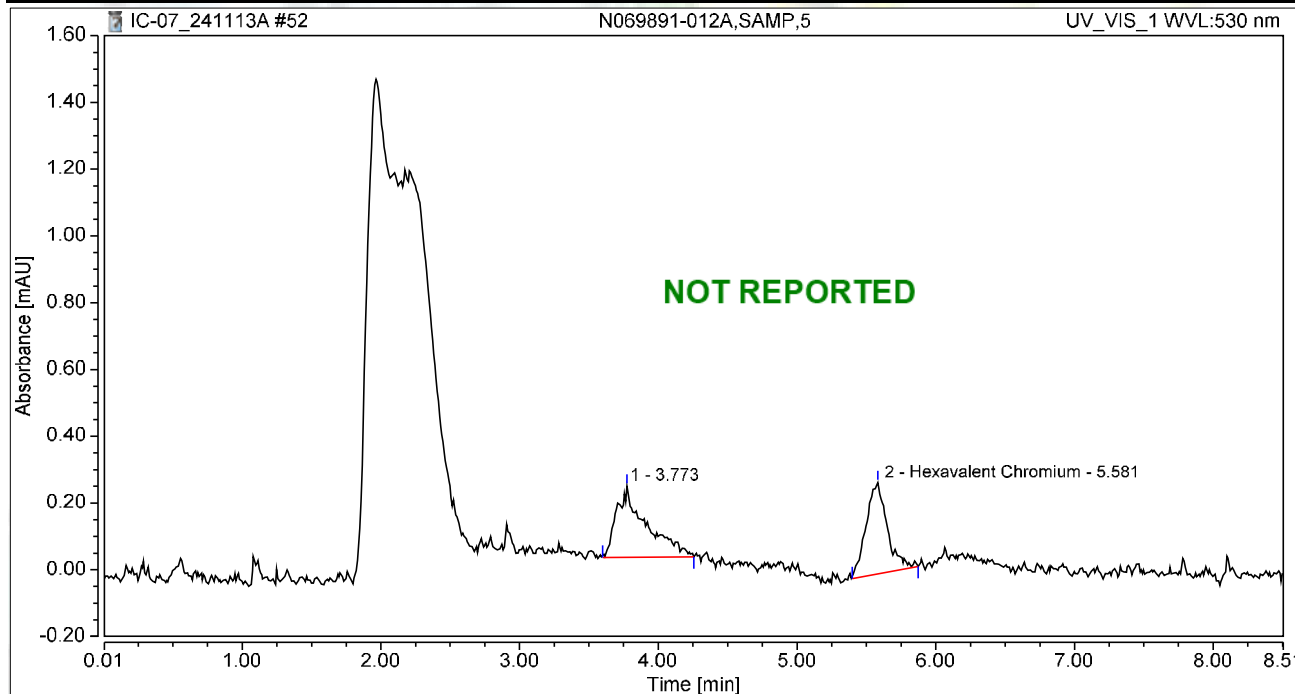
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-012A,SAMP,5	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 15:58	Sample Weight:	1.0000

Chromatogram



Integration Results

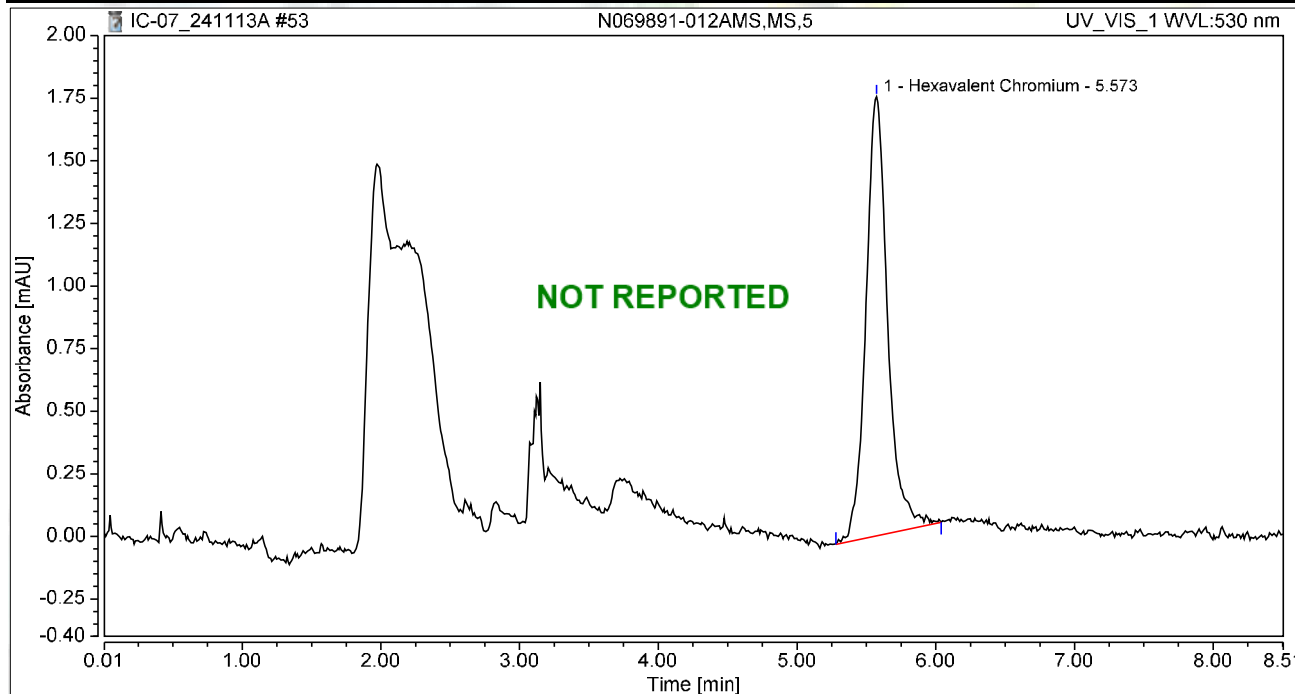
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.773	0.053	0.213	52.12	43.80	n.a.
2	Hexavalent Chromium	5.581	0.048	0.273	47.88	56.20	0.1709
Total:			0.101	0.486	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-012AMS,MS,5	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 16:07	Sample Weight:	1.0000

Chromatogram



Integration Results

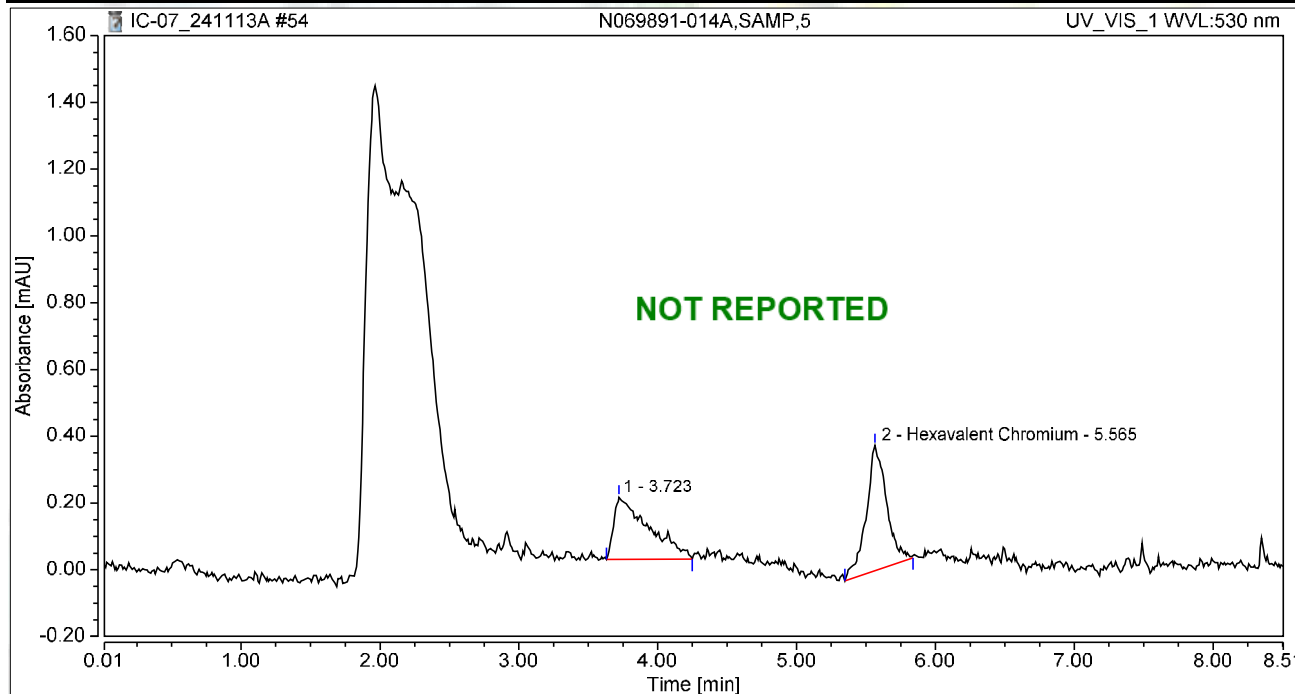
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.573	0.318	1.753	100.00	100.00	1.1210
Total:			0.318	1.753	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-014A,SAMP,5	Run Time (min):	8.49
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 16:16	Sample Weight:	1.0000

Chromatogram



Integration Results

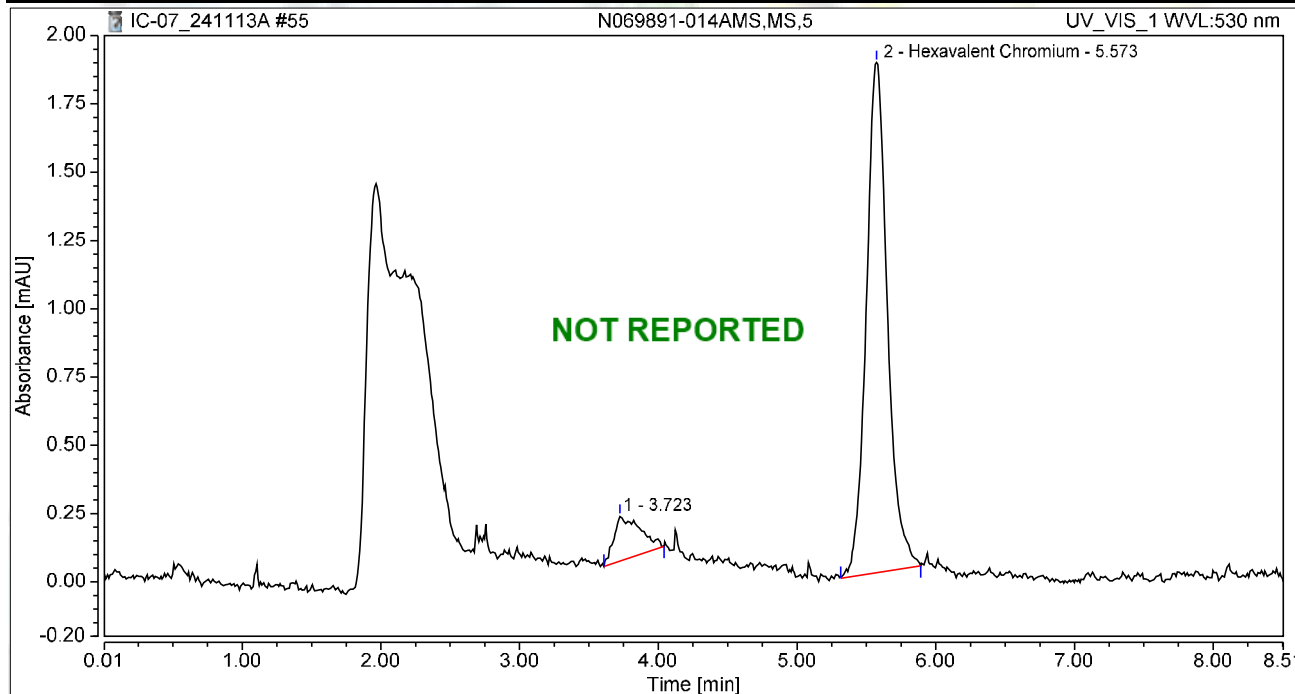
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.723	0.054	0.187	46.16	33.24	n.a.
2	Hexavalent Chromium	5.565	0.063	0.375	53.84	66.76	0.2230
Total:			0.118	0.562	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-014AMS,MS,5	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 16:26	Sample Weight:	1.0000

Chromatogram



Integration Results

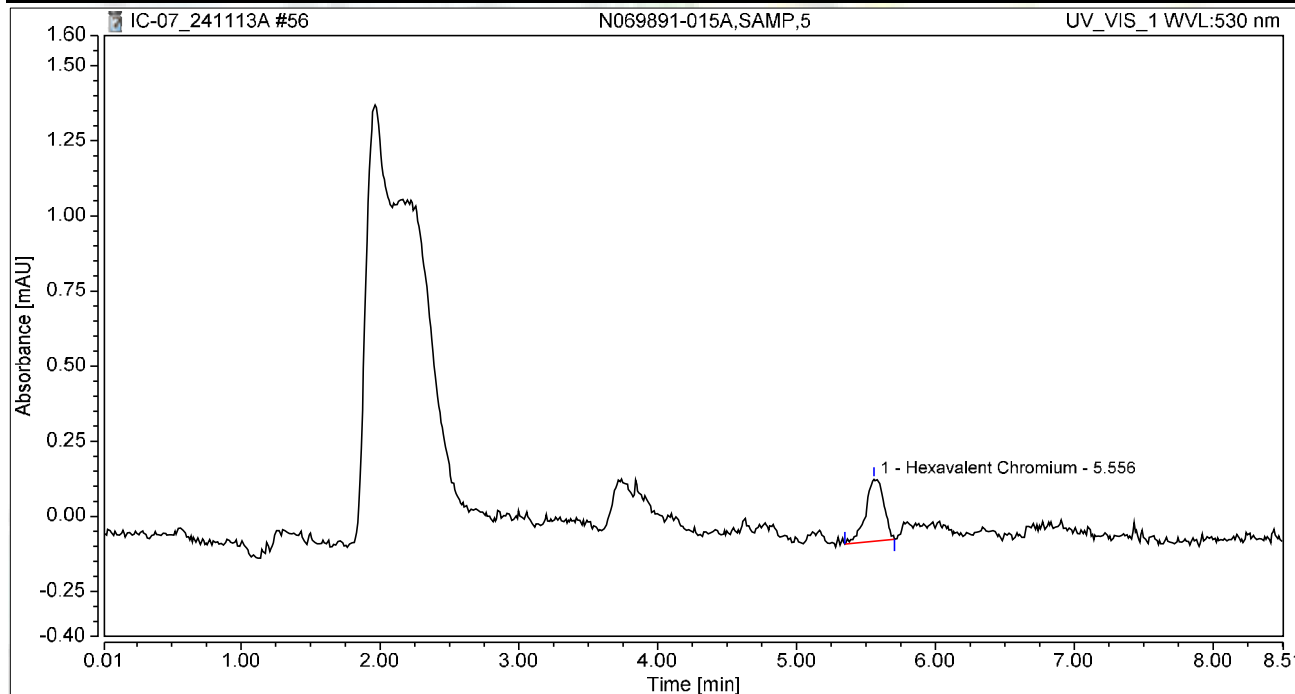
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.723	0.035	0.163	9.63	8.04	n.a.
2	Hexavalent Chromium	5.573	0.330	1.868	90.37	91.96	1.1643
Total:			0.366	2.031	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-015A,SAMP,5	Run Time (min):	8.49
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 16:35	Sample Weight:	1.0000

Chromatogram



Integration Results

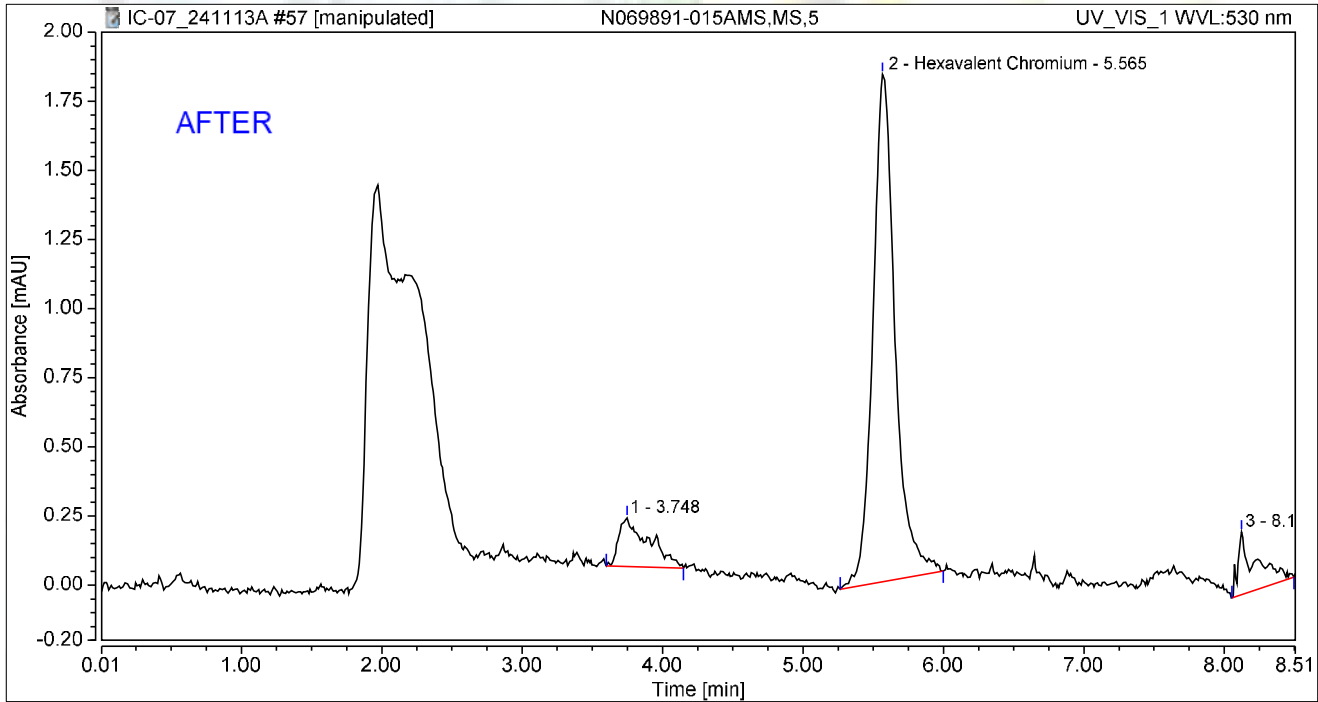
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.556	0.031	0.206	100.00	100.00	0.1096
Total:			0.031	0.206	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-015AMS,MS,5	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 16:45	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.748	0.043	0.176	10.50	7.87	n.a.
2	Hexavalent Chromium	5.565	0.336	1.836	81.37	82.02	1.1838
3		8.123	0.034	0.226	8.13	10.11	n.a.
Total:			0.413	2.238	100.00	100.00	

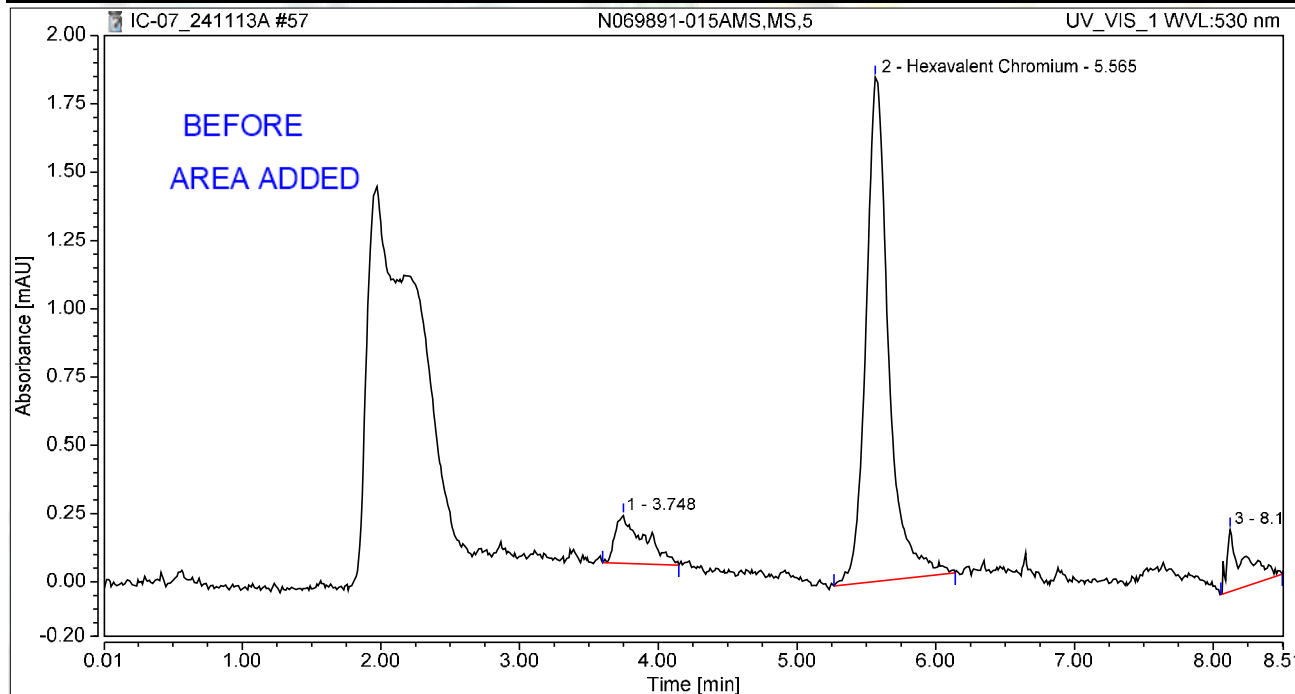
Reviewed by
 11/14/2024

Chromatogram and Results

Injection Details

Injection Name:	N069891-015AMS,MS,5	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 16:45	Sample Weight:	1.0000

Chromatogram



Integration Results

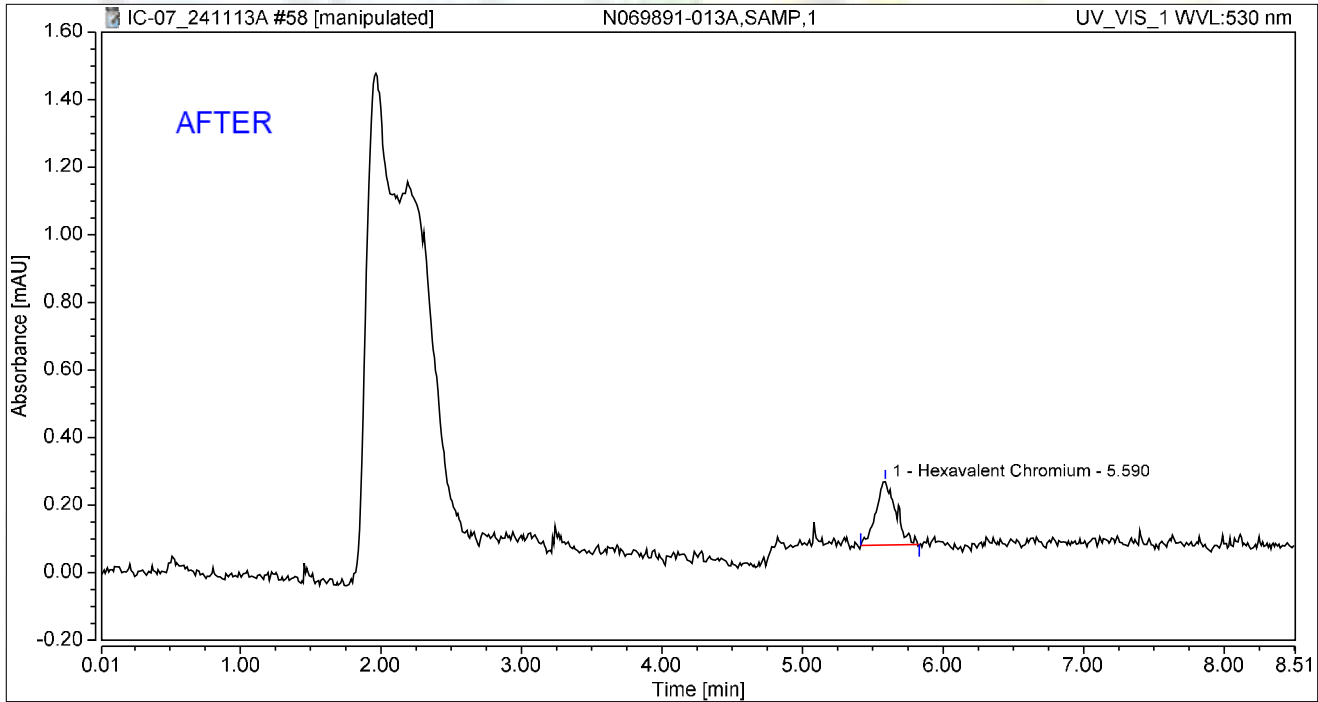
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.748	0.043	0.176	10.18	7.83	n.a.
2	Hexavalent Chromium	5.565	0.349	1.846	81.94	82.11	1.2294
3		8.123	0.034	0.226	7.88	10.06	n.a.
Total:			0.426	2.249	100.00	100.00	

Chromatogram and Results

Injection Details


Injection Name:	N069891-013A,SAMP,1	Run Time (min):	8.49
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 16:54	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.590	0.031	0.187	100.00	100.00	0.1100
Total:			0.031	0.187	100.00	100.00	

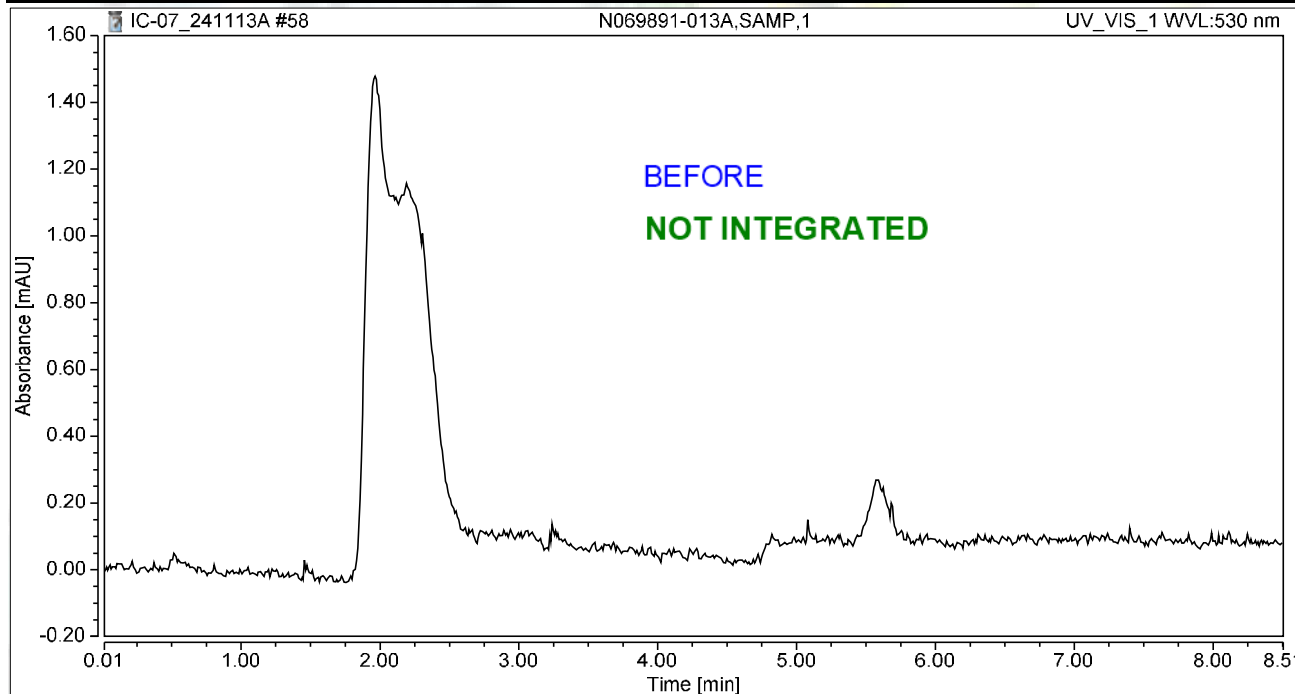
Reviewed by
 11/14/2024

Chromatogram and Results

Injection Details

Injection Name:	N069891-013A,SAMP,1	Run Time (min):	8.49
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 16:54	Sample Weight:	1.0000

Chromatogram



Integration Results

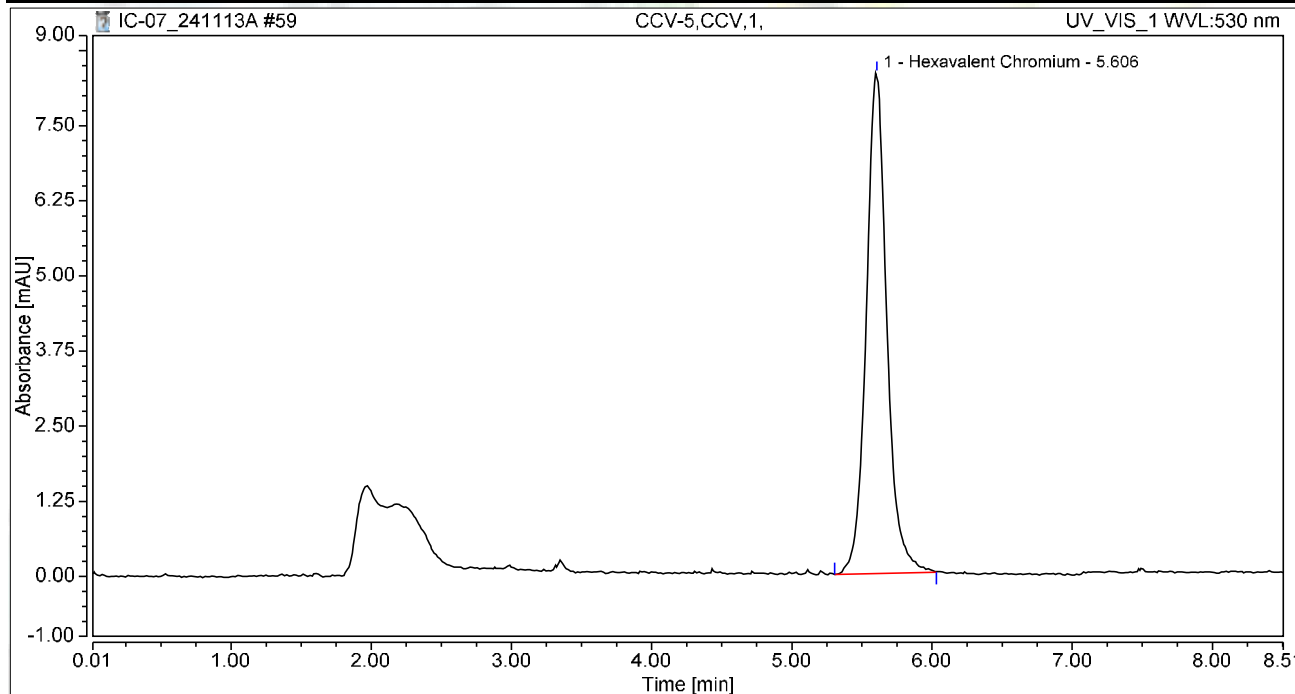
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.49
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 17:04	Sample Weight:	1.0000

Chromatogram



Integration Results

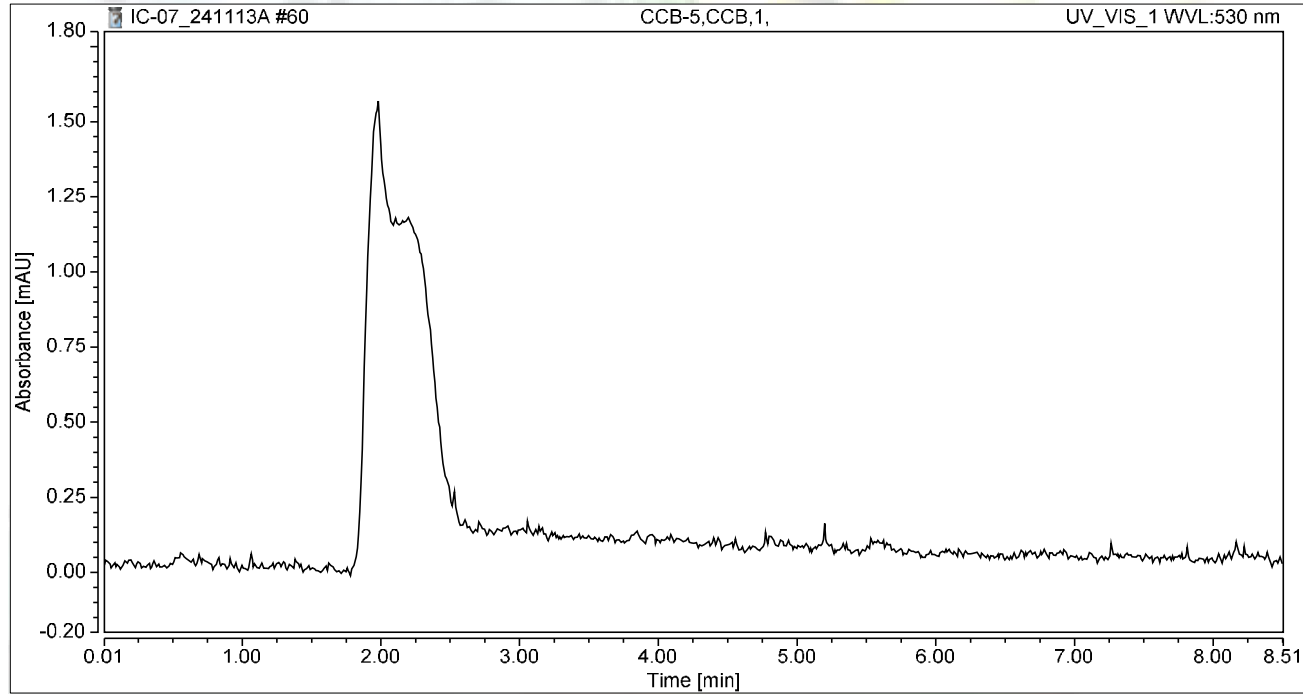
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.606	1.418	8.326	100.00	100.00	4.9968
Total:			1.418	8.326	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 17:13	Sample Weight:	1.0000

Chromatogram



Integration Results

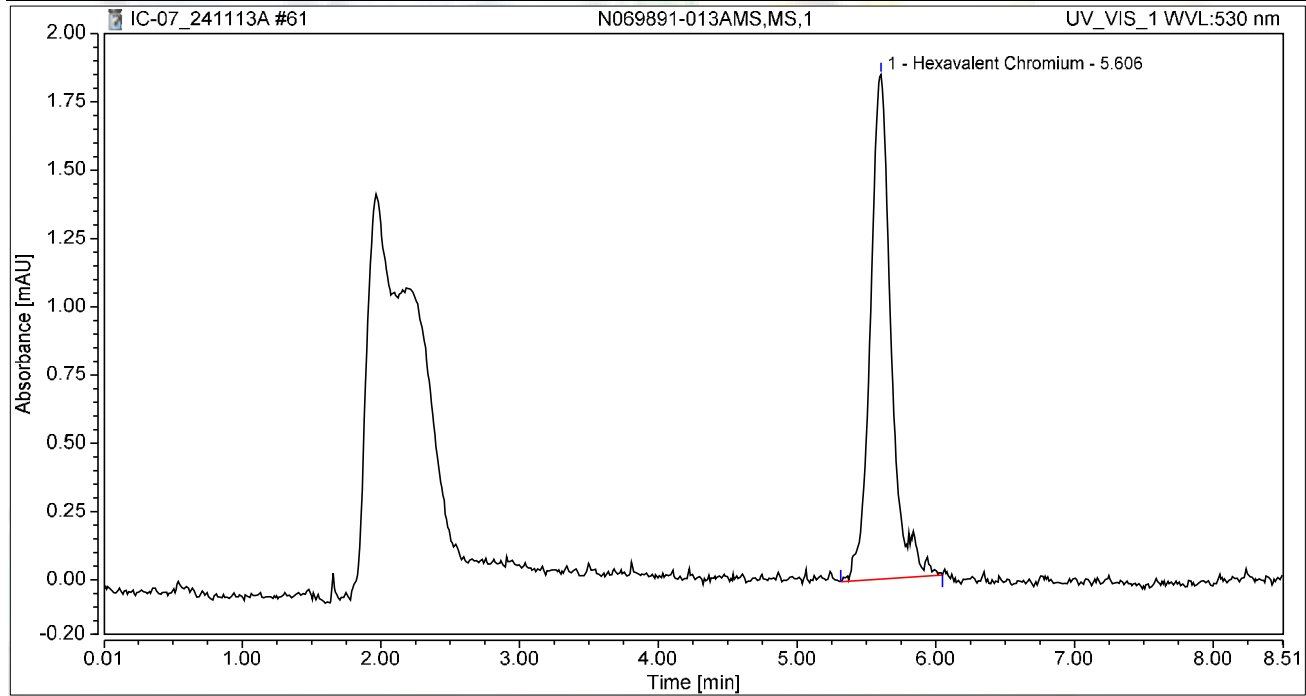
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-013AMS,MS,1	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 17:23	Sample Weight:	1.0000

Chromatogram



Integration Results

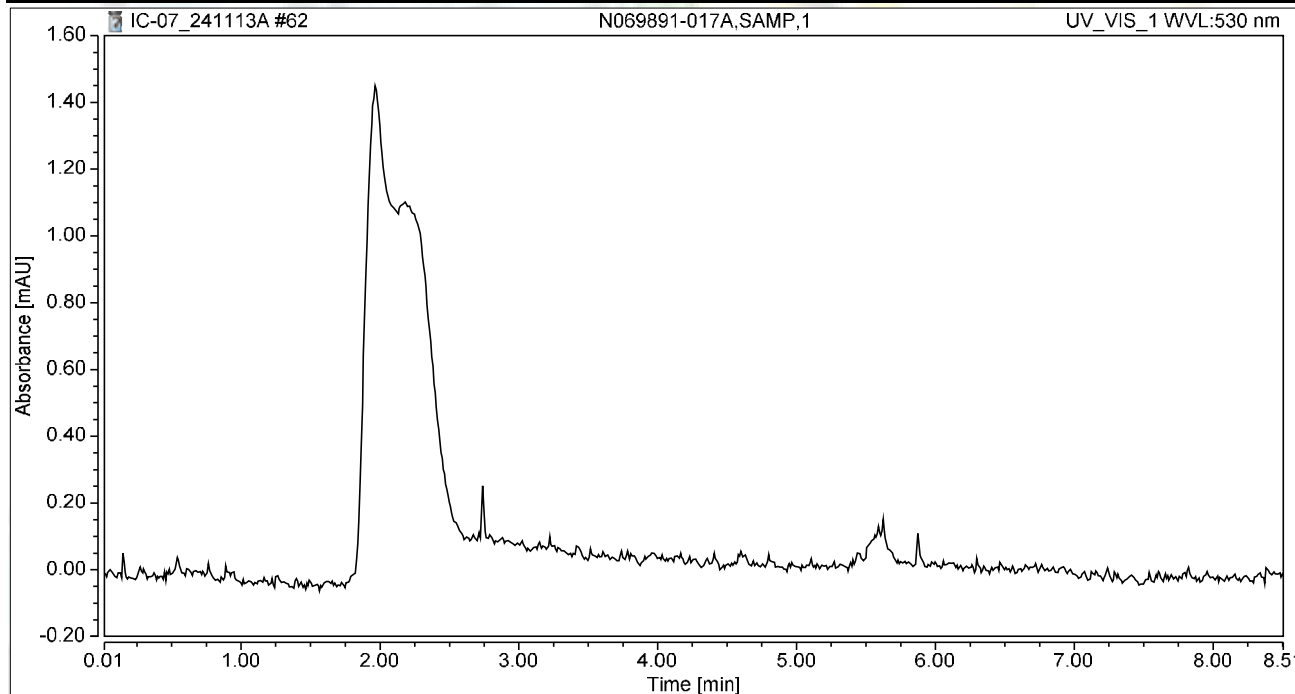
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.606	0.320	1.847	100.00	100.00	1.1280
Total:			0.320	1.847	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-017A,SAMP,1	Run Time (min):	8.49
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 17:32	Sample Weight:	1.0000

Chromatogram



Integration Results

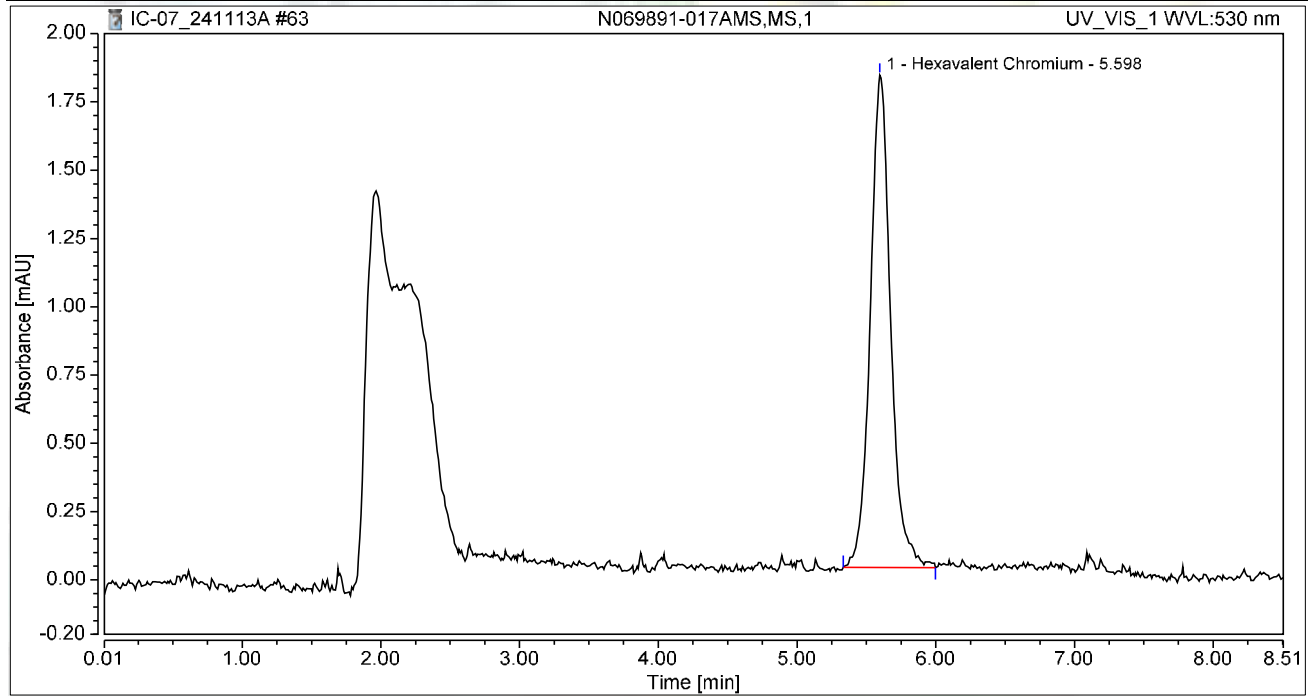
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-017AMS,MS,1	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 17:42	Sample Weight:	1.0000

Chromatogram



Integration Results

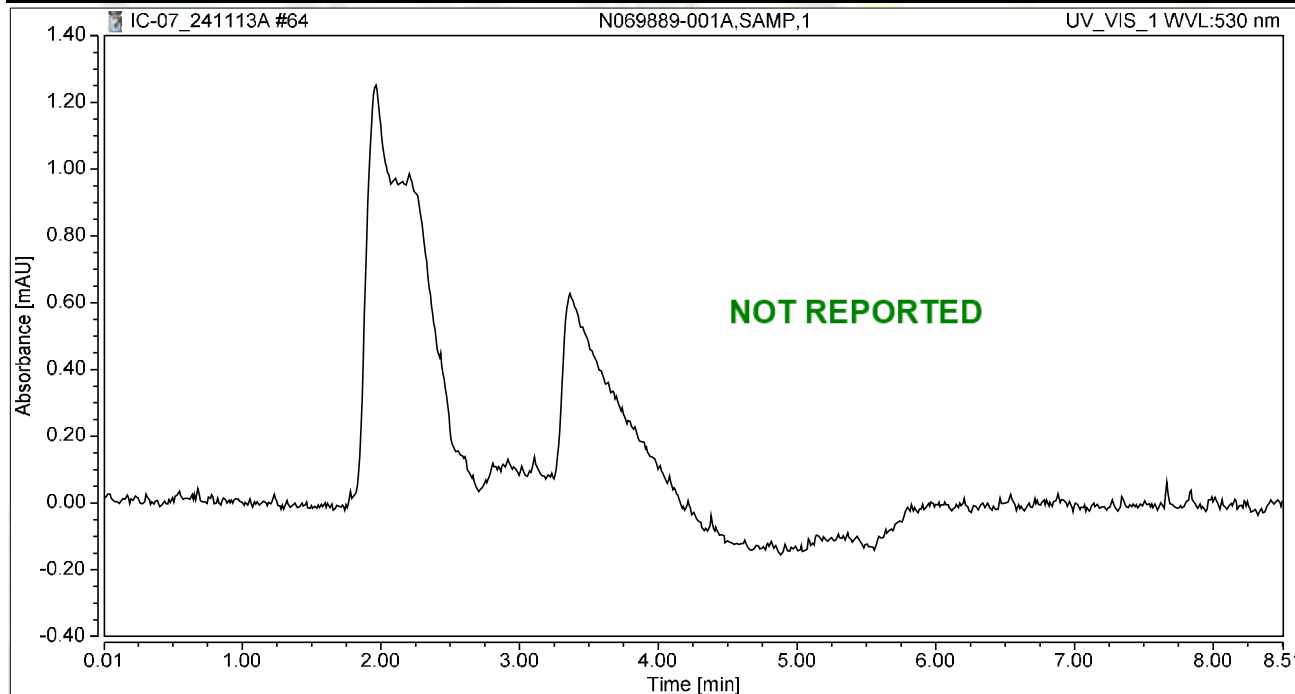
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.598	0.307	1.803	100.00	100.00	1.0822
Total:			0.307	1.803	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069889-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 17:51	Sample Weight:	1.0000

Chromatogram



Integration Results

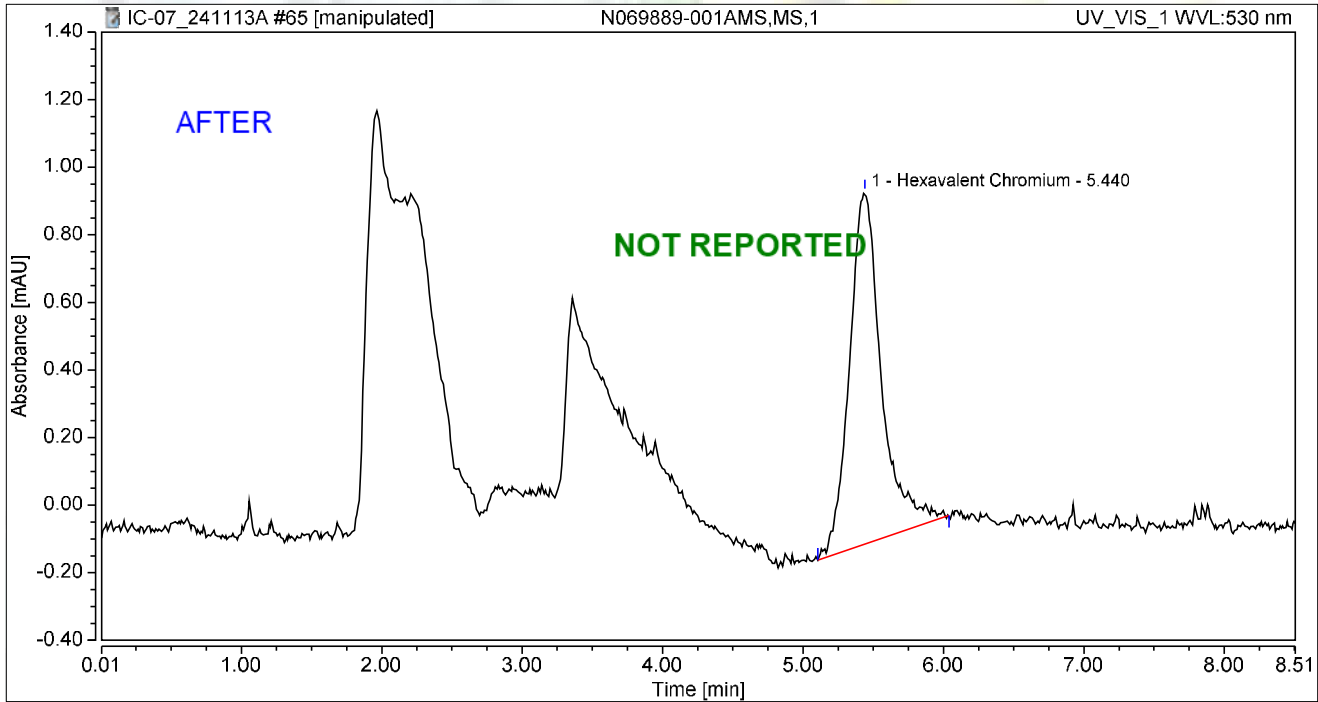
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069889-001AMS,MS,1	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 18:01	Sample Weight:	1.0000

Chromatogram



Integration Results

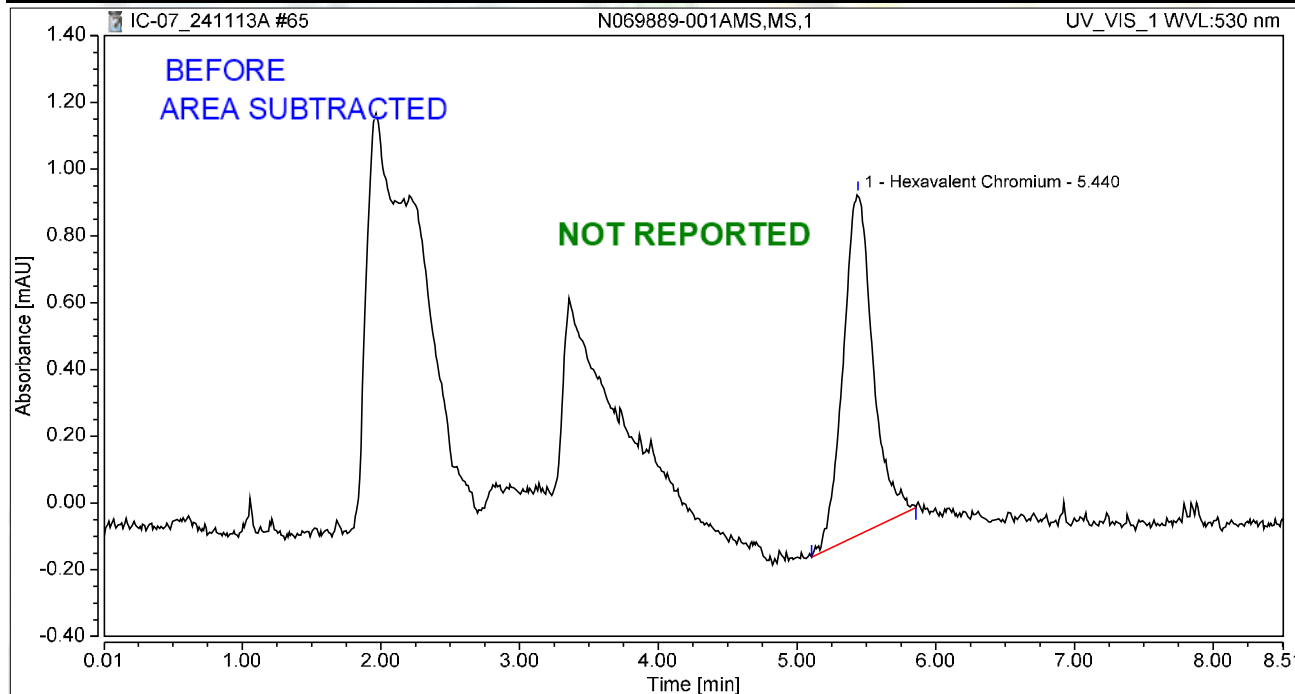
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.440	0.275	1.043	100.00	100.00	0.9675
Total:			0.275	1.043	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069889-001AMS,MS,1	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 18:01	Sample Weight:	1.0000

Chromatogram



Integration Results

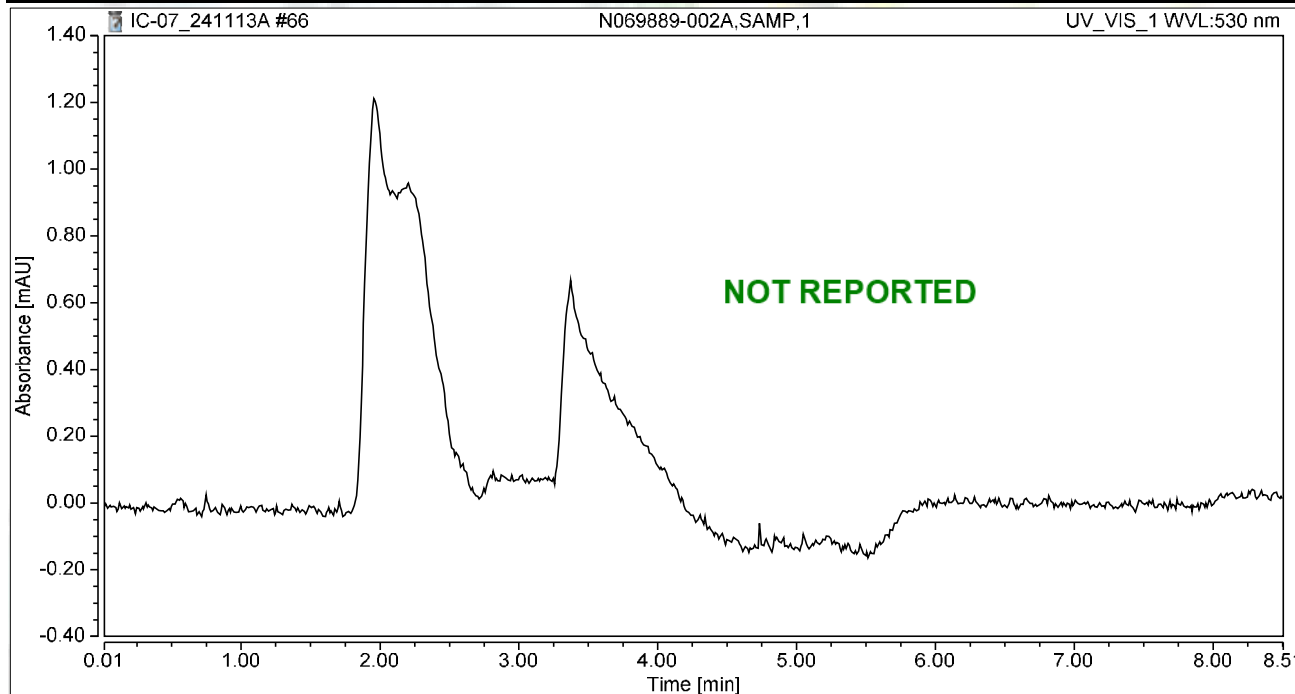
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.440	0.255	1.024	100.00	100.00	0.8978
Total:			0.255	1.024	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069889-002A,SAMP,1	Run Time (min):	8.49
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 18:10	Sample Weight:	1.0000

Chromatogram



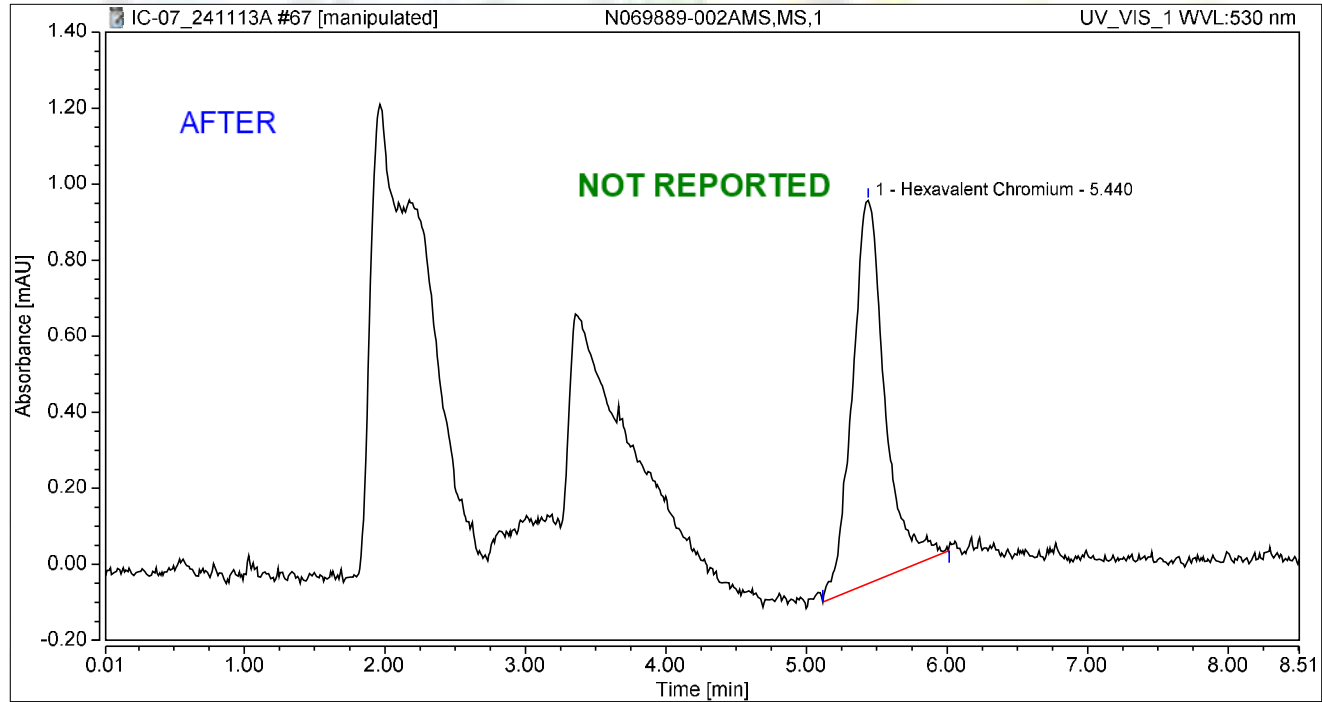
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069889-002AMS,MS,1	Run Time (min): 8.49
Vial Number:	18	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	13/Nov/24 18:19	Sample Weight: 1.0000

Chromatogram



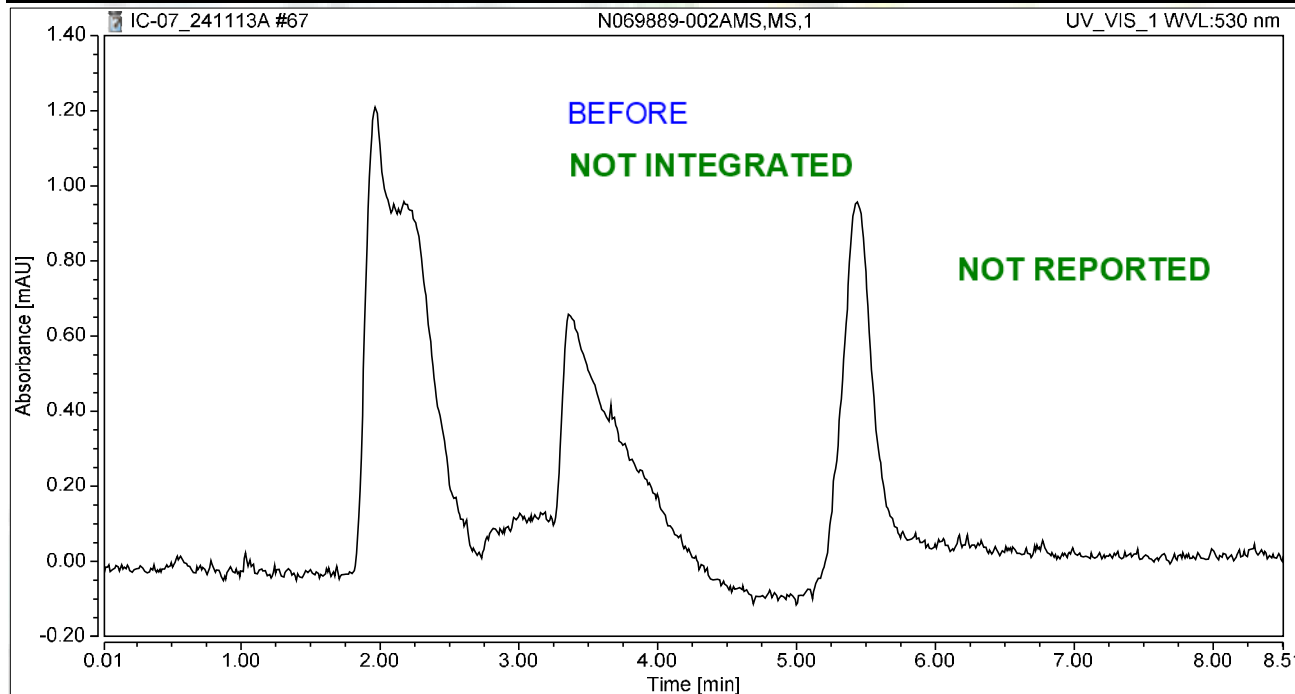
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.440	0.271	1.008	100.00	100.00	0.9564
Total:			0.271	1.008	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069889-002AMS,MS,1	Run Time (min):	8.49
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 18:19	Sample Weight:	1.0000

Chromatogram



Integration Results

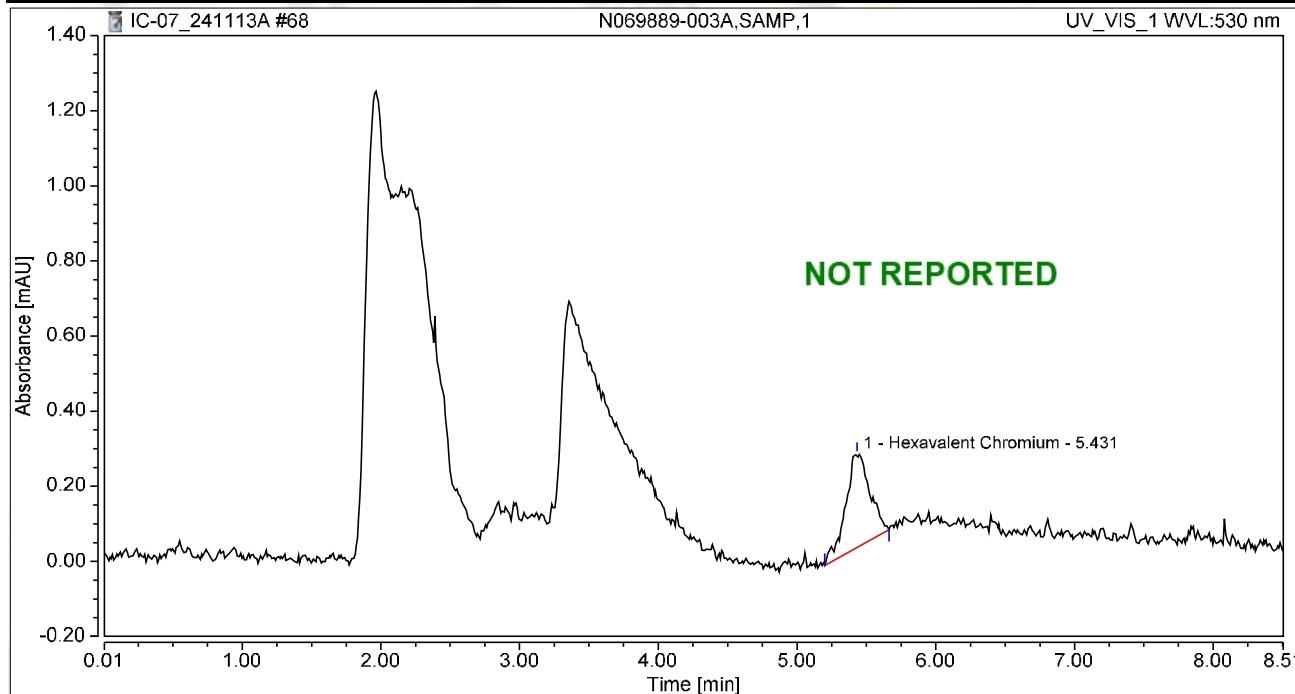
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069889-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 18:29	Sample Weight:	1.0000

Chromatogram



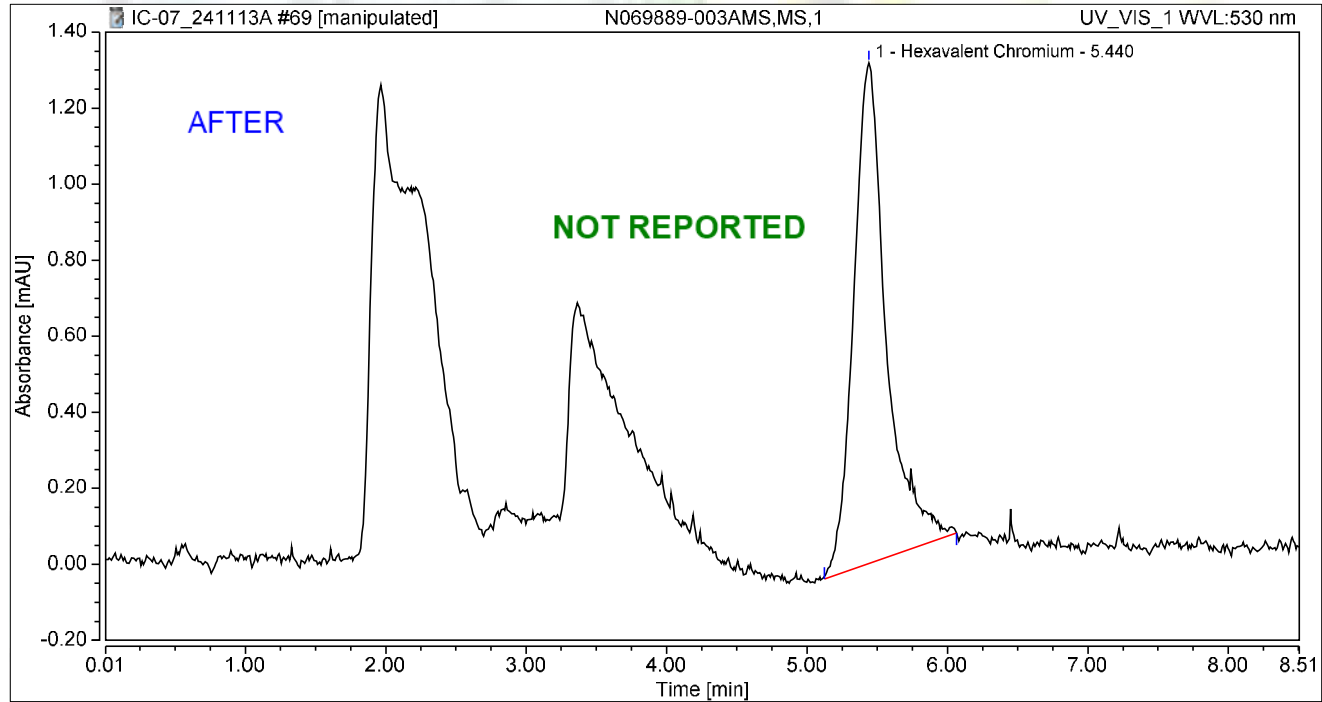
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.431	0.051	0.248	100.00	100.00	0.1782
Total:			0.051	0.248	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069889-003AMS,MS,1	Run Time (min): 8.50
Vial Number:	20	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	13/Nov/24 18:38	Sample Weight: 1.0000

Chromatogram



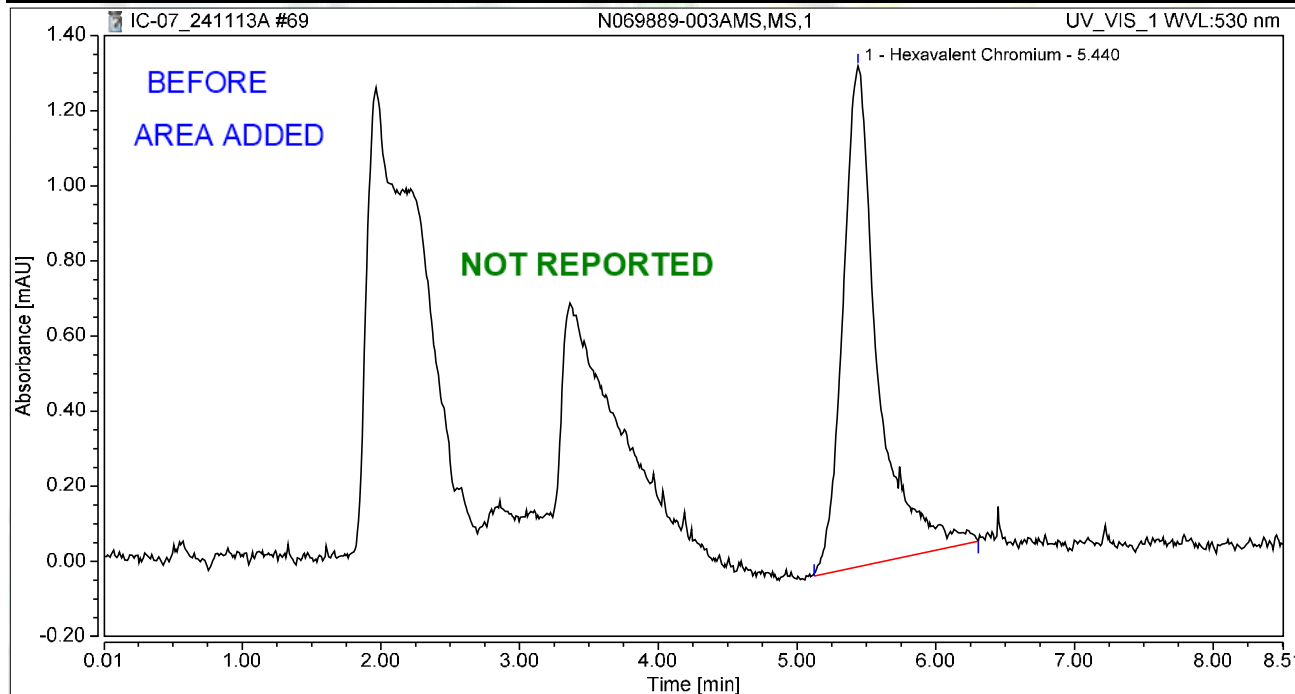
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.440	0.357	1.318	100.00	100.00	1.2590
Total:			0.357	1.318	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069889-003AMS,MS,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 18:38	Sample Weight:	1.0000

Chromatogram



Integration Results

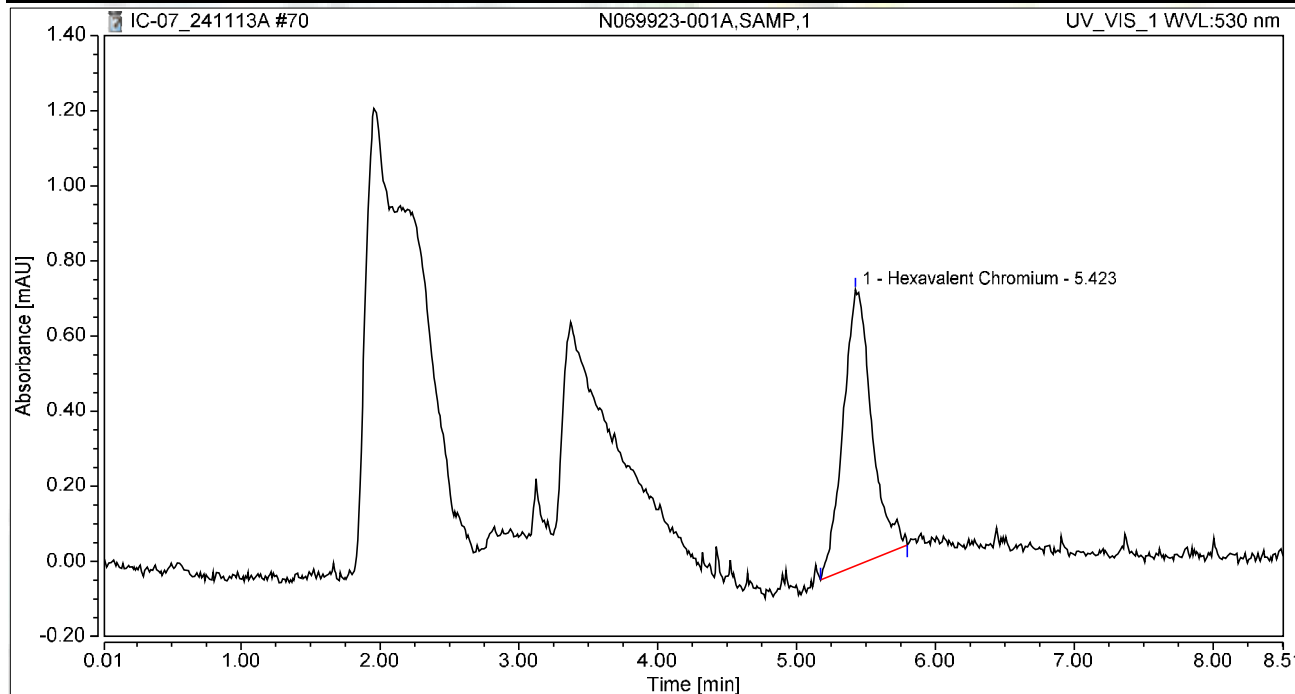
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.440	0.387	1.334	100.00	100.00	1.3631
Total:			0.387	1.334	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069923-001A,SAMP,1	Run Time (min):	8.49
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 18:48	Sample Weight:	1.0000

Chromatogram



Integration Results

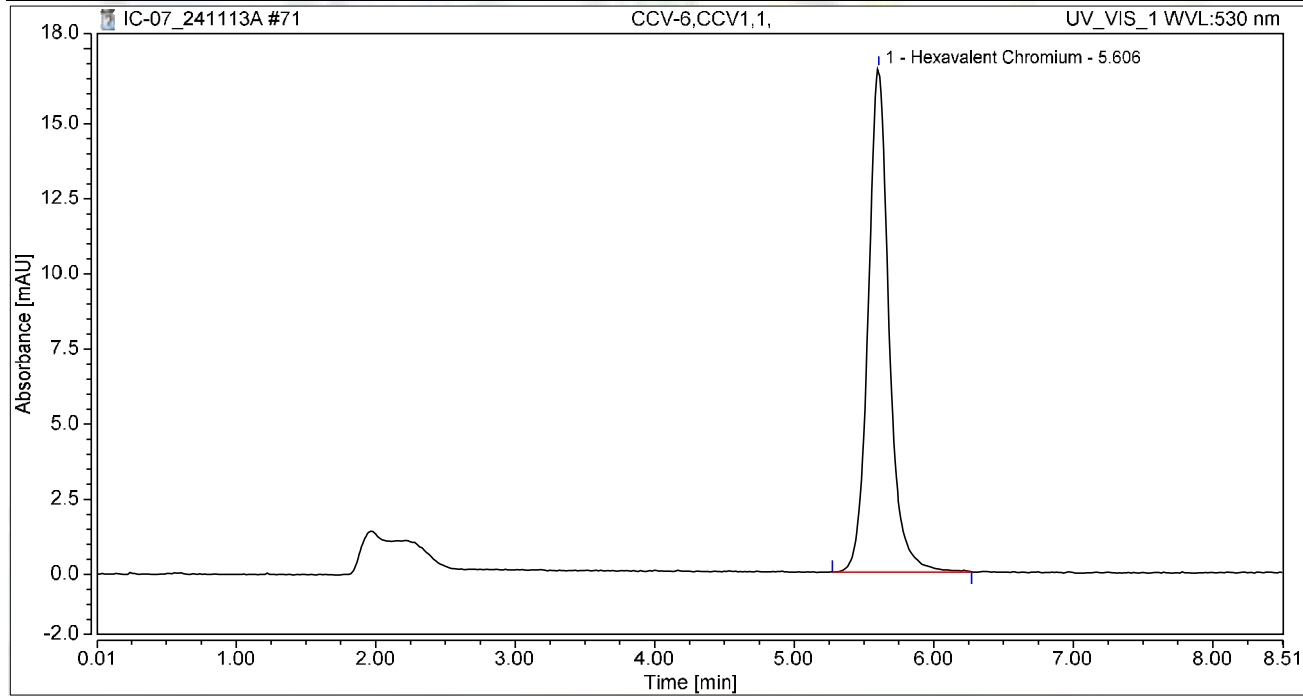
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.423	0.174	0.736	100.00	100.00	0.6142
Total:			0.174	0.736	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-6,CCV1,1,	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 18:57	Sample Weight:	1.0000

Chromatogram



Integration Results

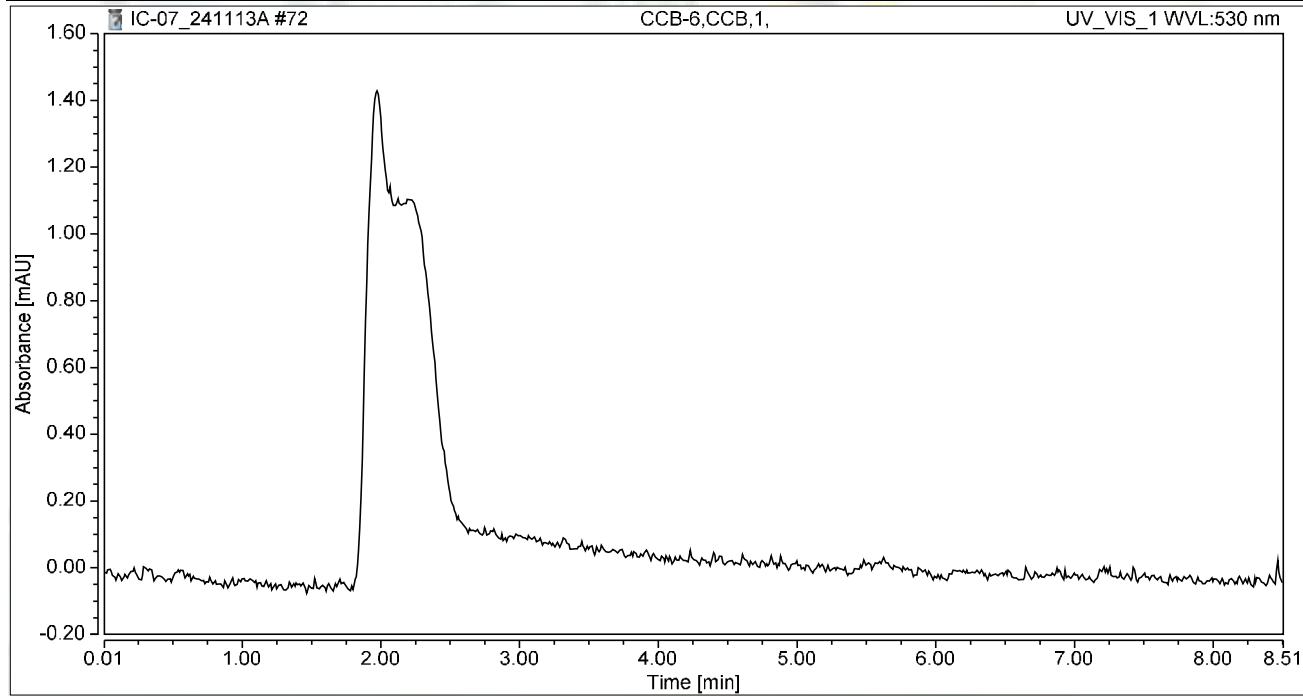
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.606	2.916	16.776	100.00	100.00	10.2750
Total:			2.916	16.776	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-6,CCB,1,	Run Time (min):	8.50
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 19:07	Sample Weight:	1.0000

Chromatogram



Integration Results

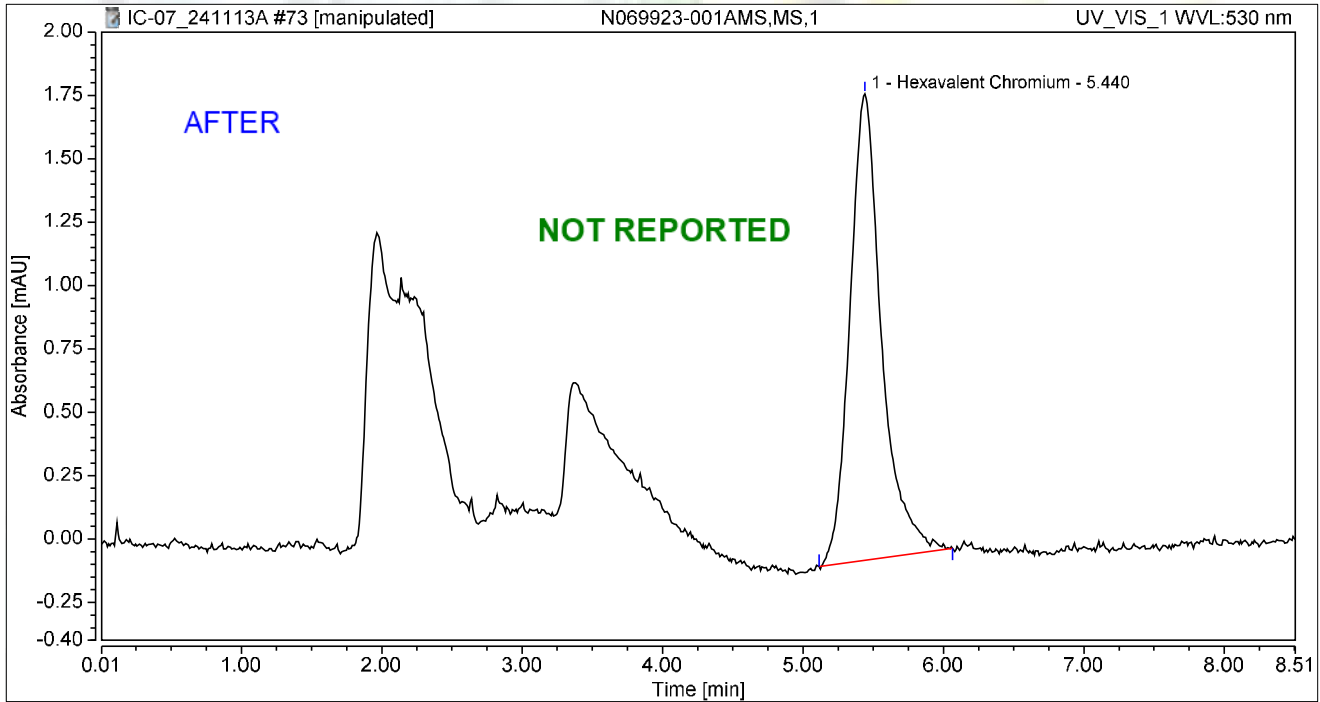
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069923-001AMS,MS,1	Run Time (min):	8.50
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 19:16	Sample Weight:	1.0000

Chromatogram



Integration Results

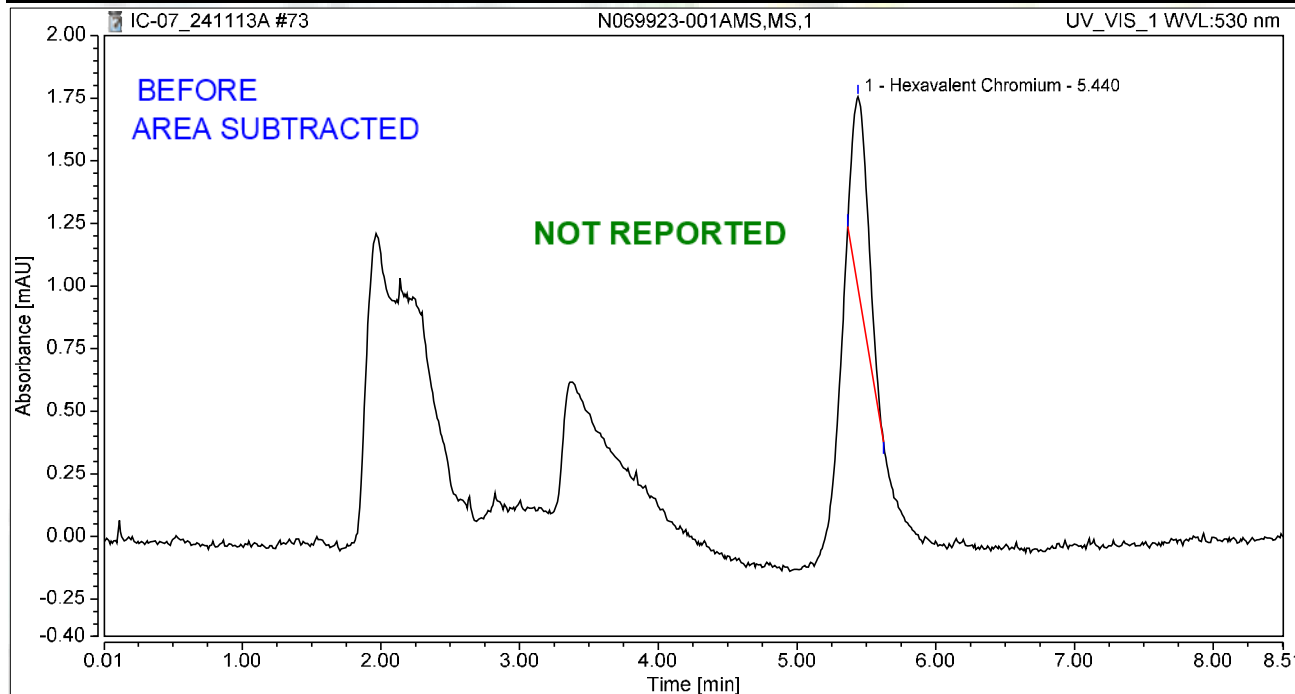
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.440	0.481	1.840	100.00	100.00	1.6954
Total:			0.481	1.840	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069923-001AMS,MS,1	Run Time (min):	8.50
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 19:16	Sample Weight:	1.0000

Chromatogram



Integration Results

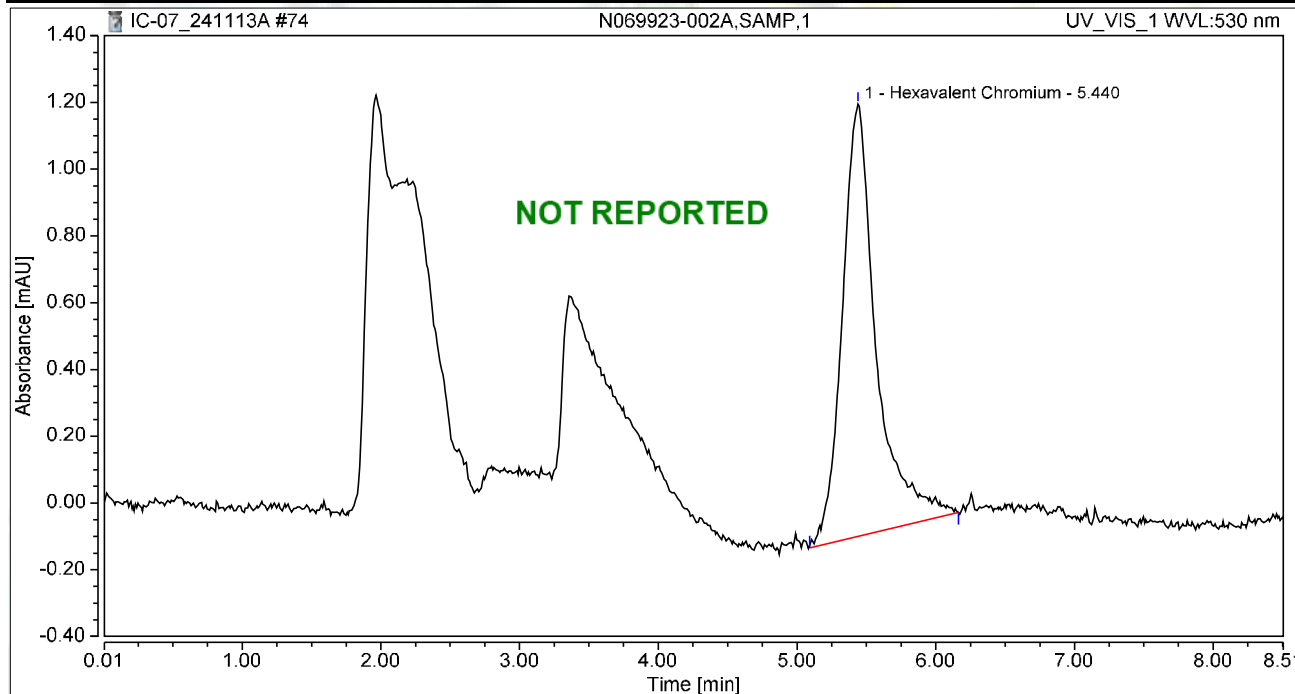
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.440	0.105	0.768	100.00	100.00	0.3714
Total:			0.105	0.768	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069923-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 19:26	Sample Weight:	1.0000

Chromatogram



Integration Results

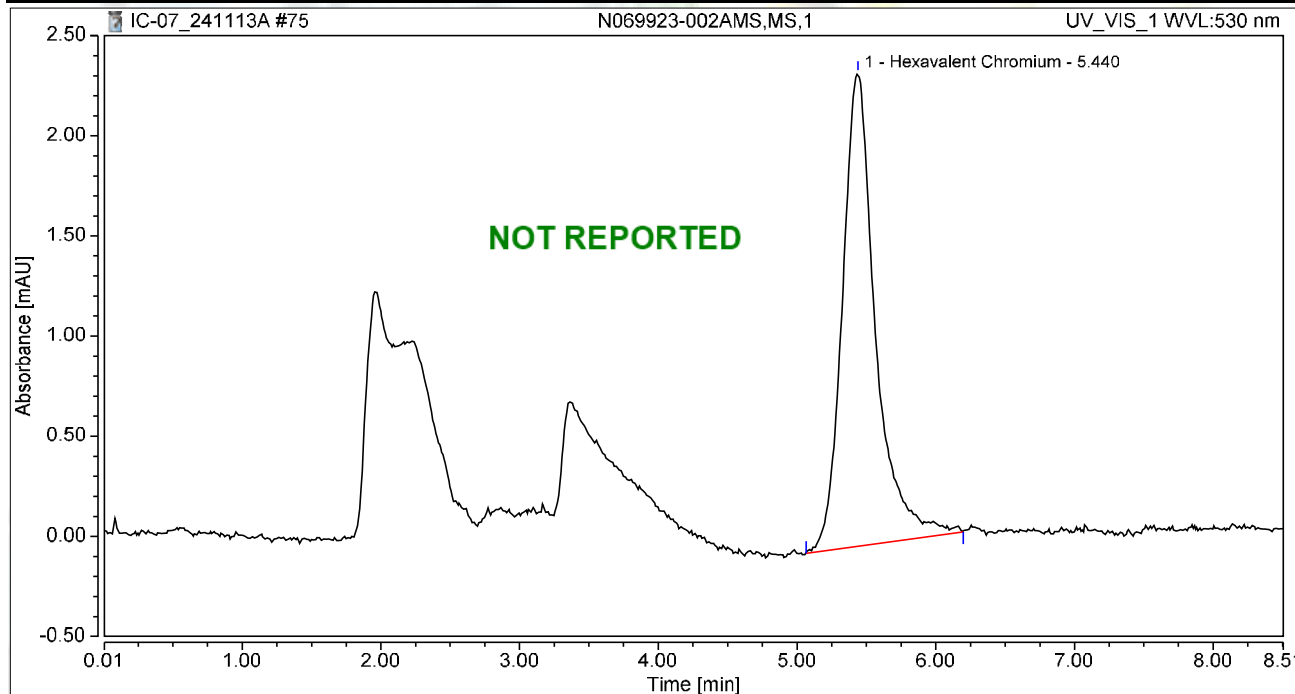
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.440	0.368	1.295	100.00	100.00	1.2975
Total:			0.368	1.295	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069923-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 19:35	Sample Weight:	1.0000

Chromatogram



Integration Results

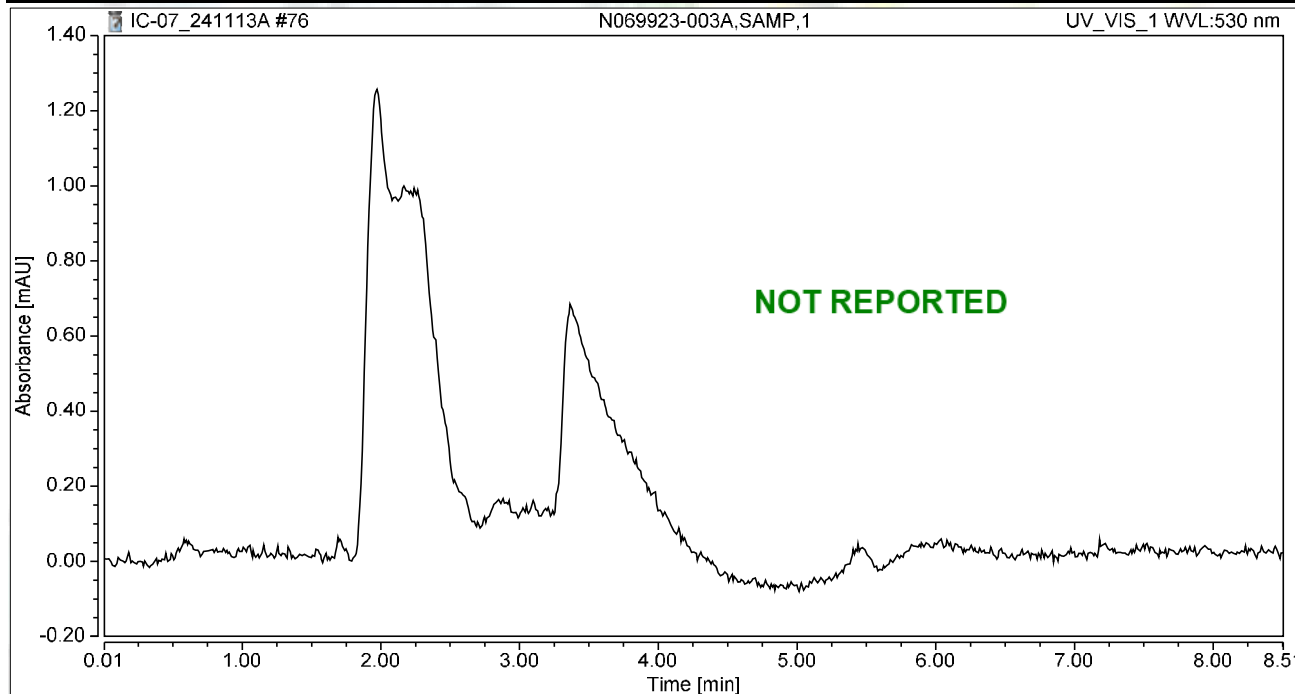
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.440	0.652	2.363	100.00	100.00	2.2986
Total:			0.652	2.363	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069923-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 19:45	Sample Weight:	1.0000

Chromatogram



Integration Results

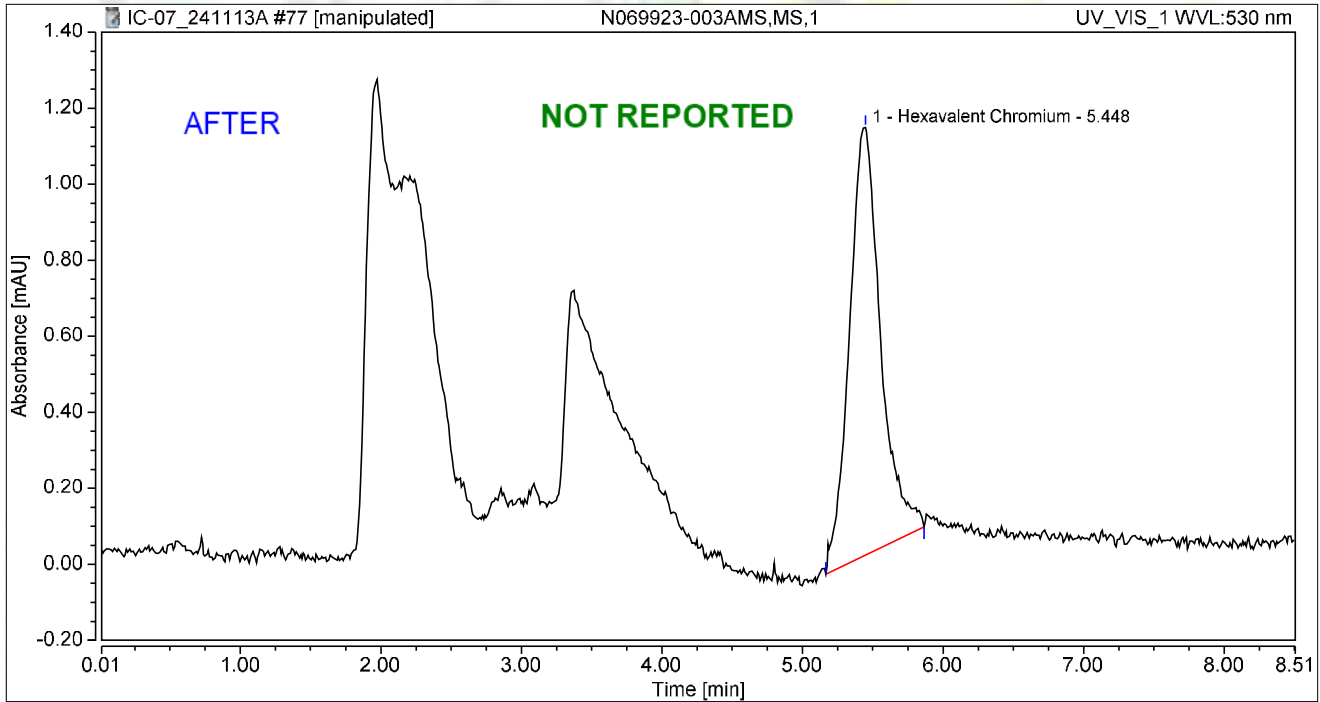
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069923-003AMS,MS,1	Run Time (min):	8.49
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 19:54	Sample Weight:	1.0000

Chromatogram



Integration Results

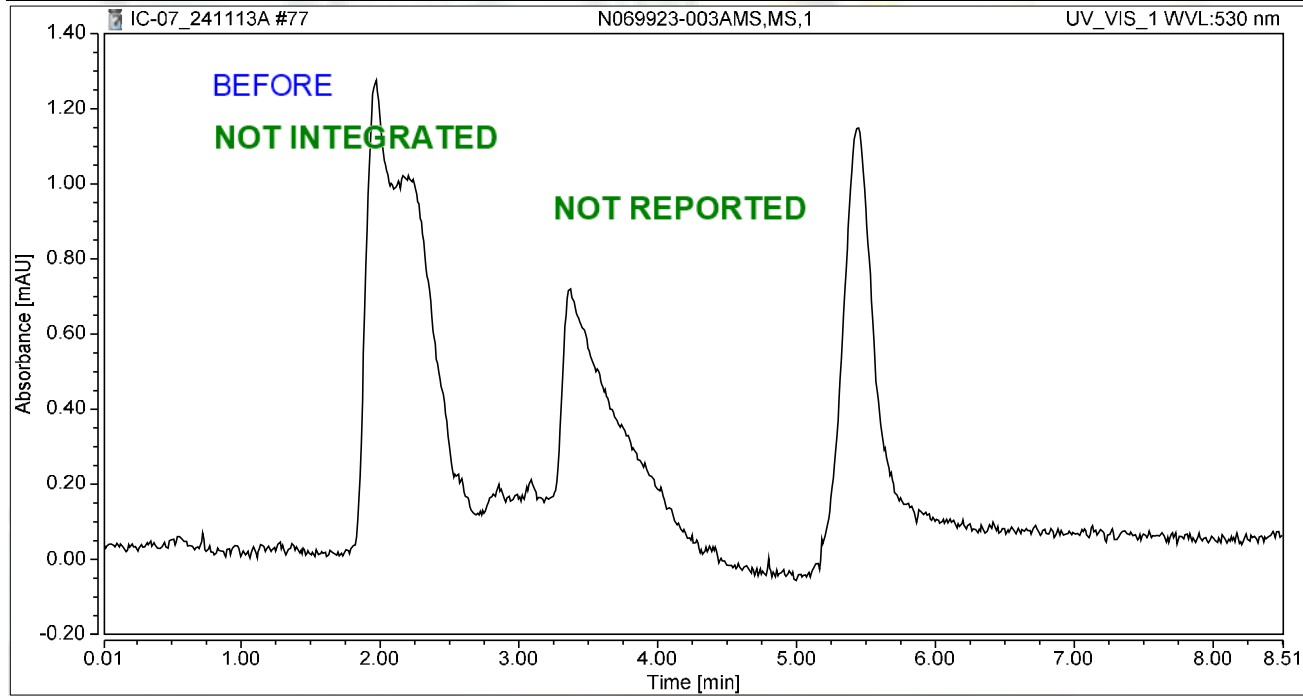
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.448	0.290	1.125	100.00	100.00	1.0229
Total:			0.290	1.125	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069923-003AMS,MS,1	Run Time (min):	8.49
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 19:54	Sample Weight:	1.0000

Chromatogram



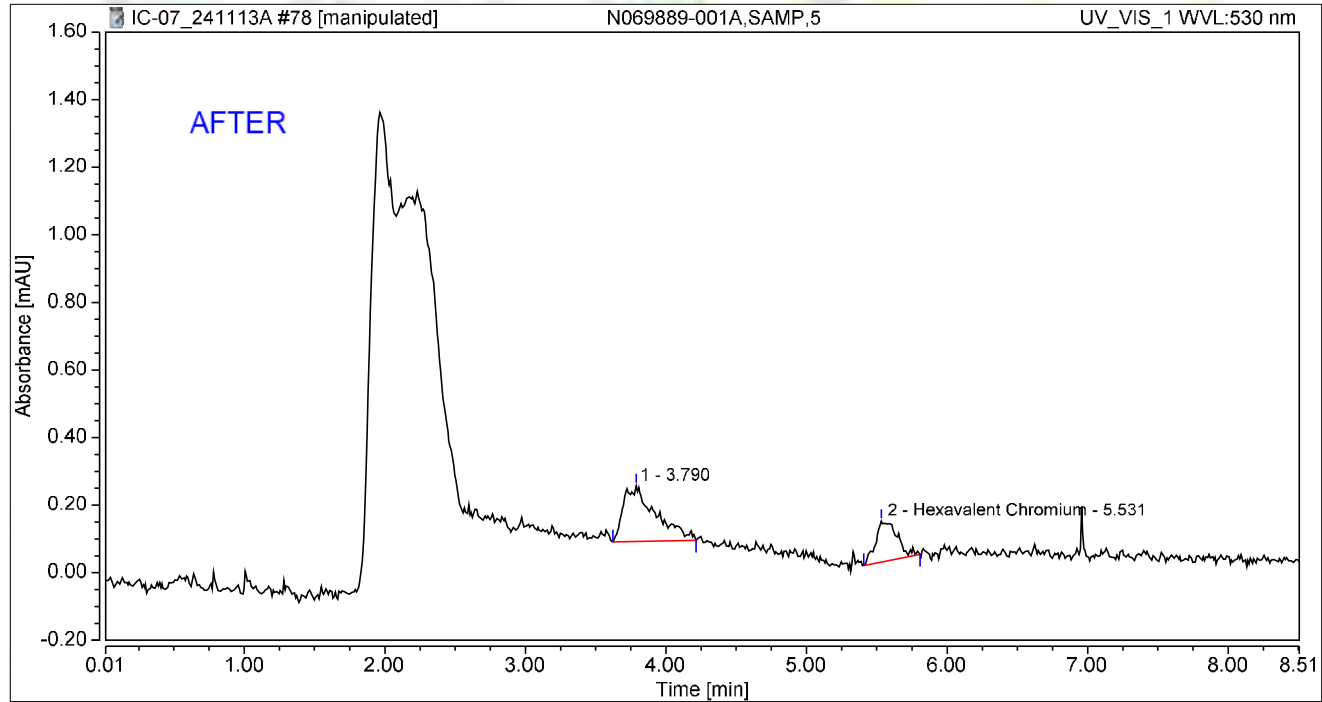
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	


Chromatogram and Results

Injection Details		
Injection Name:	N069889-001A,SAMP,5	Run Time (min): 8.49
Vial Number:	29	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	13/Nov/24 20:04	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.790	0.044	0.164	67.08	57.73	n.a.
2	Hexavalent Chromium	5.531	0.021	0.120	32.92	42.27	0.0754
Total:			0.065	0.285	100.00	100.00	

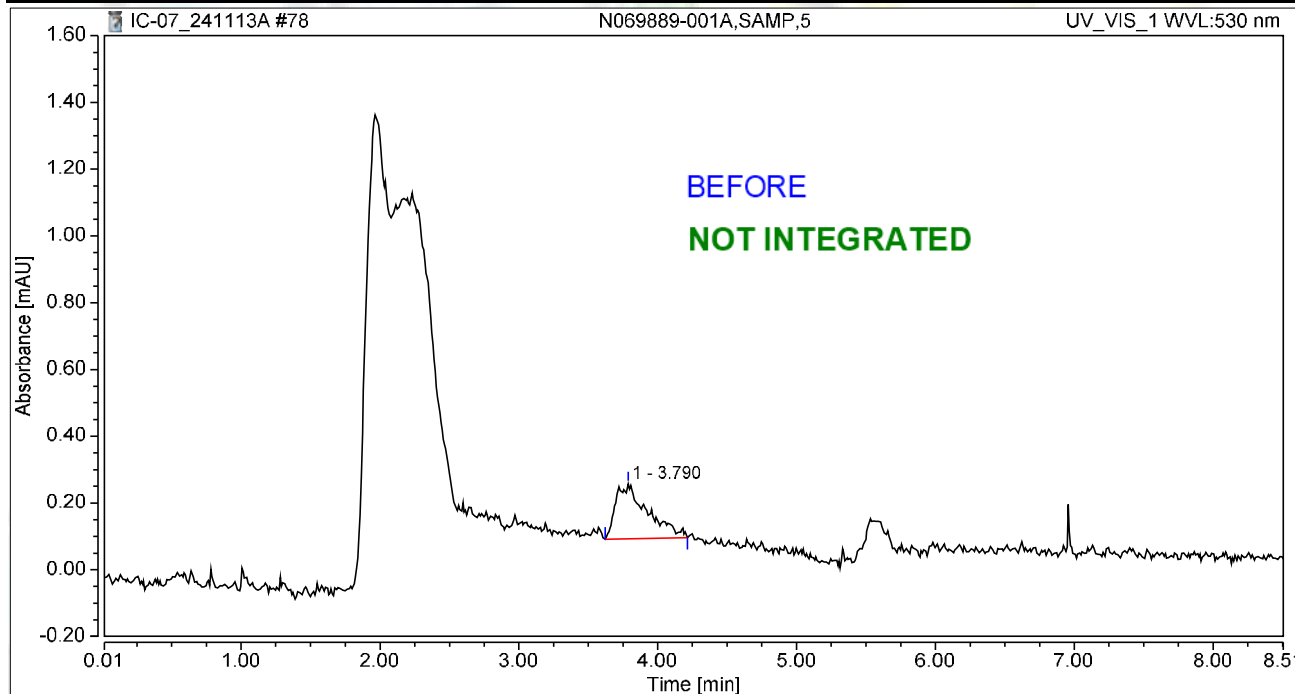
Reviewed by
 11/14/2024

Chromatogram and Results

Injection Details

Injection Name:	N069889-001A,SAMP,5	Run Time (min):	8.49
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 20:04	Sample Weight:	1.0000

Chromatogram



Integration Results

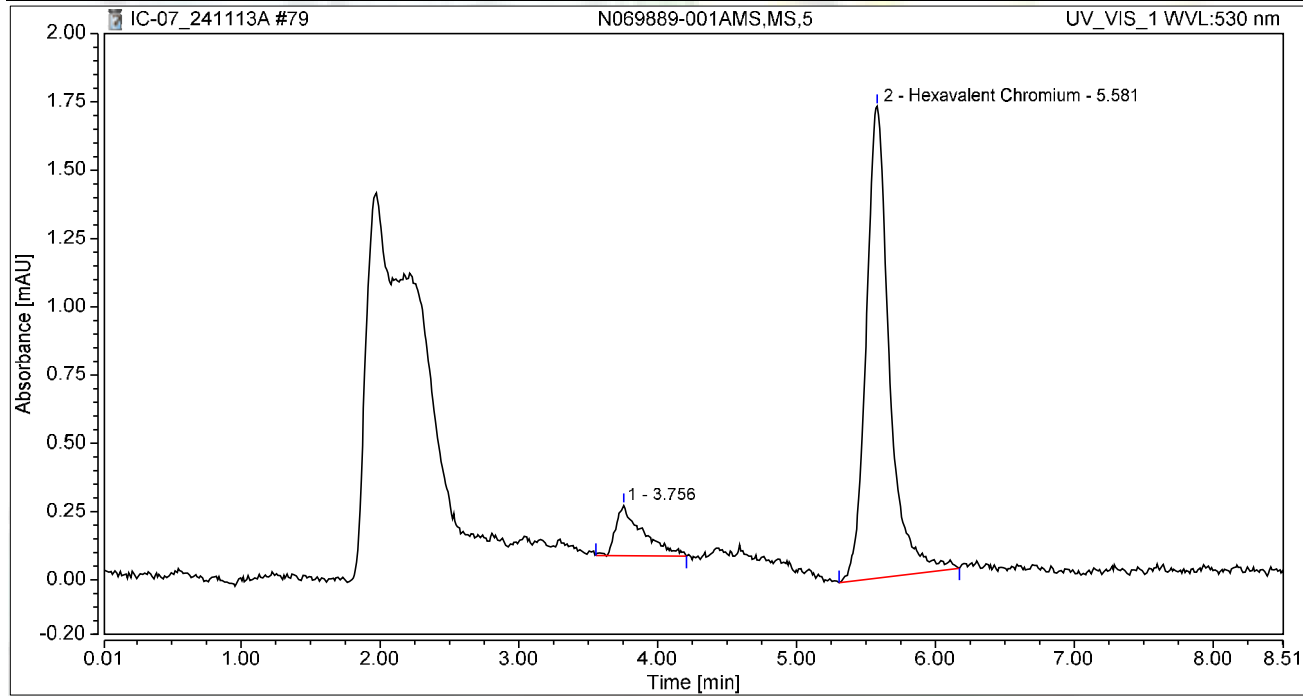
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.790	0.044	0.164	100.00	100.00	n.a.
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.044	0.164	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069889-001AMS,MS,5	Run Time (min):	8.49
Vial Number:	30	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 20:13	Sample Weight:	1.0000

Chromatogram



Integration Results

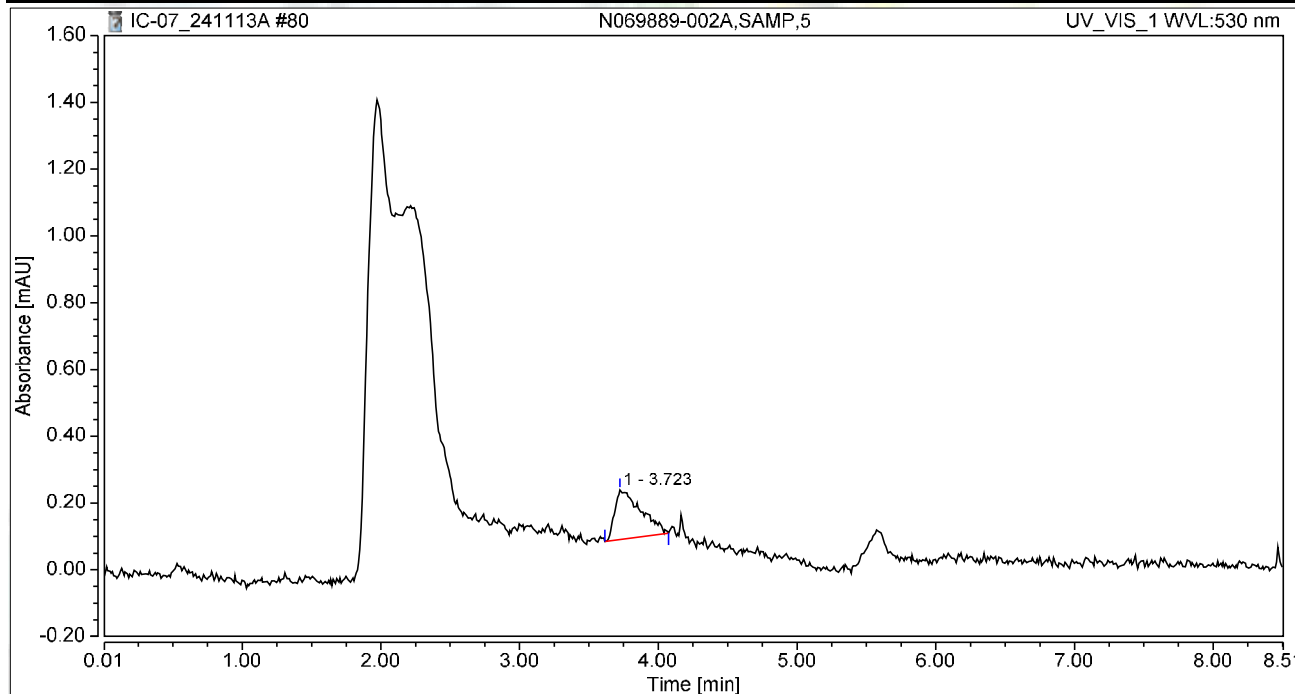
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.756	0.042	0.185	11.17	9.66	n.a.
2	Hexavalent Chromium	5.581	0.334	1.727	88.83	90.34	1.1753
Total:			0.375	1.912	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069889-002A,SAMP,5	Run Time (min):	8.50
Vial Number:	31	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 20:22	Sample Weight:	1.0000

Chromatogram



Integration Results

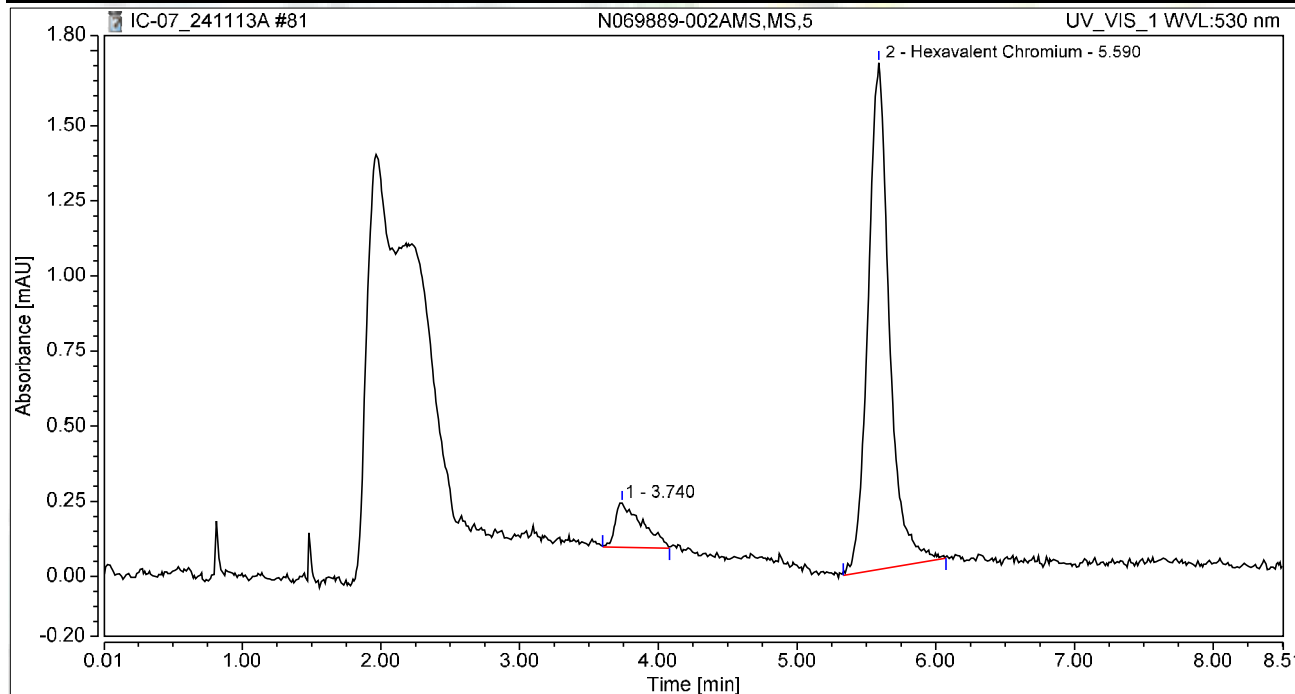
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.723	0.032	0.148	100.00	100.00	n.a.
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.032	0.148	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069889-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	32	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 20:32	Sample Weight:	1.0000

Chromatogram



Integration Results

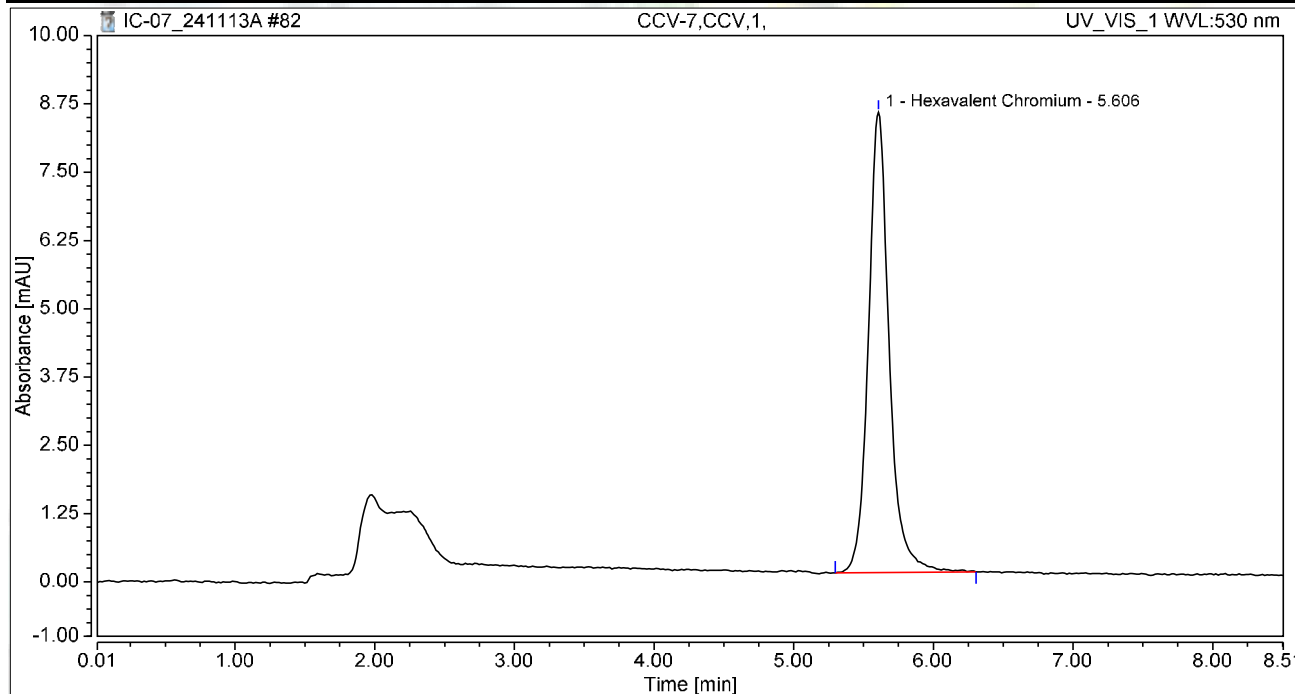
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.740	0.033	0.148	10.02	8.06	n.a.
2	Hexavalent Chromium	5.590	0.300	1.685	89.98	91.94	1.0564
Total:			0.333	1.833	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-7,CCV,1,	Run Time (min):	8.49
Vial Number:	33	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 20:41	Sample Weight:	1.0000

Chromatogram



Integration Results

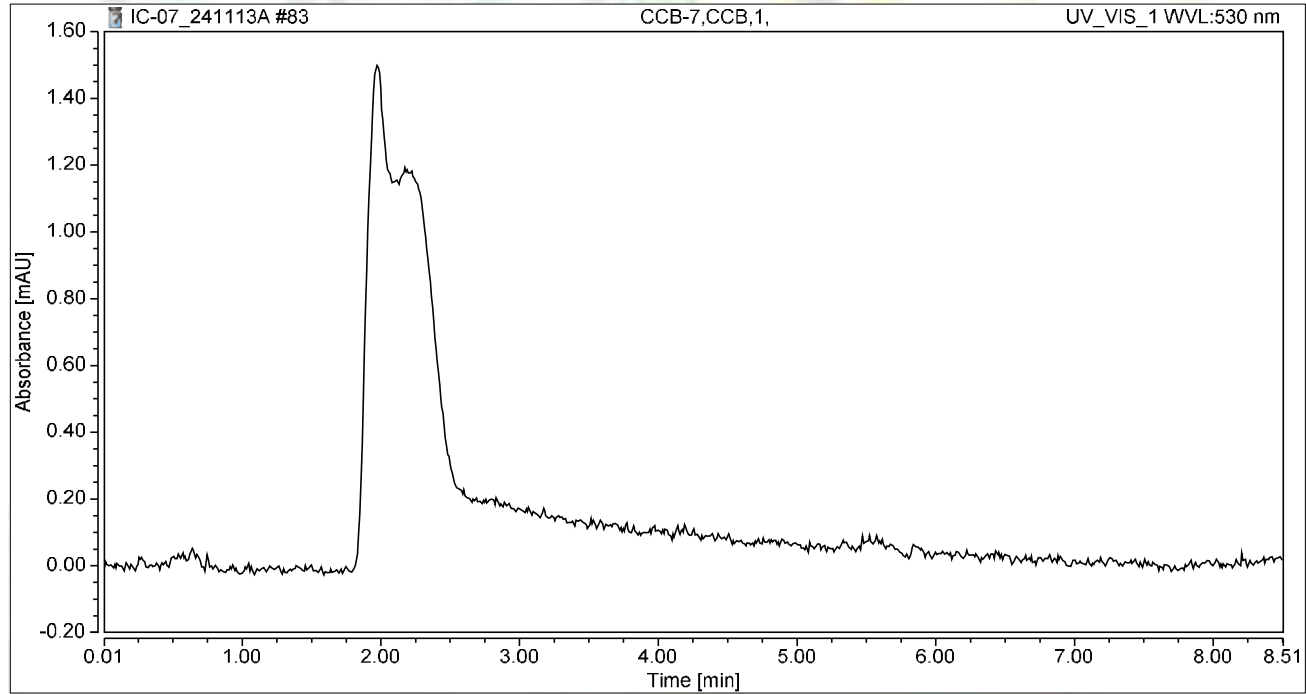
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.606	1.455	8.427	100.00	100.00	5.1269
Total:			1.455	8.427	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-7,CCB,1,	Run Time (min):	8.50
Vial Number:	34	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 20:51	Sample Weight:	1.0000

Chromatogram



Integration Results

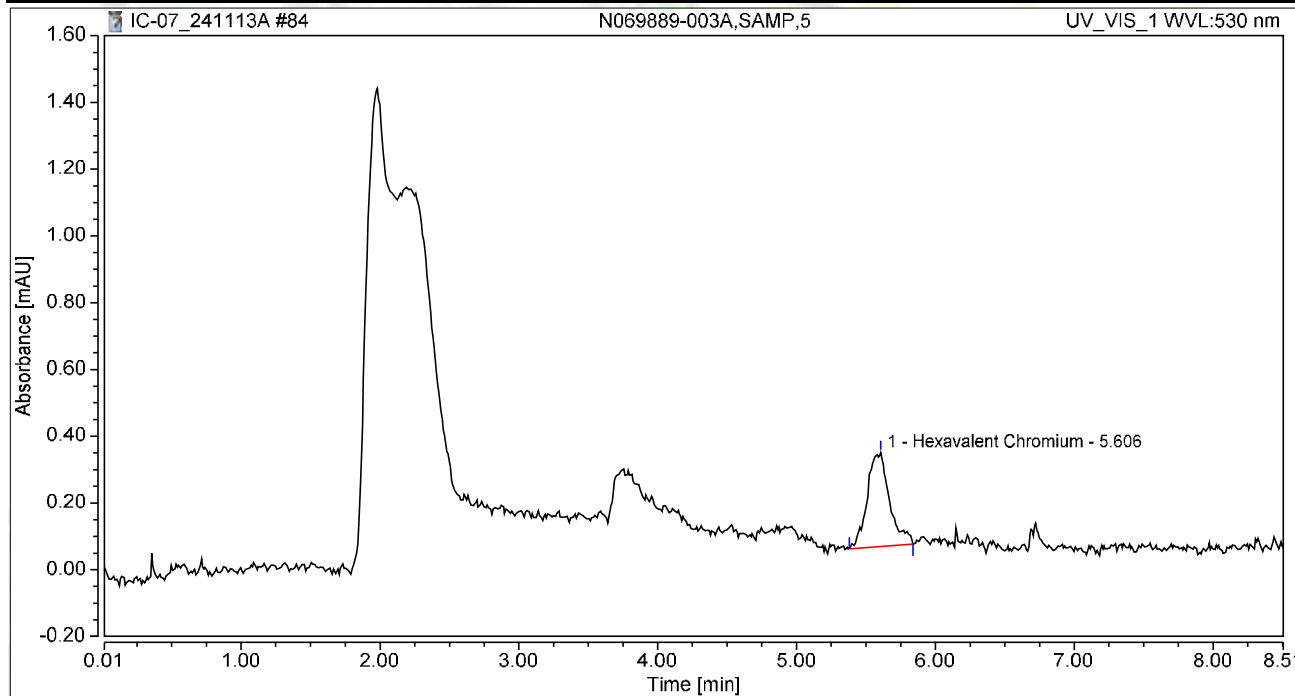
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069889-003A,SAMP,5	Run Time (min):	8.49
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 21:00	Sample Weight:	1.0000

Chromatogram



Integration Results

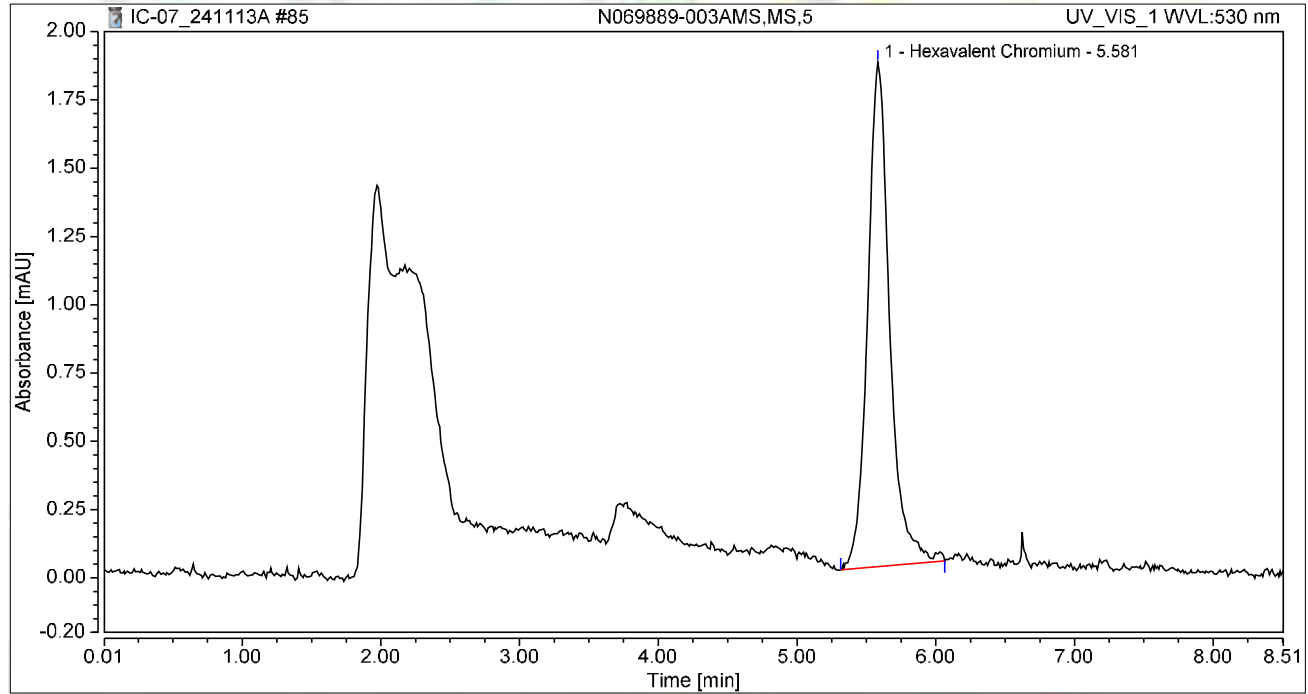
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.606	0.052	0.282	100.00	100.00	0.1844
Total:			0.052	0.282	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069889-003AMS,MS,5	Run Time (min):	8.50
Vial Number:	36	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 21:10	Sample Weight:	1.0000

Chromatogram



Integration Results

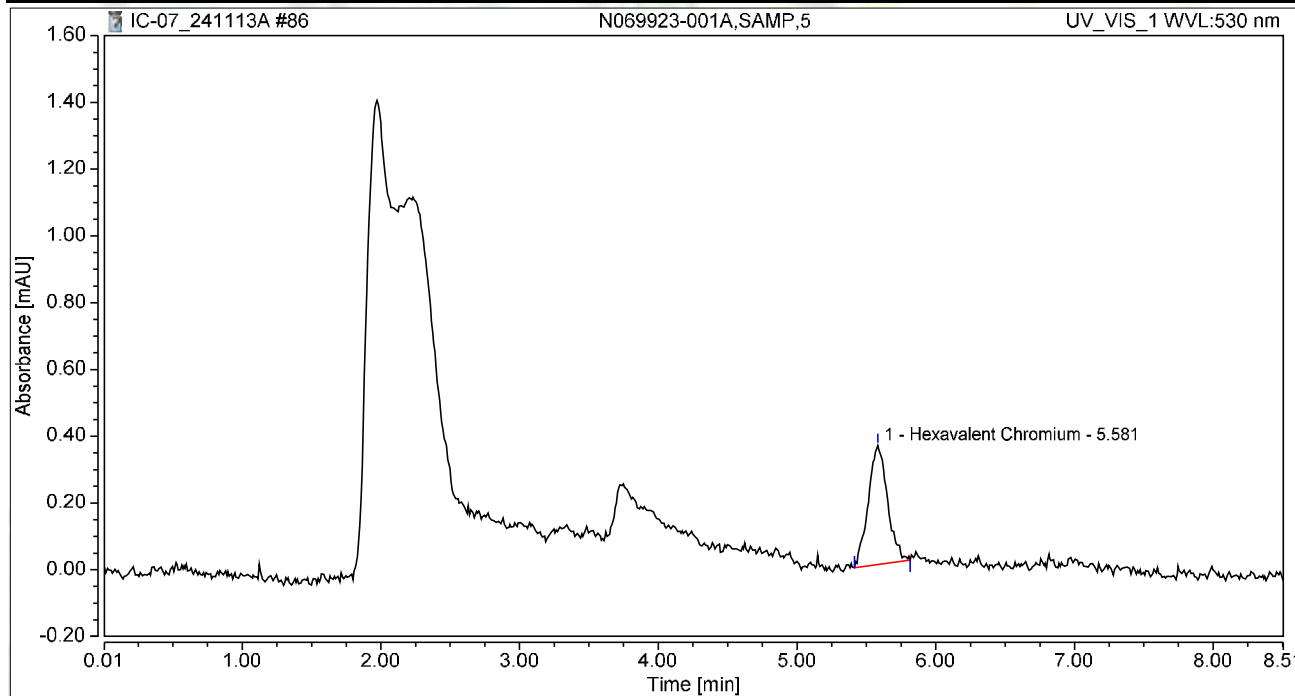
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.581	0.340	1.847	100.00	100.00	1.1998
Total:			0.340	1.847	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069923-001A,SAMP,5	Run Time (min):	8.50
Vial Number:	37	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 21:19	Sample Weight:	1.0000

Chromatogram



Integration Results

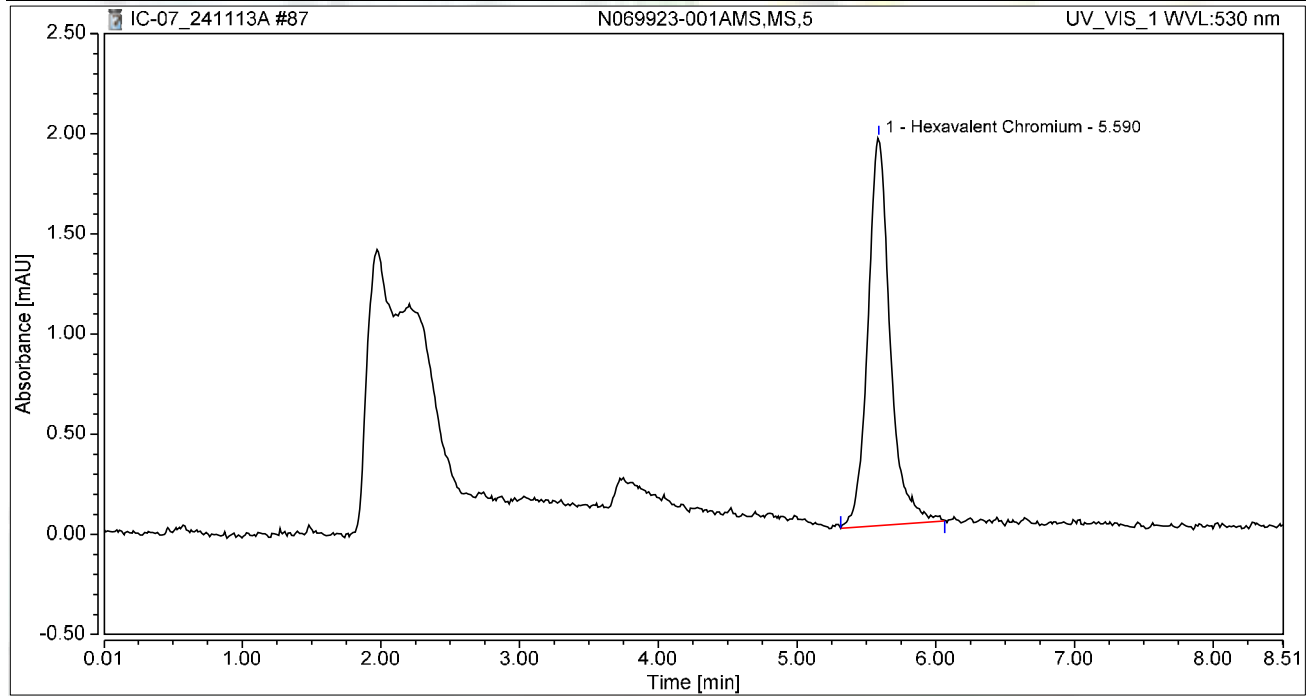
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.581	0.058	0.357	100.00	100.00	0.2031
Total:			0.058	0.357	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069923-001AMS,MS,5	Run Time (min):	8.50
Vial Number:	38	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 21:29	Sample Weight:	1.0000

Chromatogram

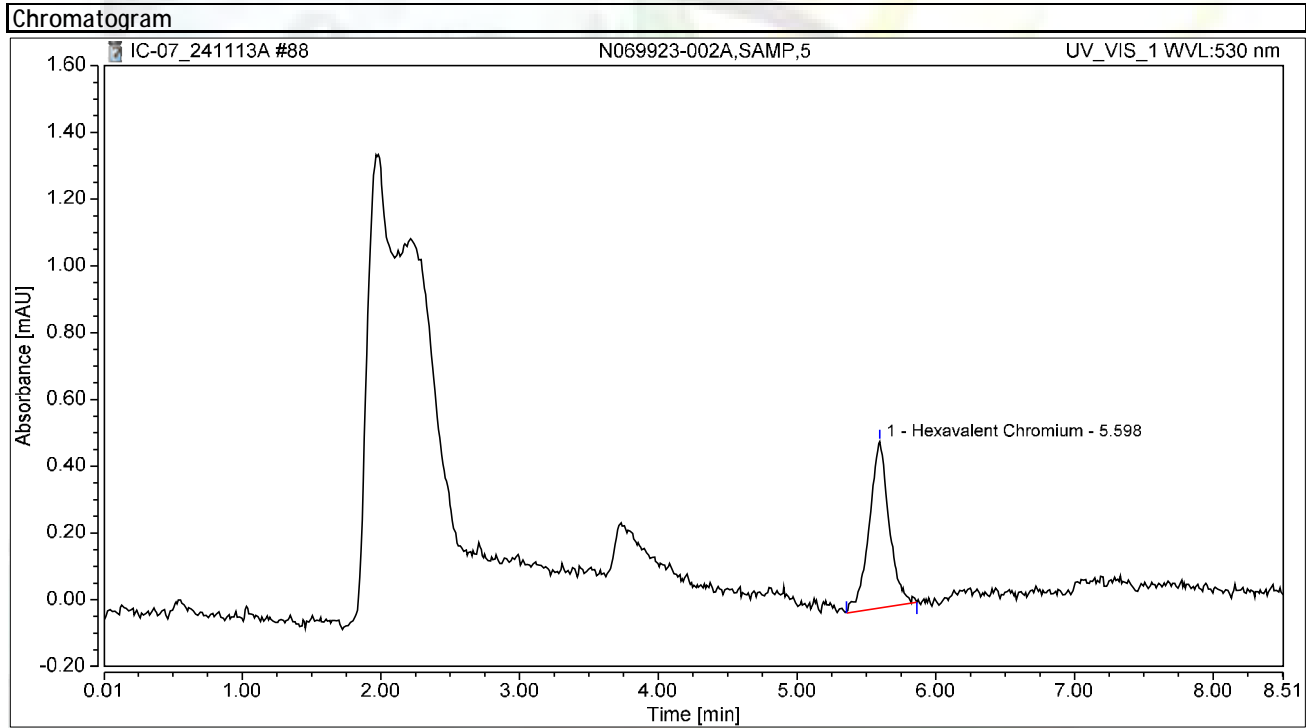


Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.590	0.360	1.937	100.00	100.00	1.2694
Total:			0.360	1.937	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069923-002A,SAMP,5	Run Time (min): 8.50
Vial Number:	39	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	13/Nov/24 21:38	Sample Weight: 1.0000



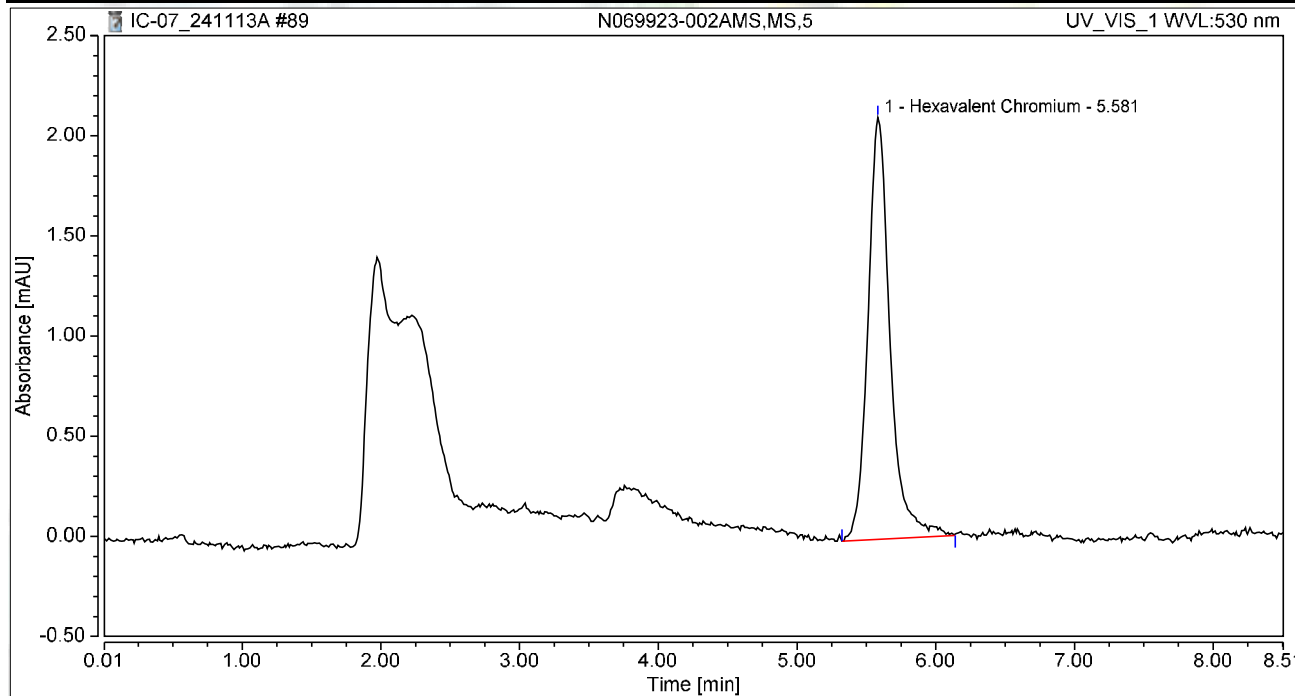
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.598	0.083	0.498	100.00	100.00	0.2927
Total:			0.083	0.498	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069923-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 21:48	Sample Weight:	1.0000

Chromatogram



Integration Results

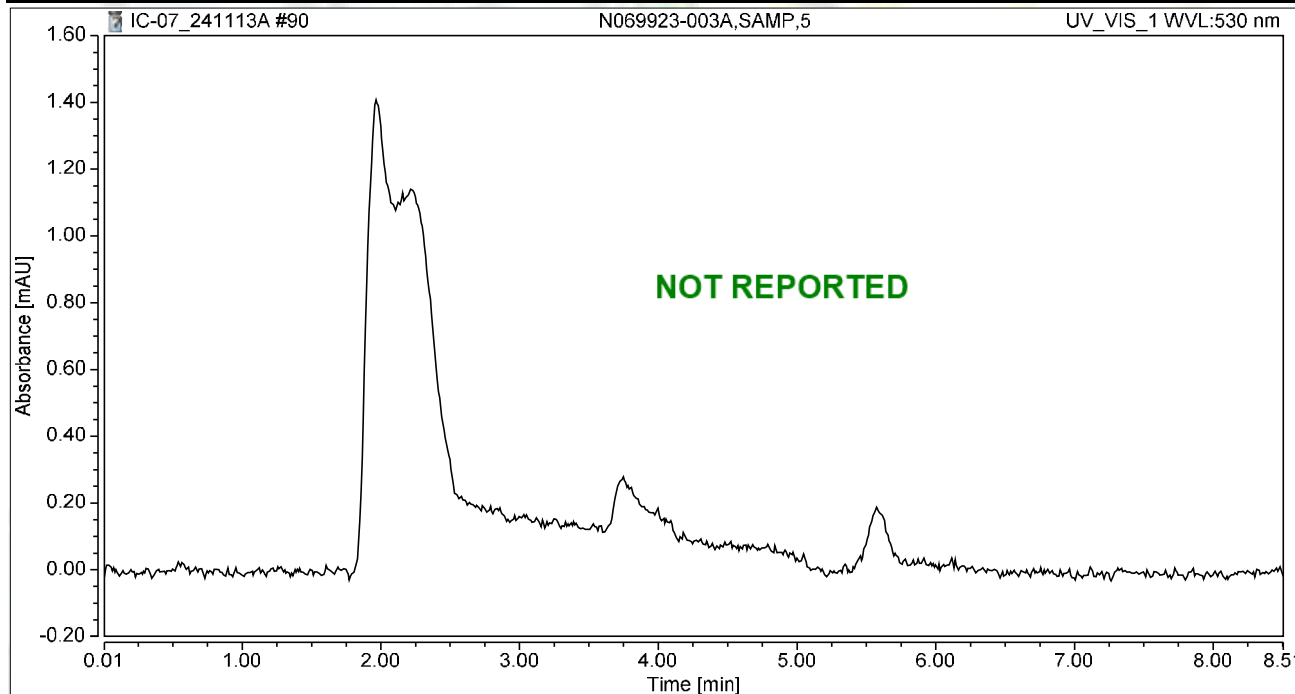
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.581	0.390	2.107	100.00	100.00	1.3752
Total:			0.390	2.107	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069923-003A,SAMP,5	Run Time (min):	8.50
Vial Number:	41	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 21:57	Sample Weight:	1.0000

Chromatogram



Integration Results

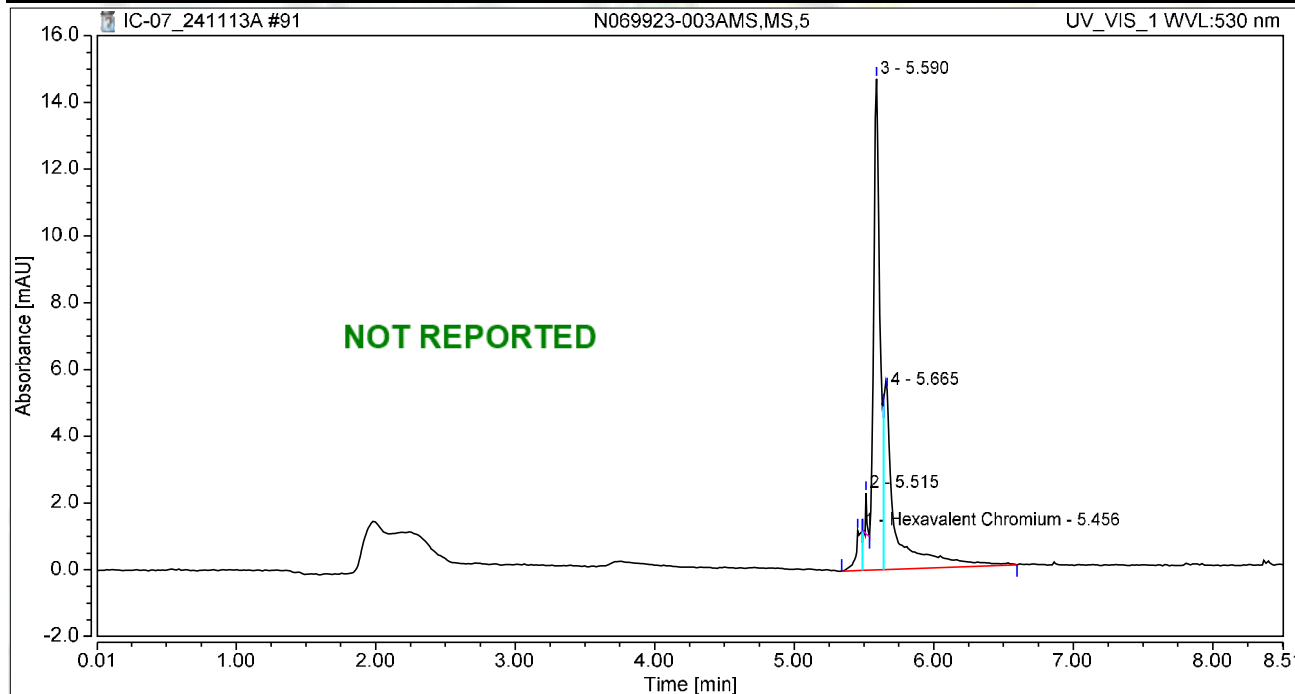
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069923-003AMS,MS,5	Run Time (min):	8.50
Vial Number:	42	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 22:07	Sample Weight:	1.0000

Chromatogram



Integration Results

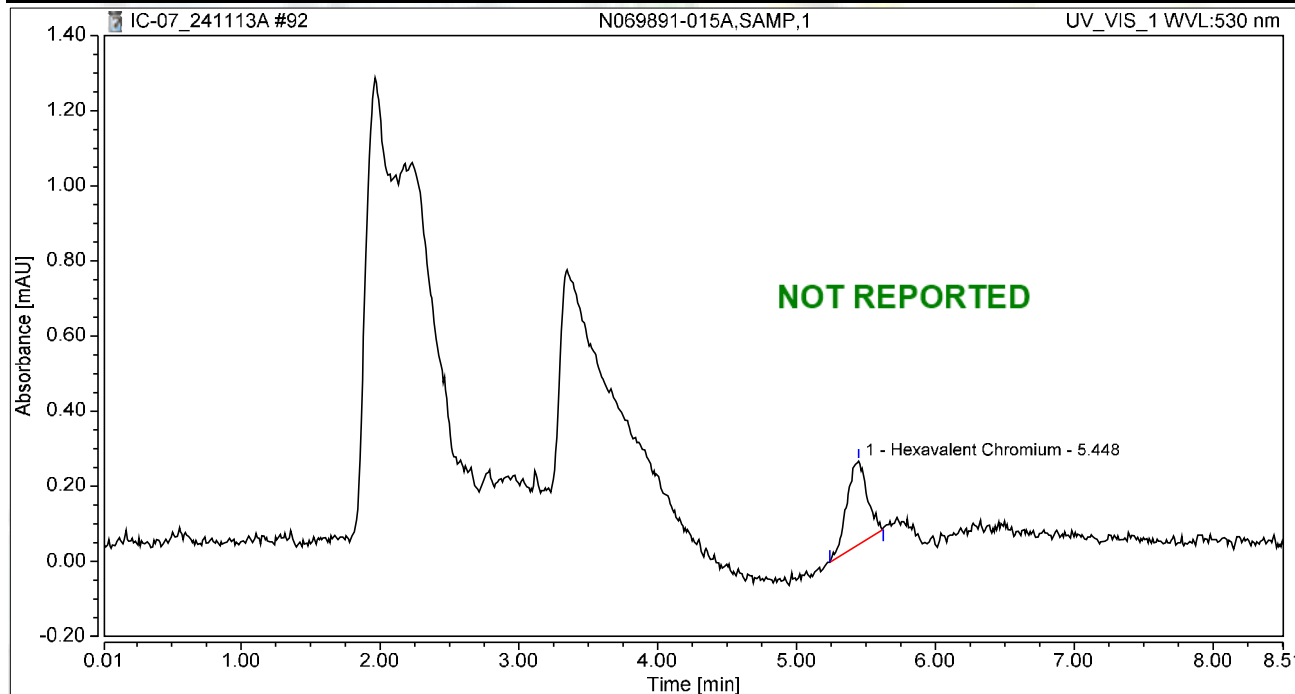
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.456	0.061	1.190	4.22	5.29	0.2142
2		5.515	0.014	1.212	0.96	5.39	n.a.
3		5.590	0.834	14.709	57.90	65.39	n.a.
4		5.665	0.532	5.384	36.92	23.94	n.a.
Total:			1.440	22.495	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-015A,SAMP,1	Run Time (min):	8.49
Vial Number:	43	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 22:16	Sample Weight:	1.0000

Chromatogram



Integration Results

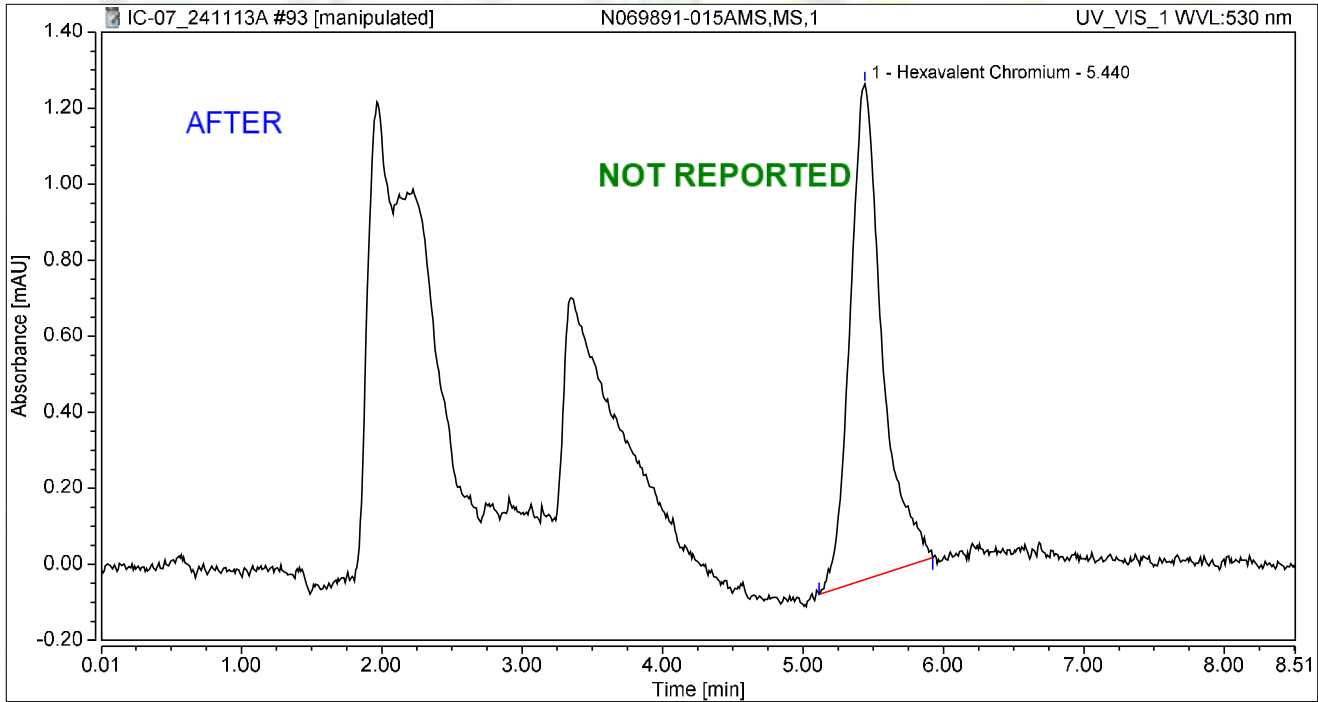
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.448	0.038	0.222	100.00	100.00	0.1339
Total:			0.038	0.222	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-015AMS,MS,1	Run Time (min):	8.50
Vial Number:	44	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 22:25	Sample Weight:	1.0000

Chromatogram



Integration Results

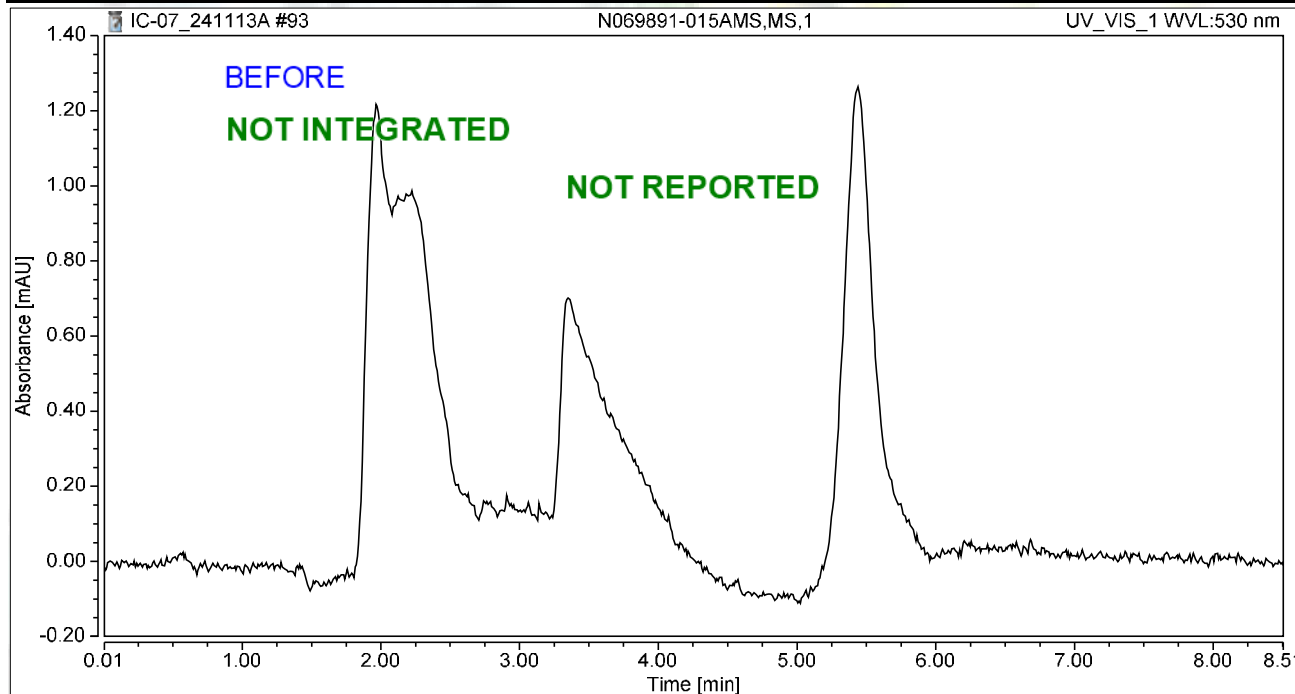
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.440	0.345	1.304	100.00	100.00	1.2143
Total:			0.345	1.304	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-015AMS,MS,1	Run Time (min):	8.50
Vial Number:	44	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 22:25	Sample Weight:	1.0000

Chromatogram



Integration Results

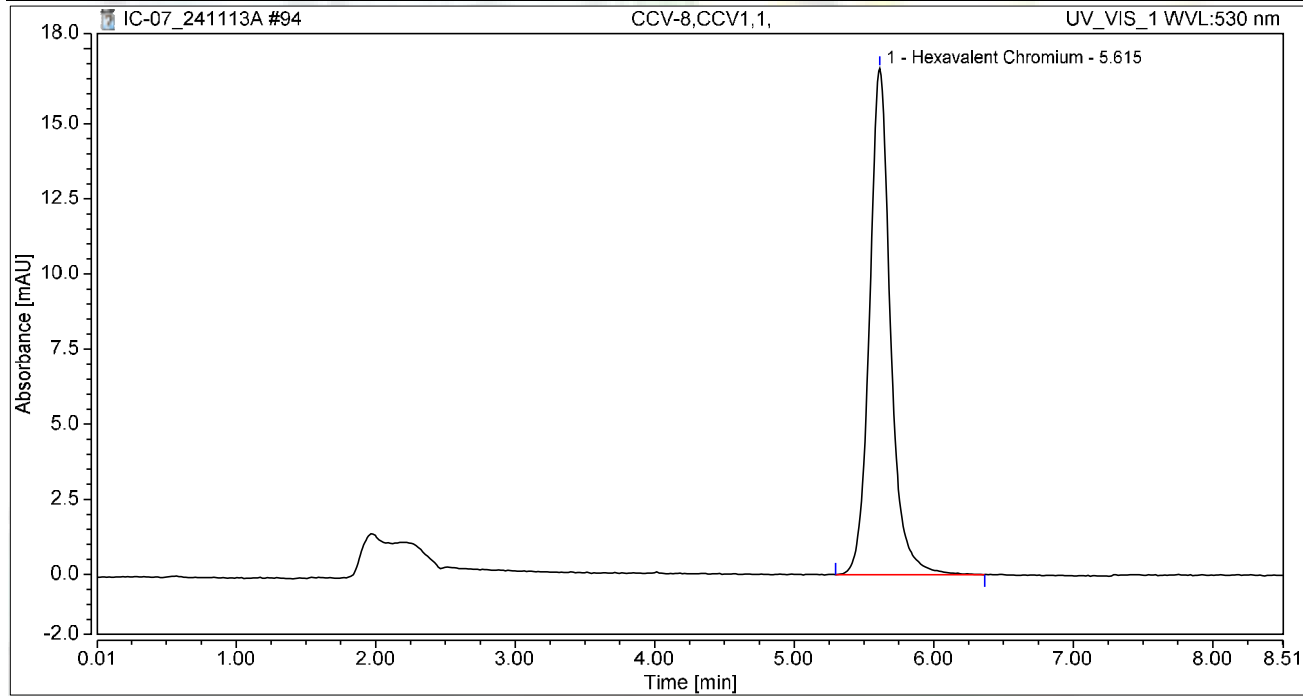
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-8,CCV1,1,	Run Time (min):	8.50
Vial Number:	45	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 22:35	Sample Weight:	1.0000

Chromatogram

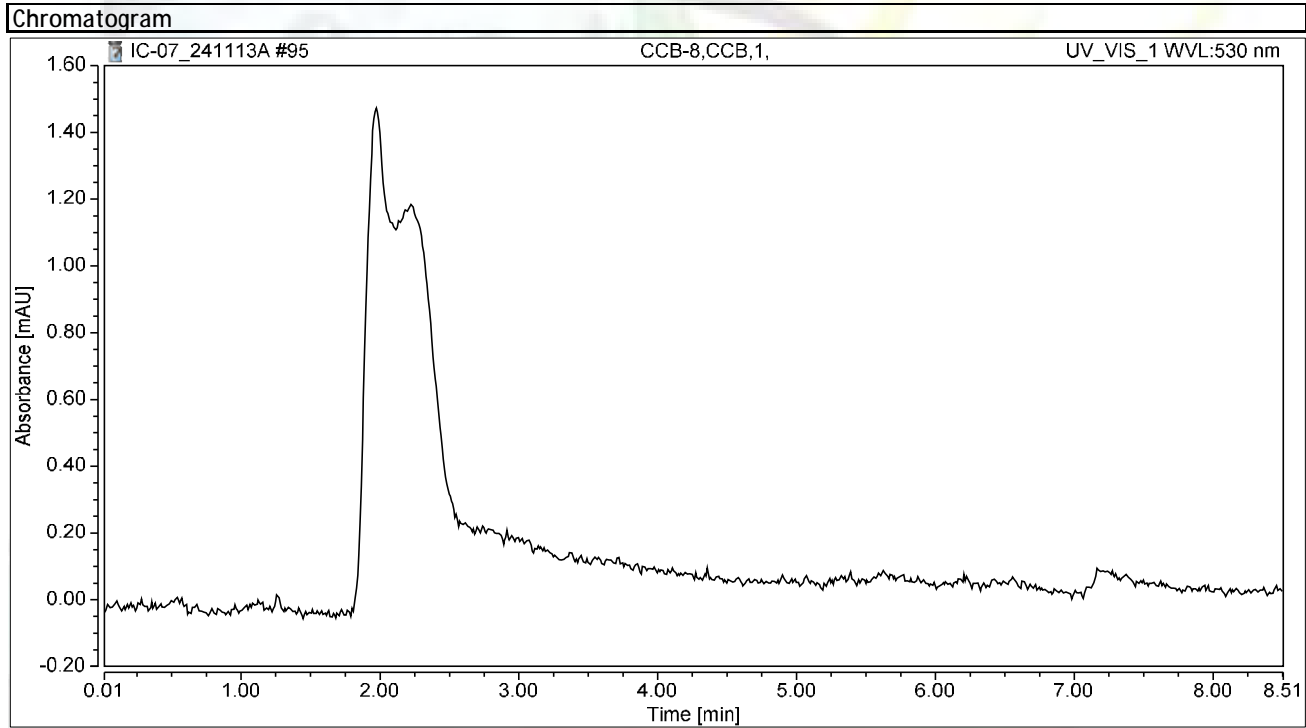


Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.615	2.937	16.857	100.00	100.00	10.3521
Total:			2.937	16.857	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	CCB-8,CCB,1,	Run Time (min): 8.49
Vial Number:	46	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	13/Nov/24 22:44	Sample Weight: 1.0000



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

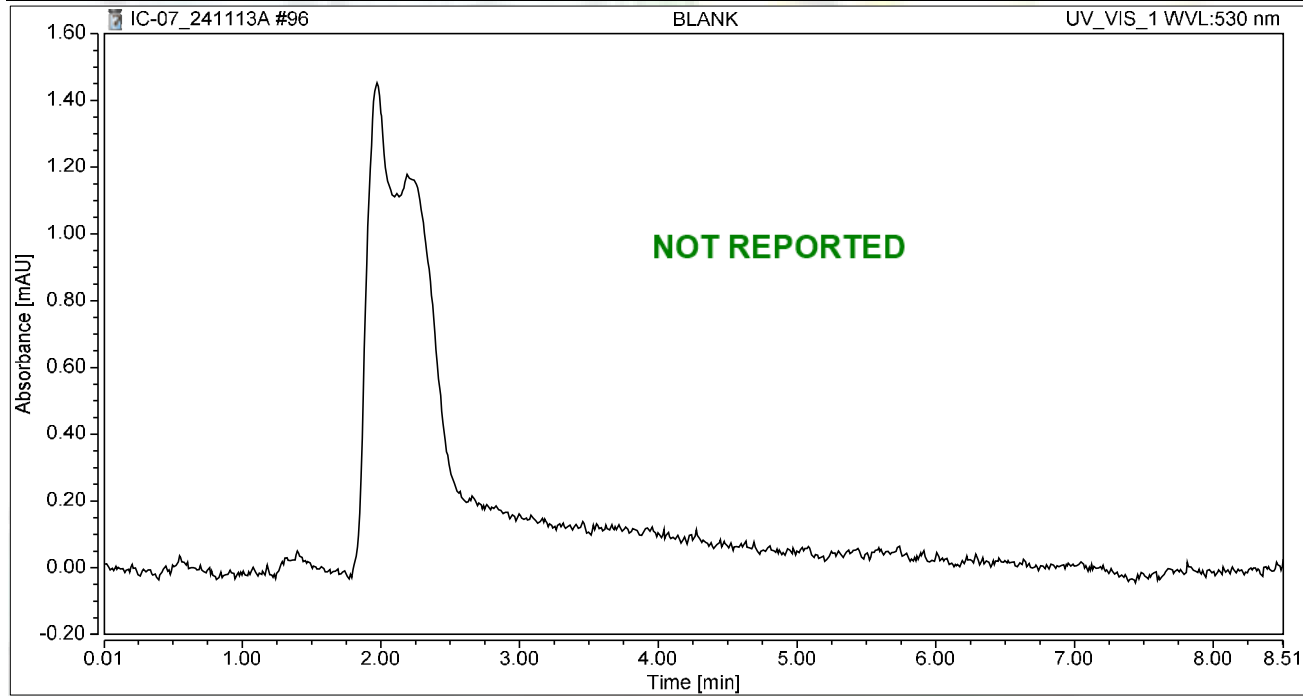


Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	47	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 22:54	Sample Weight:	1.0000

Chromatogram



Integration Results

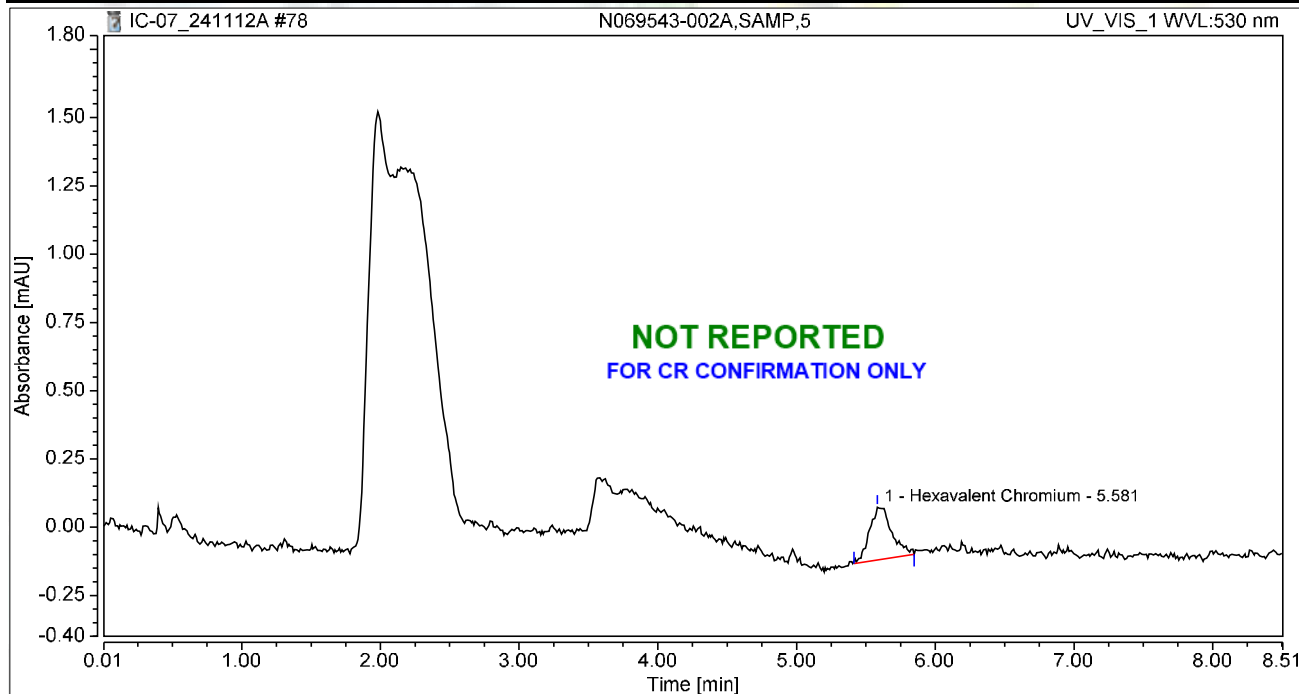
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-002A,SAMP,5	Run Time (min):	8.50
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 21:49	Sample Weight:	1.0000

Chromatogram



Integration Results

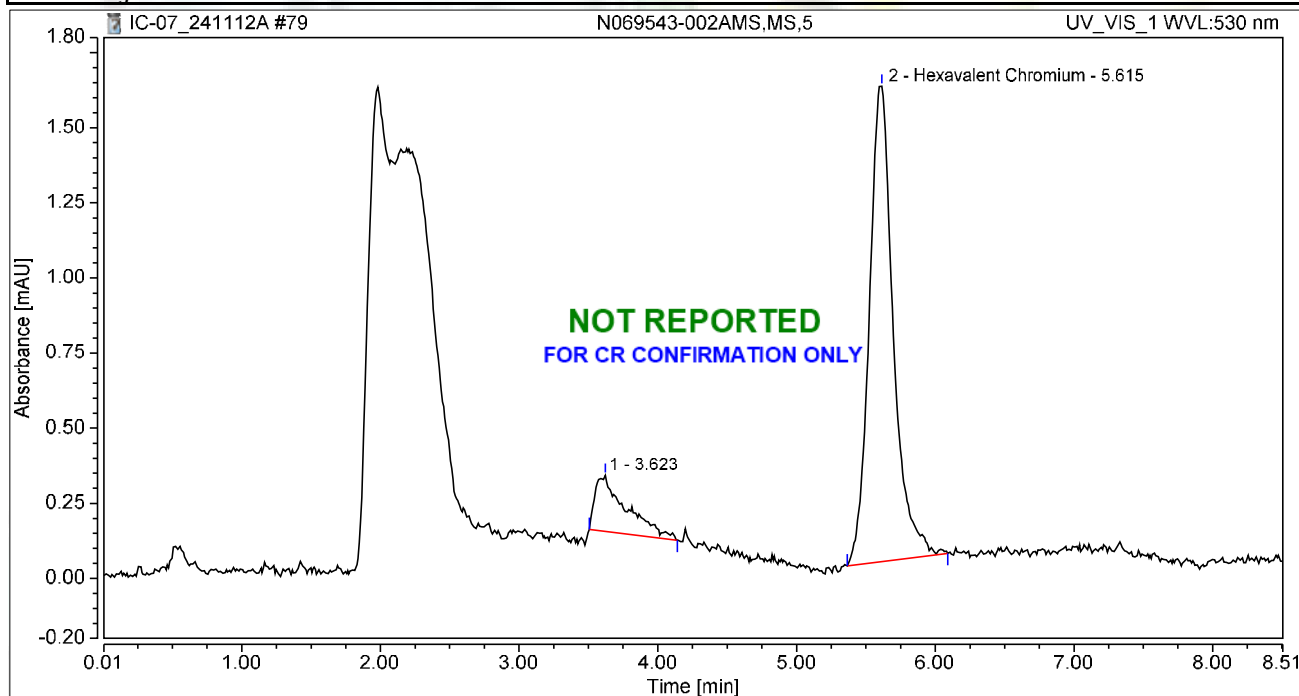
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.581	0.036	0.194	100.00	100.00	0.1272
Total:			0.036	0.194	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 21:59	Sample Weight:	1.0000

Chromatogram



Integration Results

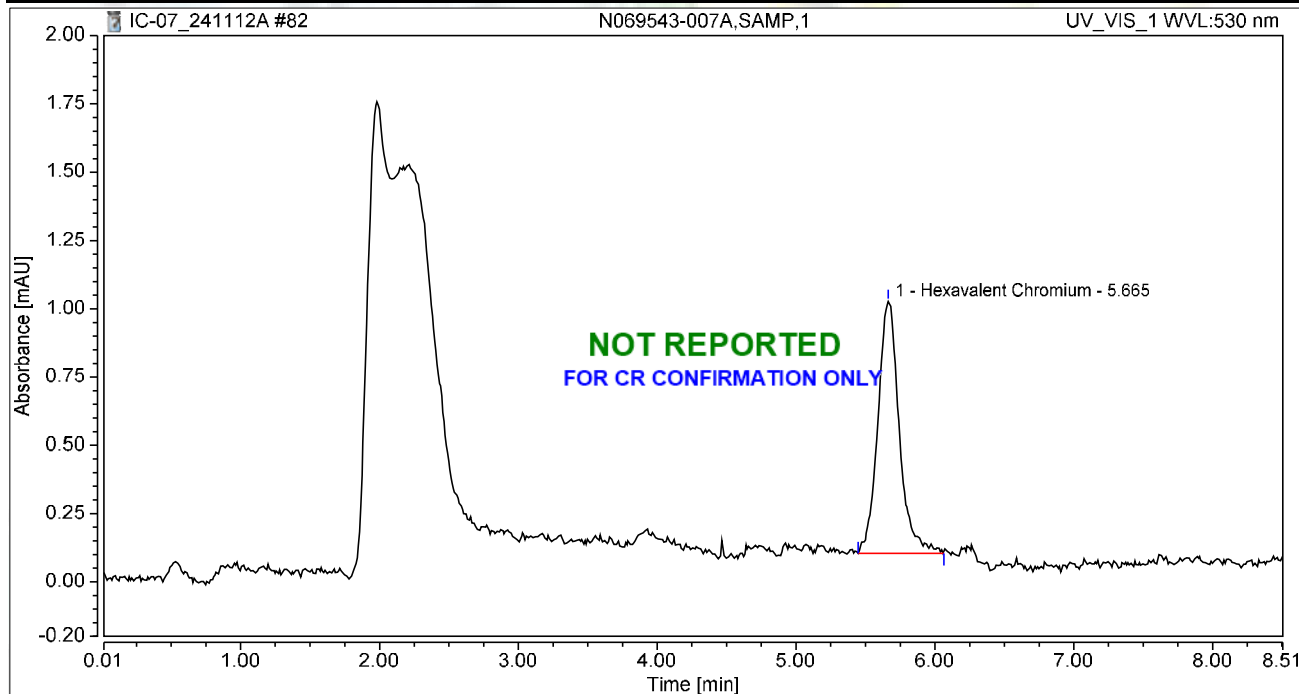
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.623	0.049	0.186	13.32	10.52	n.a.
2	Hexavalent Chromium	5.615	0.317	1.582	86.68	89.48	1.1170
Total:			0.366	1.768	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-007A,SAMP,1	Run Time (min):	8.49
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 22:27	Sample Weight:	1.0000

Chromatogram



Integration Results

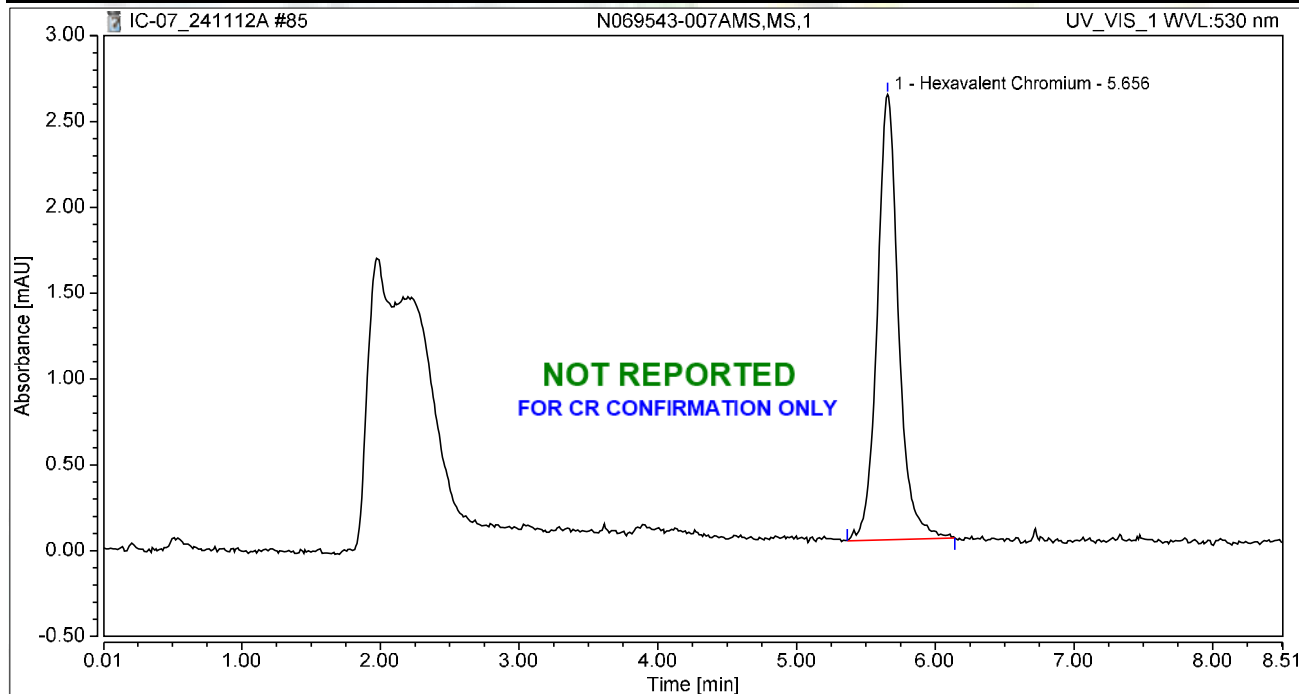
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.166	0.922	100.00	100.00	0.5837
Total:			0.166	0.922	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-007AMS,MS,1	Run Time (min):	8.50
Vial Number:	32	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 22:56	Sample Weight:	1.0000

Chromatogram



Integration Results

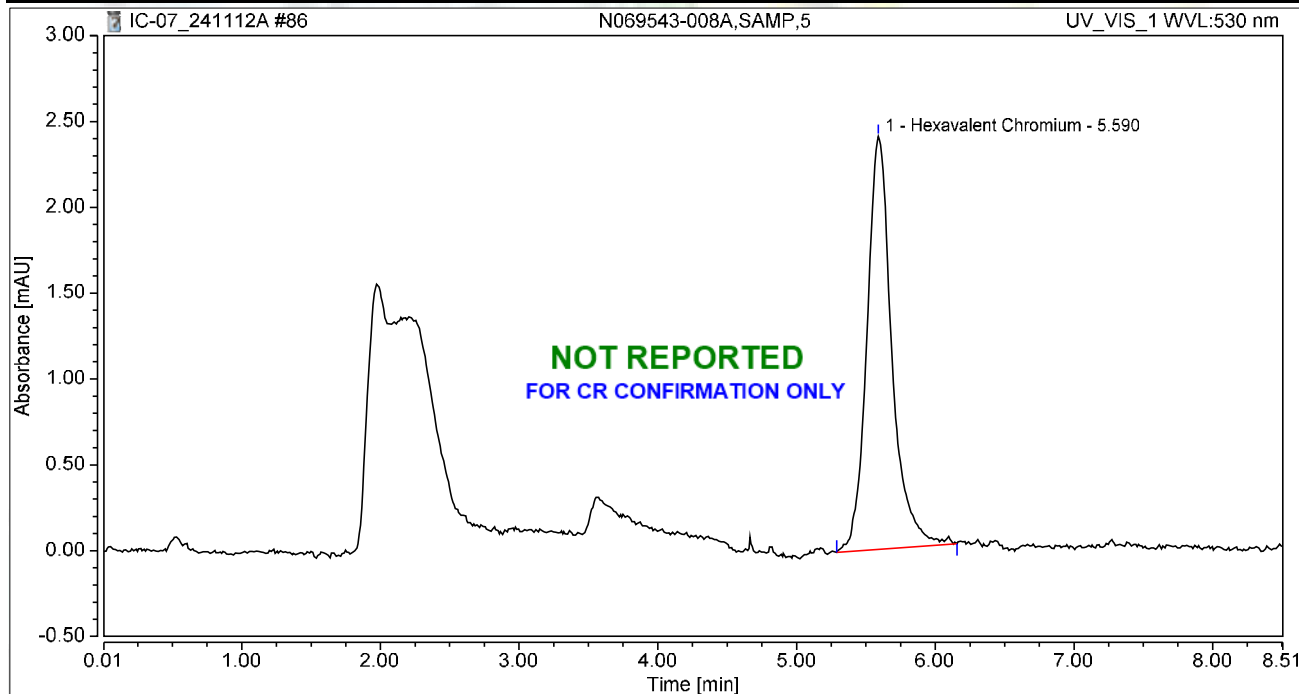
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.656	0.461	2.593	100.00	100.00	1.6237
Total:			0.461	2.593	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-008A,SAMP,5	Run Time (min):	8.50
Vial Number:	33	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 23:05	Sample Weight:	1.0000

Chromatogram



Integration Results

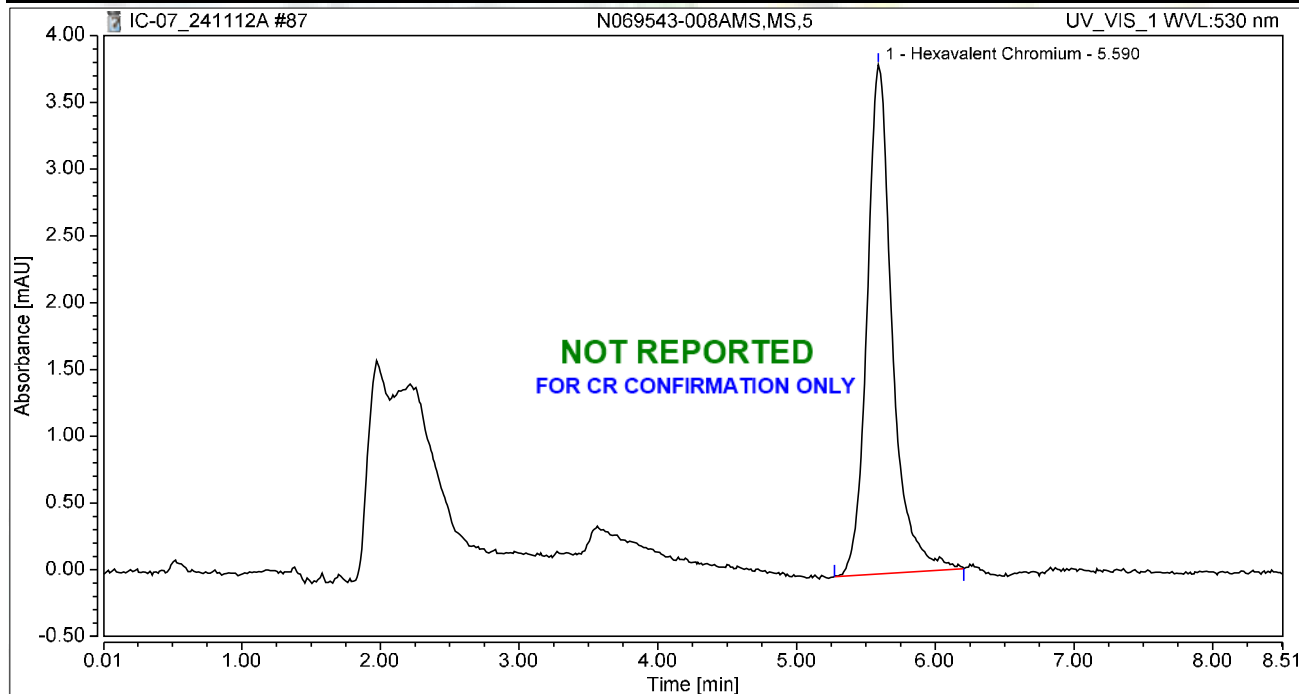
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.590	0.501	2.404	100.00	100.00	1.7668
Total:			0.501	2.404	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-008AMS,MS,5	Run Time (min):	8.50
Vial Number:	34	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 23:15	Sample Weight:	1.0000

Chromatogram



Integration Results

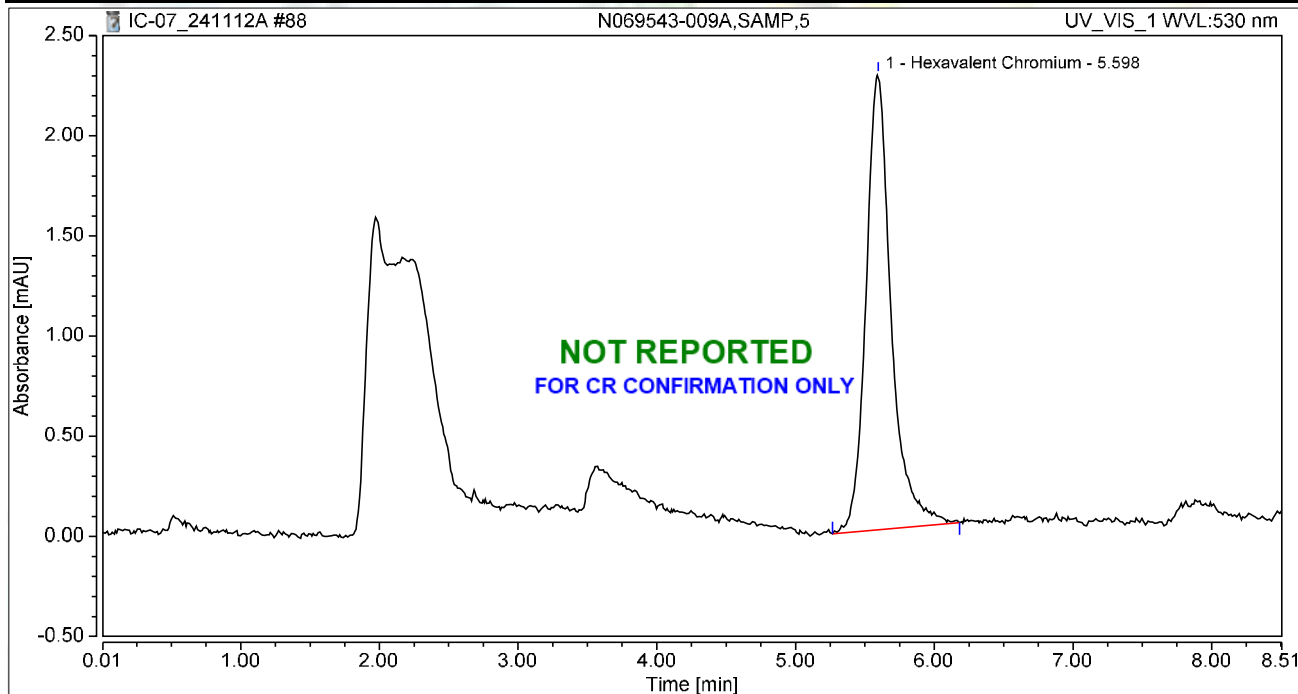
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.590	0.802	3.814	100.00	100.00	2.8274
Total:			0.802	3.814	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-009A,SAMP,5	Run Time (min):	8.50
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 23:24	Sample Weight:	1.0000

Chromatogram



Integration Results

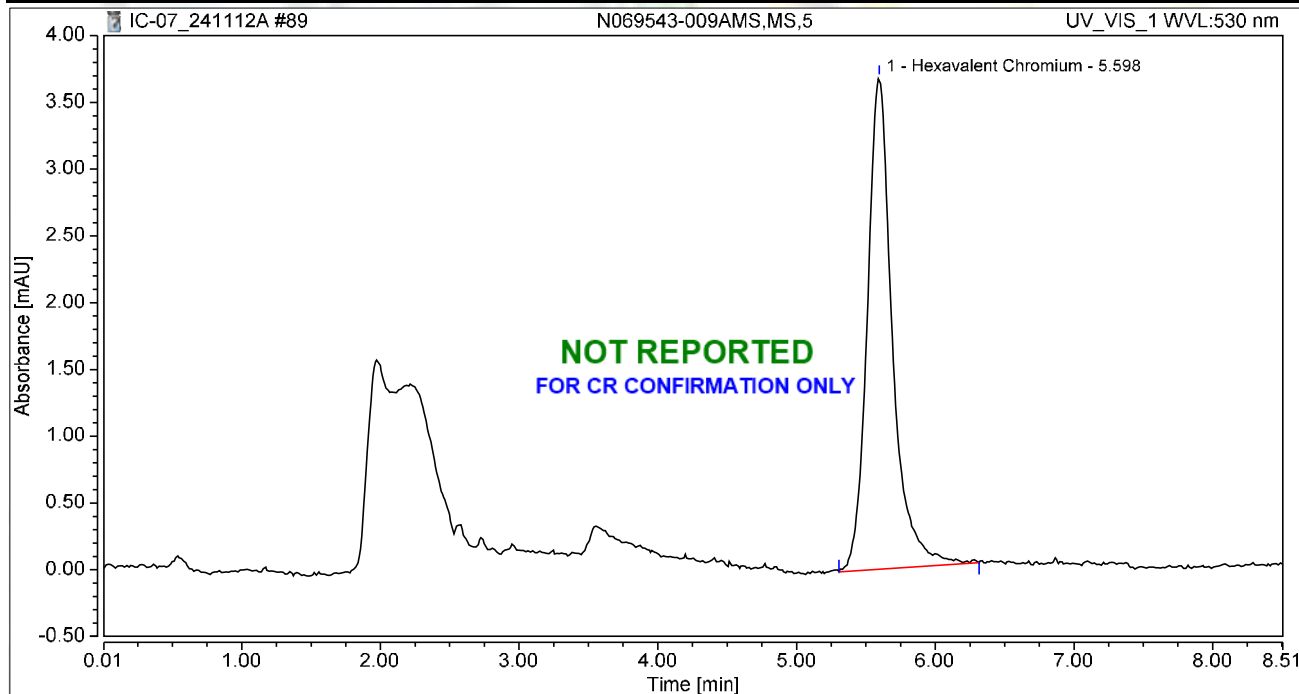
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.598	0.478	2.276	100.00	100.00	1.6859
Total:			0.478	2.276	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-009AMS,MS,5	Run Time (min):	8.50
Vial Number:	36	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 23:34	Sample Weight:	1.0000

Chromatogram



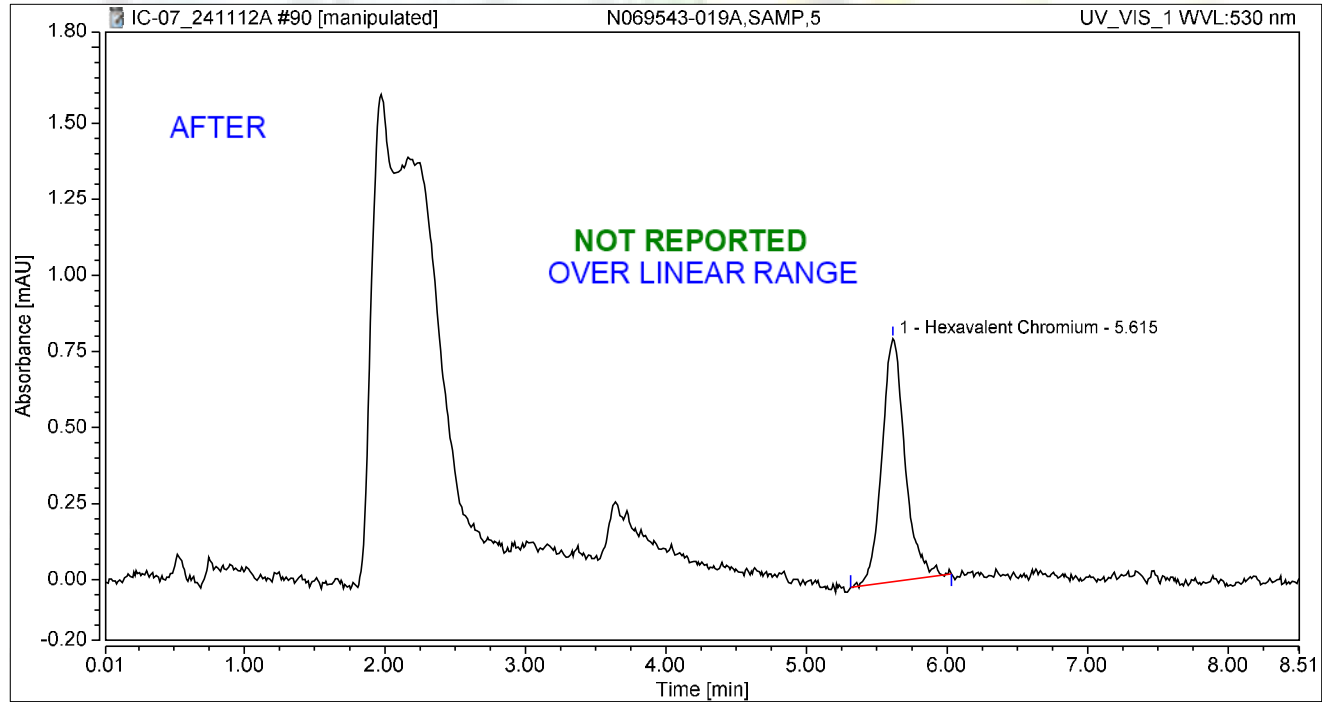
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.598	0.773	3.684	100.00	100.00	2.7228
Total:			0.773	3.684	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069543-019A,SAMP,5	Run Time (min): 8.49
Vial Number:	37	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Nov/24 23:43	Sample Weight: 1.0000

Chromatogram



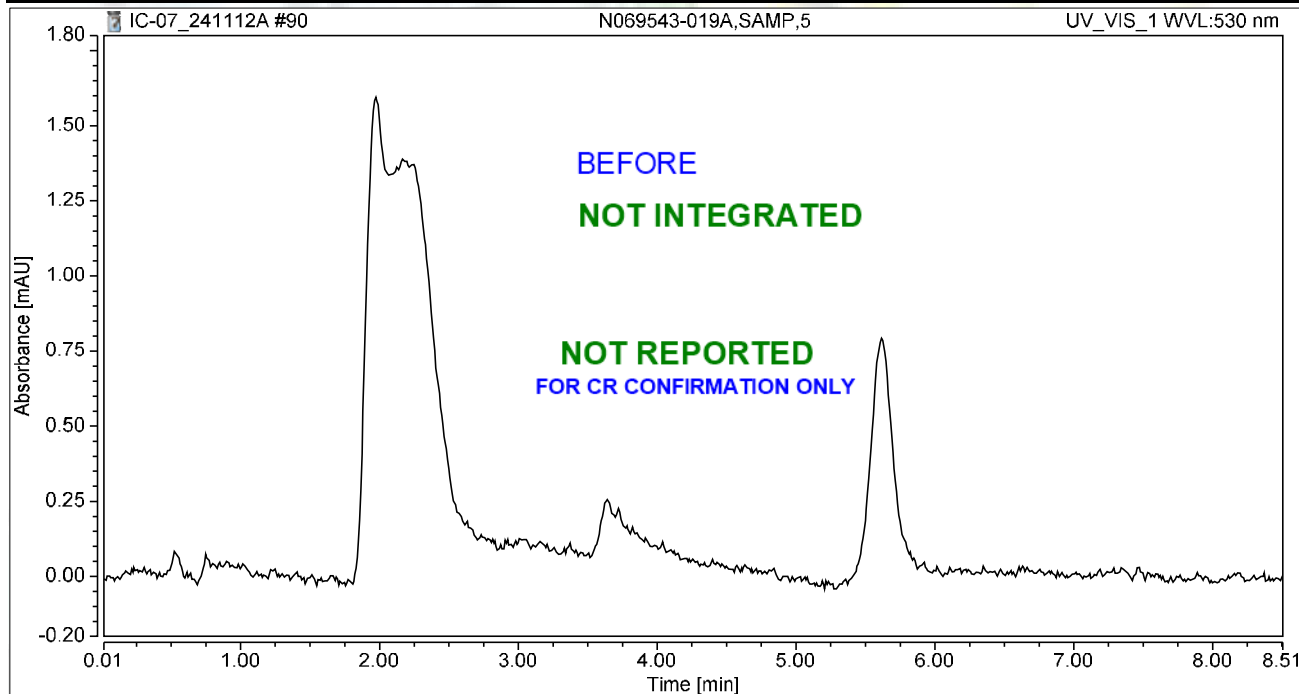
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.615	0.152	0.799	100.00	100.00	0.5357
Total:			0.152	0.799	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-019A,SAMP,5	Run Time (min):	8.49
Vial Number:	37	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 23:43	Sample Weight:	1.0000

Chromatogram



Integration Results

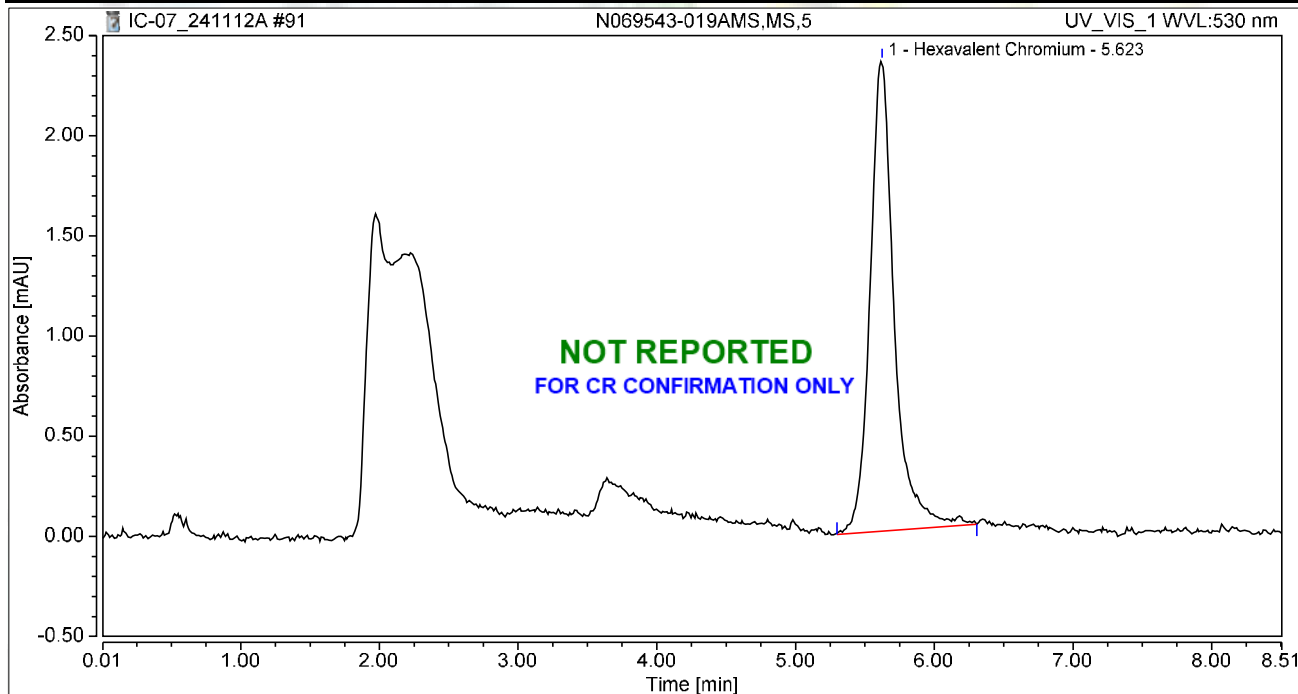
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-019AMS,MS,5	Run Time (min):	8.50
Vial Number:	38	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 23:52	Sample Weight:	1.0000

Chromatogram



Integration Results

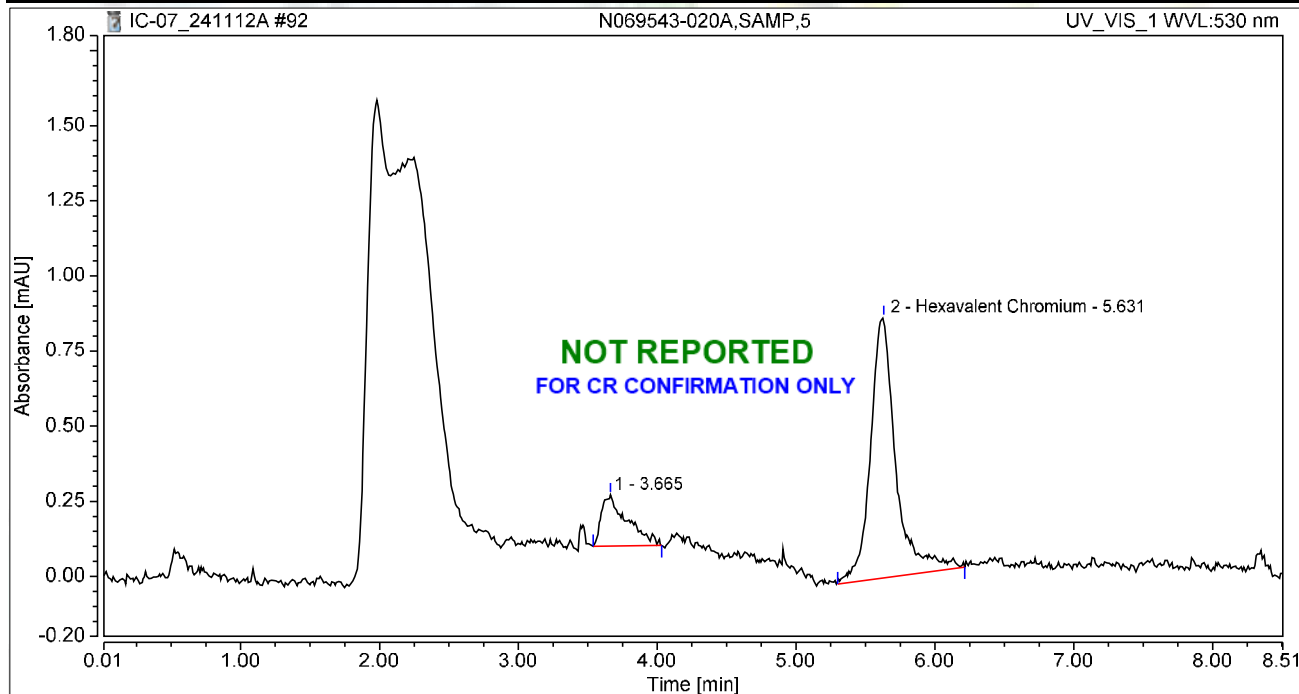
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.623	0.476	2.348	100.00	100.00	1.6770
Total:			0.476	2.348	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-020A,SAMP,5	Run Time (min):	8.49
Vial Number:	39	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 00:02	Sample Weight:	1.0000

Chromatogram



Integration Results

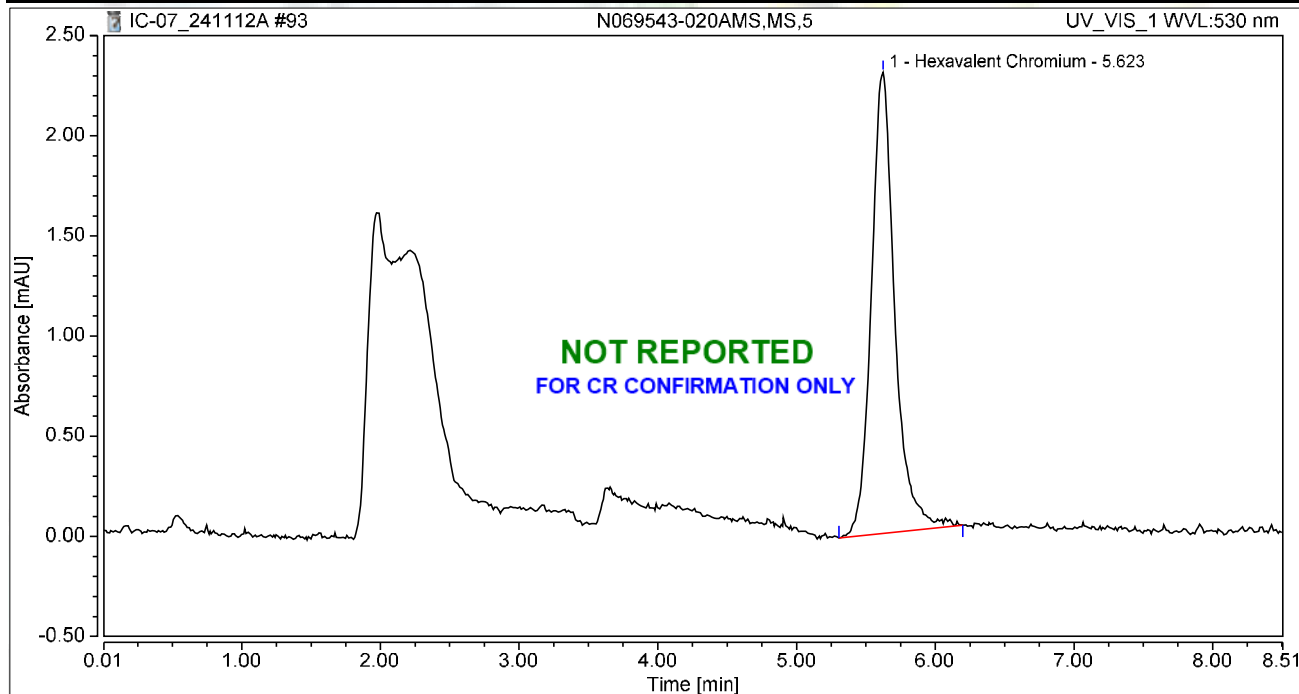
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.665	0.037	0.171	16.65	16.45	n.a.
2	Hexavalent Chromium	5.631	0.183	0.866	83.35	83.55	0.6455
Total:			0.220	1.037	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-020AMS,MS,5	Run Time (min):	8.50
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 00:11	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.623	0.452	2.301	100.00	100.00	1.5919
Total:			0.452	2.301	100.00	100.00	

EPA 300.0



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

500



IC Technical Batch Review Checklist (ARCUS02)

IC ARCUS
REV 2.0
011416

ASSET LABORATORIES - LAS VEGAS

QC Batch Number: R194989
ASSET #: N069543

Instrument ID: NV00922-IC9
Analyst: RBA
Date Analyzed: 10/30/2024

Method:

- EPA 300.0
- EPA 7199

- EPA 218.6/EPA 218.7
- EPA 218.6/EPA 218.7 LL
- Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria ?(r = 0.995, r =0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)			X			X
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?			X			X
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?			X			X
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
14. For Hinkley DOM samples, matrix spike protocol performed on all samples ? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed ?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)			X			X
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

Please see CAR 8236

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA

Date: _____

2nd Level Reviewer jrb 11/5/2024

Date: _____

SAMPLE CALCULATION



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL TECHNOLOGIES

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Sample Calculation

METHOD: EPA 300
TEST NAME: INORGANIC ANIONS BY IC
MATRIX: GROUNDWATER

FORMULA:

Calculate the Nitrate concentration, in mg/L, in the original sample as follows:

$$\text{Nitrate, mg/L} = A * DF$$

where:

A = mg/L, IC calculated concentration
DF = dilution factor

For **N069543-004C** concentration in mg/L is calculated as follows:

$$\begin{aligned}\text{Nitrate, mg/L} &= 0.7869 * 10 \\ &= 7.869\end{aligned}$$

Reporting result in two significant figures,

$$\text{Nitrate, mg/L} = 7.9$$

Reviewed by:

M. Rocha 12/1/2024

ANALYSIS RUN LOG



ASSET LABORATORIES
INTEGRATION • INNOVATION • IMPROVEMENT

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"Serving Clients with Passion and Professionalism"


Sequence: IC-09_241028A
Operator: IC-05

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 9

Created: 10/28/2024 9:32:32 AM by IC-05
Last Update: 10/28/2024 12:46:27 PM by IC-05


No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions_Default	EPA 300_0_240928A	Finished
2	Std - 0	Standard	2	1000.0	Anions_Default	EPA 300_0_240928A	Finished
3	Std - 1	Standard	4	1000.0	Anions_Default	EPA 300_0_240928A	Finished
4	Std - 2	Standard	5	1000.0	Anions_Default	EPA 300_0_240928A	Finished
5	Std - 3	Standard	6	1000.0	Anions_Default	EPA 300_0_240928A	Finished
6	Std - 4	Standard	7	1000.0	Anions_Default	EPA 300_0_240928A	Finished
7	Std - 5	Standard	8	1000.0	Anions_Default	EPA 300_0_240928A	Finished
8	ICV,ICV,1	Unknown	9	1000.0	Anions_Default	EPA 300_0_240928A	Finished
9	ICB,ICB,1	Unknown	10	1000.0	Anions_Default	EPA 300_0_240928A	Finished

EPA 300.0_0_241028A

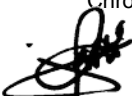
 11/18/2024
for RBA

Note: Method name typographical error. Calibration standard files confirmed with 10/28/2024 analysis dates.

Reviewed by:

 11/5/2024

Processed by:



Sequence: IC-09_241028A
Operator: IC-05

Page 2 of 2
Printed: 10/29/2024 1:07:03 AM

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 9

Created: 10/28/2024 9:32:32 AM by IC-05
Last Update: 10/28/2024 12:46:27 PM by IC-05


No.	Name	Inj. Date/Time	Comment
1	BLANK	10/28/2024 9:39:25 AM	BLANK
2	Std - 0	10/28/2024 9:54:44 AM	IBLANK
3	Std - 1	10/28/2024 10:10:40 AM	STD-LOW
4	Std - 2	10/28/2024 10:26:36 AM	STD
5	Std - 3	10/28/2024 10:42:31 AM	STD
6	Std - 4	10/28/2024 10:58:27 AM	STD
7	Std - 5	10/28/2024 11:14:23 AM	STD-HIGH
8	ICV,ICV,1	10/28/2024 11:36:10 AM	ICV, IWST-241023B
9	ICB,ICB,1	10/28/2024 11:52:05 AM	ICB

Sequence: IC-09_241030A
Operator: IC-05

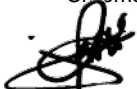
Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 37

Created: 10/29/2024 10:12:48 AM by IC-05
Last Update: 10/30/2024 10:58:08 AM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions_Default	EPA 300_0_240928A	Finished
2	Std - 0	Standard	2	1000.0	Anions_Default	EPA 300_0_240928A	Finished
3	Std - 1	Standard	4	1000.0	Anions_Default	EPA 300_0_240928A	Finished
4	Std - 2	Standard	5	1000.0	Anions_Default	EPA 300_0_240928A	Finished
5	Std - 3	Standard	6	1000.0	Anions_Default	EPA 300_0_240928A	Finished
6	Std - 4	Standard	7	1000.0	Anions_Default	EPA 300_0_240928A	Finished
7	Std - 5	Standard	8	1000.0	Anions_Default	EPA 300_0_240928A	Finished
8	BLANK	Unknown	1	1000.0	Anions_Default	EPA 300_0_240928A	Finished
9	CCV-1,CCV,1	Unknown	2	1000.0	Anions_Default	EPA 300_0_240928A	Finished
10	CCB-1,CCB,1	Unknown	3	1000.0	Anions_Default	EPA 300_0_240928A	Finished
11	MB-H2O,MBLK,1	Unknown	4	1000.0	Anions_Default	EPA 300_0_240928A	Finished
12	LCS-H2O,LCS,1	Unknown	5	1000.0	Anions_Default	EPA 300_0_240928A	Finished
13	N069543-001C,SAMP,10	Unknown	1	1000.0	Anions_Default	EPA 300_0_240928A	Finished
14	N069543-002C,SAMP,5	Unknown	2	1000.0	Anions_Default	EPA 300_0_240928A	Finished
15	N069543-003C,SAMP,5	Unknown	3	1000.0	Anions_Default	EPA 300_0_240928A	Finished
16	N069543-004C,SAMP,10	Unknown	4	1000.0	Anions_Default	EPA 300_0_240928A	Finished
17	N069543-005C,SAMP,10	Unknown	5	1000.0	Anions_Default	EPA 300_0_240928A	Finished
18	N069543-006C,SAMP,10	Unknown	6	1000.0	Anions_Default	EPA 300_0_240928A	Finished
19	N069543-007C,SAMP,10	Unknown	7	1000.0	Anions_Default	EPA 300_0_240928A	Finished
20	N069543-010C,SAMP,10	Unknown	8	1000.0	Anions_Default	EPA 300_0_240928A	Finished
21	CCV-2,CCV,1	Unknown	9	1000.0	Anions_Default	EPA 300_0_240928A	Finished
22	CCB-2,CCB,1	Unknown	10	1000.0	Anions_Default	EPA 300_0_240928A	Finished
23	N069543-011C,SAMP,5	Unknown	11	1000.0	Anions_Default	EPA 300_0_240928A	Finished
24	N069543-012C,SAMP,5	Unknown	12	1000.0	Anions_Default	EPA 300_0_240928A	Finished
25	N069543-013C,SAMP,5	Unknown	13	1000.0	Anions_Default	EPA 300_0_240928A	Finished
26	N069543-014C,SAMP,5	Unknown	14	1000.0	Anions_Default	EPA 300_0_240928A	Finished
27	N069543-015C,SAMP,5	Unknown	15	1000.0	Anions_Default	EPA 300_0_240928A	Finished
28	N069543-016C,SAMP,5	Unknown	16	1000.0	Anions_Default	EPA 300_0_240928A	Finished
29	N069543-017C,SAMP,5	Unknown	17	1000.0	Anions_Default	EPA 300_0_240928A	Finished
30	N069543-001CMS,MS,10	Unknown	18	1000.0	Anions_Default	EPA 300_0_240928A	Finished
31	N069543-001CMSD,MSD,10	Unknown	19	1000.0	Anions_Default	EPA 300_0_240928A	Finished
32	N069543-005CMS,MS,10	Unknown	20	1000.0	Anions_Default	EPA 300_0_240928A	Finished
33	CCV-3,CCV,1	Unknown	21	1000.0	Anions_Default	EPA 300_0_240928A	Finished
34	CCB-3,CCB,1	Unknown	22	1000.0	Anions_Default	EPA 300_0_240928A	Finished
35	N069543-010CDUP,DUP,10	Unknown	23	1000.0	Anions_Default	EPA 300_0_240928A	Finished
36	CCV-4,CCV,1	Unknown	24	1000.0	Anions_Default	EPA 300_0_240928A	Finished
37	CCB-4,CCB,1	Unknown	25	1000.0	Anions_Default	EPA 300_0_240928A	Finished

 11/20/2024
For RBA

Processed by:



10/30/2024

NV00922-IC9 RBA 10/30/2024 6:57:03 PM

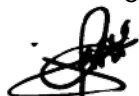
507

Sequence: IC-09_241030A
Operator: IC-05

Page 2 of 2
Printed: 10/30/2024 6:56:41 PM

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 37
Created: 10/29/2024 10:12:48 AM by IC-05
Last Update: 10/30/2024 10:58:08 AM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	10/28/2024 9:39:25 AM	BLANK
2	Std - 0	10/28/2024 9:54:44 AM	IBLANK
3	Std - 1	10/28/2024 10:10:40 AM	STD-LOW
4	Std - 2	10/28/2024 10:26:36 AM	STD
5	Std - 3	10/28/2024 10:42:31 AM	STD
6	Std - 4	10/28/2024 10:58:27 AM	STD
7	Std - 5	10/28/2024 11:14:23 AM	STD-HIGH
8	BLANK	10/30/2024 8:48:29 AM	BLANK
9	CCV-1,CCV,1	10/30/2024 9:03:48 AM	CCV, IWST-241023A
10	CCB-1,CCB,1	10/30/2024 9:19:44 AM	CCB
11	MB-H2O,MBLK,1	10/30/2024 9:35:39 AM	MB
12	LCS-H2O,LCS,1	10/30/2024 9:51:34 AM	LCS, IWST-241023B
13	N069543-001C,SAMP,10	10/30/2024 10:24:36 AM	SAMP,1>10mL,
14	N069543-002C,SAMP,5	10/30/2024 10:39:54 AM	SAMP,2>10mL,
15	N069543-003C,SAMP,5	10/30/2024 10:55:49 AM	SAMP,2>10mL,
16	N069543-004C,SAMP,10	10/30/2024 11:11:45 AM	SAMP,1>10mL,
17	N069543-005C,SAMP,10	10/30/2024 11:27:40 AM	SAMP,1>10mL,
18	N069543-006C,SAMP,10	10/30/2024 11:43:35 AM	SAMP,1>10mL,
19	N069543-007C,SAMP,10	10/30/2024 11:59:31 AM	SAMP,1>10mL,
20	N069543-010C,SAMP,10	10/30/2024 12:15:27 PM	SAMP,1>10mL,
21	CCV-2,CCV,1	10/30/2024 12:31:22 PM	CCV, IWST-241023A
22	CCB-2,CCB,1	10/30/2024 12:47:17 PM	CCB
23	N069543-011C,SAMP,5	10/30/2024 1:03:13 PM	SAMP,2>10mL,
24	N069543-012C,SAMP,5	10/30/2024 1:19:09 PM	SAMP,2>10mL,
25	N069543-013C,SAMP,5	10/30/2024 1:35:05 PM	SAMP,2>10mL,
26	N069543-014C,SAMP,5	10/30/2024 1:51:01 PM	SAMP,2>10mL,
27	N069543-015C,SAMP,5	10/30/2024 2:06:56 PM	SAMP,2>10mL,
28	N069543-016C,SAMP,5	10/30/2024 2:22:52 PM	SAMP,2>10mL,
29	N069543-017C,SAMP,5	10/30/2024 2:38:48 PM	SAMP,2>10mL,
30	N069543-001CMS,MS,10	10/30/2024 2:54:43 PM	MS,1>10mL,
31	N069543-001CMSD,MSD,10	10/30/2024 3:10:38 PM	MSD,1>10mL,
32	N069543-005CMS,MS,10	10/30/2024 3:26:34 PM	MS,1>10mL,
33	CCV-3,CCV,1	10/30/2024 3:42:29 PM	CCV, IWST-241023A
34	CCB-3,CCB,1	10/30/2024 3:58:25 PM	CCB
35	N069543-010CDUP,DUP,10	10/30/2024 4:14:20 PM	DUP,1>10mL,
36	CCV-4,CCV,1	10/30/2024 4:30:16 PM	CCV, IWST-241023A
37	CCB-4,CCB,1	10/30/2024 4:46:12 PM	CCB



INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
INTEGRATION OF SURVEILLANCE, ANALYTICAL, & TESTING SERVICES

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"Serving Clients with Passion and Professionalism"

(EPA 300) - INITIAL CALIBRATION

Instrument ID: NV00922-IC9

Date Calibrated: 10/28/2024

Initial Calibration:

Nitrate	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in mg/L	0	0.05	0.25	0.5	1.25	2.5	R ²
Area,mAU*min	0.0000	0.0196	0.0913	0.1839	0.4636	0.9621	1.000
Measured, in mg/L	0.000000	0.067100	0.253300	0.493900	1.220400	2.515400	
Relative Error (%RE)		34.2%		-1.2%			

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST-240705D

Calibration Acceptance Criteria: > 0.995 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID ICV	SampType: ICV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194989						
Client ID: ICV	Batch ID: R194989	TestNo: EPA 300.0		Analysis Date: 10/28/2024	SeqNo: 6275089						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.328	0.050	1.250	0	106	90	110				

Sample ID CCV-1	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194989						
Client ID: CCV	Batch ID: R194989	TestNo: EPA 300.0		Analysis Date: 10/30/2024	SeqNo: 6275091						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.303	0.050	1.250	0	104	90	110				

Sample ID CCV-2	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194989						
Client ID: CCV	Batch ID: R194989	TestNo: EPA 300.0		Analysis Date: 10/30/2024	SeqNo: 6275103						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.286	0.050	1.250	0	103	90	110				

Sample ID CCV-3	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194989						
Client ID: CCV	Batch ID: R194989	TestNo: EPA 300.0		Analysis Date: 10/30/2024	SeqNo: 6275115						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.327	0.050	1.250	0	106	90	110				

Sample ID CCV-4	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194989						
Client ID: CCV	Batch ID: R194989	TestNo: EPA 300.0		Analysis Date: 10/30/2024	SeqNo: 6275118						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.277	0.050	1.250	0	102	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL INSTRUMENTATION

CALIFORNIA
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID ICB	SampType: ICB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194989						
Client ID: ICB	Batch ID: R194989	TestNo: EPA 300.0		Analysis Date: 10/28/2024	SeqNo: 6275090						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID CCB-1	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194989						
Client ID: CCB	Batch ID: R194989	TestNo: EPA 300.0		Analysis Date: 10/30/2024	SeqNo: 6275092						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID CCB-2	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194989						
Client ID: CCB	Batch ID: R194989	TestNo: EPA 300.0		Analysis Date: 10/30/2024	SeqNo: 6275104						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID CCB-3	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194989						
Client ID: CCB	Batch ID: R194989	TestNo: EPA 300.0		Analysis Date: 10/30/2024	SeqNo: 6275116						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID CCB-4	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 194989						
Client ID: CCB	Batch ID: R194989	TestNo: EPA 300.0		Analysis Date: 10/30/2024	SeqNo: 6275119						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

RETENTION TIME SUMMARY



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RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC9

Analytical Sequence

Date Analyzed: 10/30/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Nitrate 6.721	
CCV-1	Nitrate 6.761	
CCV-2	Nitrate 6.744	
CCV-3	Nitrate 6.757	
CCV-4	Nitrate 6.764	

Average 6.757
Applied RT Window 6.557 - 6.957

MB-R194989_NO3	Nitrate	6.767	PASS
LCS-R194989_NO3	Nitrate	6.751	PASS
N069543-001C	Nitrate	6.754	PASS
N069543-002C	Nitrate	N.A.	N.A.
N069543-003C	Nitrate	6.710	PASS
N069543-004C	Nitrate	6.754	PASS
N069543-005C	Nitrate	6.754	PASS
N069543-006C	Nitrate	6.754	PASS
N069543-007C	Nitrate	6.750	PASS
N069543-010C	Nitrate	6.747	PASS
N069543-011C	Nitrate	6.754	PASS
N069543-012C	Nitrate	6.764	PASS
N069543-013C	Nitrate	6.761	PASS
N069543-014C	Nitrate	N.A.	N.A.
N069543-015C	Nitrate	6.754	PASS
N069543-016C	Nitrate	6.760	PASS
N069543-017C	Nitrate	6.761	PASS
N069543-001CMS	Nitrate	6.771	PASS
N069543-001CMSD	Nitrate	6.797	PASS
N069543-005CMS	Nitrate	6.774	PASS
N069543-010CDUP	Nitrate	6.747	PASS

Reviewed by:

d/Rocha 12/1/2024

CORRECTIVE ACTION DOCUMENTATION



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ASSET Laboratories
Corrective Action Report (CAR)

Date Initiated: 02-Dec-24
Initiated By: Ria Abes

Corrective Action Report ID: 8236
Department: II-2(Anions&Per)

Corrective Action Description

CAR Summary: Method name error in anions

Description of Nonconformance: Typographical error in method name was committed when calibration performed 10/28/2024 was named EPA 300_0_240928A instead of 300_0_241028A. However, calibration standard files confirmed with 10/28/2024 analysis dates.

Description of Corrective Action: Ensuring that all entries in the sequence are correct is a must during analysis.

Performed By: Ria Abes

Completion Date: 02-Dec-24

Client Notification

Client Notification Required: No

Notified By:

Comment:

Quality Assurance Review

Corrective Action: Deficiency


Further Action required by QA:

Approval and Closure

CAR Closed By: _____

Close Date: _____

QA Reviewed By: _____

 12/2/2024

QA Date: _____

MDL STUDY



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METHOD DETECTION LIMIT (Spiked)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): 10/5/2022, 12/14/2022, 3/22/2023, 7/10/2023; 10/3/2023 & 11/14/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: mg/L

Instrument Name: **IC-08 & IC-09**

Datafile IC-08 221005A #24 IC-08 221214A #30 IC-08 230322A #35 IC-08 230710A #13 IC-09 231003A #14 IC-08 231114A #24 IC-09 231114A #19

Analyte	#1	#2	#3	#4	#5	#6	#7	Spike Conc., mg/L	SD	t _(n-1) value	MDLs	MDL	PQL
Fluoride	0.100	0.103	0.108	0.118	0.110	0.098	0.126	0.10	0.0101	3.143	0.0318	0.0318	0.10
Chloride	0.480	0.418	0.472	0.653	0.624	0.587	0.622	0.50	0.0922	3.143	0.2898	0.2898	0.50
Nitrite	0.068	0.061	0.060	0.071	0.063	0.061	0.070	0.05	0.0047	3.143	0.0149	0.0149	0.05
Bromide	0.526	0.502	0.509	0.522	0.536	0.527	0.520	0.50	0.0116	3.143	0.0364	0.0364	0.50
Nitrate	0.073	0.058	0.059	0.073	0.074	0.068	0.073	0.05	0.0068	3.143	0.0215	0.0240	0.05
Phosphate	0.112	0.096	0.114	0.120	0.130	0.093	0.124	0.10	0.0138	3.143	0.0433	0.0433	0.10
Sulfate	0.501	0.609	0.638	0.401	0.704	0.620	0.697	0.50	0.1092	3.143	0.3432	0.3432	0.50

METHOD DETECTION LIMIT (Blanks)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Analyte	MDLb	# of Records
Fluoride	0	63
Chloride	0.1456	80
Nitrite	0.0147	64
Bromide	0	18
Nitrate	0.0240	132
Phosphate	0.0237	34
Sulfate	0.2579	107

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

EPA 6020 Dissolved



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521



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 113718
ASSET #: N069543

Instrument ID: NV00922-ICP8
Analyst: DBJ

Method:
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 11/1/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?		X			X	
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)		X			X	
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits		X			X	
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

%Rec of Se in N069543-002B-PS/MS/MSD failed, low bias. However, LCS passed criteria.
 %RSD of As and Mn in N069543-006B and 017B failed. For rerun.
 %RSD of Se in N069543-005B, 12B, 13B, 15B, 16B and 17B. For rerun.
 %Rec of As in CCV3 and CCV5 failed, low bias. For rerun.

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer NS 11/12/2024

Date: _____
 Date: _____



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 113718
ASSET #: N069543

Instrument ID: NV00922-ICP8
Analyst: DBJ

Method:
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 11/3/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ?(r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)		X		X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?		X		X		
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?		X		X		
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?	X			X		
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits		X			X	
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented	X			X		
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

As and Se rerun
% Rec of Se in N069543-002B-PS/MS/MSD, failed. However, LCS passed criteria.
% RSD of Se in N069543-005B failed, several times. Please see CAR # 8168
N069543-002B (first run) = <1.0 ug/L ; confirmation: 0.04 ug/L; N069543-002A (218.6) = 1.1 ug/L ; confirmation: 0.3 ug/L
N069543-003B (first run) = <1.0 ug/L ; confirmation: 0.04 ug/L; N069543-003A (218.6) = 1.2 ug/L ; confirmation: 0.3 ug/L
N069543-007B (first run) = 1.5 ug/L ; confirmation: 1.8 ug/L; N069543-007A (218.6) = 0.36 ug/L ; confirmation: 2.0 ug/L
N069543-008B (first run) = 6.0 ug/L ; confirmation: 7.1 ug/L; N069543-008A (218.6) = 8.0 ug/L ; confirmation: 9.5 ug/L
N069543-009B (first run) = 5.1 ug/L ; confirmation: 6.0 ug/L; N069543-009A (218.6) = 7.7 ug/L ; confirmation: 8.8 ug/L
N069543-019B (first run) = 3.7 ug/L ; confirmation: 4.3 ug/L; N069543-019A (218.6) = 2.1 ug/L ; confirmation: 4.1 ug/L
N069543-020B (first run) = 3.9 ug/L ; confirmation: 4.7 ug/L; N069543-020A (218.6) = 2.4 ug/L ; confirmation: 4.0 ug/L

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
2nd Level Reviewer NS 11/12/2024

Date: _____
Date: _____

SAMPLE CALCULATION



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SAMPLE CALCULATION

METHOD: EPA 6020
TEST NAME: Heavy Metals by ICP-MS
MATRIX: Groundwater

FORMULA:

Calculate the Molybdenum concentration, in ug/L in the original sample as follows:

$$\text{Molybdenum, ug/L} = A * DF * PF$$

where:

A = ug/L, calculated concentration
DF = Dilution Factor
PF = Final Volume of Digestate, mL / Amount of Sample, mL

For Sample **N069543-001B**, the concentration in ug/L is calculated as follows:

$$\text{Molybdenum, ug/L} = 47.4168 * 1 * (25 / 25)$$

$$\text{Molybdenum, ug/L} = 47.41677$$

Reporting results in two significant figures,

$$\text{Molybdenum, ug/L} = 47$$

Reviewed by:



12/16/2024

% RSD SUMMARY



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PERCENT RSD SUMMARY: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	52 Cr [2]				55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.09	22.391	15	<PQL	0.1	31.174	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.48	3.967	15	PASS	0.42	10.345	15	PASS
Std3-5/50 ppb	ICAL	1	4.65	3.476	15	PASS	4.83	1.702	15	PASS
Std4-10/100 ppb	ICAL	1	9.36	3.708	15	PASS	9.4	3.522	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	18.47	1.601	15	PASS	19.36	1.207	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	37.68	2.102	15	PASS	38.07	1.716	15	PASS
Std7-100/1000 ppb	ICAL	1	98.85	0.823	15	PASS	98.77	1.248	15	PASS
Std8-200/2000 ppb	ICAL	1	201.23	0.396	15	PASS	201.1	0.23	15	PASS
ICV	ICV	1	9.79	1.295	15	PASS	96.81	1.325	15	PASS
ICB	ICB	1	0	569.601	15	<PQL	0	357.537	15	<PQL
LLCCV1	CCV1	1	0.09	21.034	20	<PQL	0.1	11.035	20	PASS
LLCCV1	CCV1	1	0.97	2.498	20	PASS	0.5	9.122	20	PASS
MLCCV1	CCV	1	18.99	2.161	15	PASS	20.05	1.961	15	PASS
ICSA1	ICSA	1	0.1	12.889	15	PASS	0.27	10.484	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	0.01	85.215	15	<PQL
ICSAB1	ICSAB	1	19.02	2.019	15	PASS	19.11	2.113	15	PASS
CCV1	CCV	1	18.77	1.142	15	PASS	19.53	1.345	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL	0	535.825	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	0.01	21.988	15	<PQL
ICSAB2	ICSAB	1	19.58	2.103	15	PASS	19.44	1.35	15	PASS
CCV2	CCV	1	18.89	1.663	15	PASS	19.4	1.359	15	PASS
CCB2	CCB	1	0.01	379.958	15	<PQL	0.01	76.12	15	<PQL
MB-113718	MBLK	1	<0.000	N/A	15	<PQL	0.02	11.955	15	PASS
LCS-113718	LCS	1	9.53	1.177	15	PASS	91.98	1.893	15	PASS
N069543-001B	SAMP	1	0.26	6.821	15	PASS	165.94	1.172	15	PASS
N069543-002B	SAMP	1	0.04	59.148	15	<PQL	584.42	0.325	15	PASS
N069543-002B	SAMP	5	<0.000	N/A	15	<PQL	120.56	1.402	15	PASS
N069543-002B	SAMP	10	<0.000	N/A	15	<PQL	60.95	0.573	15	PASS
N069543-002B	SAMP	50	<0.000	N/A	15	<PQL	11.92	0.504	15	PASS
N069543-002B-PS	PS	1	8.49	2.183	15	PASS	669.89	0.406	15	PASS
N069543-002B-PS	PS	10	9.18	1.129	15	PASS	151.5	1.125	15	PASS
CCV3	CCV	1	18.51	0.622	15	PASS	19.46	1.714	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL	0	84.421	15	<PQL
N069543-002B-MS	MS	1	8.64	1.421	15	PASS	668.91	1.058	15	PASS
N069543-002B-MS	MS	10	0.93	3.046	15	PASS	72.96	0.621	15	PASS
N069543-002B-MSD	MSD	1	8.69	0.658	15	PASS	671.9	0.669	15	PASS
N069543-002B-MSD	MSD	10	0.9	5.875	15	PASS	72.3	1.387	15	PASS
N069543-003B	SAMP	1	0.04	6.023	15	PASS	569.97	0.503	15	PASS
N069543-003B	SAMP	10	<0.000	N/A	15	<PQL	61.44	0.242	15	PASS
N069543-004B	SAMP	1	48.97	1.285	15	PASS	0.27	3.544	15	PASS

PERCENT RSD SUMMARY: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	52 Cr [2]				55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N069543-005B	SAMP	1	8.76	1.064	15	PASS	0.57	6.709	15	PASS
N069543-006B	SAMP	1	16.51	1.625	15	PASS	0.6	15.675	15	NR!
CCV4	CCV	1	18.92	1.056	15	PASS	19.28	1.343	15	PASS
CCB4	CCB	1	0.01	105.878	15	<PQL	0.01	25.723	15	<PQL
N069543-007B	SAMP	1	1.55	4.01	15	PASS	12.33	1.576	15	PASS
N069543-008B	SAMP	1	6.04	1.257	15	PASS	27.38	2.231	15	PASS
N069543-009B	SAMP	1	5	1.667	15	PASS	30.13	0.919	15	PASS
N069543-010B	SAMP	1	33.47	1.274	15	PASS	21.9	0.613	15	PASS
N069543-011B	SAMP	1	0.45	4.718	15	PASS	117.32	2.6	15	PASS
N069543-012B	SAMP	1	2.36	1.457	15	PASS	1.05	4.302	15	PASS
N069543-013B	SAMP	1	2.49	4.103	15	PASS	0.97	7.441	15	PASS
N069543-014B	SAMP	1	0.31	9.985	15	PASS	93.52	3.183	15	PASS
N069543-015B	SAMP	1	3.24	3.355	15	PASS	0.54	11.279	15	PASS
CCV5	CCV	1	18.64	1.536	15	PASS	19.15	1.761	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL	0.02	44.792	15	<PQL
N069543-016B	SAMP	1	9.75	2.835	15	PASS	0.36	10.801	15	PASS
N069543-017B	SAMP	1	9.6	1.404	15	PASS	0.66	6.08	15	PASS
N069543-019B	SAMP	1	3.74	2.421	15	PASS	1391.66	0.439	15	PASS
N069543-020B	SAMP	1	3.8	2.519	15	PASS	1366.19	0.998	15	PASS
CCV6	CCV	1	18.6	1.552	15	PASS	19.27	2.379	15	PASS
CCB6	CCB	1	<0.000	N/A	15	<PQL	0.02	51.034	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	0.03	22.433	15	<PQL
ICSAB3	ICSAB	1	19.01	0.72	15	PASS	19.03	0.43	15	PASS
CCV7	CCV	1	18.72	0.783	15	PASS	19.17	1.232	15	PASS
CCB7	CCB	1	0.01	116.349	15	<PQL	0	162.806	15	<PQL
CCV8	CCV	1	18.74	1.495	15	PASS	19.06	2.704	15	PASS
CCB8	CCB	1	0.02	13.762	15	PASS	0.03	48.398	15	<PQL
CCV9	CCV	1	18.57	0.178	15	PASS	19.34	1.622	15	PASS
CCB9	CCB	1	<0.000	N/A	15	<PQL	0.02	35.663	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL	0.03	3.057	15	PASS
ICSAB4	ICSAB	1	19.05	2.318	15	PASS	18.79	1.351	15	PASS

PERCENT RSD SUMMARY: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	75 As [2]				78 Se [1]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.07	31.267	15	<PQL	0.08	36.466	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.49	18.652	15	FAIL	0.39	19.134	15	<PQL
Std3-5/50 ppb	ICAL	1	4.98	5.725	15	PASS	4.57	0.724	15	PASS
Std4-10/100 ppb	ICAL	1	9.44	7.267	15	PASS	9.06	5.089	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	18.8	4.353	15	PASS	18.35	2.233	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.94	4.285	15	PASS	38.66	3.275	15	PASS
Std7-100/1000 ppb	ICAL	1	95.88	2.592	15	PASS	96.18	0.94	15	PASS
Std8-200/2000 ppb	ICAL	1	202.22	1.143	15	PASS	202.4	1.077	15	PASS
ICV	ICV	1	9.84	0.64	15	PASS	10.08	6.658	15	PASS
ICB	ICB	1	<0.000	N/A	15	<PQL	0.01	171.077	15	<PQL
LLCCV1	CCV1	1	0.1	60.127	20	FAIL	0.07	39.213	20	<PQL
LLCCV1	CCV1	1	0.12	32.98	20	FAIL	0.43	22.564	20	<PQL
MLCCV1	CCV	1	19.62	1.385	15	PASS	19.48	4.03	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	0.06	63.549	15	<PQL
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	0.01	177.885	15	<PQL
ICSAB1	ICSAB	1	19.31	0.281	15	PASS	19.33	6.385	15	PASS
CCV1	CCV	1	18.85	5.053	15	PASS	18.09	1.667	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL	0	5178.335	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	<0.000	0	15	PASS
ICSAB2	ICSAB	1	19.12	2.83	15	PASS	19.28	1.063	15	PASS
CCV2	CCV	1	18.75	1.13	15	PASS	18.69	6.822	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL	0.04	118.513	15	<PQL
MB-113718	MBLK	1	<0.000	N/A	15	<PQL	0.01	310.956	15	<PQL
LCS-113718	LCS	1	9.41	3.509	15	PASS	9.59	1.189	15	PASS
N069543-001B	SAMP	1	7.79	5.497	15	PASS	0.08	34.979	15	<PQL
N069543-002B	SAMP	1	4.37	2.729	15	PASS	0.06	27.461	15	<PQL
N069543-002B	SAMP	5	0.95	8.422	15	PASS	<0.000	0	15	PASS
N069543-002B	SAMP	10	0.46	11.17	15	PASS	<0.000	0	15	PASS
N069543-002B	SAMP	50	0.08	27.557	15	<PQL	0	6656.09	15	<PQL
N069543-002B-PS	PS	1	13.43	1.423	15	PASS	6.18	6.014	15	PASS
N069543-002B-PS	PS	10	10.44	2.428	15	PASS	9.52	3.56	15	PASS
CCV3	CCV	1	17.97	0.752	15	PASS	19.33	0.588	15	PASS
CCB3	CCB	1	0.02	213.997	15	<PQL	0.01	171.851	15	<PQL
N069543-002B-MS	MS	1	13.5	1.471	15	PASS	4.52	8.878	15	PASS
N069543-002B-MS	MS	10	1.35	10.276	15	PASS	0.54	13.929	15	PASS
N069543-002B-MSD	MSD	1	13.52	4.036	15	PASS	5.23	5.331	15	PASS
N069543-002B-MSD	MSD	10	1.49	10.921	15	PASS	0.48	12.393	15	PASS
N069543-003B	SAMP	1	3.95	6.284	15	PASS	0.05	55.54	15	<PQL
N069543-003B	SAMP	10	0.46	23.097	15	NR!	<0.000	0	15	PASS
N069543-004B	SAMP	1	0.63	7.523	15	PASS	5.85	4.969	15	PASS

PERCENT RSD SUMMARY: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	75 As [2]				78 Se [1]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N069543-005B	SAMP	1	4.15	6.625	15	PASS	0.71	25.327	15	NR!
N069543-006B	SAMP	1	3.62	20.56	15	NR!	0.48	24.253	15	<PQL
CCV4	CCV	1	18.35	6.145	15	PASS	18.93	4.464	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL	0.03	42.02	15	<PQL
N069543-007B	SAMP	1	2.01	4.838	15	PASS	0.15	20.206	15	<PQL
N069543-008B	SAMP	1	1.87	10.635	15	PASS	0.61	11.948	15	PASS
N069543-009B	SAMP	1	1.73	11.422	15	PASS	0.66	8.938	15	PASS
N069543-010B	SAMP	1	1.27	12.221	15	PASS	4.25	8.48	15	PASS
N069543-011B	SAMP	1	0.77	9.755	15	PASS	0.85	13.259	15	PASS
N069543-012B	SAMP	1	0.97	6.4	15	PASS	1.31	23.049	15	NR!
N069543-013B	SAMP	1	1.11	13.726	15	PASS	1.18	18.7	15	NR!
N069543-014B	SAMP	1	2.07	12.111	15	PASS	0.09	82.318	15	<PQL
N069543-015B	SAMP	1	4.95	3.986	15	PASS	2.24	17.345	15	NR!
CCV5	CCV	1	17.78	4.976	15	PASS	19.06	4.562	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL	0.02	55.817	15	<PQL
N069543-016B	SAMP	1	1.58	8.746	15	PASS	0.9	23.051	15	NR!
N069543-017B	SAMP	1	1.52	16.623	15	NR!	0.87	18.448	15	NR!
N069543-019B	SAMP	1	2.45	3.97	15	PASS	0.18	63.877	15	<PQL
N069543-020B	SAMP	1	2.32	3.581	15	PASS	0.21	38.331	15	<PQL
CCV6	CCV	1	18.6	5.378	15	PASS	19.18	3.356	15	PASS
CCB6	CCB	1	<0.000	N/A	15	<PQL	0.04	156.706	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	<0.000	0	15	PASS
ICSAB3	ICSAB	1	18.38	5.411	15	PASS	19.72	1.733	15	PASS
CCV7	CCV	1	17.87	0.863	15	PASS	19.79	3.314	15	PASS
CCB7	CCB	1	<0.000	N/A	15	<PQL	0.02	140.907	15	<PQL
CCV8	CCV	1	17.32	3.38	15	PASS	18.75	3.762	15	PASS
CCB8	CCB	1	<0.000	N/A	15	<PQL	0.04	59.778	15	<PQL
CCV9	CCV	1	18.45	2.617	15	PASS	18.93	3.16	15	PASS
CCB9	CCB	1	<0.000	N/A	15	<PQL	0.01	156.136	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL	0.02	142.725	15	<PQL
ICSAB4	ICSAB	1	18.57	1.167	15	PASS	19.45	1.26	15	PASS

PERCENT RSD SUMMARY: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	95 Mo [2]			
			Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.11	6.486	15	PASS
Std2-0.5/5 ppb	ICAL	1	0.43	4.104	15	PASS
Std3-5/50 ppb	ICAL	1	4.59	2.195	15	PASS
Std4-10/100 ppb	ICAL	1	9.3	0.699	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	18.65	0.586	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	38.23	0.465	15	PASS
Std7-100/1000 ppb	ICAL	1	96.12	1.213	15	PASS
Std8-200/2000 ppb	ICAL	1	202.47	0.578	15	PASS
ICV	ICV	1	9.53	1.069	15	PASS
ICB	ICB	1	0.06	16.138	15	<PQL
LLCCV1	CCV1	1	0.12	16.519	20	PASS
LLCCV1	CCV1	1	0.49	1.449	20	PASS
MLCCV1	CCV	1	18.76	2.068	15	PASS
ICSA1	ICSA	1	0.08	16.277	15	<PQL
ICSA1	ICSA	1	0.01	10.798	15	PASS
ICSAB1	ICSAB	1	19.05	1.983	15	PASS
CCV1	CCV	1	18.5	1.373	15	PASS
CCB1	CCB	1	0.06	21.708	15	<PQL
ICSA2	ICSA	1	0.01	114.039	15	<PQL
ICSAB2	ICSAB	1	18.91	0.65	15	PASS
CCV2	CCV	1	18.12	0.769	15	PASS
CCB2	CCB	1	0.04	12.433	15	PASS
MB-113718	MBLK	1	0.02	40.371	15	<PQL
LCS-113718	LCS	1	9.39	2.135	15	PASS
N069543-001B	SAMP	1	47.42	1.222	15	PASS
N069543-002B	SAMP	1	46.9	0.99	15	PASS
N069543-002B	SAMP	5	9.24	1.276	15	PASS
N069543-002B	SAMP	10	4.58	1.636	15	PASS
N069543-002B	SAMP	50	0.86	1.474	15	PASS
N069543-002B-PS	PS	1	58.62	1.106	15	PASS
N069543-002B-PS	PS	10	15.15	2.213	15	PASS
CCV3	CCV	1	18.72	2.299	15	PASS
CCB3	CCB	1	0.05	18.686	15	<PQL
N069543-002B-MS	MS	1	58.86	1.2	15	PASS
N069543-002B-MS	MS	10	5.88	0.819	15	PASS
N069543-002B-MSD	MSD	1	58.74	0.246	15	PASS
N069543-002B-MSD	MSD	10	5.95	2.675	15	PASS
N069543-003B	SAMP	1	46.83	1.884	15	PASS
N069543-003B	SAMP	10	4.75	0.691	15	PASS
N069543-004B	SAMP	1	3.26	1.904	15	PASS

PERCENT RSD SUMMARY: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	95 Mo [2]			
			Conc. [ppb]	RSD	Criteria	Comment
N069543-005B	SAMP	1	32.06	0.935	15	PASS
N069543-006B	SAMP	1	51.73	1.341	15	PASS
CCV4	CCV	1	18.84	0.619	15	PASS
CCB4	CCB	1	0.05	20.27	15	<PQL
N069543-007B	SAMP	1	1.43	4.414	15	PASS
N069543-008B	SAMP	1	41.56	1.789	15	PASS
N069543-009B	SAMP	1	41.07	0.983	15	PASS
N069543-010B	SAMP	1	17.42	1.661	15	PASS
N069543-011B	SAMP	1	7.92	3.603	15	PASS
N069543-012B	SAMP	1	11.68	2.481	15	PASS
N069543-013B	SAMP	1	11.91	0.568	15	PASS
N069543-014B	SAMP	1	49.49	1.875	15	PASS
N069543-015B	SAMP	1	87.43	0.355	15	PASS
CCV5	CCV	1	18.9	1.534	15	PASS
CCB5	CCB	1	0.07	9.999	15	PASS
N069543-016B	SAMP	1	12.32	1.821	15	PASS
N069543-017B	SAMP	1	11.96	0.331	15	PASS
N069543-019B	SAMP	1	49.67	1.045	15	PASS
N069543-020B	SAMP	1	49.63	0.556	15	PASS
CCV6	CCV	1	18.83	2.557	15	PASS
CCB6	CCB	1	0.06	8.168	15	PASS
ICSA3	ICSA	1	0.03	52.149	15	<PQL
ICSAB3	ICSAB	1	19.13	2.814	15	PASS
CCV7	CCV	1	18.9	2.313	15	PASS
CCB7	CCB	1	0.06	18.345	15	<PQL
CCV8	CCV	1	18.87	1.655	15	PASS
CCB8	CCB	1	0.07	20.847	15	<PQL
CCV9	CCV	1	18.8	1.632	15	PASS
CCB9	CCB	1	0.04	23.71	15	<PQL
ICSA4	ICSA	1	0.01	129.738	15	<PQL
ICSAB4	ICSAB	1	19.35	1.428	15	PASS

PERCENT RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	52 Cr [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.1	2.746	15	PASS	0.13	42.953	15	FAIL
Std2-0.5/5 ppb	ICAL	1	0.48	3.48	15	PASS	0.54	10.145	15	PASS
Std3-5/50 ppb	ICAL	1	4.73	2.948	15	PASS	4.51	6.574	15	PASS
Std4-10/100 ppb	ICAL	1	9.49	1.571	15	PASS	9.64	2.92	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	18.91	2.242	15	PASS	18.81	0.85	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	38.49	0.946	15	PASS	38.2	4.623	15	PASS
Std7-100/1000 ppb	ICAL	1	97.48	1.076	15	PASS	98.44	4.1	15	PASS
Std8-200/2000 ppb	ICAL	1	201.7	2.211	15	PASS	201.29	1.784	15	PASS
ICV	ICV	1	9.77	1.476	15	PASS	9.65	4.812	15	PASS
ICB	ICB	1	<0.000	N/A	15	<PQL	0.01	326.628	15	<PQL
LLCCV1	CCV1	1	0.07	24.333	20	<PQL	0.08	49.159	20	<PQL
LLCCV2	CCV1	1	0.98	3.403	20	PASS	0.12	51.25	20	FAIL
MLCCV1	CCV	1	19.22	1.057	15	PASS	18.69	3.354	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	0.02	86.414	15	<PQL
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	0.02	42.121	15	<PQL
ICSAB1	ICSAB	1	19.5	3.261	15	PASS	19.26	5.434	15	PASS
CCV1	CCV	1	19.38	1.356	15	PASS	18.22	3.511	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL	0.01	149.398	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	0.02	42.695	15	<PQL
ICSAB2	ICSAB	1	19.36	1.169	15	PASS	19.19	2.139	15	PASS
MB-113718	MBLK	1	<0.000	N/A	15	<PQL	0.01	169.027	15	<PQL
LCS-113718	LCS	1	9.63	2.42	15	PASS	9.4	7.3	15	PASS
N069543-001B	SAMP	1	0.25	17.612	15	<PQL	7.43	2.808	15	PASS
N069543-002B	SAMP	1	0.01	65.926	15	<PQL	4.34	4.593	15	PASS
N069543-002B	SAMP	5	<0.000	N/A	15	<PQL	0.94	8.661	15	PASS
N069543-002B-PS	PS	1	8.62	2.038	15	PASS	13.6	5.074	15	PASS
N069543-002B-MS	MS	1	8.66	1.89	15	PASS	13.53	5.218	15	PASS
N069543-002B-MSD	MSD	1	8.77	3.136	15	PASS	14.19	6.251	15	PASS
N069543-003B	SAMP	1	0.05	36.364	15	<PQL	4.12	3.77	15	PASS
CCV2	CCV	1	18.61	1.401	15	PASS	18.56	3.978	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL	0.01	159.22	15	<PQL
N069543-004B	SAMP	1	48.58	1.719	15	PASS	0.68	12.357	15	PASS
N069543-005B	SAMP	1	8.8	2.194	15	PASS	4.43	4.941	15	PASS
N069543-006B	SAMP	1	16.51	3.721	15	PASS	3.82	3.165	15	PASS
N069543-007B	SAMP	1	1.5	2.991	15	PASS	2.14	9.949	15	PASS
N069543-008B	SAMP	1	6.01	4.202	15	PASS	1.66	12.722	15	PASS
N069543-009B	SAMP	1	5.14	1.166	15	PASS	1.81	4.373	15	PASS
N069543-010B	SAMP	1	33.15	0.835	15	PASS	1.18	3.639	15	PASS
N069543-011B	SAMP	1	0.39	3.862	15	PASS	0.67	11.468	15	PASS
N069543-012B	SAMP	1	2.36	3.601	15	PASS	0.93	5.058	15	PASS

PERCENT RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	52 Cr [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
CCV3	CCV	1	18.5	1.936	15	PASS	18.43	4.538	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL	0.04	112.271	15	<PQL
N069543-013B	SAMP	1	2.55	4.74	15	PASS	1.22	2.715	15	PASS
N069543-014B	SAMP	1	0.31	5.455	15	PASS	2.36	5.253	15	PASS
N069543-015B	SAMP	1	3.24	2.645	15	PASS	4.85	3.538	15	PASS
N069543-016B	SAMP	1	9.7	2.039	15	PASS	1.54	9.904	15	PASS
N069543-017B	SAMP	1	9.42	0.447	15	PASS	1.67	5.971	15	PASS
N069543-019B	SAMP	1	3.73	3.918	15	PASS	2.64	5.191	15	PASS
N069543-020B	SAMP	1	3.87	3.694	15	PASS	2.47	13.926	15	PASS
N069543-005B	SAMP	1	8.72	2.099	15	PASS	4.33	2.725	15	PASS
N069543-006B	SAMP	1	16.78	1.378	15	PASS	3.47	0.837	15	PASS
N069543-005B	SAMP	1	8.53	1.646	15	PASS	4.24	18.588	15	NR!
CCV4	CCV	1	18.54	0.977	15	PASS	19.23	2.918	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL	0.01	159.18	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	0.02	158.939	15	<PQL
ICSAB3	ICSAB	1	18.57	1.492	15	PASS	17.98	3.367	15	PASS
CCV5	CCV	1	19.12	1.362	15	PASS	19.12	3.351	15	PASS
CCB5	CCB	1	0.01	167.893	15	<PQL	0.03	162.345	15	<PQL
CCV6	CCV	1	18.91	1.153	15	PASS	18.71	5.814	15	PASS
CCB6	CCB	1	<0.000	N/A	15	<PQL	0	46824.375	15	<PQL
CCV7	CCV	1	19.01	2.242	15	PASS	19.26	2.211	15	PASS
CCB7	CCB	1	0	8628.481	15	<PQL	0.03	73.995	15	<PQL
CCV8	CCV	1	19.22	2.191	15	PASS	18.84	2.852	15	PASS
CCB8	CCB	1	<0.000	N/A	15	<PQL	0.01	151.109	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL	0.04	67.415	15	<PQL
ICSAB4	ICSAB	1	18.6	1.753	15	PASS	18.65	3.86	15	PASS
CCV9	CCV	1	19.14	0.962	15	PASS	19.62	1.057	15	PASS
CCB9	CCB	1	<0.000	N/A	15	<PQL	0.03	106.449	15	<PQL
CCV10	CCV	1	18.39	1.827	15	PASS	19.46	0.822	15	PASS
CCB10	CCB	1	<0.000	N/A	15	<PQL	0.03	125.315	15	<PQL
CCV11	CCV	1	19.14	1.887	15	PASS	18.78	1.152	15	PASS
CCB11	CCB	1	<0.000	N/A	15	<PQL	0.02	60.37	15	<PQL
CCV12	CCV	1	18.69	2.273	15	PASS	18.2	2.781	15	PASS
CCB12	CCB	1	<0.000	N/A	15	<PQL	0.01	171.917	15	<PQL
ICSA5	ICSA	1	<0.000	N/A	15	<PQL	0.01	146.87	15	<PQL
ICSAB5	ICSAB	1	18.87	0.732	15	PASS	18.73	4.101	15	PASS

PERCENT RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	78 Se [1]			
			Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.11	68.579	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.5	8.352	15	PASS
Std3-5/50 ppb	ICAL	1	4.79	6.677	15	PASS
Std4-10/100 ppb	ICAL	1	9.33	7.346	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	18.43	1.905	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	38.34	1.105	15	PASS
Std7-100/1000 ppb	ICAL	1	96.14	1.504	15	PASS
Std8-200/2000 ppb	ICAL	1	202.46	1.198	15	PASS
ICV	ICV	1	9.68	2.456	15	PASS
ICB	ICB	1	0.02	173.205	15	<PQL
LLCCV1	CCV1	1	0.13	71.188	20	<PQL
LLCCV2	CCV1	1	0.53	32.46	20	FAIL
MLCCV1	CCV	1	18.78	3.912	15	PASS
ICSA1	ICSA	1	0.01	173.205	15	<PQL
ICSA1	ICSA	1	0.01	173.205	15	<PQL
ICSAB1	ICSAB	1	18.98	0.502	15	PASS
CCV1	CCV	1	18.79	2.414	15	PASS
CCB1	CCB	1	0.04	91.329	15	<PQL
ICSA2	ICSA	1	0.04	92.053	15	<PQL
ICSAB2	ICSAB	1	18.99	3.292	15	PASS
MB-113718	MBLK	1	0.02	99.143	15	<PQL
LCS-113718	LCS	1	9.64	4.745	15	PASS
N069543-001B	SAMP	1	0.09	57.822	15	<PQL
N069543-002B	SAMP	1	0.07	88.795	15	<PQL
N069543-002B	SAMP	5	0.02	86.66	15	<PQL
N069543-002B-PS	PS	1	6.03	3.207	15	PASS
N069543-002B-MS	MS	1	4.8	6.648	15	PASS
N069543-002B-MSD	MSD	1	4.38	5.304	15	PASS
N069543-003B	SAMP	1	0.07	25.77	15	<PQL
CCV2	CCV	1	19.05	4.52	15	PASS
CCB2	CCB	1	0.01	173.205	15	<PQL
N069543-004B	SAMP	1	5.69	6.974	15	PASS
N069543-005B	SAMP	1	0.71	22.725	15	NR!
N069543-006B	SAMP	1	0.52	38.579	15	NR!
N069543-007B	SAMP	1	0.11	33.728	15	<PQL
N069543-008B	SAMP	1	0.74	12.097	15	PASS
N069543-009B	SAMP	1	0.57	12.696	15	PASS
N069543-010B	SAMP	1	3.88	2.043	15	PASS
N069543-011B	SAMP	1	0.55	3.79	15	PASS
N069543-012B	SAMP	1	0.99	12.006	15	PASS

PERCENT RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	78 Se [1]			
			Conc. [ppb]	RSD	Criteria	Comment
CCV3	CCV	1	18.01	3.075	15	PASS
CCB3	CCB	1	0	N/A	15	<PQL
N069543-013B	SAMP	1	0.89	2.153	15	PASS
N069543-014B	SAMP	1	0.09	45.147	15	<PQL
N069543-015B	SAMP	1	2.09	7.209	15	PASS
N069543-016B	SAMP	1	0.89	13.972	15	PASS
N069543-017B	SAMP	1	0.8	14.217	15	PASS
N069543-019B	SAMP	1	0.13	35.341	15	<PQL
N069543-020B	SAMP	1	0.25	19.443	15	<PQL
N069543-005B	SAMP	1	0.75	18.682	15	NR!
N069543-006B	SAMP	1	0.52	7.85	15	PASS
N069543-005B	SAMP	1	0.71	15.677	15	NR!
CCV4	CCV	1	18.28	4.138	15	PASS
CCB4	CCB	1	0.03	115.342	15	<PQL
ICSA3	ICSA	1	0.02	99.399	15	<PQL
ICSAB3	ICSAB	1	18.43	1.617	15	PASS
CCV5	CCV	1	18.29	2.82	15	PASS
CCB5	CCB	1	0	N/A	15	<PQL
CCV6	CCV	1	19.35	2.551	15	PASS
CCB6	CCB	1	0.02	100.254	15	<PQL
CCV7	CCV	1	18.44	1.185	15	PASS
CCB7	CCB	1	0.02	173.205	15	<PQL
CCV8	CCV	1	19.05	3.495	15	PASS
CCB8	CCB	1	0.02	100.758	15	<PQL
ICSA4	ICSA	1	0.02	86.623	15	<PQL
ICSAB4	ICSAB	1	18.37	3.681	15	PASS
CCV9	CCV	1	18.78	3.906	15	PASS
CCB9	CCB	1	0.02	86.615	15	<PQL
CCV10	CCV	1	18.59	2.96	15	PASS
CCB10	CCB	1	0.02	86.627	15	<PQL
CCV11	CCV	1	19.42	3.947	15	PASS
CCB11	CCB	1	0.03	42.921	15	<PQL
CCV12	CCV	1	19.08	2.878	15	PASS
CCB12	CCB	1	0.02	173.205	15	<PQL
ICSA5	ICSA	1	0.02	86.604	15	<PQL
ICSAB5	ICSAB	1	19.51	1.622	15	PASS

ANALYSIS RUN LOG



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INJECTION LOG: 241101C

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1101001.d	RINSE	ICAL	1	11/01/24 8:03 PM
B1101002.d	RINSE	ICAL	1	11/01/24 8:09 PM
B1101003.d	RINSE	ICAL	1	11/01/24 8:14 PM
B1101004.d	Cal Blk	IBLK	1	11/01/24 8:20 PM
B1101005.d	Std1-0.1/1 ppb	ICAL	1	11/01/24 8:26 PM
B1101006.d	Std2-0.5/5 ppb	ICAL	1	11/01/24 8:32 PM
B1101007.d	Std3-5/50 ppb	ICAL	1	11/01/24 8:39 PM
B1101008.d	Std4-10/100 ppb	ICAL	1	11/01/24 8:45 PM
B1101009.d	Std5-4.0/20/200 ppb	ICAL	1	11/01/24 8:51 PM
B1101010.d	Std6-8.0/40/400 ppb	ICAL	1	11/01/24 8:57 PM
B1101011.d	Std7-100/1000 ppb	ICAL	1	11/01/24 9:03 PM
B1101012.d	Std8-200/2000 ppb	ICAL	1	11/01/24 9:09 PM
B1101013.d	ICV	ICV	1	11/01/24 9:33 PM
B1101014.d	ICB	ICB	1	11/01/24 9:39 PM
B1101015.d	LLCCV1	CCV1	1	11/01/24 9:45 PM
B1101016.d	LLCCV1	CCV1	1	11/01/24 9:51 PM
B1101017.d	MLCCV1	CCV	1	11/01/24 9:57 PM
B1101018.d	ICSA1	ICSA	1	11/01/24 10:03 PM
B1101019.d	ICSA1	ICSA	1	11/01/24 10:08 PM
B1101020.d	ICSAB1	ICSAB	1	11/01/24 10:14 PM
B1101022.d	N069234-002A	SAMP	1	11/01/24 10:20 PM
B1101023.d	N069234-002D	SAMP	1	11/01/24 10:26 PM
B1101024.d	N069234-007A	SAMP	1	11/01/24 10:32 PM
B1101025.d	N069234-007D	SAMP	1	11/01/24 10:38 PM
B1101026.d	N069234-016A	SAMP	1	11/01/24 10:44 PM
B1101027.d	N069234-016D	SAMP	1	11/01/24 10:50 PM
B1101028.d	RINSE	ICAL	1	11/01/24 10:56 PM
B1101029.d	CCV1	CCV	1	11/01/24 11:01 PM
B1101030.d	CCB1	CCB	1	11/01/24 11:07 PM
B1101031.d	ICSA2	ICSA	1	11/01/24 11:13 PM
B1101032.d	ICSAB2	ICSAB	1	11/01/24 11:19 PM
B1101033.d	N069263-001B	SAMP	1	11/01/24 11:25 PM
B1101034.d	N069498-003B	SAMP	1	11/01/24 11:31 PM
B1101035.d	N069498-006B	SAMP	1	11/01/24 11:37 PM
B1101036.d	N069498-008B	SAMP	1	11/01/24 11:43 PM
B1101037.d	CCV2	CCV	1	11/02/24 1:01 AM
B1101038.d	CCB2	CCB	1	11/02/24 1:07 AM
B1101039.d	MB-113718	MBLK	1	11/02/24 1:13 AM
B1101040.d	LCS-113718	LCS	1	11/02/24 1:19 AM
B1101041.d	N069543-001B	SAMP	1	11/02/24 1:25 AM
B1101042.d	N069543-002B	SAMP	1	11/02/24 1:31 AM
B1101043.d	N069543-002B	SAMP	5	11/02/24 1:37 AM

INJECTION LOG: 241101C

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1101044.d	N069543-002B	SAMP	10	11/02/24 1:43 AM
B1101045.d	N069543-002B	SAMP	50	11/02/24 1:49 AM
B1101046.d	N069543-002B-PS	PS	1	11/02/24 1:54 AM
B1101047.d	N069543-002B-PS	PS	10	11/02/24 2:00 AM
B1101048.d	CCV3	CCV	1	11/02/24 2:06 AM
B1101049.d	CCB3	CCB	1	11/02/24 2:12 AM
B1101050.d	N069543-002B-MS	MS	1	11/02/24 2:18 AM
B1101051.d	N069543-002B-MS	MS	10	11/02/24 2:24 AM
B1101052.d	N069543-002B-MSD	MSD	1	11/02/24 2:30 AM
B1101053.d	N069543-002B-MSD	MSD	10	11/02/24 2:36 AM
B1101054.d	N069543-003B	SAMP	1	11/02/24 2:42 AM
B1101055.d	N069543-003B	SAMP	10	11/02/24 2:48 AM
B1101056.d	N069543-004B	SAMP	1	11/02/24 2:54 AM
B1101057.d	N069543-005B	SAMP	1	11/02/24 3:00 AM
B1101058.d	N069543-006B	SAMP	1	11/02/24 3:06 AM
B1101059.d	RINSE	ICAL	1	11/02/24 3:12 AM
B1101060.d	CCV4	CCV	1	11/02/24 3:17 AM
B1101061.d	CCB4	CCB	1	11/02/24 3:23 AM
B1101062.d	N069543-007B	SAMP	1	11/02/24 3:29 AM
B1101063.d	N069543-008B	SAMP	1	11/02/24 3:35 AM
B1101064.d	N069543-009B	SAMP	1	11/02/24 3:41 AM
B1101065.d	N069543-010B	SAMP	1	11/02/24 3:47 AM
B1101066.d	N069543-011B	SAMP	1	11/02/24 3:53 AM
B1101067.d	N069543-012B	SAMP	1	11/02/24 3:59 AM
B1101068.d	N069543-013B	SAMP	1	11/02/24 4:05 AM
B1101069.d	N069543-014B	SAMP	1	11/02/24 4:11 AM
B1101070.d	N069543-015B	SAMP	1	11/02/24 4:17 AM
B1101071.d	RINSE	ICAL	1	11/02/24 4:23 AM
B1101072.d	CCV5	CCV	1	11/02/24 4:29 AM
B1101073.d	CCB5	CCB	1	11/02/24 4:35 AM
B1101074.d	N069543-016B	SAMP	1	11/02/24 4:40 AM
B1101075.d	N069543-017B	SAMP	1	11/02/24 4:46 AM
B1101076.d	N069543-019B	SAMP	1	11/02/24 4:52 AM
B1101077.d	N069543-020B	SAMP	1	11/02/24 4:58 AM
B1101078.d	RINSE	ICAL	1	11/02/24 5:04 AM
B1101079.d	CCV6	CCV	1	11/02/24 5:10 AM
B1101080.d	CCB6	CCB	1	11/02/24 5:16 AM
B1101081.d	ICSA3	ICSA	1	11/02/24 5:22 AM
B1101082.d	ICSAB3	ICSAB	1	11/02/24 5:28 AM
B1101083.d	MB-113746	MBLK	1	11/02/24 5:34 AM
B1101084.d	LCS-113746	LCS	1	11/02/24 5:39 AM
B1101085.d	N069542-001B	SAMP	1	11/02/24 5:45 AM

INJECTION LOG: 241101C

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1101086.d	N069542-002B	SAMP	1	11/02/24 5:51 AM
B1101087.d	N069542-003B	SAMP	1	11/02/24 5:57 AM
B1101088.d	N069582-002B	SAMP	1	11/02/24 6:03 AM
B1101089.d	N069582-003B	SAMP	1	11/02/24 6:09 AM
B1101090.d	N069582-004B	SAMP	1	11/02/24 6:15 AM
B1101091.d	N069582-005B	SAMP	1	11/02/24 6:21 AM
B1101092.d	RINSE	ICAL	1	11/02/24 6:27 AM
B1101093.d	CCV7	CCV	1	11/02/24 6:33 AM
B1101094.d	CCB7	CCB	1	11/02/24 6:39 AM
B1101095.d	N069582-006B	SAMP	1	11/02/24 6:44 AM
B1101096.d	N069583-001B	SAMP	1	11/02/24 6:50 AM
B1101097.d	N069583-002B	SAMP	1	11/02/24 6:56 AM
B1101098.d	N069583-003B	SAMP	1	11/02/24 7:02 AM
B1101099.d	N069583-003B	SAMP	5	11/02/24 7:08 AM
B1101100.d	N069583-003B-PS	PS	1	11/02/24 7:14 AM
B1101101.d	N069583-003BMS	MS	1	11/02/24 7:20 AM
B1101102.d	N069583-003BMSD	MSD	1	11/02/24 7:26 AM
B1101103.d	N069583-004B	SAMP	1	11/02/24 7:32 AM
B1101104.d	RINSE	ICAL	1	11/02/24 7:38 AM
B1101105.d	CCV8	CCV	1	11/02/24 7:44 AM
B1101106.d	CCB8	CCB	1	11/02/24 7:49 AM
B1101107.d	N069583-006B	SAMP	1	11/02/24 7:55 AM
B1101108.d	N069583-008B	SAMP	1	11/02/24 8:01 AM
B1101109.d	N069583-009B	SAMP	1	11/02/24 8:07 AM
B1101110.d	N069583-010B	SAMP	1	11/02/24 8:13 AM
B1101111.d	N069585-001B	SAMP	1	11/02/24 8:19 AM
B1101112.d	RINSE	ICAL	1	11/02/24 8:25 AM
B1101113.d	CCV9	CCV	1	11/02/24 8:31 AM
B1101114.d	CCB9	CCB	1	11/02/24 8:37 AM
B1101115.d	ICSA4	ICSA	1	11/02/24 8:42 AM
B1101116.d	ICSAB4	ICSAB	1	11/02/24 8:48 AM
B1101117.d	RINSE	ICAL	1	11/02/24 8:54 AM
B1101118.d	RINSE	ICAL	1	11/02/24 9:00 AM
B1101119.d	RINSE	ICAL	1	11/02/24 9:06 AM

INJECTION LOG: 241103B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1103001.d	RINSE	ICAL	1	11/03/24 10:21 PM
A1103002.d	RINSE	ICAL	1	11/03/24 10:27 PM
A1103003.d	RINSE	ICAL	1	11/03/24 10:33 PM
A1103004.d	Cal Blk	IBLK	1	11/03/24 10:39 PM
A1103005.d	Std1-0.1/1 ppb	ICAL	1	11/03/24 10:45 PM
A1103006.d	Std2-0.5/5 ppb	ICAL	1	11/03/24 10:51 PM
A1103007.d	Std3-5/50 ppb	ICAL	1	11/03/24 10:57 PM
A1103008.d	Std4-10/100 ppb	ICAL	1	11/03/24 11:03 PM
A1103009.d	Std5-4.0/20/200 ppb	ICAL	1	11/03/24 11:09 PM
A1103010.d	Std6-8.0/40/400 ppb	ICAL	1	11/03/24 11:15 PM
A1103011.d	Std7-100/1000 ppb	ICAL	1	11/03/24 11:21 PM
A1103012.d	Std8-200/2000 ppb	ICAL	1	11/03/24 11:27 PM
A1103013.d	ICV	ICV	1	11/03/24 11:53 PM
A1103014.d	ICB	ICB	1	11/03/24 11:59 PM
A1103015.d	LLCCV1	CCV1	1	11/04/24 12:05 AM
A1103016.d	LLCCV2	CCV1	1	11/04/24 12:11 AM
A1103017.d	MLCCV1	CCV	1	11/04/24 12:17 AM
A1103018.d	ICSA1	ICSA	1	11/04/24 12:22 AM
A1103019.d	ICSA1	ICSA	1	11/04/24 12:28 AM
A1103020.d	ICSAB1	ICSAB	1	11/04/24 12:34 AM
A1103021.d	N069306-004A	SAMP	1	11/04/24 12:40 AM
A1103022.d	N069306-004D	SAMP	1	11/04/24 12:46 AM
A1103023.d	N069306-005A	SAMP	1	11/04/24 12:52 AM
A1103024.d	N069306-005D	SAMP	1	11/04/24 12:57 AM
A1103025.d	N069306-008A	SAMP	1	11/04/24 1:03 AM
A1103026.d	N069306-008D	SAMP	1	11/04/24 1:09 AM
A1103027.d	RINSE	ICAL	1	11/04/24 1:15 AM
A1103028.d	CCV1	CCV	1	11/04/24 1:21 AM
A1103029.d	CCB1	CCB	1	11/04/24 1:27 AM
A1103030.d	ICSA2	ICSA	1	11/04/24 1:33 AM
A1103031.d	ICSAB2	ICSAB	1	11/04/24 1:39 AM
A1103032.d	MB-113718	MBLK	1	11/04/24 1:44 AM
A1103033.d	LCS-113718	LCS	1	11/04/24 1:50 AM
A1103034.d	N069543-001B	SAMP	1	11/04/24 1:56 AM
A1103035.d	N069543-002B	SAMP	1	11/04/24 2:02 AM
A1103036.d	N069543-002B	SAMP	5	11/04/24 2:08 AM
A1103037.d	N069543-002B-PS	PS	1	11/04/24 2:14 AM
A1103038.d	N069543-002B-MS	MS	1	11/04/24 2:20 AM
A1103039.d	N069543-002B-MSD	MSD	1	11/04/24 2:26 AM
A1103040.d	N069543-003B	SAMP	1	11/04/24 2:32 AM
A1103041.d	RINSE	ICAL	1	11/04/24 2:38 AM
A1103042.d	CCV2	CCV	1	11/04/24 2:44 AM

INJECTION LOG: 241103B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1103043.d	CCB2	CCB	1	11/04/24 2:50 AM
A1103044.d	N069543-004B	SAMP	1	11/04/24 2:55 AM
A1103045.d	N069543-005B	SAMP	1	11/04/24 3:01 AM
A1103046.d	N069543-006B	SAMP	1	11/04/24 3:07 AM
A1103047.d	N069543-007B	SAMP	1	11/04/24 3:13 AM
A1103048.d	N069543-008B	SAMP	1	11/04/24 3:19 AM
A1103049.d	N069543-009B	SAMP	1	11/04/24 3:25 AM
A1103050.d	N069543-010B	SAMP	1	11/04/24 3:31 AM
A1103051.d	N069543-011B	SAMP	1	11/04/24 3:37 AM
A1103052.d	N069543-012B	SAMP	1	11/04/24 3:43 AM
A1103053.d	RINSE	ICAL	1	11/04/24 3:49 AM
A1103054.d	CCV3	CCV	1	11/04/24 3:55 AM
A1103055.d	CCB3	CCB	1	11/04/24 4:01 AM
A1103056.d	N069543-013B	SAMP	1	11/04/24 4:07 AM
A1103057.d	N069543-014B	SAMP	1	11/04/24 4:13 AM
A1103058.d	N069543-015B	SAMP	1	11/04/24 4:19 AM
A1103059.d	N069543-016B	SAMP	1	11/04/24 4:25 AM
A1103060.d	N069543-017B	SAMP	1	11/04/24 4:30 AM
A1103061.d	N069543-019B	SAMP	1	11/04/24 4:36 AM
A1103062.d	N069543-020B	SAMP	1	11/04/24 4:42 AM
A1103063.d	N069543-005B	SAMP	1	11/04/24 4:48 AM
A1103064.d	N069543-006B	SAMP	1	11/04/24 4:54 AM
A1103065.d	N069543-005B	SAMP	1	11/04/24 5:00 AM
A1103066.d	CCV4	CCV	1	11/04/24 5:09 AM
A1103067.d	CCB4	CCB	1	11/04/24 5:15 AM
A1103068.d	ICSA3	ICSA	1	11/04/24 5:21 AM
A1103069.d	ICSAB3	ICSAB	1	11/04/24 5:27 AM
A1103070.d	MB-113746	MBLK	1	11/04/24 5:32 AM
A1103071.d	LCS-113746	LCS	1	11/04/24 5:38 AM
A1103072.d	N069542-001B	SAMP	10	11/04/24 5:44 AM
A1103073.d	N069542-002B	SAMP	10	11/04/24 5:50 AM
A1103074.d	N069542-003B	SAMP	10	11/04/24 5:56 AM
A1103075.d	N069582-002B	SAMP	1	11/04/24 6:02 AM
A1103076.d	N069582-003B	SAMP	1	11/04/24 6:08 AM
A1103077.d	N069582-004B	SAMP	1	11/04/24 6:14 AM
A1103078.d	N069582-005B	SAMP	1	11/04/24 6:19 AM
A1103079.d	RINSE	ICAL	1	11/04/24 6:25 AM
A1103080.d	CCV4	CCV	1	11/04/24 6:31 AM
A1103081.d	CCB4	CCB	1	11/04/24 6:37 AM
A1103082.d	N069582-006B	SAMP	1	11/04/24 6:43 AM
A1103083.d	N069583-001B	SAMP	1	11/04/24 6:49 AM
A1103084.d	N069583-001B	SAMP	10	11/04/24 6:55 AM

INJECTION LOG: 241103B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1103085.d	N069583-002B	SAMP	1	11/04/24 7:01 AM
A1103086.d	N069583-002B	SAMP	10	11/04/24 7:07 AM
A1103087.d	N069583-003B	SAMP	1	11/04/24 7:12 AM
A1103088.d	N069583-003B	SAMP	5	11/04/24 7:18 AM
A1103089.d	N069583-003B	SAMP	10	11/04/24 7:24 AM
A1103090.d	N069583-003B	SAMP	50	11/04/24 7:30 AM
A1103091.d	CCV5	CCV	1	11/04/24 7:36 AM
A1103092.d	CCB5	CCB	1	11/04/24 7:42 AM
A1103093.d	N069583-003B-PS	PS	1	11/04/24 7:48 AM
A1103094.d	N069583-003B-PS	PS	10	11/04/24 7:54 AM
A1103095.d	N069583-003BMS	MS	1	11/04/24 8:00 AM
A1103096.d	N069583-003BMS	MS	10	11/04/24 8:05 AM
A1103097.d	N069583-003BMSD	MSD	1	11/04/24 8:11 AM
A1103098.d	N069583-003BMSD	MSD	10	11/04/24 8:17 AM
A1103099.d	N069583-004B	SAMP	1	11/04/24 8:23 AM
A1103100.d	N069583-004B	SAMP	10	11/04/24 8:29 AM
A1103101.d	N069583-006B	SAMP	1	11/04/24 8:35 AM
A1103102.d	RINSE	ICAL	1	11/04/24 8:41 AM
A1103103.d	CCV6	CCV	1	11/04/24 8:47 AM
A1103104.d	CCB6	CCB	1	11/04/24 8:53 AM
A1103105.d	N069583-008B	SAMP	1	11/04/24 8:58 AM
A1103106.d	N069583-008B	SAMP	10	11/04/24 9:04 AM
A1103107.d	N069583-009B	SAMP	1	11/04/24 9:10 AM
A1103108.d	N069583-009B	SAMP	10	11/04/24 9:16 AM
A1103109.d	N069583-010B	SAMP	1	11/04/24 9:22 AM
A1103110.d	N069583-010B	SAMP	100	11/04/24 9:28 AM
A1103111.d	N069585-001B	SAMP	1	11/04/24 9:34 AM
A1103112.d	RINSE	ICAL	1	11/04/24 9:40 AM
A1103113.d	CCV7	CCV	1	11/04/24 9:46 AM
A1103114.d	CCB7	CCB	1	11/04/24 9:52 AM
A1103115.d	ICSA4	ICSA	1	11/04/24 9:57 AM
A1103116.d	ICSAB4	ICSAB	1	11/04/24 10:03 AM
A1103117.d	MB-113831	MBLK	1	11/04/24 10:09 AM
A1103118.d	LCS-113831	LCS	1	11/04/24 10:15 AM
A1103119.d	N069629-001B	SAMP	1	11/04/24 10:21 AM
A1103120.d	N069629-001B	SAMP	5	11/04/24 10:27 AM
A1103121.d	N069629-001B-PS	PS	1	11/04/24 10:33 AM
A1103122.d	N069629-001B-MS	MS	1	11/04/24 10:39 AM
A1103123.d	N069629-001B-MSD	MSD	1	11/04/24 10:45 AM
A1103124.d	N069629-002B	SAMP	1	11/04/24 10:50 AM
A1103125.d	N069631-008B	SAMP	1	11/04/24 10:56 AM
A1103126.d	RINSE	ICAL	1	11/04/24 11:02 AM

INJECTION LOG: 241103B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1103127.d	CCV8	CCV	1	11/04/24 11:08 AM
A1103128.d	CCB8	CCB	1	11/04/24 11:14 AM
A1103129.d	N069631-009B	SAMP	1	11/04/24 11:20 AM
A1103130.d	N069631-010B	SAMP	1	11/04/24 11:26 AM
A1103131.d	N069631-011B	SAMP	1	11/04/24 11:32 AM
A1103132.d	N069631-012B	SAMP	1	11/04/24 11:38 AM
A1103133.d	N069631-013B	SAMP	1	11/04/24 11:44 AM
A1103134.d	N069631-014B	SAMP	1	11/04/24 11:50 AM
A1103135.d	N069638-001B	SAMP	1	11/04/24 11:56 AM
A1103136.d	N069638-002B	SAMP	1	11/04/24 12:02 PM
A1103137.d	N069638-003B	SAMP	1	11/04/24 12:08 PM
A1103138.d	RINSE	ICAL	1	11/04/24 12:14 PM
A1103139.d	CCV9	CCV	1	11/04/24 12:20 PM
A1103140.d	CCB9	CCB	1	11/04/24 12:25 PM
A1103141.d	N069638-007B	SAMP	1	11/04/24 12:31 PM
A1103142.d	N069638-008B	SAMP	1	11/04/24 12:37 PM
A1103143.d	N069638-009B	SAMP	1	11/04/24 12:43 PM
A1103144.d	RINSE	ICAL	1	11/04/24 12:49 PM
A1103145.d	CCV10	CCV	1	11/04/24 12:55 PM
A1103146.d	CCB10	CCB	1	11/04/24 1:01 PM
A1103147.d	MB-113832	MBLK	1	11/04/24 1:07 PM
A1103148.d	LCS-113832	LCS	1	11/04/24 1:12 PM
A1103149.d	N069542-001C	SAMP	1	11/04/24 1:18 PM
A1103150.d	N069542-001C	SAMP	5	11/04/24 1:24 PM
A1103151.d	N069542-001C-PS	PS	1	11/04/24 1:30 PM
A1103152.d	N069542-001C-MS	MS	1	11/04/24 1:36 PM
A1103153.d	N069542-001C-MSD	MSD	1	11/04/24 1:42 PM
A1103154.d	N069542-002C	SAMP	1	11/04/24 1:48 PM
A1103155.d	N069542-003C	SAMP	1	11/04/24 1:54 PM
A1103156.d	RINSE	ICAL	1	11/04/24 2:00 PM
A1103157.d	CCV11	CCV	1	11/04/24 2:06 PM
A1103158.d	CCB11	CCB	1	11/04/24 2:12 PM
A1103159.d	ICSA5	ICSA	1	11/04/24 2:17 PM
A1103160.d	ICSAB5	ICSAB	1	11/04/24 2:23 PM
A1103161.d	RINSE	ICAL	1	11/04/24 2:29 PM
A1103162.d	RINSE	ICAL	1	11/04/24 2:35 PM

SAMPLE PREPARATION LOG



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545

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: **10/30/2024 9:56:56 AM**

Reviewed/ Date: JRB 11/15/2024

Page: 1 of 2

Prep End Date: **10/30/2024 1:50:00 PM**

Initials/ Date: _____ for _____

Prep Factor Units Temp. (°C): Location:

Prep Batch **113718** Prep Code: **3010_W_MSDISS_TPK**

Technician: **Diane Jetajobe**

mL / mL **95.1 DB-4-37**

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-113718 50ML LOT# J96406-5447	Aqueous		25	<input type="checkbox"/>	25	1.000		
MB-113718 THERMOMETER ID: DIGESTION 7	Aqueous		25	<input type="checkbox"/>	25	1.000		
N069543-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069543-002B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069543-002B-MS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069543-002B-MSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069543-003B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069543-004B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069543-005B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069543-006B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069543-007B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069543-008B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069543-009B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17140	NITRIC ACID
17147	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-240815C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-240815D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-240815E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-240815F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 10/30/2024 9:56:56 AM

Prep End Date: 10/30/2024 1:50:00 PM

Prep Batch 113718 Prep Code:3010_W_MSDISS_TPK

Reviewed/ Date: *JRB* 11/15/2024

Initials/ Date: for _____

Technician: Diane Jetajobe

Page:2 of 2

Prep Factor Units mL / mL Temp. (°C): 95.1 Location: DB-4-37

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N069543-010B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069543-011B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069543-012B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069543-013B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069543-014B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069543-015B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069543-016B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069543-017B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069543-019B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069543-020B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17140	NITRIC ACID
17147	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-240815C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-240815D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-240815E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-240815F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

INSTRUMENT TUNING CHECK



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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\241031A2.b
Acq. Date-Time 2024-11-01 08:40:26
Report Comment —
Instrument Name G8421A SG19193757

[No Gas]

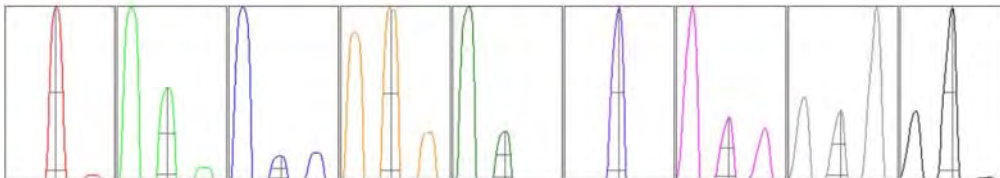
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	7356	73559.99	500.00		2.032	5.000
24	10.00	20517	205168.32	500.00		2.486	5.000
25	10.00	2713	27133.34	500.00		3.226	5.000
26	10.00	3106	31059.03	500.00		2.715	5.000
59	10.00	30751	307510.11	500.00		3.166	5.000
115	10.00	39048	390475.77	500.00		1.887	5.000
206	10.00	8592	85918.90	500.00		1.818	5.000
207	10.00	6781	67813.70	500.00		1.630	5.000
208	10.00	16982	169817.76	500.00		1.559	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.370 %
Doubly Charged 70 / 140 0.996 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	7530.09	8.90	8.90 - 9.10	
24	20369.50	23.90	23.90 - 24.10	
25	2614.33	24.95	24.90 - 25.10	
26	3048.83	25.90	25.90 - 26.10	
59	29609.26	58.95	58.90 - 59.10	
115	37460.70	115.00	114.90 - 115.10	
206	8565.55	205.95	205.90 - 206.10	
207	7135.03	206.95	206.90 - 207.10	
208	17872.34	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.38	0.526	0.900	
24	0.43	0.539	0.900	
25	0.43	0.533	0.900	
26	0.42	0.537	0.900	
59	0.40	0.498	0.900	
115	0.37	0.490	0.900	
206	0.37	0.559	0.900	
207	0.36	0.582	0.900	
208	0.36	0.573	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.2 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2635 V Pulse HV 1863 V

[H2]

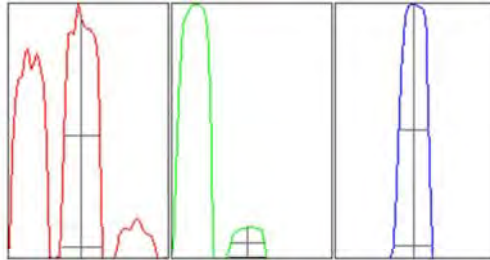
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		163	1628.88			9.264	
59		3302	33015.53			3.035	
115		32124	321242.76			1.905	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.266 %
 Doubly Charged 70 / 140 0.332 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	160.26	25.90	25.90 - 26.10	
59	3418.62	58.95	58.90 - 59.10	
115	33020.69	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.67	0.788	0.900	
59	0.63	0.738	0.900	
115	0.57	0.732	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0003	QP Bias	-15.0 V
Mass Offset	126	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2635 V	Pulse HV	1863 V
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[He]

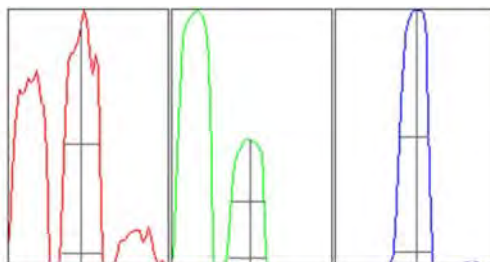
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		68	684.01			14.980	
59		5890	58899.04			2.185	
115		5350	53501.17			2.585	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.114 %
Doubly Charged	70 / 140 1.167 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	72.75	25.90	25.90 - 26.10	
59	6029.36	59.00	58.90 - 59.10	
115	5411.85	115.05	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.66	0.790	0.900	
59	0.62	0.740	0.900	
115	0.56	0.730	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0003	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2635 V	Pulse HV	1863 V
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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\241101C.b
Acq. Date-Time 2024-11-03 22:07:00
Report Comment —
Instrument Name G8421A SG19193757

[No Gas]

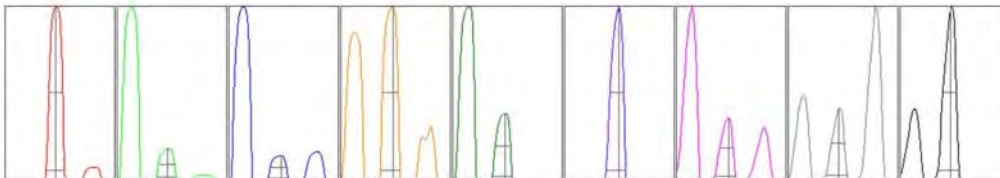
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	5417	54171.13	500.00		3.895	5.000
24	10.00	18113	181134.68	500.00		3.162	5.000
25	10.00	2399	23988.24	500.00		3.991	5.000
26	10.00	2740	27402.98	500.00		3.005	5.000
59	10.00	27813	278128.90	500.00		2.762	5.000
115	10.00	37760	377603.09	500.00		2.136	5.000
206	10.00	7957	79573.41	500.00		2.578	5.000
207	10.00	6230	62297.19	500.00		2.171	5.000
208	10.00	15627	156271.60	500.00		1.981	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.488 %
Doubly Charged 70 / 140 0.858 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	5382.53	8.90	8.90 - 9.10	
24	18039.81	23.90	23.90 - 24.10	
25	2372.48	24.95	24.90 - 25.10	
26	2782.62	25.95	25.90 - 26.10	
59	27056.27	58.95	58.90 - 59.10	
115	37443.11	115.00	114.90 - 115.10	
206	8208.37	205.95	205.90 - 206.10	
207	6843.19	206.90	206.90 - 207.10	
208	16836.48	207.90	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.38	0.490	0.900	
24	0.45	0.541	0.900	
25	0.45	0.548	0.900	
26	0.44	0.542	0.900	
59	0.42	0.538	0.900	
115	0.39	0.531	0.900	
206	0.37	0.582	0.900	
207	0.36	0.606	0.900	
208	0.38	0.594	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.1 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2640 V Pulse HV 1872 V

[H2]

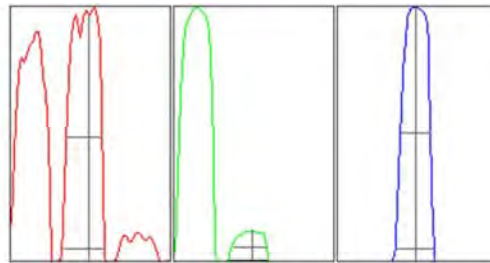
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		161	1614.68			6.992	
59		2324	23240.02			3.102	
115		32900	328995.40			2.512	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.408 %
 Doubly Charged 70 / 140 0.277 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	161.26	26.00	25.90 - 26.10	
59	2408.83	59.00	58.90 - 59.10	
115	34382.52	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.68	0.792	0.900	
59	0.65	0.743	0.900	
115	0.57	0.732	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	132	Axis Gain	1.0001	QP Bias	-15.0 V
Mass Offset	126	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.1 mm
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EM

Discriminator	4.5 mV	Analog HV	2640 V	Pulse HV	1872 V
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[He]

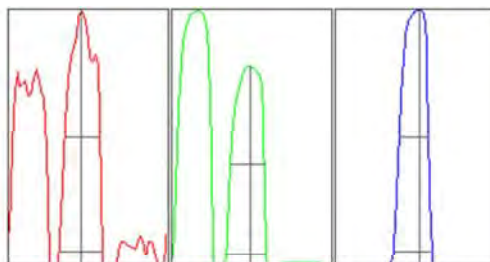
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		70	703.81			10.429	
59		6107	61071.23			1.630	
115		5125	51248.17			1.987	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.177 %
Doubly Charged	70 / 140 1.101 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	73.25	25.90	25.90 - 26.10	
59	6259.21	59.00	58.90 - 59.10	
115	5150.25	115.10	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.67	0.821	0.900	
59	0.64	0.742	0.900	
115	0.56	0.729	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	132	Axis Gain	1.0001	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.1 mm
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EM

Discriminator	4.5 mV	Analog HV	2640 V	Pulse HV	1872 V
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INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INITIAL CALIBRATION SUMMARY: 241101C

Instrument ID: NV00922-ICP8

Analyte	Data File	B1101004.d	B1101005.d	B1101006.d	B1101007.d	B1101008.d	B1101009.d	B1101010.d	B1101011.d	B1101012.d	R
	Acq. Date-Time	11/01/2024 08:20 PM	11/01/2024 08:26 PM	11/01/2024 08:32 PM	11/01/2024 08:39 PM	11/01/2024 08:45 PM	11/01/2024 08:51 PM	11/01/2024 08:57 PM	11/01/2024 09:03 PM	11/01/2024 09:09 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
	Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	
45 Sc (ISTD) [2]	CPS	30750.5		30119.4	30091.5	29964.6	30468.9	30167.2	28974	28449.8	
55 Mn [2]	CPS	10		490	5495.4	10636.8	22279.4	43357.7	108019.2	215945.1	0.9999
52 Cr [2]	CPS	184.4		1235.6	10339.9	20532.7	41047.2	82708.9	208144.8	415878.9	0.9999
72 Ge (ISTD) [1]	CPS	62044.8		61219.4	61029.9	61363.3	61225.1	60591.6	58450.6	56620.9	
78 Se [1]	CPS	1.1		63.3	720	1432.3	2895.8	6034.5	14479.8	29513.4	0.9997
72 Ge (ISTD) [2]	CPS	17199.1	17383.7	17099	17053.4	16748.6	16859.8	16586.2	16517.2	15996.8	
75 As [2]	CPS	8.9	25.6	126.7	1202.3	2231.3	4457.3	9311.6	22255.2	45449.7	0.9997
103 Rh (ISTD) [2]	CPS	473624.3		467022.8	467887.7	464006	463543.8	458018	452543.8	436771.3	
95 Mo [2]	CPS	17.8		534.5	5553.2	11140.6	22302.2	45149.8	112136.8	227941.3	0.9997

Standard Code
ICAL: 2MSST-240311B
ICAL: 2MSST-240311C
ICAL: 2MWST-240815K
ICV: 2MWST-240815G
LLICV: 2MWST-240815J
IS Mix: 2MWST-240815A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Analyte	Data File	A1103004.d	A1103005.d	A1103006.d	A1103007.d	A1103008.d	A1103009.d	A1103010.d	A1103011.d	A1103012.d	R
	Acq. Date-Time	11/03/2024 10:39 PM	11/03/2024 10:45 PM	11/03/2024 10:51 PM	11/03/2024 10:57 PM	11/03/2024 11:03 PM	11/03/2024 11:09 PM	11/03/2024 11:15 PM	11/03/2024 11:21 PM	11/03/2024 11:27 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
	Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	
45 Sc (ISTD) [2]	CPS	26765.9	26996.3	27130.9	26916.1	27340.1	26553.3	25875.6	25225.7		
52 Cr [2]	CPS	157.8		1127.8	9755.1	19275.7	38840.8	76616.9	188873.7	380687.2	0.9999
72 Ge (ISTD) [1]	CPS	53422.4		53060.1	52838.3	53216.2	53129.2	52707.8	51282.2	49004.1	
78 Se [1]	CPS	0		71.1	674.5	1323.4	2610.2	5387.6	13143.1	26450.4	0.9997
72 Ge (ISTD) [2]	CPS	16330.4	16444.9	16499.4	16386	16102.4	16486.1	15896.7	15498.5	15186	
75 As [2]	CPS	1.1	30	123.3	1025.6	2151.3	4301.7	8412.2	21140.4	42362.5	0.9999

Standard Code
ICAL: 2MSST-240311B
ICAL: 2MSST-240311C
ICAL: 2MWST-240815K
ICV: 2MWST-240815G
LLICV: 2MWST-240815J
IS Mix: 2MWST-240815A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

562

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195129						
Client ID: ICV	Batch ID: R195129	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282830							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	96.812	0.50	100.0	0	96.8	90	110				
Molybdenum	9.526	0.50	10.00	0	95.3	90	110				

Sample ID LLCCV2	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195129						
Client ID: ZZZZZZ	Batch ID: R195129	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282833							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	0.499	0.50	0.5000	0	99.7	80	120				
Molybdenum	0.487	0.50	0.5000	0	97.4	80	120				

Sample ID MLCCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195129						
Client ID: CCV	Batch ID: R195129	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282834							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	20.047	0.50	20.00	0	100	90	110				
Molybdenum	18.763	0.50	20.00	0	93.8	90	110				

Sample ID CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195129						
Client ID: CCV	Batch ID: R195129	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282844							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	19.526	0.50	20.00	0	97.6	90	110				
Molybdenum	18.498	0.50	20.00	0	92.5	90	110				

Sample ID CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195129						
Client ID: CCV	Batch ID: R195129	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282852							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	19.397	0.50	20.00	0	97.0	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195129						
Client ID: CCV	Batch ID: R195129	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282852							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Molybdenum	18.124	0.50	20.00	0	90.6	90	110				
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Sample ID CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195129						
Client ID: CCV	Batch ID: R195129	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282863							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	19.458	0.50	20.00	0	97.3	90	110				
Molybdenum	18.722	0.50	20.00	0	93.6	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195129						
Client ID: CCV	Batch ID: R195129	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282874							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	19.280	0.50	20.00	0	96.4	90	110				
Molybdenum	18.837	0.50	20.00	0	94.2	90	110				

Sample ID CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195129						
Client ID: CCV	Batch ID: R195129	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282885							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	19.155	0.50	20.00	0	95.8	90	110				
Molybdenum	18.902	0.50	20.00	0	94.5	90	110				

Sample ID CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195129						
Client ID: CCV	Batch ID: R195129	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282891							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	19.265	0.50	20.00	0	96.3	90	110				
Molybdenum	18.826	0.50	20.00	0	94.1	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/3/2024	SeqNo: 6285974							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.646	0.10	10.00	0	96.5	90	110				
Manganese	95.762	0.50	100.0	0	95.8	90	110				
Molybdenum	9.511	0.50	10.00	0	95.1	90	110				
Selenium	9.675	0.50	10.00	0	96.8	90	110				

Sample ID LLCCV2	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ZZZZZ	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285974							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.118	0.10	0.1000	0	118	80	120				
Manganese	0.521	0.50	0.5000	0	104	80	120				
Molybdenum	0.474	0.50	0.5000	0	94.8	80	120				
Selenium	0.532	0.50	0.5000	0	106	80	120				

Sample ID MLCCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285978							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.692	0.10	20.00	0	93.5	90	110				
Manganese	20.181	0.50	20.00	0	101	90	110				
Molybdenum	18.482	0.50	20.00	0	92.4	90	110				
Selenium	18.785	0.50	20.00	0	93.9	90	110				

Sample ID CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285988							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.225	0.10	20.00	0	91.1	90	110				
Manganese	19.677	0.50	20.00	0	98.4	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285988							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	18.394	0.50	20.00	0	92.0	90	110				
Selenium	18.785	0.50	20.00	0	93.9	90	110				

Sample ID CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286001							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.563	0.10	20.00	0	92.8	90	110				
Manganese	19.361	0.50	20.00	0	96.8	90	110				
Molybdenum	19.358	0.50	20.00	0	96.8	90	110				
Selenium	19.054	0.50	20.00	0	95.3	90	110				

Sample ID CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286012							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.431	0.10	20.00	0	92.2	90	110				
Manganese	19.116	0.50	20.00	0	95.6	90	110				
Molybdenum	19.177	0.50	20.00	0	95.9	90	110				
Selenium	18.005	0.50	20.00	0	90.0	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286024							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.233	0.10	20.00	0	96.2	90	110				
Manganese	18.981	0.50	20.00	0	94.9	90	110				
Molybdenum	19.434	0.50	20.00	0	97.2	90	110				
Selenium	18.278	0.50	20.00	0	91.4	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286037							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.118	0.10	20.00	0	95.6	90	110				
Manganese	19.540	0.50	20.00	0	97.7	90	110				
Molybdenum	19.403	0.50	20.00	0	97.0	90	110				
Selenium	18.290	0.50	20.00	0	91.4	90	110				

Sample ID CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286048							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.712	0.10	20.00	0	93.6	90	110				
Manganese	19.301	0.50	20.00	0	96.5	90	110				
Molybdenum	19.474	0.50	20.00	0	97.4	90	110				
Selenium	19.351	0.50	20.00	0	96.8	90	110				

Sample ID CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286059							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.263	0.10	20.00	0	96.3	90	110				
Manganese	19.240	0.50	20.00	0	96.2	90	110				
Molybdenum	19.180	0.50	20.00	0	95.9	90	110				
Selenium	18.437	0.50	20.00	0	92.2	90	110				

Sample ID CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286068							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.836	0.10	20.00	0	94.2	90	110				
Manganese	19.354	0.50	20.00	0	96.8	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286068							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	19.434	0.50	20.00	0	97.2	90	110				
Selenium	19.051	0.50	20.00	0	95.3	90	110				

Sample ID CCV8	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286081							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.621	0.10	20.00	0	98.1	90	110				
Manganese	19.331	0.50	20.00	0	96.7	90	110				
Molybdenum	19.364	0.50	20.00	0	96.8	90	110				
Selenium	18.775	0.50	20.00	0	93.9	90	110				

Sample ID CCV9	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286092							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.463	0.10	20.00	0	97.3	90	110				
Manganese	18.952	0.50	20.00	0	94.8	90	110				
Molybdenum	19.617	0.50	20.00	0	98.1	90	110				
Selenium	18.590	0.50	20.00	0	93.0	90	110				

Sample ID CCV10	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286097							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.781	0.10	20.00	0	93.9	90	110				
Manganese	19.204	0.50	20.00	0	96.0	90	110				
Molybdenum	19.533	0.50	20.00	0	97.7	90	110				
Selenium	19.420	0.50	20.00	0	97.1	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV11	SampType: CCV	TestCode: 6020_DIS_TP Units: µg/L				Prep Date:			RunNo: 195177		
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020				Analysis Date: 11/4/2024			SeqNo: 6286108		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.199	0.10	20.00	0	91.0	90	110				
Manganese	18.873	0.50	20.00	0	94.4	90	110				
Molybdenum	19.438	0.50	20.00	0	97.2	90	110				
Selenium	19.082	0.50	20.00	0	95.4	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ICV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/3/2024	SeqNo: 6286829	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	9.773	1.0	10.00	0	97.7 90 110

Sample ID LLCCV2	SampType: CCV1	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ZZZZZ	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286832	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	0.978	1.0	1.000	0	97.8 80 120

Sample ID MLCCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286833	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	19.221	1.0	20.00	0	96.1 90 110

Sample ID CCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286843	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	19.377	1.0	20.00	0	96.9 90 110

Sample ID CCV2	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286856	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	18.614	1.0	20.00	0	93.1 90 110

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCV3	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286867							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.501	1.0	20.00	0	92.5	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286879							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.540	1.0	20.00	0	92.7	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286892							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.121	1.0	20.00	0	95.6	90	110				

Sample ID CCV5	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286903							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.914	1.0	20.00	0	94.6	90	110				

Sample ID CCV6	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286914							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.013	1.0	20.00	0	95.1	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCV7	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286923							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.225	1.0	20.00	0	96.1	90	110				

Sample ID CCV8	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286936							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.138	1.0	20.00	0	95.7	90	110				

Sample ID CCV9	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286947							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.393	1.0	20.00	0	92.0	90	110				

Sample ID CCV10	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286952							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.142	1.0	20.00	0	95.7	90	110				

Sample ID CCV11	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286963							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.693	1.0	20.00	0	93.5	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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"Serving Clients with Passion and Professionalism"

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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195129
Client ID: ICB	Batch ID: R195129	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282831	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Manganese	ND	0.50			
Molybdenum	ND	0.50			

Sample ID CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195129
Client ID: CCB	Batch ID: R195129	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282845	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Manganese	ND	0.50			
Molybdenum	ND	0.50			

Sample ID CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195129
Client ID: CCB	Batch ID: R195129	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282853	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Manganese	ND	0.50			
Molybdenum	ND	0.50			

Sample ID CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195129
Client ID: CCB	Batch ID: R195129	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282864	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Manganese	ND	0.50			
Molybdenum	ND	0.50			

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195129
Client ID: CCB	Batch ID: R195129	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282875	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Manganese	ND	0.50			

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195129
Client ID: CCB	Batch ID: R195129	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282875	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Molybdenum ND 0.50

Sample ID CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195129
Client ID: CCB	Batch ID: R195129	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282886	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese ND 0.50
Molybdenum 0.066 0.50

Sample ID CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195129
Client ID: CCB	Batch ID: R195129	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282892	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese ND 0.50
Molybdenum ND 0.50

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/3/2024	SeqNo: 6285975							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285989							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286002							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286013							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286013	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Molybdenum	ND	0.50			
Selenium	ND	0.50			

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286025	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Manganese	ND	0.50			
Molybdenum	ND	0.50			
Selenium	ND	0.50			

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286038	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Manganese	ND	0.50			
Molybdenum	ND	0.50			
Selenium	ND	0.50			

Sample ID CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286049	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Manganese	ND	0.50			
Molybdenum	ND	0.50			
Selenium	ND	0.50			

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286060							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286069							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286082							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286093							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286093							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID CCB10	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286098							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID CCB11	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286109							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ICB	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/3/2024	SeqNo: 6286830						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID CCB1	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286844						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID CCB2	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286857						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID CCB3	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286868						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID CCB4	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286880						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCB4	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286893
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB5	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286904
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB6	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286915
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB7	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286924
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB8	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286937
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCB9	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286948	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB10	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286953	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB11	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286964	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195129
Client ID: ICSA	Batch ID: R195129	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282836	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Manganese	ND	0.50			
Molybdenum	ND	0.50			

Sample ID ICSA B1	SampType: ICSA B	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195129
Client ID: ICSA B	Batch ID: R195129	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282837	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Manganese	19.107	0.50	20.00	0	95.5 80 120
Molybdenum	19.050	0.50	20.00	0	95.2 80 120

Sample ID ICSA 2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195129
Client ID: ICSA	Batch ID: R195129	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282846	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Manganese	ND	0.50			
Molybdenum	ND	0.50			

Sample ID ICSA B2	SampType: ICSA B	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195129
Client ID: ICSA B	Batch ID: R195129	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282847	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Manganese	19.440	0.50	20.00	0	97.2 80 120
Molybdenum	18.914	0.50	20.00	0	94.6 80 120

Sample ID ICSA 3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195129
Client ID: ICSA	Batch ID: R195129	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282893	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Manganese	ND	0.50			

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195129						
Client ID: ICSA	Batch ID: R195129	TestNo: EPA 6020		Analysis Date: 11/2/2024	SeqNo: 6282893						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Molybdenum	ND	0.50
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Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195129						
Client ID: ICSA	Batch ID: R195129	TestNo: EPA 6020		Analysis Date: 11/2/2024	SeqNo: 6282894						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	19.026	0.50	20.00	0	95.1	80	120
Molybdenum	19.126	0.50	20.00	0	95.6	80	120

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285980							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285981							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.262	0.10	20.00	0	96.3	80	120				
Manganese	19.789	0.50	20.00	0	98.9	80	120				
Molybdenum	19.059	0.50	20.00	0	95.3	80	120				
Selenium	18.977	0.50	20.00	0	94.9	80	120				

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285990							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285991							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.187	0.10	20.00	0	95.9	80	120				
Manganese	19.169	0.50	20.00	0	95.8	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSAB2	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSAB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285991							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	19.160	0.50	20.00	0	95.8	80	120				
Selenium	18.989	0.50	20.00	0	94.9	80	120				

Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286026							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSAB3	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSAB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286027							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	17.976	0.10	20.00	0	89.9	80	120				
Manganese	19.029	0.50	20.00	0	95.1	80	120				
Molybdenum	19.078	0.50	20.00	0	95.4	80	120				
Selenium	18.431	0.50	20.00	0	92.2	80	120				

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286070							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSAB4	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSAB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286071							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.648	0.10	20.00	0	93.2	80	120				
Manganese	19.103	0.50	20.00	0	95.5	80	120				
Molybdenum	18.924	0.50	20.00	0	94.6	80	120				
Selenium	18.371	0.50	20.00	0	91.9	80	120				

Sample ID ICSA5	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286110							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSAB5	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSAB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286111							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.729	0.10	20.00	0	93.6	80	120				
Manganese	19.371	0.50	20.00	0	96.9	80	120				
Molybdenum	19.005	0.50	20.00	0	95.0	80	120				
Selenium	19.510	0.50	20.00	0	97.5	80	120				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286835						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286835						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.496	1.0	20.00	0	97.5	80	120				
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Sample ID ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286845						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286846						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.363	1.0	20.00	0	96.8	80	120				
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Sample ID ICSA3	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286881						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICSAB3	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ICSAB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286882	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	18.565	1.0	20.00	0	92.8 80 120

Sample ID ICSA4	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286925	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	ND	1.0			

Sample ID ICSAB4	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ICSAB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286926	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	18.601	1.0	20.00	0	93.0 80 120

Sample ID ICSA5	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286965	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	ND	1.0			

Sample ID ICSAB5	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ICSAB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286966	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	18.868	1.0	20.00	0	94.3 80 120

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

INTERNAL STANDARD SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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P: 562.219.7435 F: 562.219.7436

NEVADA
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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INTERNAL STANDARD: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	45 Sc (ISTD) [2]					72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	30750.5	30750.5	100	PASS	30-150	17199.1	17199.1	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	30550.1	30750.5	99.35	PASS	30-150	17383.7	17199.1	101.07	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	30119.4	30750.5	97.95	PASS	30-150	17099	17199.1	99.42	PASS	30-150
Std3-5/50 ppb	ICAL	1	30091.5	30750.5	97.86	PASS	30-150	17053.4	17199.1	99.15	PASS	30-150
Std4-10/100 ppb	ICAL	1	29964.6	30750.5	97.44	PASS	30-150	16748.6	17199.1	97.38	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	30468.9	30750.5	99.08	PASS	30-150	16859.8	17199.1	98.03	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	30167.2	30750.5	98.1	PASS	30-150	16586.2	17199.1	96.44	PASS	30-150
Std7-100/1000 ppb	ICAL	1	28974	30750.5	94.22	PASS	30-150	16517.2	17199.1	96.04	PASS	30-150
Std8-200/2000 ppb	ICAL	1	28449.8	30750.5	92.52	PASS	30-150	15996.8	17199.1	93.01	PASS	30-150
ICV	ICV	1	29290.1	30750.5	95.25	PASS	30-150	16673	17199.1	96.94	PASS	30-150
ICB	ICB	1	29825.5	30750.5	96.99	PASS	30-150	16804.2	17199.1	97.7	PASS	30-150
LLCCV1	CCV1	1	29663	30750.5	96.46	PASS	30-150	16598.4	17199.1	96.51	PASS	30-150
LLCCV1	CCV1	1	29506	30750.5	95.95	PASS	30-150	16759.7	17199.1	97.45	PASS	30-150
MLCCV1	CCV	1	29745.4	30750.5	96.73	PASS	30-150	16531.7	17199.1	96.12	PASS	30-150
ICSA1	ICSA	1	30173.9	30750.5	98.12	PASS	30-150	16271.5	17199.1	94.61	PASS	30-150
ICSA1	ICSA	1	31781.3	30750.5	103.35	PASS	30-150	17651.8	17199.1	102.63	PASS	30-150
ICSAB1	ICSAB	1	31837	30750.5	103.53	PASS	30-150	17605.1	17199.1	102.36	PASS	30-150
CCV1	CCV	1	29829.9	30750.5	97.01	PASS	30-150	17122.3	17199.1	99.55	PASS	30-150
CCB1	CCB	1	29388	30750.5	95.57	PASS	30-150	17002.2	17199.1	98.86	PASS	30-150
ICSA2	ICSA	1	29335.7	30750.5	95.4	PASS	30-150	16799.8	17199.1	97.68	PASS	30-150
ICSAB2	ICSAB	1	29310.2	30750.5	95.32	PASS	30-150	17048.9	17199.1	99.13	PASS	30-150
CCV2	CCV	1	28762.5	30750.5	93.54	PASS	30-150	16337.1	17199.1	94.99	PASS	30-150
CCB2	CCB	1	27768.7	30750.5	90.3	PASS	30-150	15821	17199.1	91.99	PASS	30-150
MB-113718	MBLK	1	27365.8	30750.5	88.99	PASS	30-150	15584.1	17199.1	90.61	PASS	30-150
LCS-113718	LCS	1	28645.7	30750.5	93.16	PASS	30-150	16219.2	17199.1	94.3	PASS	30-150
N069543-001B	SAMP	1	25986.9	30750.5	84.51	PASS	30-150	14248.4	17199.1	82.84	PASS	30-150
N069543-002B	SAMP	1	25263.6	30750.5	82.16	PASS	30-150	13540.1	17199.1	78.73	PASS	30-150
N069543-002B	SAMP	5	29568.4	30750.5	96.16	PASS	30-150	16439.4	17199.1	95.58	PASS	30-150
N069543-002B	SAMP	10	30062.6	30750.5	97.76	PASS	30-150	16413.8	17199.1	95.43	PASS	30-150
N069543-002B	SAMP	50	30787.3	30750.5	100.12	PASS	30-150	17060.1	17199.1	99.19	PASS	30-150
N069543-002B-PS	PS	1	25937.9	30750.5	84.35	PASS	30-150	13957.1	17199.1	81.15	PASS	30-150
N069543-002B-PS	PS	10	29774.3	30750.5	96.83	PASS	30-150	16490.6	17199.1	95.88	PASS	30-150
CCV3	CCV	1	32384.7	30750.5	105.31	PASS	30-150	18001	17199.1	104.66	PASS	30-150
CCB3	CCB	1	31519.7	30750.5	102.5	PASS	30-150	17885.4	17199.1	103.99	PASS	30-150
N069543-002B-MS	MS	1	25167.8	30750.5	81.85	PASS	30-150	13629	17199.1	79.24	PASS	30-150
N069543-002B-MS	MS	10	29642.9	30750.5	96.4	PASS	30-150	16485	17199.1	95.85	PASS	30-150
N069543-002B-MSD	MSD	1	25307	30750.5	82.3	PASS	30-150	13363.3	17199.1	77.7	PASS	30-150
N069543-002B-MSD	MSD	10	29698.6	30750.5	96.58	PASS	30-150	16648.5	17199.1	96.8	PASS	30-150
N069543-003B	SAMP	1	24973.2	30750.5	81.21	PASS	30-150	13477.8	17199.1	78.36	PASS	30-150
N069543-003B	SAMP	10	29521.6	30750.5	96	PASS	30-150	16544	17199.1	96.19	PASS	30-150
N069543-004B	SAMP	1	28129.3	30750.5	91.48	PASS	30-150	15824.4	17199.1	92.01	PASS	30-150

INTERNAL STANDARD: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	45 Sc (ISTD) [2]					72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
N069543-005B	SAMP	1	25620.7	30750.5	83.32	PASS	30-150	13897.1	17199.1	80.8	PASS	30-150
N069543-006B	SAMP	1	25076.6	30750.5	81.55	PASS	30-150	13758.1	17199.1	79.99	PASS	30-150
CCV4	CCV	1	30756.1	30750.5	100.02	PASS	30-150	17333.7	17199.1	100.78	PASS	30-150
CCB4	CCB	1	30394.3	30750.5	98.84	PASS	30-150	17205.7	17199.1	100.04	PASS	30-150
N069543-007B	SAMP	1	27741.9	30750.5	90.22	PASS	30-150	15574.1	17199.1	90.55	PASS	30-150
N069543-008B	SAMP	1	22841.2	30750.5	74.28	PASS	30-150	12425.9	17199.1	72.25	PASS	30-150
N069543-009B	SAMP	1	23179.4	30750.5	75.38	PASS	30-150	12473.7	17199.1	72.53	PASS	30-150
N069543-010B	SAMP	1	27721.9	30750.5	90.15	PASS	30-150	15285	17199.1	88.87	PASS	30-150
N069543-011B	SAMP	1	27015.2	30750.5	87.85	PASS	30-150	14783.4	17199.1	85.95	PASS	30-150
N069543-012B	SAMP	1	25748.7	30750.5	83.73	PASS	30-150	13902.6	17199.1	80.83	PASS	30-150
N069543-013B	SAMP	1	26088.2	30750.5	84.84	PASS	30-150	14198.4	17199.1	82.55	PASS	30-150
N069543-014B	SAMP	1	25847.8	30750.5	84.06	PASS	30-150	14293	17199.1	83.1	PASS	30-150
N069543-015B	SAMP	1	26346.4	30750.5	85.68	PASS	30-150	14558.7	17199.1	84.65	PASS	30-150
CCV5	CCV	1	31549.8	30750.5	102.6	PASS	30-150	17848.7	17199.1	103.78	PASS	30-150
CCB5	CCB	1	30885.2	30750.5	100.44	PASS	30-150	17832	17199.1	103.68	PASS	30-150
N069543-016B	SAMP	1	26734.7	30750.5	86.94	PASS	30-150	14920.2	17199.1	86.75	PASS	30-150
N069543-017B	SAMP	1	26525.5	30750.5	86.26	PASS	30-150	14874.6	17199.1	86.48	PASS	30-150
N069543-019B	SAMP	1	24786.2	30750.5	80.6	PASS	30-150	13540.1	17199.1	78.73	PASS	30-150
N069543-020B	SAMP	1	25577.4	30750.5	83.18	PASS	30-150	13902.6	17199.1	80.83	PASS	30-150
CCV6	CCV	1	30963.1	30750.5	100.69	PASS	30-150	17563.9	17199.1	102.12	PASS	30-150
CCB6	CCB	1	29991.3	30750.5	97.53	PASS	30-150	17032.2	17199.1	99.03	PASS	30-150
ICSA3	ICSA	1	30671.4	30750.5	99.74	PASS	30-150	17340.3	17199.1	100.82	PASS	30-150
ICSAB3	ICSAB	1	30025.8	30750.5	97.64	PASS	30-150	17185.7	17199.1	99.92	PASS	30-150
CCV7	CCV	1	28826	30750.5	93.74	PASS	30-150	16475	17199.1	95.79	PASS	30-150
CCB7	CCB	1	28323	30750.5	92.11	PASS	30-150	16328.2	17199.1	94.94	PASS	30-150
CCV8	CCV	1	30013.6	30750.5	97.6	PASS	30-150	17446	17199.1	101.44	PASS	30-150
CCB8	CCB	1	29026.3	30750.5	94.39	PASS	30-150	16481.7	17199.1	95.83	PASS	30-150
CCV9	CCV	1	30059.2	30750.5	97.75	PASS	30-150	17117.9	17199.1	99.53	PASS	30-150
CCB9	CCB	1	29677.4	30750.5	96.51	PASS	30-150	17179.1	17199.1	99.88	PASS	30-150
ICSA4	ICSA	1	29351.3	30750.5	95.45	PASS	30-150	16805.3	17199.1	97.71	PASS	30-150
ICSAB4	ICSAB	1	29635.1	30750.5	96.37	PASS	30-150	16976.6	17199.1	98.71	PASS	30-150

INTERNAL STANDARD: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [1]					103 Rh (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	62044.8	62044.8	100	PASS	30-150	473624.3	473624.3	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	61865.3	62044.8	99.71	PASS	30-150	470369.7	473624.3	99.31	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	61219.4	62044.8	98.67	PASS	30-150	467022.8	473624.3	98.61	PASS	30-150
Std3-5/50 ppb	ICAL	1	61029.9	62044.8	98.36	PASS	30-150	467887.7	473624.3	98.79	PASS	30-150
Std4-10/100 ppb	ICAL	1	61363.3	62044.8	98.9	PASS	30-150	464006	473624.3	97.97	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	61225.1	62044.8	98.68	PASS	30-150	463543.8	473624.3	97.87	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	60591.6	62044.8	97.66	PASS	30-150	458018	473624.3	96.7	PASS	30-150
Std7-100/1000 ppb	ICAL	1	58450.6	62044.8	94.21	PASS	30-150	452543.8	473624.3	95.55	PASS	30-150
Std8-200/2000 ppb	ICAL	1	56620.9	62044.8	91.26	PASS	30-150	436771.3	473624.3	92.22	PASS	30-150
ICV	ICV	1	60744.4	62044.8	97.9	PASS	30-150	459583.3	473624.3	97.04	PASS	30-150
ICB	ICB	1	60794.5	62044.8	97.98	PASS	30-150	462442	473624.3	97.64	PASS	30-150
LLCCV1	CCV1	1	59880.2	62044.8	96.51	PASS	30-150	464288.9	473624.3	98.03	PASS	30-150
LLCCV1	CCV1	1	60161.2	62044.8	96.96	PASS	30-150	459609.1	473624.3	97.04	PASS	30-150
MLCCV1	CCV	1	60341.8	62044.8	97.26	PASS	30-150	461640.2	473624.3	97.47	PASS	30-150
ICSA1	ICSA	1	57259.7	62044.8	92.29	PASS	30-150	415090	473624.3	87.64	PASS	30-150
ICSA1	ICSA	1	63268.3	62044.8	101.97	PASS	30-150	478548	473624.3	101.04	PASS	30-150
ICSAB1	ICSAB	1	64087	62044.8	103.29	PASS	30-150	479430.7	473624.3	101.23	PASS	30-150
CCV1	CCV	1	60145.5	62044.8	96.94	PASS	30-150	465000.6	473624.3	98.18	PASS	30-150
CCB1	CCB	1	60414.3	62044.8	97.37	PASS	30-150	463639.6	473624.3	97.89	PASS	30-150
ICSA2	ICSA	1	59631.4	62044.8	96.11	PASS	30-150	464755.9	473624.3	98.13	PASS	30-150
ICSAB2	ICSAB	1	59723	62044.8	96.26	PASS	30-150	464970	473624.3	98.17	PASS	30-150
CCV2	CCV	1	55940.7	62044.8	90.16	PASS	30-150	443639.2	473624.3	93.67	PASS	30-150
CCB2	CCB	1	55526	62044.8	89.49	PASS	30-150	433984.3	473624.3	91.63	PASS	30-150
MB-113718	MBLK	1	54104.6	62044.8	87.2	PASS	30-150	426359.1	473624.3	90.02	PASS	30-150
LCS-113718	LCS	1	55347.7	62044.8	89.21	PASS	30-150	444920.1	473624.3	93.94	PASS	30-150
N069543-001B	SAMP	1	45991	62044.8	74.13	PASS	30-150	337442.7	473624.3	71.25	PASS	30-150
N069543-002B	SAMP	1	43826.2	62044.8	70.64	PASS	30-150	315298.5	473624.3	66.57	PASS	30-150
N069543-002B	SAMP	5	54570.5	62044.8	87.95	PASS	30-150	392029.8	473624.3	82.77	PASS	30-150
N069543-002B	SAMP	10	56663.2	62044.8	91.33	PASS	30-150	403240.2	473624.3	85.14	PASS	30-150
N069543-002B	SAMP	50	59650.4	62044.8	96.14	PASS	30-150	428094.5	473624.3	90.39	PASS	30-150
N069543-002B-PS	PS	1	43740.4	62044.8	70.5	PASS	30-150	318560.7	473624.3	67.26	PASS	30-150
N069543-002B-PS	PS	10	55802.5	62044.8	89.94	PASS	30-150	393654.2	473624.3	83.12	PASS	30-150
CCV3	CCV	1	62737.3	62044.8	101.12	PASS	30-150	459040.9	473624.3	96.92	PASS	30-150
CCB3	CCB	1	61750.2	62044.8	99.53	PASS	30-150	456800.9	473624.3	96.45	PASS	30-150
N069543-002B-MS	MS	1	43048.7	62044.8	69.38	PASS	30-150	308489.3	473624.3	65.13	PASS	30-150
N069543-002B-MS	MS	10	55794.6	62044.8	89.93	PASS	30-150	396881.1	473624.3	83.8	PASS	30-150
N069543-002B-MSD	MSD	1	42549.6	62044.8	68.58	PASS	30-150	306763	473624.3	64.77	PASS	30-150
N069543-002B-MSD	MSD	10	56523.8	62044.8	91.1	PASS	30-150	394638.3	473624.3	83.32	PASS	30-150
N069543-003B	SAMP	1	42497.2	62044.8	68.49	PASS	30-150	303356.1	473624.3	64.05	PASS	30-150
N069543-003B	SAMP	10	55406.8	62044.8	89.3	PASS	30-150	386535.7	473624.3	81.61	PASS	30-150
N069543-004B	SAMP	1	52316.5	62044.8	84.32	PASS	30-150	373025.1	473624.3	78.76	PASS	30-150

INTERNAL STANDARD: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [1]					103 Rh (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
N069543-005B	SAMP	1	44069.2	62044.8	71.03	PASS	30-150	318887.7	473624.3	67.33	PASS	30-150
N069543-006B	SAMP	1	43025.4	62044.8	69.35	PASS	30-150	307215.8	473624.3	64.86	PASS	30-150
CCV4	CCV	1	59867.8	62044.8	96.49	PASS	30-150	434935.5	473624.3	91.83	PASS	30-150
CCB4	CCB	1	58661.3	62044.8	94.55	PASS	30-150	431058.1	473624.3	91.01	PASS	30-150
N069543-007B	SAMP	1	52799.3	62044.8	85.1	PASS	30-150	383884.7	473624.3	81.05	PASS	30-150
N069543-008B	SAMP	1	37329.1	62044.8	60.16	PASS	30-150	278650.2	473624.3	58.83	PASS	30-150
N069543-009B	SAMP	1	38465	62044.8	62	PASS	30-150	275634.5	473624.3	58.2	PASS	30-150
N069543-010B	SAMP	1	49964.9	62044.8	80.53	PASS	30-150	357940.1	473624.3	75.57	PASS	30-150
N069543-011B	SAMP	1	47359.3	62044.8	76.33	PASS	30-150	343267.2	473624.3	72.48	PASS	30-150
N069543-012B	SAMP	1	44212.9	62044.8	71.26	PASS	30-150	322962.3	473624.3	68.19	PASS	30-150
N069543-013B	SAMP	1	44641.8	62044.8	71.95	PASS	30-150	330365.2	473624.3	69.75	PASS	30-150
N069543-014B	SAMP	1	43493.1	62044.8	70.1	PASS	30-150	323574.8	473624.3	68.32	PASS	30-150
N069543-015B	SAMP	1	45360.4	62044.8	73.11	PASS	30-150	327798.1	473624.3	69.21	PASS	30-150
CCV5	CCV	1	60008.4	62044.8	96.72	PASS	30-150	442417	473624.3	93.41	PASS	30-150
CCB5	CCB	1	58796.2	62044.8	94.76	PASS	30-150	437725.4	473624.3	92.42	PASS	30-150
N069543-016B	SAMP	1	46762.1	62044.8	75.37	PASS	30-150	346381.9	473624.3	73.13	PASS	30-150
N069543-017B	SAMP	1	45977.7	62044.8	74.1	PASS	30-150	340459.3	473624.3	71.88	PASS	30-150
N069543-019B	SAMP	1	41416.7	62044.8	66.75	PASS	30-150	309925.8	473624.3	65.44	PASS	30-150
N069543-020B	SAMP	1	42595.3	62044.8	68.65	PASS	30-150	312731.4	473624.3	66.03	PASS	30-150
CCV6	CCV	1	59058.3	62044.8	95.19	PASS	30-150	434437.9	473624.3	91.73	PASS	30-150
CCB6	CCB	1	57459.3	62044.8	92.61	PASS	30-150	426394.3	473624.3	90.03	PASS	30-150
ICSA3	ICSA	1	57580.9	62044.8	92.81	PASS	30-150	438551	473624.3	92.59	PASS	30-150
ICSAB3	ICSAB	1	57266.5	62044.8	92.3	PASS	30-150	436002.4	473624.3	92.06	PASS	30-150
CCV7	CCV	1	55052.2	62044.8	88.73	PASS	30-150	408934.4	473624.3	86.34	PASS	30-150
CCB7	CCB	1	53811.4	62044.8	86.73	PASS	30-150	409383.2	473624.3	86.44	PASS	30-150
CCV8	CCV	1	56521.6	62044.8	91.1	PASS	30-150	416931.7	473624.3	88.03	PASS	30-150
CCB8	CCB	1	55135.8	62044.8	88.86	PASS	30-150	412229.6	473624.3	87.04	PASS	30-150
CCV9	CCV	1	57523.9	62044.8	92.71	PASS	30-150	424004.1	473624.3	89.52	PASS	30-150
CCB9	CCB	1	55618.6	62044.8	89.64	PASS	30-150	423989.8	473624.3	89.52	PASS	30-150
ICSA4	ICSA	1	55794.6	62044.8	89.93	PASS	30-150	420345.4	473624.3	88.75	PASS	30-150
ICSAB4	ICSAB	1	55699.9	62044.8	89.77	PASS	30-150	427899.1	473624.3	90.35	PASS	30-150

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	45 Sc (ISTD) [2]					72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	26765.9	26765.9	100	PASS	30-150	16330.4	16330.4	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	27294.5	26765.9	101.97	PASS	30-150	16444.9	16330.4	100.7	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	26996.3	26765.9	100.86	PASS	30-150	16499.4	16330.4	101.04	PASS	30-150
Std3-5/50 ppb	ICAL	1	27130.9	26765.9	101.36	PASS	30-150	16386	16330.4	100.34	PASS	30-150
Std4-10/100 ppb	ICAL	1	26916.1	26765.9	100.56	PASS	30-150	16102.4	16330.4	98.6	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	27340.1	26765.9	102.15	PASS	30-150	16486.1	16330.4	100.95	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	26553.3	26765.9	99.21	PASS	30-150	15896.7	16330.4	97.34	PASS	30-150
Std7-100/1000 ppb	ICAL	1	25875.6	26765.9	96.67	PASS	30-150	15498.5	16330.4	94.91	PASS	30-150
Std8-200/2000 ppb	ICAL	1	25225.7	26765.9	94.25	PASS	30-150	15186	16330.4	92.99	PASS	30-150
ICV	ICV	1	25439.4	26765.9	95.04	PASS	30-150	15547.4	16330.4	95.21	PASS	30-150
ICB	ICB	1	24627.1	26765.9	92.01	PASS	30-150	14906.8	16330.4	91.28	PASS	30-150
LLCCV1	CCV1	1	26190.5	26765.9	97.85	PASS	30-150	15984.5	16330.4	97.88	PASS	30-150
LLCCV2	CCV1	1	26673.5	26765.9	99.65	PASS	30-150	16202.5	16330.4	99.22	PASS	30-150
MLCCV1	CCV	1	26586.7	26765.9	99.33	PASS	30-150	16255.9	16330.4	99.54	PASS	30-150
ICSA1	ICSA	1	26764.8	26765.9	100	PASS	30-150	16071.3	16330.4	98.41	PASS	30-150
ICSA1	ICSA	1	26869.4	26765.9	100.39	PASS	30-150	16109.1	16330.4	98.64	PASS	30-150
ICSAB1	ICSAB	1	26735.9	26765.9	99.89	PASS	30-150	15932.2	16330.4	97.56	PASS	30-150
CCV1	CCV	1	26644.6	26765.9	99.55	PASS	30-150	16217	16330.4	99.31	PASS	30-150
CCB1	CCB	1	26461	26765.9	98.86	PASS	30-150	16017.9	16330.4	98.09	PASS	30-150
ICSA2	ICSA	1	26772.6	26765.9	100.03	PASS	30-150	16200.3	16330.4	99.2	PASS	30-150
ICSAB2	ICSAB	1	27142	26765.9	101.41	PASS	30-150	16095.7	16330.4	98.56	PASS	30-150
MB-113718	MBLK	1	26497.7	26765.9	99	PASS	30-150	16070.1	16330.4	98.41	PASS	30-150
LCS-113718	LCS	1	26643.5	26765.9	99.54	PASS	30-150	16124.7	16330.4	98.74	PASS	30-150
N069543-001B	SAMP	1	25039.9	26765.9	93.55	PASS	30-150	14264	16330.4	87.35	PASS	30-150
N069543-002B	SAMP	1	24212	26765.9	90.46	PASS	30-150	13602.4	16330.4	83.29	PASS	30-150
N069543-002B	SAMP	5	27445.9	26765.9	102.54	PASS	30-150	15960	16330.4	97.73	PASS	30-150
N069543-002B-PS	PS	1	24659.3	26765.9	92.13	PASS	30-150	13785.8	16330.4	84.42	PASS	30-150
N069543-002B-MS	MS	1	24504.6	26765.9	91.55	PASS	30-150	13749.2	16330.4	84.19	PASS	30-150
N069543-002B-MSD	MSD	1	24373.4	26765.9	91.06	PASS	30-150	13910.4	16330.4	85.18	PASS	30-150
N069543-003B	SAMP	1	24869.6	26765.9	92.92	PASS	30-150	13716.9	16330.4	84	PASS	30-150
CCV2	CCV	1	31141.2	26765.9	116.35	PASS	30-150	18084.5	16330.4	110.74	PASS	30-150
CCB2	CCB	1	30647	26765.9	114.5	PASS	30-150	17948.8	16330.4	109.91	PASS	30-150
N069543-004B	SAMP	1	27841	26765.9	104.02	PASS	30-150	16396	16330.4	100.4	PASS	30-150
N069543-005B	SAMP	1	25380.4	26765.9	94.82	PASS	30-150	14419.7	16330.4	88.3	PASS	30-150
N069543-006B	SAMP	1	25335.9	26765.9	94.66	PASS	30-150	14479.8	16330.4	88.67	PASS	30-150
N069543-007B	SAMP	1	29294.5	26765.9	109.45	PASS	30-150	16909.9	16330.4	103.55	PASS	30-150
N069543-008B	SAMP	1	23843.7	26765.9	89.08	PASS	30-150	13423.3	16330.4	82.2	PASS	30-150
N069543-009B	SAMP	1	24097.4	26765.9	90.03	PASS	30-150	13515.6	16330.4	82.76	PASS	30-150
N069543-010B	SAMP	1	29272.3	26765.9	109.36	PASS	30-150	16901	16330.4	103.49	PASS	30-150
N069543-011B	SAMP	1	28928.4	26765.9	108.08	PASS	30-150	16139.1	16330.4	98.83	PASS	30-150
N069543-012B	SAMP	1	26851.6	26765.9	100.32	PASS	30-150	15565.2	16330.4	95.31	PASS	30-150

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	45 Sc (ISTD) [2]					72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
CCV3	CCV	1	30123.8	26765.9	112.55	PASS	30-150	17583.9	16330.4	107.68	PASS	30-150
CCB3	CCB	1	29699.7	26765.9	110.96	PASS	30-150	17972.1	16330.4	110.05	PASS	30-150
N069543-013B	SAMP	1	25515	26765.9	95.33	PASS	30-150	14989.1	16330.4	91.79	PASS	30-150
N069543-014B	SAMP	1	25112.2	26765.9	93.82	PASS	30-150	14265.1	16330.4	87.35	PASS	30-150
N069543-015B	SAMP	1	25447.2	26765.9	95.07	PASS	30-150	14631	16330.4	89.59	PASS	30-150
N069543-016B	SAMP	1	25624.1	26765.9	95.73	PASS	30-150	14832.3	16330.4	90.83	PASS	30-150
N069543-017B	SAMP	1	25279.2	26765.9	94.45	PASS	30-150	14430.8	16330.4	88.37	PASS	30-150
N069543-019B	SAMP	1	23229.5	26765.9	86.79	PASS	30-150	13256.5	16330.4	81.18	PASS	30-150
N069543-020B	SAMP	1	23664.6	26765.9	88.41	PASS	30-150	13415.5	16330.4	82.15	PASS	30-150
N069543-005B	SAMP	1	23380.8	26765.9	87.35	PASS	30-150	13227.6	16330.4	81	PASS	30-150
N069543-006B	SAMP	1	24408.9	26765.9	91.19	PASS	30-150	13940.4	16330.4	85.36	PASS	30-150
N069543-005B	SAMP	1	25379.3	26765.9	94.82	PASS	30-150	14438.6	16330.4	88.42	PASS	30-150
CCV4	CCV	1	31815.8	26765.9	118.87	PASS	30-150	18471.6	16330.4	113.11	PASS	30-150
CCB4	CCB	1	30662.5	26765.9	114.56	PASS	30-150	17793	16330.4	108.96	PASS	30-150
ICSA3	ICSA	1	30348.7	26765.9	113.39	PASS	30-150	17878.7	16330.4	109.48	PASS	30-150
ICSAB3	ICSAB	1	29474.9	26765.9	110.12	PASS	30-150	17414.9	16330.4	106.64	PASS	30-150
CCV5	CCV	1	28705.8	26765.9	107.25	PASS	30-150	17409.3	16330.4	106.61	PASS	30-150
CCB5	CCB	1	27766.4	26765.9	103.74	PASS	30-150	16869.8	16330.4	103.3	PASS	30-150
CCV6	CCV	1	27696.3	26765.9	103.48	PASS	30-150	16845.4	16330.4	103.15	PASS	30-150
CCB6	CCB	1	26584.5	26765.9	99.32	PASS	30-150	16214.7	16330.4	99.29	PASS	30-150
CCV7	CCV	1	26998.5	26765.9	100.87	PASS	30-150	15974.5	16330.4	97.82	PASS	30-150
CCB7	CCB	1	26378.6	26765.9	98.55	PASS	30-150	16074.6	16330.4	98.43	PASS	30-150
CCV8	CCV	1	28511	26765.9	106.52	PASS	30-150	16984.4	16330.4	104	PASS	30-150
CCB8	CCB	1	27431.4	26765.9	102.49	PASS	30-150	16408.3	16330.4	100.48	PASS	30-150
ICSA4	ICSA	1	27096.4	26765.9	101.23	PASS	30-150	16159.1	16330.4	98.95	PASS	30-150
ICSAB4	ICSAB	1	26741.4	26765.9	99.91	PASS	30-150	15827.7	16330.4	96.92	PASS	30-150
CCV9	CCV	1	27671.8	26765.9	103.38	PASS	30-150	16861	16330.4	103.25	PASS	30-150
CCB9	CCB	1	26714.7	26765.9	99.81	PASS	30-150	15987.9	16330.4	97.9	PASS	30-150
CCV10	CCV	1	30216.2	26765.9	112.89	PASS	30-150	17377	16330.4	106.41	PASS	30-150
CCB10	CCB	1	28827.1	26765.9	107.7	PASS	30-150	17262.5	16330.4	105.71	PASS	30-150
CCV11	CCV	1	28712.4	26765.9	107.27	PASS	30-150	17232.4	16330.4	105.52	PASS	30-150
CCB11	CCB	1	27744.2	26765.9	103.66	PASS	30-150	16481.7	16330.4	100.93	PASS	30-150
CCV12	CCV	1	27636.2	26765.9	103.25	PASS	30-150	16592.9	16330.4	101.61	PASS	30-150
CCB12	CCB	1	26505.5	26765.9	99.03	PASS	30-150	15954.5	16330.4	97.7	PASS	30-150
ICSA5	ICSA	1	26799.3	26765.9	100.12	PASS	30-150	15833.3	16330.4	96.96	PASS	30-150
ICSAB5	ICSAB	1	25436	26765.9	95.03	PASS	30-150	15496.3	16330.4	94.89	PASS	30-150

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	53422.4	53422.4	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	53779.1	53422.4	100.67	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	53060.1	53422.4	99.32	PASS	30-150
Std3-5/50 ppb	ICAL	1	52838.3	53422.4	98.91	PASS	30-150
Std4-10/100 ppb	ICAL	1	53216.2	53422.4	99.61	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	53129.2	53422.4	99.45	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	52707.8	53422.4	98.66	PASS	30-150
Std7-100/1000 ppb	ICAL	1	51282.2	53422.4	95.99	PASS	30-150
Std8-200/2000 ppb	ICAL	1	49004.1	53422.4	91.73	PASS	30-150
ICV	ICV	1	50796.3	53422.4	95.08	PASS	30-150
ICB	ICB	1	48944	53422.4	91.62	PASS	30-150
LLCCV1	CCV1	1	51435	53422.4	96.28	PASS	30-150
LLCCV2	CCV1	1	52552.9	53422.4	98.37	PASS	30-150
MLCCV1	CCV	1	52522.8	53422.4	98.32	PASS	30-150
ICSA1	ICSA	1	52491.6	53422.4	98.26	PASS	30-150
ICSA1	ICSA	1	53210.5	53422.4	99.6	PASS	30-150
ICSAB1	ICSAB	1	53530.5	53422.4	100.2	PASS	30-150
CCV1	CCV	1	52364.5	53422.4	98.02	PASS	30-150
CCB1	CCB	1	52765.8	53422.4	98.77	PASS	30-150
ICSA2	ICSA	1	52830.5	53422.4	98.89	PASS	30-150
ICSAB2	ICSAB	1	53220.6	53422.4	99.62	PASS	30-150
MB-113718	MBLK	1	51452.8	53422.4	96.31	PASS	30-150
LCS-113718	LCS	1	52007.8	53422.4	97.35	PASS	30-150
N069543-001B	SAMP	1	43353.9	53422.4	81.15	PASS	30-150
N069543-002B	SAMP	1	42140.7	53422.4	78.88	PASS	30-150
N069543-002B	SAMP	5	50817.5	53422.4	95.12	PASS	30-150
N069543-002B-PS	PS	1	42030.4	53422.4	78.68	PASS	30-150
N069543-002B-MS	MS	1	41852.3	53422.4	78.34	PASS	30-150
N069543-002B-MSD	MSD	1	42695.5	53422.4	79.92	PASS	30-150
N069543-003B	SAMP	1	42759	53422.4	80.04	PASS	30-150
CCV2	CCV	1	60611.7	53422.4	113.46	PASS	30-150
CCB2	CCB	1	60761.2	53422.4	113.74	PASS	30-150
N069543-004B	SAMP	1	51893	53422.4	97.14	PASS	30-150
N069543-005B	SAMP	1	44944.8	53422.4	84.13	PASS	30-150
N069543-006B	SAMP	1	43929.9	53422.4	82.23	PASS	30-150
N069543-007B	SAMP	1	55580.5	53422.4	104.04	PASS	30-150
N069543-008B	SAMP	1	40693.7	53422.4	76.17	PASS	30-150
N069543-009B	SAMP	1	41097	53422.4	76.93	PASS	30-150
N069543-010B	SAMP	1	54608.5	53422.4	102.22	PASS	30-150
N069543-011B	SAMP	1	51514.1	53422.4	96.43	PASS	30-150
N069543-012B	SAMP	1	47943.4	53422.4	89.74	PASS	30-150

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria
CCV3	CCV	1	59040.3	53422.4	110.52	PASS	30-150
CCB3	CCB	1	59056	53422.4	110.55	PASS	30-150
N069543-013B	SAMP	1	46197.2	53422.4	86.48	PASS	30-150
N069543-014B	SAMP	1	44247.3	53422.4	82.83	PASS	30-150
N069543-015B	SAMP	1	45059.6	53422.4	84.35	PASS	30-150
N069543-016B	SAMP	1	45989.9	53422.4	86.09	PASS	30-150
N069543-017B	SAMP	1	44779.9	53422.4	83.82	PASS	30-150
N069543-019B	SAMP	1	40123.5	53422.4	75.11	PASS	30-150
N069543-020B	SAMP	1	41013.4	53422.4	76.77	PASS	30-150
N069543-005B	SAMP	1	41528.1	53422.4	77.74	PASS	30-150
N069543-006B	SAMP	1	41724.2	53422.4	78.1	PASS	30-150
N069543-005B	SAMP	1	44073.6	53422.4	82.5	PASS	30-150
CCV4	CCV	1	61755.9	53422.4	115.6	PASS	30-150
CCB4	CCB	1	59179.9	53422.4	110.78	PASS	30-150
ICSA3	ICSA	1	59115.2	53422.4	110.66	PASS	30-150
ICSAB3	ICSAB	1	56782.6	53422.4	106.29	PASS	30-150
CCV5	CCV	1	56816	53422.4	106.35	PASS	30-150
CCB5	CCB	1	55388.9	53422.4	103.68	PASS	30-150
CCV6	CCV	1	55038.8	53422.4	103.03	PASS	30-150
CCB6	CCB	1	53668.7	53422.4	100.46	PASS	30-150
CCV7	CCV	1	51998.9	53422.4	97.34	PASS	30-150
CCB7	CCB	1	51937.7	53422.4	97.22	PASS	30-150
CCV8	CCV	1	56526	53422.4	105.81	PASS	30-150
CCB8	CCB	1	54577.3	53422.4	102.16	PASS	30-150
ICSA4	ICSA	1	54489.3	53422.4	102	PASS	30-150
ICSAB4	ICSAB	1	52404.8	53422.4	98.1	PASS	30-150
CCV9	CCV	1	55617.4	53422.4	104.11	PASS	30-150
CCB9	CCB	1	54427.9	53422.4	101.88	PASS	30-150
CCV10	CCV	1	58252	53422.4	109.04	PASS	30-150
CCB10	CCB	1	57011.1	53422.4	106.72	PASS	30-150
CCV11	CCV	1	55398.9	53422.4	103.7	PASS	30-150
CCB11	CCB	1	54949.7	53422.4	102.86	PASS	30-150
CCV12	CCV	1	53813.6	53422.4	100.73	PASS	30-150
CCB12	CCB	1	52687.8	53422.4	98.62	PASS	30-150
ICSA5	ICSA	1	51925.4	53422.4	97.2	PASS	30-150
ICSAB5	ICSAB	1	50010.6	53422.4	93.61	PASS	30-150

SERIAL DILUTION/ POST DIGESTION SPIKE



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ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N069543
 Test Method: EPA 6020
 Analysis Date: 11/1,3/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 113718

Instrument ID: NV00922-ICP8 (ICPMS-03)
 Instrument Description: Agilent 7800


Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to As, Se, Cr. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069543-002B DT 5x	Molybdenum	Mo	µg/L	46.17906	PASS	46.89757	1.53%	10
N069543-002B DT 50x	Manganese	Mn	µg/L	595.7665	PASS	609.5377	2.26%	10
N069543-002B DT 5x	Arsenic	As	µg/L	4.722693	NA	4.341704	8.78%	10
N069543-002B DT 5x	Selenium	Se	µg/L	0	NA	0		10
N069543-002B DT 5x	Chromium	Cr	µg/L	0	NA	0		10

Reviewed by:

 12/16/2024

Note: NA - Not Applicable

11/12/24 18:59

N069543_6020_113718_DT

CLIENT: ARCADIS U.S., Inc. - California
 Work Order: N069543
 Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID	N069543-002B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195129					
Client ID:	ZZZZZZ	Batch ID: 113718	TestNo: EPA 6020	EPA 3010A	Analysis Date: 11/2/2024	SeqNo: 6282861					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	58.624	0.50	10.00	46.90	117	80	120				

Sample ID	N069543-002B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195129					
Client ID:	ZZZZZZ	Batch ID: 113718	TestNo: EPA 6020	EPA 3010A	Analysis Date: 11/2/2024	SeqNo: 6282862					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	1514.956	5.0	1000	609.5	90.5	80	120				

Sample ID	N069543-002B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177					
Client ID:	ZZZZZZ	Batch ID: 113718	TestNo: EPA 6020	EPA 3010A	Analysis Date: 11/4/2024	SeqNo: 6285997					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	13.602	0.10	10.00	4.342	92.6	80	120				
Selenium	6.029	0.50	10.00	0	60.3	80	120				S

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069543
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID N069543-002B-PS	SampType: PS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ZZZZZZ	Batch ID: 113718	TestNo: EPA 6020	EPA 3010A	Analysis Date: 11/4/2024	SeqNo: 6286852						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	8.620	1.0	10.00	0	86.2	80	120				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out

E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values

H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
(M) Test is modified

CORRECTIVE ACTION DOCUMENTATION



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FDOIRUQID
44443 Duhvid Eog1/Vh E/Fhuukrv/FD <3:36
S= 895154<1:768 I= 895154<1:769

QHYDGD
6484 Z 1SrwUg1/OdvYhjdvr/QY ;<44;
S= :35163:1598< I= :35163:159<4

ASSET Laboratories

Corrective Action Report (CAR)

Date Initiated: 05-Nov-24

Corrective Action Report ID: 8168

Initiated By: Diane Jetajobe

Department: ME-3(ICPMS)

Corrective Action Description

CAR Summary: N069543-005B was re-analyzed several times with failed RSD for Se.

Description of Nonconformance: N069543-005B was re-analyzed several times due to RSD not meeting the 15% criteria for Se. RSD on all runs failed acceptance criteria.

Description of Corrective Action: Se was reported at 0.709 ug/L with the lowest RSD of 15.7%. The results are comparable on all runs.

Performed By: Diane Jetajobe

Completion Date: 05-Oct-24

Client Notification

Client Notification Required: ~~No~~

Notified By:

Comment:

Quality Assurance Review

Corrective Action: Deficiency

Further Action required by QA: none

Approval and Closure

CAR Closed By: _____

Close Date:

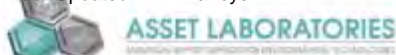
QA Reviewed By: *Nancy* 11/13/2024

QA Date:

Last Updated BY nancys

Updated: 13-Nov-2024 3:39 PM

Reported: 13-Nov-2024 3:50 PM



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MDL STUDY



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Method Detection Limit

Analytical Method: **EPA 6020B**
 Digestion Method: **3010**
 Date of Analysis: **2/15-2/19/2024**
 Digestion Date: **2/15-2/19/2024**
 Instrument Name: **NV0922-ICP8**
 Analysts: **DJ**

Matrix: **Water**
 Unit: **ug/L**

Analyte	1	2	3	4	5	6	7	AMT SPIKED, ppb	SD	MDLs	PQL	MDL
ANTIMONY	0.543	0.521	0.559	0.527	0.573	0.559	0.572	0.50	0.0208	0.0653	0.50	0.0653
ARSENIC	0.102	0.123	0.107	0.116	0.096	0.161	0.115	0.10	0.0212	0.0668	0.10	0.0668
BARIUM	1.103	1.065	1.083	1.081	1.094	1.066	1.060	1.00	0.0159	0.0499	1.00	0.0499
BERYLLIUM	0.533	0.524	0.557	0.541	0.564	0.565	0.502	0.50	0.0233	0.0733	0.50	0.0733
CADMIUM	0.523	0.562	0.529	0.559	0.491	0.544	0.533	0.50	0.0243	0.0763	0.50	0.0763
CHROMIUM	1.015	0.996	1.000	1.100	1.030	1.081	1.052	1.00	0.0402	0.1264	1.00	0.1264
COBALT	0.524	0.523	0.541	0.559	0.528	0.534	0.551	0.50	0.0138	0.0433	0.50	0.0433
COPPER	1.043	1.028	1.026	1.016	1.068	1.098	1.021	1.00	0.0301	0.0947	1.00	0.0947
IRON	11.041	10.660	10.783	11.168	10.989	10.919	10.802	10.00	0.1734	0.5449	10.00	0.5449
LEAD	1.076	1.068	1.091	1.077	1.083	1.040	1.040	1.00	0.0203	0.0637	1.00	0.0637
MANGANESE	0.558	0.529	0.519	0.541	0.532	0.525	0.554	0.50	0.0148	0.0465	0.50	0.0465
MOLYBDENUM	0.564	0.571	0.574	0.537	0.518	0.554	0.550	0.50	0.0200	0.0629	0.50	0.0629
NICKEL	1.025	1.059	1.057	0.947	0.974	1.069	1.036	1.00	0.0465	0.1461	1.00	0.1461
SELENIUM	0.679	0.622	0.547	0.429	0.439	0.552	0.506	0.50	0.0911	0.2863	0.50	0.2863
SILVER	0.525	0.538	0.555	0.545	0.551	0.530	0.518	0.50	0.0140	0.0439	0.50	0.0439
THALLIUM	0.503	0.493	0.491	0.555	0.525	0.504	0.499	0.50	0.0227	0.0713	0.50	0.0713
URANIUM	0.517	0.513	0.528	0.542	0.526	0.533	0.523	0.50	0.0097	0.0306	0.50	0.0306
VANADIUM	1.081	1.076	1.027	1.054	1.069	1.043	1.080	1.00	0.0209	0.0658	1.00	0.0658
ZINC	10.646	10.643	10.661	10.514	10.927	10.516	10.419	10.00	0.1631	0.5126	10.00	0.7534
ALUMINUM	10.305	10.064	10.146	10.336	10.592	10.459	10.670	10.00	0.2224	0.6990	10.00	0.6990



Method Detection Limit (Blanks)

Analyte	1	2	3	4	5	6	7	Mean	SD	MDLb
ANTIMONY	0.011	0.009	0.001	0.001	0.003	0.018	0.012	0.0080	0.0065	0.0285
ARSENIC	0.021	0.013	0.004	0.008	0.000	0.001	0.000	0.0067	0.0079	0.0316
BARIUM	0.000	0.018	0.014	0.000	0.003	0.001	0.003	0.0054	0.0072	0.0280
BERYLLIUM	0.003	0.005	0.007	0.002	0.005	0.014	0.003	0.0057	0.0039	0.0179
CADMIUM	0.000	0.002	0.000	0.000	0.000	0.001	0.000	0.0004	0.0007	0.0026
CHROMIUM	0.000	0.000	0.000	0.000	0.000	0.001	0.004	0.0008	0.0016	0.0059
COBALT	0.000	0.000	0.000	0.000	0.000	0.003	0.001	0.0006	0.0012	0.0042
COPPER	0.000	0.000	0.069	0.000	0.010	0.000	0.000	0.0113	0.0258	0.0924
IRON	0.000	0.000	0.000	0.236	0.187	0.020	0.112	0.0792	0.0996	0.3922
LEAD	0.001	0.000	0.000	0.002	0.001	0.001	0.001	0.0011	0.0009	0.0037
MANGANESE	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.0008	0.0020	0.0071
MOLYBDENUM	0.017	0.013	0.007	0.015	0.004	0.022	0.009	0.0126	0.0062	0.0321
NICKEL	0.000	0.000	0.062	0.000	0.000	0.017	0.013	0.0132	0.0228	0.0849
SELENIUM	0.007	0.027	0.000	0.000	0.019	0.000	0.013	0.0093	0.0107	0.0428
SILVER	0.004	0.002	0.002	0.000	0.000	0.001	0.000	0.0012	0.0014	0.0057
THALLIUM	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.0003	0.0008	0.0028
URANIUM	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.0001	0.0004	0.0013
VANADIUM	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.0003	0.0004	0.0016
ZINC	0.000	0.000	0.257	0.175	0.513	0.000	0.000	0.1350	0.1968	0.7534
ALUMINUM	0.000	0.000	0.106	0.000	0.000	0.170	0.295	0.0816	0.1160	0.4460

Note: Higher value between **MDLs** and **MDLb** will be used.



LOD PQL VERIFICATION 2024

Analytical Method: EPA 6020 / 200.8
Digestion Method: EPA 3010A
Date of Analysis: 1/20/2024
Digestion Date: 1/20/2024
Instrument Name: ICPMS3
Analysts: DBJ

Matrix: Water
Units: ug/L

N062388

Analyte	MDLs	LOD	ACTUAL LOD	PQL	ACTUAL PQL	% RECOVERY
ANTIMONY	0.0652	0.025	0.288	0.50	0.552	110
ARSENIC	0.0667	0.050	0.055	0.10	0.107	107
BARIUM	0.0498	0.500	0.547	1.00	1.049	105
BERYLLIUM	0.0732	0.250	0.253	0.50	0.502	100
CADMIUM	0.0763	0.250	0.255	0.50	0.498	100
CHROMIUM	0.1263	0.500	0.536	1.00	1.048	105
COBALT	0.0433	0.250	0.261	0.50	0.518	104
COPPER	0.0946	0.100	0.620	1.00	0.941	94
IRON	0.5444	5.000	5.219	10.00	10.531	105
LEAD	0.0636	0.500	0.513	1.00	1.035	104
MANGANESE	0.0464	0.250	0.261	0.50	0.602	120
MOLYBDENUM	0.0628	0.250	0.275	0.50	0.534	107
NICKEL	0.1460	0.500	0.492	1.00	1.184	118
SELENIUM	0.2861	0.250	0.272	0.50	0.536	107
SILVER	0.0438	0.250	0.277	0.50	0.534	107
THALLIUM	0.0712	0.250	0.264	0.50	0.508	102
URANIUM	0.0306	0.250	0.261	0.50	0.523	105
VANADIUM	0.0657	0.500	0.557	1.00	1.063	106
ZINC	0.5121	5.000	5.394	10.00	10.481	105
ALUMINUM	0.6983	5.000	5.519	10.00	10.395	104

ARCADIS

Project: PG&E Topock - RCM

Project No.: 30211191

ASSET Laboratories Work Order:
N069582

ANALYTICAL and QC RESULTS SAMPLE RECEIVING ITEMS

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November 14, 2024

Laura Madsen
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661
TEL: 1 720 344 3771
FAX:

Workorder No.: N069582

RE: PG&E Topock - RCM, 30211191

Attention: Laura Madsen

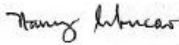
Enclosed are the results for sample(s) received on October 30, 2024 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

The reported results relate only to the samples as received and parameters tested by the laboratory.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,



Nancy Sibucio
Laboratory Director

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CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - RCM, 30211191
Lab Order: N069582

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 300.0:

Dilution was necessary due to precipitation of samples upon the addition of eluent.

Analytical Comments for EPA 6020_Dissolved:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Selenium in QC samples N069583-003B-MS and N069583-003B-MSD possibly due to matrix interference. Post Spike (PS) and Dilution Test (DT) were performed however, PS failed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.



ASSET Laboratories

Date: 14-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - RCM, 30211191
Lab Order: N069582
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N069582-001A	EB-713-Q424	Groundwater	10/30/2024 3:08:00 PM	10/30/2024	11/14/2024
N069582-002A	MW-38D-Q424	Groundwater	10/30/2024 11:13:00 AM	10/30/2024	11/14/2024
N069582-002B	MW-38D-Q424	Groundwater	10/30/2024 11:13:00 AM	10/30/2024	11/14/2024
N069582-002C	MW-38D-Q424	Groundwater	10/30/2024 11:13:00 AM	10/30/2024	11/14/2024
N069582-003A	MW-38S-Q424	Groundwater	10/30/2024 12:21:00 PM	10/30/2024	11/14/2024
N069582-003B	MW-38S-Q424	Groundwater	10/30/2024 12:21:00 PM	10/30/2024	11/14/2024
N069582-003C	MW-38S-Q424	Groundwater	10/30/2024 12:21:00 PM	10/30/2024	11/14/2024
N069582-004A	MW-85-129-Q424	Groundwater	10/30/2024 1:22:00 PM	10/30/2024	11/14/2024
N069582-004B	MW-85-129-Q424	Groundwater	10/30/2024 1:22:00 PM	10/30/2024	11/14/2024
N069582-004C	MW-85-129-Q424	Groundwater	10/30/2024 1:22:00 PM	10/30/2024	11/14/2024
N069582-005A	MW-85-217-Q424	Groundwater	10/30/2024 2:58:00 PM	10/30/2024	11/14/2024
N069582-005B	MW-85-217-Q424	Groundwater	10/30/2024 2:58:00 PM	10/30/2024	11/14/2024
N069582-005C	MW-85-217-Q424	Groundwater	10/30/2024 2:58:00 PM	10/30/2024	11/14/2024
N069582-006A	MW-85-237-Q424	Groundwater	10/30/2024 2:11:00 PM	10/30/2024	11/14/2024
N069582-006B	MW-85-237-Q424	Groundwater	10/30/2024 2:11:00 PM	10/30/2024	11/14/2024
N069582-006C	MW-85-237-Q424	Groundwater	10/30/2024 2:11:00 PM	10/30/2024	11/14/2024



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ANALYTICAL RESULTS

Print Date: 14-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069582
Project: PG&E Topock - RCM, 30211191
Lab ID: N069582-001

Client Sample ID: EB-713-Q424
Collection Date: 10/30/2024 3:08:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241031A	QC Batch: R195071	PrepDate:	Analyst: RAB
Hexavalent Chromium	ND 0.039 0.20	µg/L	1 10/31/2024 05:41 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out
E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified
(M) Test is modified



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ANALYTICAL RESULTS

Print Date: 14-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069582
Project: PG&E Topock - RCM, 30211191
Lab ID: N069582-002

Client Sample ID: MW-38D-Q424
Collection Date: 10/30/2024 11:13:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241031A	QC Batch: R195071						Analyst: RAB
Hexavalent Chromium	23	0.19	1.0		µg/L	5	10/31/2024 04:04 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113746					10/31/2024	Analyst: DJ
Chromium	21	0.13	1.0		µg/L	1	11/4/2024 06:02 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 14-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069582
Project: PG&E Topock - RCM, 30211191
Lab ID: N069582-003

Client Sample ID: MW-38S-Q424
Collection Date: 10/30/2024 12:21:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
				EPA 218.6			
RunID: NV00922-IC7_241031A	QC Batch: R195071			PrepDate:	Analyst: RAB		
Hexavalent Chromium	38	0.19	1.0	µg/L	5	10/31/2024 02:05 PM	
DISSOLVED METALS BY ICP-MS							
EPA 3010A				EPA 6020			
RunID: NV00922-ICP8_241103B	QC Batch: 113746			PrepDate: 10/31/2024	Analyst: DJ		
Chromium	37	0.13	1.0	µg/L	1	11/4/2024 06:08 AM	

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 14-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069582
Project: PG&E Topock - RCM, 30211191
Lab ID: N069582-004

Client Sample ID: MW-85-129-Q424
Collection Date: 10/30/2024 1:22:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241101A	QC Batch: R195173				PrepDate:		Analyst: RAB
Hexavalent Chromium	440	1.9	10		µg/L	50	11/1/2024 11:05 AM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241105G	QC Batch: 113746				PrepDate: 10/31/2024		Analyst: DJ
Chromium	470	1.3	10		µg/L	10	11/6/2024 12:47 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 14-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069582
Project: PG&E Topock - RCM, 30211191
Lab ID: N069582-005

Client Sample ID: MW-85-217-Q424
Collection Date: 10/30/2024 2:58:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241101A	QC Batch: R195173				PrepDate:		Analyst: RAB
Hexavalent Chromium	840	3.9	20		µg/L	100	11/1/2024 01:38 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241105G	QC Batch: 113746				PrepDate: 10/31/2024		Analyst: DJ
Chromium	870	1.3	10		µg/L	10	11/6/2024 12:53 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069582
Project: PG&E Topock - RCM, 30211191
Lab ID: N069582-006

Client Sample ID: MW-85-237-Q424
Collection Date: 10/30/2024 2:11:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241101A	QC Batch: R195173						Analyst: RAB
Hexavalent Chromium	340	1.9	10		µg/L	50	11/1/2024 11:45 AM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241105G	QC Batch: 113746					10/31/2024	Analyst: DJ
Chromium	340	1.3	10		µg/L	10	11/6/2024 12:59 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID MB-R195071	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: PBW	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279542							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.039	0.20									

Sample ID LCS-R195071	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: LCSW	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279543							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.714	0.039	0.20	5.000	0	94.3	90	110				

Sample ID N069543-018AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279545							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.057	0.039	0.20	1.000	0	106	90	110				

Sample ID N069543-021AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279547							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.132	0.039	0.20	1.000	0.1996	93.3	90	110				

Sample ID N069583-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279551							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.145	0.19	1.0	5.000	0	103	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069583-003AMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279552								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.283	0.19	1.0	5.000	0	106	90	110	5.144	2.65	20	

Sample ID N069583-006AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279557								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.943	0.039	0.20	1.000	0	94.3	90	110				

Sample ID N069585-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279559								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	49.904	0.19	1.0	25.00	25.68	96.9	90	110				

Sample ID N069585-001ADUP	SampType: DUP	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279560								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	25.685	0.19	1.0						25.68	0.0312	20	

Sample ID N069582-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279562								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	46.817	0.19	1.0	25.00	23.36	93.8	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069582-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279563							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	63.441	0.19	1.0	25.00	37.59	103	90	110				

Sample ID N069543-019AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279567							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	7.503	0.19	1.0	5.000	2.146	107	90	110				

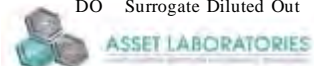
Sample ID N069543-020AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279569							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	7.435	0.19	1.0	5.000	2.386	101	90	110				

Sample ID N069582-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279571							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.010	0.039	0.20	1.000	0	101	90	110				

Sample ID N069583-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279573							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.413	0.19	1.0	5.000	0.8955	90.3	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069583-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279575							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.481	0.19	1.0	5.000	0	110	90	110				

Sample ID N069583-004AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279579							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	6.735	0.19	1.0	5.000	1.958	95.5	90	110				

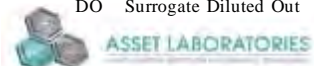
Sample ID N069583-005AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279581							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.085	0.039	0.20	1.000	0	109	90	110				

Sample ID N069583-007AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279583							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.053	0.039	0.20	1.000	0	105	90	110				

Sample ID N069583-008AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279587							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.488	0.19	1.0	5.000	0	110	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069583-009AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279589							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.027	0.19	1.0	5.000	0	101	90	110				

Sample ID N069583-010AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279591							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.840	0.19	1.0	5.000	0	96.8	90	110				

Sample ID N069583-011AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279595							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.043	0.039	0.20	1.000	0	104	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID MB-R195173	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: PBW	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285586							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	ND	0.039	0.20									
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Sample ID LCS-R195173	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: LCSW	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285587							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.841	0.039	0.20	5.000	0	96.8	90	110				
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Sample ID N069582-004ADUP	SampType: DUP	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZ	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285589							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	438.095	1.9	10						438.3	0.0399	20	
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Sample ID N069582-004AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZ	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285590							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	677.400	1.9	10	250.0	438.3	95.7	90	110				
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Sample ID N069629-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZ	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285595							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	1.057	0.039	0.20	1.000	0	106	90	110				
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Qualifiers:

- | | | | | | |
|----|---|--------------------------------------|--------------------------------------|-----|--|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out | Calculations are based on raw values | | (M) | Test is modified |



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Work Order: N069582
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ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069582-006AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZ	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285596							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	589.385	1.9	10	250.0	336.0	101	90	110				

Sample ID N069582-006AMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZ	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285597							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	586.425	1.9	10	250.0	336.0	100	90	110	589.4	0.503	20	

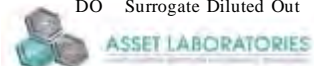
Sample ID N069582-005AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZ	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285599							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1337.330	3.9	20	500.0	842.1	99.1	90	110				

Sample ID N069629-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZ	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285601							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.938	0.039	0.20	1.000	1.966	97.2	90	110				

Sample ID N069629-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZ	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285605							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.928	0.039	0.20	1.000	1.915	101	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069631-008AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZZ	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285607							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.732	0.19	1.0	5.000	0	94.6	90	110
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Sample ID N069631-009AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZZ	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285611							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.044	0.19	1.0	5.000	0	101	90	110
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Sample ID N069631-010AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZZ	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285613							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.834	0.19	1.0	5.000	0	96.7	90	110
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Sample ID N069631-011AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZZ	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285615							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.852	0.19	1.0	5.000	0	97.0	90	110
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Sample ID N069631-012AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZZ	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285619							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.969	0.19	1.0	5.000	0	99.4	90	110
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| (M) Test is modified | | |



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Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069631-013AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZZ	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285621								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.131	0.19	1.0	5.000	0	103	90	110				
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Sample ID N069631-014AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZZ	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285625								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.830	0.19	1.0	5.000	0	96.6	90	110				
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Sample ID N069631-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZZ	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285627								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	1.107	0.039	0.20	1.000	0.07280	103	90	110				
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Sample ID N069631-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZZ	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285629								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	1.077	0.039	0.20	1.000	0	108	90	110				
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Sample ID N069631-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZZ	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285631								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	1.061	0.039	0.20	1.000	0	106	90	110				
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
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ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069631-004AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZ	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285633								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.119	0.039	0.20	1.000	0.06170	106	90	110				

Sample ID N069631-005AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZ	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285637								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.099	0.039	0.20	1.000	0	110	90	110				

Sample ID N069631-006AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZ	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285639								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.105	0.039	0.20	1.000	0.08950	102	90	110				

Sample ID N069631-007AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZ	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285641								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.068	0.039	0.20	1.000	0	107	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID MB-113746	SampType: MBLK	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195188							
Client ID: PBW	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286883							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium ND 0.13 1.0

Sample ID LCS-113746	SampType: LCS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195188							
Client ID: LCSW	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286884							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 9.636 0.13 1.0 10.00 0 96.4 85 115

Sample ID N069583-003BMS	SampType: MS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195188							
Client ID: ZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286907							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 9.093 0.13 1.0 10.00 0 90.9 75 125

Sample ID N069583-003BMSD	SampType: MSD	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195188							
Client ID: ZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286909							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 9.069 0.13 1.0 10.00 0 90.7 75 125 9.093 0.267 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

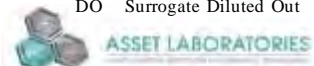
ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID	N069583-003B-PS	SampType:	PS	TestCode:	6020DIS_CrP	Units:	µg/L	Prep Date:		RunNo:	195188			
Client ID:	ZZZZZ	Batch ID:	113746	TestNo:	EPA 6020		EPA 3010A	Analysis Date:	11/4/2024	SeqNo:	6286905			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium		9.171		0.13	1.0	10.00	0	91.7	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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ICP-MS-Metals in Water

Work Order No.: N069582
Test Method: EPA 6020
Analysis Date: 11/3/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 113746

Instrument ID: NV00922-ICP8 (ICPMS-03)
Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Cr & As. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069583-003B DT 5x	Chromium	Cr	µg/L	0	NA	0		10
N069583-003B DT 5x	Arsenic	As	µg/L	1.130018	NA	1.294523	12.71%	10

Note: NA - Not Applicable

11/14/24 10:52

N069582_6020_113746_DT

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ANALYTICAL RESULTS

Print Date: 14-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069582
Project: PG&E Topock - RCM, 30211191
Lab ID: N069582-002

Client Sample ID: MW-38D-Q424
Collection Date: 10/30/2024 11:13:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241031A	QC Batch: R195037	PrepDate:	Analyst: RAB
Nitrate as N	ND 0.24	0.50	mg/L 10 10/31/2024 11:51 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 14-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069582
Project: PG&E Topock - RCM, 30211191
Lab ID: N069582-003

Client Sample ID: MW-38S-Q424
Collection Date: 10/30/2024 12:21:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241031A	QC Batch: R195037	PrepDate:	Analyst: RAB
Nitrate as N	6.6 0.24	0.50	mg/L 10 10/31/2024 02:46 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 14-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069582
Project: PG&E Topock - RCM, 30211191
Lab ID: N069582-004

Client Sample ID: MW-85-129-Q424
Collection Date: 10/30/2024 1:22:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241031A	QC Batch: R195037				PrepDate:		Analyst: RAB
Nitrate as N	16	0.48	1.0		mg/L	20	10/31/2024 03:02 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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ANALYTICAL RESULTS

Print Date: 14-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069582
Project: PG&E Topock - RCM, 30211191
Lab ID: N069582-005

Client Sample ID: MW-85-217-Q424
Collection Date: 10/30/2024 2:58:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241031A	QC Batch: R195037	PrepDate:	Analyst: RAB
Nitrate as N	9.9 0.24 0.50	mg/L	10 10/31/2024 03:18 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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ANALYTICAL RESULTS

Print Date: 14-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069582
Project: PG&E Topock - RCM, 30211191
Lab ID: N069582-006

Client Sample ID: MW-85-237-Q424
Collection Date: 10/30/2024 2:11:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241031A	QC Batch: R195037	PrepDate:	Analyst: RAB
Nitrate as N	1.6 0.24	0.50	mg/L 10 10/31/2024 02:30 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID	MB-R195037_NO3	SampType:	MBLK	TestCode:	300WLLNO3	Units:	mg/L	Prep Date:		RunNo:	195037			
Client ID:	PBW	Batch ID:	R195037	TestNo:	EPA 300.0			Analysis Date:	10/31/2024	SeqNo:	6277711			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.024 0.050

Sample ID	LCS-R195037_NO3	SampType:	LCS	TestCode:	300WLLNO3	Units:	mg/L	Prep Date:		RunNo:	195037			
Client ID:	LCSW	Batch ID:	R195037	TestNo:	EPA 300.0			Analysis Date:	10/31/2024	SeqNo:	6277712			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 1.344 0.024 0.050 1.250 0 108 90 110

Sample ID	N069583-003CMS	SampType:	MS	TestCode:	300WLLNO3	Units:	mg/L	Prep Date:		RunNo:	195037			
Client ID:	ZZZZZ	Batch ID:	R195037	TestNo:	EPA 300.0			Analysis Date:	10/31/2024	SeqNo:	6277729			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 12.819 0.24 0.50 12.50 0 103 80 120

Sample ID	N069583-003CMSD	SampType:	MSD	TestCode:	300WLLNO3	Units:	mg/L	Prep Date:		RunNo:	195037			
Client ID:	ZZZZZ	Batch ID:	R195037	TestNo:	EPA 300.0			Analysis Date:	10/31/2024	SeqNo:	6277730			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 12.910 0.24 0.50 12.50 0 103 80 120 12.82 0.707 20

Sample ID	N069582-006CDUP	SampType:	DUP	TestCode:	300WLLNO3	Units:	mg/L	Prep Date:		RunNo:	195037			
Client ID:	ZZZZZ	Batch ID:	R195037	TestNo:	EPA 300.0			Analysis Date:	10/31/2024	SeqNo:	6277731			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 1.641 0.24 0.50 1.616 1.54 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID N069583-006CMS	SampType: MS	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195037							
Client ID: ZZZZZZ	Batch ID: R195037	TestNo: EPA 300.0	Analysis Date: 10/31/2024	SeqNo: 6277732								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	14.760	0.24	0.50	12.50	0	118	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069582
Project: PG&E Topock - RCM, 30211191
Lab ID: N069582-002

Client Sample ID: MW-38D-Q424
Collection Date: 10/30/2024 11:13:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241105F	QC Batch:	113746	PrepDate:	10/31/2024	Analyst:	DJ
Arsenic	5.4	0.067	0.10	µg/L	1	11/6/2024 12:29 AM	
Manganese	12	0.046	0.50	µg/L	1	11/2/2024 06:03 AM	
Molybdenum	51	0.063	0.50	µg/L	1	11/2/2024 06:03 AM	
Selenium	ND	0.29	0.50	µg/L	1	11/2/2024 06:03 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069582
Project: PG&E Topock - RCM, 30211191
Lab ID: N069582-003

Client Sample ID: MW-38S-Q424
Collection Date: 10/30/2024 12:21:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241103A	QC Batch:	113746	PrepDate:	10/31/2024	Analyst:	DJ
Arsenic	4.9	0.067	0.10	µg/L	1	11/4/2024	06:08 AM
Manganese	0.54	0.046	0.50	µg/L	1	11/2/2024	06:09 AM
Molybdenum	8.8	0.063	0.50	µg/L	1	11/2/2024	06:09 AM
Selenium	4.4	0.29	0.50	µg/L	1	11/4/2024	06:08 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069582
Project: PG&E Topock - RCM, 30211191
Lab ID: N069582-004

Client Sample ID: MW-85-129-Q424
Collection Date: 10/30/2024 1:22:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241103A	QC Batch:	113746	PrepDate:	10/31/2024	Analyst:	DJ
Arsenic	1.1	0.067	0.10	µg/L	1	11/4/2024	06:14 AM
Manganese	0.89	0.046	0.50	µg/L	1	11/2/2024	06:15 AM
Molybdenum	2.7	0.063	0.50	µg/L	1	11/2/2024	06:15 AM
Selenium	9.1	0.29	0.50	µg/L	1	11/2/2024	06:15 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069582
Project: PG&E Topock - RCM, 30211191
Lab ID: N069582-005

Client Sample ID: MW-85-217-Q424
Collection Date: 10/30/2024 2:58:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241103A	QC Batch:	113746	PrepDate:	10/31/2024	Analyst:	DJ
Arsenic	3.5	0.067	0.10	µg/L	1	11/4/2024 06:19 AM	
Manganese	1.4	0.046	0.50	µg/L	1	11/2/2024 06:21 AM	
Molybdenum	43	0.063	0.50	µg/L	1	11/2/2024 06:21 AM	
Selenium	6.0	0.29	0.50	µg/L	1	11/2/2024 06:21 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069582
Project: PG&E Topock - RCM, 30211191
Lab ID: N069582-006

Client Sample ID: MW-85-237-Q424
Collection Date: 10/30/2024 2:11:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241103A	QC Batch:	113746	PrepDate:	10/31/2024	Analyst:	DJ
Arsenic	3.5	0.067	0.10	µg/L	1	11/4/2024 06:43 AM	
Manganese	35	0.046	0.50	µg/L	1	11/2/2024 06:44 AM	
Molybdenum	76	0.063	0.50	µg/L	1	11/2/2024 06:44 AM	
Selenium	2.8	0.29	0.50	µg/L	1	11/2/2024 06:44 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL SERVICES

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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID MB-113746	SampType: MBLK	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195133							
Client ID: PBW	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/2/2024	SeqNo: 6283001							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	ND	0.046	0.50									
Molybdenum	ND	0.063	0.50									
Selenium	ND	0.29	0.50									

Sample ID LCS-113746	SampType: LCS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195133							
Client ID: LCSW	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/2/2024	SeqNo: 6283002							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	92.176	0.046	0.50	100.0	0	92.2	85	115				
Molybdenum	9.765	0.063	0.50	10.00	0	97.7	85	115				
Selenium	9.785	0.29	0.50	10.00	0	97.9	85	115				

Sample ID N069583-003BMS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195133							
Client ID: ZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/2/2024	SeqNo: 6283018							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	14.096	0.063	0.50	10.00	3.691	104	75	125				

Sample ID N069583-003BMSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195133							
Client ID: ZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/2/2024	SeqNo: 6283019							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	14.237	0.063	0.50	10.00	3.691	105	75	125	14.10	0.999	20	

Sample ID MB-113746	SampType: MBLK	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195177							
Client ID: PBW	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286028							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID MB-113746	SampType: MBLK	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195177							
Client ID: PBW	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286028							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.067 0.10

Sample ID LCS-113746	SampType: LCS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195177							
Client ID: LCSW	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286029							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic 9.123 0.067 0.10 10.00 0 91.2 85 115

Sample ID N069583-003BMS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195177							
Client ID: ZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286052							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Selenium 5.852 0.29 0.50 10.00 0 58.5 75 125 S

Sample ID N069583-003BMS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195177							
Client ID: ZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286053							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese 555.904 0.46 5.0 100.0 446.5 109 75 125

Sample ID N069583-003BMSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195177							
Client ID: ZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286054							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Selenium 5.903 0.29 0.50 10.00 0 59.0 75 125 5.852 0.865 20 S

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| (M) Test is modified | | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID N069583-003BMSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195177							
Client ID: ZZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286055							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	545.421	0.46	5.0	100.0	446.5	98.9	75	125	555.9	1.90	20	

Sample ID N069583-003BMS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195177							
Client ID: ZZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6293883							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	11.463	0.067	0.10	10.00	1.295	102	75	125				

Sample ID N069583-003BMSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195177							
Client ID: ZZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6293885							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	11.311	0.067	0.10	10.00	1.295	100	75	125	11.46	1.33	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
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- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID N069583-003B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133							
Client ID: ZZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/2/2024	SeqNo: 6283017							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	14.040	0.063	0.50	10.00	3.691	103	80	120				

Sample ID N069583-003B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177							
Client ID: ZZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286050							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	6.029	0.29	0.50	10.00	0	60.3	80	120				S

Sample ID N069583-003B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177							
Client ID: ZZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286051							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	1340.810	0.46	5.0	1000	446.5	89.4	80	120				

Sample ID N069583-003B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177							
Client ID: ZZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6293881							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.536	0.067	0.10	10.00	1.295	92.4	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

Calculations are based on raw values



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ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N069582
 Test Method: EPA 6020
 Analysis Date: 11/1/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 113746

Instrument ID: NV00922-ICP8 (ICPMS-03)
 Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Mo. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069583-003B DT 5x	Molybdenum	Mo	µg/L	4.038065	NA	3.69116	9.40%	10

Note: NA - Not Applicable
 06/06/24 18:06



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DT_EPA 6020_N065281_109066

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ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N069582
 Test Method: EPA 6020
 Analysis Date: 11/3/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 113746

Instrument ID: NV00922-ICP8 (ICPMS-03)
 Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Cr & As. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069583-003B DT 5x	Chromium	Cr	µg/L	0	NA	0		10
N069583-003B DT 5x	Arsenic	As	µg/L	1.130018	NA	1.294523	12.71%	10

Note: NA - Not Applicable

11/14/24 10:52

N069582_6020_113746_DT

ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N069582
 Test Method: EPA 6020
 Analysis Date: 11/3/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 113746

Instrument ID: NV00922-ICP8 (ICPMS-03)
 Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Se. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069583-003B DT 50x	Manganese	Mn	µg/L	456.8206	PASS	446.5084	2.31%	10
N069583-003B DT 5x	Selenium	Se	µg/L	0	NA	0		10

Note: NA - Not Applicable
 06/06/24 18:06



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SAMPLE RECEIVING ITEMS



ASSET LABORATORIES
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ASSET LABORATORIES

ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CHAIN OF CUSTODY RECORD

Page 1 of 1

ARCUS02 C: 11/14/202 12:00 AM
 FOLDER R: 10/30/2024
N069582-007A 1 of 1



Client: Arcadis		Report to: Laura Madsen		Bill to: Janet Newman		EDD Requirement		Sample Receipt										
Address: 630 Plaza Dr, Suite 200		Company: Arcadis		Address:		Excel EDD		RTNE										
Address: Highlands Ranch, CO 80129		Email:		Address:		Geotracker		RWQCB										
Phone: 720-344-3500		Address:		Email to: janet.newman@arcadis.com		Labspec		CalTrans										
Fax:		Address:		P.O.#		Others		LEVEL III										
Submitted By: <i>Rissie T.</i>		Phone: 720-344-3771		Phone: 949 293-2445		Specify:		LEVEL IV										
Title: <i>Field Tech</i>		Fax:		Fax:		RWQCB		Regulatory										
Signature: <i>[Signature]</i> Date: <i>10/30/24</i>		Sampled By: <i>Rissie T.</i>		Signature: <i>[Signature]</i> Date: <i>10/30/24</i>		Global ID:		Specify State:										
<i>I hereby authorize ASSET Labs to perform the tests indicated below.</i> Project Name: PG&E Topock - RCM Project Number: 30211191		Matrix Ground X Sediment Potable Soil NPDES Other Solid Surface		250 mL poly	1 L poly	500mL poly	500mL poly	500mL poly	3x40 mL VOA	500mL poly	1 L poly	1 L poly	1 L poly	1 L poly	1 L poly	Sample Temp: <i>17°C / 2.5°C</i> Courier: <i>Adex</i> Tracking No.:		
				Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH	Nitrate as N, sulfate (EPA 300.0)	Dissolved metals (SW6020) FF: HNO3 Arsenic, Iron, Barium, Manganese	Dissolved metals (SW6020) FF: HNO3 Total Dissolved Chromium.	Dissolved metals (SW6020) FF: HNO3 Molybdenum, Selenium	Total Organic Carbon (SM5310C); H2SO4	Dissolved metals (SW6020) FF: HNO3 Arsenic, Manganese	Ammonia as Nitrogen (SM4500NH3); H2SO4	Nitrate as N (EPA 300.0)						
				Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks										
				1	2	3	4	5	6	7	8	9	10	11	12		13	14
				1	2	3	4	5	6	7	8	9	10	11	12		13	14
Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: <i>10/30/24 1555</i>		Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: <i>10/30/24 1555</i>		Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: <i>10/30/24 1810</i>		Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: <i>10/30/24 1810</i>		Turn Around Time (TAT)				Special Instruction:						
Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: <i>10/30/24 1810</i>		Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: <i>10/30/24 1810</i>		A < 24 Hrs or Same Day TAT B = Next Workday C = 2 Workdays D = 3 Workdays E = Routine 5-7 Workdays				TAT Starts at 8 AM the following day if samples received after 3:00PM.										
Terms		5. Trip Blanks and Equipment Blanks are billable sample.		Preservatives:				Container Type:										
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.		6. Asset Laboratories is not responsible for samples collected using incorrect methodology.		H=HCL N=HNO3 S=H2SO4 C=4°C				T=Tube V=VOA P=Pin										
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis.		7. Terms are not 30 days.		Z=Zn(AC)2 O=NaOH T=Na2S2O3				J=Jar B=Tedlar G=Glass										
3. Custom EDD formats will be an additional 3% of the total project price.		8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.		Others/Specify: B (NH4)2SO4/NH4OH				M=Metal M=Metal C=Can										
4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharges applied on total project price.		9. For subcontract analysis, TAT and Surcharges will vary.																

White=Laboratory Copy

Yellow=Customer's Copy

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On: 10/30/2024 Workorder: N069582
 Rep sample Temp (Deg C): 1.7/2.5 IR Gun ID: 4
 Temp Blank: Yes No
 Carrier name: ASSET
 Last 4 digits of Tracking No.: NA Packing Material Used: None
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

- | | | | |
|---|---|-----------------------------|---|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 14. Water - pH acceptable upon receipt?
Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 15. Did the bottle labels indicate correct preservatives used? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 16. Were there Non-Conformance issues at login? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Was Client notified? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

Comments:

For:
 Checklist Completed By: EF YRodriguez
 10/31/2024

Reviewed By: for: [Signature]
 MBC 11/05/2024

ASSET Laboratories

WORK ORDER Summary

31-Oct-24

WorkOrder: N069582

Client ID: ARCUS02

Project: PG&E Topock - RCM, 30211191

QC Level: Level IV

Date Received: 10/30/2024 6:10 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N069582-001A	EB-713-Q424	10/30/2024 3:08:00 PM	11/14/2024	Groundwater	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069582-002A	MW-38D-Q424	10/30/2024 11:13:00 AM	11/14/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069582-002B			11/14/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069582-002C			11/14/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069582-003A	MW-38S-Q424	10/30/2024 12:21:00 PM	11/14/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069582-003B			11/14/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069582-003C			11/14/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069582-004A	MW-85-129-Q424	10/30/2024 1:22:00 PM	11/14/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069582-004B			11/14/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069582-004C			11/14/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069582-005A	MW-85-217-Q424	10/30/2024 2:58:00 PM	11/14/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069582-005B			11/14/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069582-005C			11/14/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069582-006A	MW-85-237-Q424	10/30/2024 2:11:00 PM	11/14/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

31-Oct-24

WorkOrder: N069582

Client ID: ARCUS02

Project: PG&E Topock - RCM, 30211191

QC Level: Level IV

Date Received: 10/30/2024 6:10 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N069582-006B	MW-85-237-Q424	10/30/2024 2:11:00 PM	11/14/2024	Groundwater	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069582-006C			11/14/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069582-007A	FOLDER	11/14/2024	11/14/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			11/14/2024		Folder	Level IV Report	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			11/14/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

List of Analysts

ASSET Laboratories Work Order: N069582

NAME	TEST METHOD
Ria Abes	EPA 218.6, EPA 300.0
Diane Jetajobe	EPA 6020_Dissolved



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EPA 218.6



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IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
 REV 2.0
 011416

QC Batch Number: R195071
 ASSET #: N069582

Instrument ID: NV00922-IC7
 Analyst: RBA
 Date Analyzed: 10/31/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria ? (r = 0.995, r =0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)	X			X		
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?	X			X		
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?	X			X		
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)	X			X		
14. For Hinkley DOM samples, matrix spike protocol performed on all samples ? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?	X					X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?	X			X		
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed ?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)	X			X		
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA

Date: _____

2nd Level Reviewer d/Recha 11/13/2024

Date: _____



IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
REV 2.0
011416

QC Batch Number: R195173
ASSET #: N069582

Instrument ID: NV00922-IC7
Analyst: RBA
Date Analyzed: 11/1/2024

Method:

- | | | |
|------------------------------------|-------------------------------------|------------------------|
| <input type="checkbox"/> EPA 300.0 | <input checked="" type="checkbox"/> | EPA 218.6/EPA 218.7 |
| <input type="checkbox"/> EPA 7199 | <input type="checkbox"/> | EPA 218.6/EPA 218.7 LL |
| | <input type="checkbox"/> | Others _____ |

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria? (r = 0.995, r = 0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)	X			X		
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?	X			X		
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?	X			X		
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)	X			X		
14. For Hinkley DOM samples, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?	X			X		
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)	X			X		
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA

Date: _____

2nd Level Reviewer d/Rocha 11/7/2024

Date: _____

SAMPLE CALCULATION



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Sample Calculation

METHOD: EPA 218.6
TEST NAME: HEXAVALENT CHROMIUM BY IC
MATRIX: Groundwater

FORMULA:

Calculate the Hexavalent Chromium concentration, in $\mu\text{g/L}$, in the original sample as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = A * \text{DF}$$

where:

A = $\mu\text{g/L}$, IC Cr+6 calculated concentration
DF = dilution factor

For Sample **N069582-002A** , the concentration in $\mu\text{g/L}$ is calculated as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = 4.6721 * 5$$

$$\text{Cr}^{+6}, \mu\text{g/L} = 23.3605$$

Reporting results in two significant figures,

$$\text{Cr}^{+6}, \mu\text{g/L} = 23$$

Reviewed by:

d/Rocha 12/1/2024

ANALYSIS RUN LOG



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INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	ICV	ICV	1	Hexavalent Chromium	10/28/24 10:49 AM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/28/24 10:59 AM	Reported
11	ICB	ICB	1	Hexavalent Chromium	10/28/24 11:08 AM	Reported
12	MB-R194895	MBLK	1	Hexavalent Chromium	10/28/24 11:17 AM	Reported
13	LCS-R194895	LCS	1	Hexavalent Chromium	10/28/24 11:27 AM	Reported
14	N069445-001A	SAMP	1	Hexavalent Chromium	10/28/24 11:36 AM	Reported
15	N069445-001AMS	MS	1	Hexavalent Chromium	10/28/24 11:46 AM	Reported
16	N069445-001AMSD	MSD	1	Hexavalent Chromium	10/28/24 11:55 AM	Reported
17	N069445-001ADUP	DUP	1	Hexavalent Chromium	10/28/24 12:05 PM	Reported
18	N069453-001A	SAMP	1	Hexavalent Chromium	10/28/24 12:14 PM	Reported
19	N069453-002A	SAMP	1	Hexavalent Chromium	10/28/24 12:24 PM	Reported
20	N069453-003A	SAMP	1	Hexavalent Chromium	10/28/24 12:33 PM	Reported
21	N069453-004A	SAMP	1	Hexavalent Chromium	10/28/24 12:43 PM	Reported
22	CCV-1	CCV1	1	Hexavalent Chromium	10/28/24 12:52 PM	Reported
23	CCB-1	CCB	1	Hexavalent Chromium	10/28/24 1:02 PM	Reported
24	N069444-001A	SAMP	1	Hexavalent Chromium	10/28/24 1:11 PM	Reported
25	N069444-001AMS	MS	1	Hexavalent Chromium	10/28/24 1:20 PM	Reported
26	N069444-002A	SAMP	1	Hexavalent Chromium	10/28/24 1:30 PM	Reported
27	N069444-002AMS	MS	1	Hexavalent Chromium	10/28/24 1:39 PM	Reported
28	N069444-003A	SAMP	1	Hexavalent Chromium	10/28/24 1:49 PM	Not Reported
29	N069444-003AMS	MS	1	Hexavalent Chromium	10/28/24 1:58 PM	Not Reported
30	N069444-001A	SAMP	5	Hexavalent Chromium	10/28/24 2:08 PM	Not Reported
31	N069444-001AMS	MS	5	Hexavalent Chromium	10/28/24 2:17 PM	Not Reported
32	N069444-002A	SAMP	5	Hexavalent Chromium	10/28/24 2:27 PM	Not Reported
33	N069444-002AMS	MS	5	Hexavalent Chromium	10/28/24 2:36 PM	Not Reported
34	CCV-2	CCV	1	Hexavalent Chromium	10/28/24 2:46 PM	Reported
35	CCB-2	CCB	1	Hexavalent Chromium	10/28/24 2:55 PM	Reported
36	N069444-003A	SAMP	5	Hexavalent Chromium	10/28/24 3:04 PM	Reported
37	N069444-003AMS	MS	5	Hexavalent Chromium	10/28/24 3:14 PM	Reported
38	N069233-009A	SAMP	5	Hexavalent Chromium	10/28/24 3:23 PM	Not Reported
39	N069233-009AMS	MS	5	Hexavalent Chromium	10/28/24 3:33 PM	Not Reported
40	N069233-015A	SAMP	5	Hexavalent Chromium	10/28/24 3:42 PM	Not Reported
41	N069233-015AMS	MS	5	Hexavalent Chromium	10/28/24 3:52 PM	Not Reported
42	CCV-3	CCV1	1	Hexavalent Chromium	10/28/24 4:01 PM	Reported

INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	CCB-3	CCB	1	Hexavalent Chromium	10/28/24 4:11 PM	Reported
44	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 4:20 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241028A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	28/Oct/24 16:50:54
No. of Injections:	47	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	ICV,ICV,1,	9	1000	Unknown		10/28/2024 10:49	Finished	ICV @5ppb, IWST-240729B
10	PQL @0.2ppb,CCV2,	10	1000	Unknown		10/28/2024 10:59	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		10/28/2024 11:08	Finished	ICB R240926A
12	MB-H2O,MBLK,1,	12	1000	Unknown		10/28/2024 11:17	Finished	MB R240926A
13	LCS-H2O,LCS,1,	13	1000	Unknown		10/28/2024 11:27	Finished	LCS @5ppb, IWST-240729B
14	N069445-001A,SAMP	14	1000	Unknown		10/28/2024 11:36	Finished	SAMP,10 mL
15	N069445-001AMS,MS	15	1000	Unknown		10/28/2024 11:46	Finished	MS (1ppb), IWST-240729B,10r
16	N069445-001AMSD,N	16	1000	Unknown		10/28/2024 11:55	Finished	MSD (1ppb), IWST-240729B,1
17	N069445-001ADUP,D	17	1000	Unknown		10/28/2024 12:05	Finished	DUP,10 mL
18	N069453-001A,SAMP	18	1000	Unknown		10/28/2024 12:14	Finished	SAMP,10 mL
19	N069453-002A,SAMP	19	1000	Unknown		10/28/2024 12:24	Finished	SAMP,10 mL
20	N069453-003A,SAMP	20	1000	Unknown		10/28/2024 12:33	Finished	SAMP,10 mL
21	N069453-004A,SAMP	21	1000	Unknown		10/28/2024 12:43	Finished	SAMP,10 mL
22	CCV-1,CCV1,1,	22	1000	Unknown		10/28/2024 12:52	Finished	CCV @10ppb, IWST-240729A
23	CCB-1,CCB,1,	23	1000	Unknown		10/28/2024 13:02	Finished	CCB R240926A
24	N069444-001A,SAMP	24	1000	Unknown		10/28/2024 13:11	Finished	SAMP,10 mL
25	N069444-001AMS,MS	25	1000	Unknown		10/28/2024 13:20	Finished	MS (1ppb), IWST-240729B,10r
26	N069444-002A,SAMP	26	1000	Unknown		10/28/2024 13:30	Finished	SAMP,10 mL
27	N069444-002AMS,MS	27	1000	Unknown		10/28/2024 13:39	Finished	MS (1ppb), IWST-240729B,10r
28	N069444-003A,SAMP	28	1000	Unknown		10/28/2024 13:49	Finished	SAMP,10 mL
29	N069444-003AMS,MS	29	1000	Unknown		10/28/2024 13:58	Finished	MS (1ppb), IWST-240729B,10r
30	N069444-001A,SAMP	30	1000	Unknown		10/28/2024 14:08	Finished	SAMP,2>10 mL
31	N069444-001AMS,MS	31	1000	Unknown		10/28/2024 14:17	Finished	MS (1ppb), IWST-240729B,2>
32	N069444-002A,SAMP	32	1000	Unknown		10/28/2024 14:27	Finished	SAMP,2>10 mL
33	N069444-002AMS,MS	33	1000	Unknown		10/28/2024 14:36	Finished	MS (1ppb), IWST-240729B,2>
34	CCV-2,CCV,1,	34	1000	Unknown		10/28/2024 14:46	Finished	CCV @5ppb, IWST-240729A
35	CCB-2,CCB,1,	35	1000	Unknown		10/28/2024 14:55	Finished	CCB R240926A
36	N069444-003A,SAMP	36	1000	Unknown		10/28/2024 15:04	Finished	SAMP,2>10 mL
37	N069444-003AMS,MS	37	1000	Unknown		10/28/2024 15:14	Finished	MS (1ppb), IWST-240729B,2>
38	N069233-009A,SAMP	38	1000	Unknown		10/28/2024 15:23	Finished	SAMP,2>10 mL
39	N069233-009AMS,MS	39	1000	Unknown		10/28/2024 15:33	Finished	MS (1ppb), IWST-240729B,2>
40	N069233-015A,SAMP	40	1000	Unknown		10/28/2024 15:42	Finished	SAMP,2>10 mL
41	N069233-015AMS,MS	41	1000	Unknown		10/28/2024 15:52	Finished	MS (1ppb), IWST-240729B,2>
42	CCV-3,CCV1,1,	42	1000	Unknown		10/28/2024 16:01	Finished	CCV @10ppb, IWST-240729A
43	CCB-3,CCB,1,	43	1000	Unknown		10/28/2024 16:11	Finished	CCB R240926A
44	BLANK	44	1000	Unknown		10/28/2024 16:20	Finished	BLANK
45	SHUTDOWN	45	1000	Unknown		10/28/2024 16:30	Finished	
46	Eluent: R241025A	46	1000	Unknown		n.a.	Finished	
47	PCR: R241025B	47	1000	Unknown		n.a.	Finished	

INJECTION LOG: 241031A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	10/31/24 9:46 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	10/31/24 9:59 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/31/24 10:08 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	10/31/24 10:18 AM	Reported
13	MB-R195071	MBLK	1	Hexavalent Chromium	10/31/24 10:27 AM	Reported
14	LCS-R195071	LCS	1	Hexavalent Chromium	10/31/24 10:37 AM	Reported
15	N069543-018A	SAMP	1	Hexavalent Chromium	10/31/24 10:46 AM	Reported
16	N069543-018AMS	MS	1	Hexavalent Chromium	10/31/24 10:56 AM	Reported
17	N069543-019A	SAMP	1	Hexavalent Chromium	10/31/24 11:05 AM	Not Reported
18	N069543-019AMS	MS	1	Hexavalent Chromium	10/31/24 11:15 AM	Not Reported
19	N069543-020A	SAMP	1	Hexavalent Chromium	10/31/24 11:24 AM	Not Reported
20	N069543-020AMS	MS	1	Hexavalent Chromium	10/31/24 11:33 AM	Not Reported
21	N069543-021A	SAMP	1	Hexavalent Chromium	10/31/24 11:43 AM	Reported
22	N069543-021AMS	MS	1	Hexavalent Chromium	10/31/24 11:52 AM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	10/31/24 12:02 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	10/31/24 12:11 PM	Reported
25	N069583-003A	SAMP	1	Hexavalent Chromium	10/31/24 12:22 PM	Not Reported
26	N069583-003AMS	MS	1	Hexavalent Chromium	10/31/24 12:33 PM	Not Reported
27	N069583-003A	SAMP	5	Hexavalent Chromium	10/31/24 12:43 PM	Reported
28	N069583-003AMS	MS	5	Hexavalent Chromium	10/31/24 12:52 PM	Reported
29	N069583-003AMSD	MSD	5	Hexavalent Chromium	10/31/24 1:02 PM	Reported
30	N069582-002A	SAMP	50	Hexavalent Chromium	10/31/24 1:52 PM	Not Reported
31	N069582-003A	SAMP	5	Hexavalent Chromium	10/31/24 2:05 PM	Reported
32	N069582-004A	SAMP	50	Hexavalent Chromium	10/31/24 2:14 PM	Not Reported
33	N069583-002A	SAMP	1	Hexavalent Chromium	10/31/24 2:24 PM	Not Reported
34	N069583-002AMS	MS	1	Hexavalent Chromium	10/31/24 2:33 PM	Not Reported
35	CCV-3	CCV	1	Hexavalent Chromium	10/31/24 2:43 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	10/31/24 2:52 PM	Reported
37	N069583-006A	SAMP	1	Hexavalent Chromium	10/31/24 3:02 PM	Reported
38	N069583-006AMS	MS	1	Hexavalent Chromium	10/31/24 3:11 PM	Reported
39	N069585-001A	SAMP	5	Hexavalent Chromium	10/31/24 3:21 PM	Reported
40	N069585-001AMS	MS	5	Hexavalent Chromium	10/31/24 3:30 PM	Reported
41	N069585-001ADUP	DUP	5	Hexavalent Chromium	10/31/24 3:39 PM	Reported
42	N069582-002A	SAMP	5	Hexavalent Chromium	10/31/24 4:04 PM	Reported

INJECTION LOG: 241031A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069582-002AMS	MS	5	Hexavalent Chromium	10/31/24 4:16 PM	Reported
44	N069582-003AMS	MS	5	Hexavalent Chromium	10/31/24 4:26 PM	Reported
45	N069582-004AMS	MS	50	Hexavalent Chromium	10/31/24 4:35 PM	Not Reported
46	N069543-019A	SAMP	5	Hexavalent Chromium	10/31/24 4:44 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	10/31/24 4:54 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	10/31/24 5:03 PM	Reported
49	N069543-019AMS	MS	5	Hexavalent Chromium	10/31/24 5:13 PM	Reported
50	N069543-020A	SAMP	5	Hexavalent Chromium	10/31/24 5:22 PM	Reported
51	N069543-020AMS	MS	5	Hexavalent Chromium	10/31/24 5:32 PM	Reported
52	N069582-001A	SAMP	1	Hexavalent Chromium	10/31/24 5:41 PM	Reported
53	N069582-001AMS	MS	1	Hexavalent Chromium	10/31/24 5:51 PM	Reported
54	N069583-001A	SAMP	5	Hexavalent Chromium	10/31/24 6:00 PM	Reported
55	N069583-001AMS	MS	5	Hexavalent Chromium	10/31/24 6:10 PM	Reported
56	N069583-002A	SAMP	5	Hexavalent Chromium	10/31/24 6:19 PM	Reported
57	N069583-002AMS	MS	5	Hexavalent Chromium	10/31/24 6:28 PM	Reported
58	N069583-004A	SAMP	1	Hexavalent Chromium	10/31/24 6:38 PM	Not Reported
59	CCV-5	CCV	1	Hexavalent Chromium	10/31/24 6:47 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	10/31/24 6:57 PM	Reported
61	N069583-004AMS	MS	1	Hexavalent Chromium	10/31/24 7:06 PM	Not Reported
62	N069583-004A	SAMP	5	Hexavalent Chromium	10/31/24 7:16 PM	Reported
63	N069583-004AMS	MS	5	Hexavalent Chromium	10/31/24 7:25 PM	Reported
64	N069583-005A	SAMP	1	Hexavalent Chromium	10/31/24 7:35 PM	Reported
65	N069583-005AMS	MS	1	Hexavalent Chromium	10/31/24 7:44 PM	Reported
66	N069583-007A	SAMP	1	Hexavalent Chromium	10/31/24 7:54 PM	Reported
67	N069583-007AMS	MS	1	Hexavalent Chromium	10/31/24 8:03 PM	Reported
68	N069583-008A	SAMP	1	Hexavalent Chromium	10/31/24 8:12 PM	Not Reported
69	N069583-008AMS	MS	1	Hexavalent Chromium	10/31/24 8:22 PM	Not Reported
70	N069583-008A	SAMP	5	Hexavalent Chromium	10/31/24 8:31 PM	Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	10/31/24 8:41 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	10/31/24 8:50 PM	Reported
73	N069583-008AMS	MS	5	Hexavalent Chromium	10/31/24 9:00 PM	Reported
74	N069583-009A	SAMP	1	Hexavalent Chromium	10/31/24 9:09 PM	Not Reported
75	N069583-009AMS	MS	1	Hexavalent Chromium	10/31/24 9:19 PM	Not Reported
76	N069583-009A	SAMP	5	Hexavalent Chromium	10/31/24 9:28 PM	Reported
77	N069583-009AMS	MS	5	Hexavalent Chromium	10/31/24 9:38 PM	Reported
78	N069583-010A	SAMP	1	Hexavalent Chromium	10/31/24 9:47 PM	Not Reported
79	N069583-010AMS	MS	1	Hexavalent Chromium	10/31/24 9:56 PM	Not Reported
80	N069583-010A	SAMP	5	Hexavalent Chromium	10/31/24 10:06 PM	Reported
81	N069583-010AMS	MS	5	Hexavalent Chromium	10/31/24 10:15 PM	Reported
82	N069583-011A	SAMP	1	Hexavalent Chromium	10/31/24 10:25 PM	Reported
83	CCV-7	CCV	1	Hexavalent Chromium	10/31/24 10:34 PM	Reported
84	CCB-7	CCB	1	Hexavalent Chromium	10/31/24 10:44 PM	Reported

INJECTION LOG: 241031A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N069583-011AMS	MS	1	Hexavalent Chromium	10/31/24 10:53 PM	Reported
86	CCV-8	CCV1	1	Hexavalent Chromium	10/31/24 11:03 PM	Reported
87	CCB-8	CCB	1	Hexavalent Chromium	10/31/24 11:12 PM	Reported
88	BLANK	BLANK	1	Hexavalent Chromium	10/31/24 11:22 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241031A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	31/Oct/24 23:52:19
No. of Injections:	91	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	BLANK	1	1000	Unknown		10/31/2024 09:46	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		10/31/2024 09:59	Finished	CCV @5ppb, IWST-240729A
11	PQL @0.2ppb,CCV2,	3	1000	Unknown		10/31/2024 10:08	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		10/31/2024 10:18	Finished	CCB R241001A
13	MB-H2O,MBLK,1,	5	1000	Unknown		10/31/2024 10:27	Finished	MB R241001A
14	LCS-H2O,LCS,1,	6	1000	Unknown		10/31/2024 10:37	Finished	LCS @5ppb, IWST-240729B
15	N069543-018A,SAMP	7	1000	Unknown		10/31/2024 10:46	Finished	SAMP,10 mL
16	N069543-018AMS,M\$	8	1000	Unknown		10/31/2024 10:56	Finished	MS (1ppb), IWST-240729B,10r
17	N069543-019A,SAMP	9	1000	Unknown		10/31/2024 11:05	Finished	SAMP,10 mL
18	N069543-019AMS,M\$	10	1000	Unknown		10/31/2024 11:15	Finished	MS (1ppb), IWST-240729B,10r
19	N069543-020A,SAMP	11	1000	Unknown		10/31/2024 11:24	Finished	SAMP,10 mL
20	N069543-020AMS,M\$	12	1000	Unknown		10/31/2024 11:33	Finished	MS (1ppb), IWST-240729B,10r
21	N069543-021A,SAMP	13	1000	Unknown		10/31/2024 11:43	Finished	SAMP,10 mL
22	N069543-021AMS,M\$	14	1000	Unknown		10/31/2024 11:52	Finished	MS (1ppb), IWST-240729B,10r
23	CCV-2,CCV1,1,	15	1000	Unknown		10/31/2024 12:02	Finished	CCV @10ppb, IWST-240729A
24	CCB-2,CCB,1,	16	1000	Unknown		10/31/2024 12:11	Finished	CCB R241001A
25	N069583-003A,SAMP	1	1000	Unknown		10/31/2024 12:22	Finished	SAMP,10 mL
26	N069583-003AMS,M\$	2	1000	Unknown		10/31/2024 12:33	Finished	MS (1ppb), IWST-240729B,10r
27	N069583-003A,SAMP	3	1000	Unknown		10/31/2024 12:43	Finished	SAMP,2>10 mL
28	N069583-003AMS,M\$	4	1000	Unknown		10/31/2024 12:52	Finished	MS (1ppb), IWST-240729B,2>
29	N069583-003AMSD,M	5	1000	Unknown		10/31/2024 13:02	Finished	MSD (1ppb), IWST-240729B,2>
30	N069582-002A,SAMP	1	1000	Unknown		10/31/2024 13:52	Finished	SAMP,0.2>10 mL
31	N069582-003A,SAMP	2	1000	Unknown		10/31/2024 14:05	Finished	SAMP,2>10 mL
32	N069582-004A,SAMP	3	1000	Unknown		10/31/2024 14:14	Finished	SAMP,0.2>10 mL
33	N069583-002A,SAMP	4	1000	Unknown		10/31/2024 14:24	Finished	SAMP,10 mL
34	N069583-002AMS,M\$	5	1000	Unknown		10/31/2024 14:33	Finished	MS (1ppb), IWST-240729B,10r
35	CCV-3,CCV,1,	6	1000	Unknown		10/31/2024 14:43	Finished	CCV @5ppb, IWST-240729A
36	CCB-3,CCB,1,	7	1000	Unknown		10/31/2024 14:52	Finished	CCB R241001A
37	N069583-006A,SAMP	8	1000	Unknown		10/31/2024 15:02	Finished	SAMP,10 mL
38	N069583-006AMS,M\$	9	1000	Unknown		10/31/2024 15:11	Finished	MS (1ppb), IWST-240729B,10r
39	N069585-001A,SAMP	10	1000	Unknown		10/31/2024 15:21	Finished	SAMP,2>10 mL
40	N069585-001AMS,M\$	11	1000	Unknown		10/31/2024 15:30	Finished	MS (5ppb), IWST-240729B,2>
41	N069585-001ADUP,D	12	1000	Unknown		10/31/2024 15:39	Finished	DUP,2>10 mL
42	N069582-002A,SAMP	1	1000	Unknown		10/31/2024 16:04	Finished	SAMP,2>10 mL
43	N069582-002AMS,M\$	2	1000	Unknown		10/31/2024 16:16	Finished	MS (5ppb), IWST-240729B,2>
44	N069582-003AMS,M\$	3	1000	Unknown		10/31/2024 16:26	Finished	MS (5ppb), IWST-240729B,2>
45	N069582-004AMS,M\$	4	1000	Unknown		10/31/2024 16:35	Finished	MS (5ppb), IWST-240729B,0.2
46	N069543-019A,SAMP	5	1000	Unknown		10/31/2024 16:44	Finished	SAMP,2>10 mL
47	CCV-4,CCV1,1,	6	1000	Unknown		10/31/2024 16:54	Finished	CCV @10ppb, IWST-240729A
48	CCB-4,CCB,1,	7	1000	Unknown		10/31/2024 17:03	Finished	CCB R241001A
49	N069543-019AMS,M\$	8	1000	Unknown		10/31/2024 17:13	Finished	MS (1ppb), IWST-240729B,2>
50	N069543-020A,SAMP	9	1000	Unknown		10/31/2024 17:22	Finished	SAMP,2>10 mL
51	N069543-020AMS,M\$	10	1000	Unknown		10/31/2024 17:32	Finished	MS (1ppb), IWST-240729B,2>
52	N069582-001A,SAMP	11	1000	Unknown		10/31/2024 17:41	Finished	SAMP,10 mL
53	N069582-001AMS,M\$	12	1000	Unknown		10/31/2024 17:51	Finished	MS (1ppb), IWST-240729B,10r
54	N069583-001A,SAMP	13	1000	Unknown		10/31/2024 18:00	Finished	SAMP,2>10 mL
55	N069583-001AMS,M\$	14	1000	Unknown		10/31/2024 18:10	Finished	MS (1ppb), IWST-240729B,2>
56	N069583-002A,SAMP	15	1000	Unknown		10/31/2024 18:19	Finished	SAMP,2>10 mL
57	N069583-002AMS,M\$	16	1000	Unknown		10/31/2024 18:28	Finished	MS (1ppb), IWST-240729B,2>
58	N069583-004A,SAMP	17	1000	Unknown		10/31/2024 18:38	Finished	SAMP,10 mL
59	CCV-5,CCV,1,	18	1000	Unknown		10/31/2024 18:47	Finished	CCV @5ppb, IWST-240729A
60	CCB-5,CCB,1,	19	1000	Unknown		10/31/2024 18:57	Finished	CCB R241001A

61	N069583-004AMS.M\$	20	1000	Unknown	10/31/2024 19:06	Finished	MS (1ppb), IWST-240729B,10r
62	N069583-004A,SAMF	21	1000	Unknown	10/31/2024 19:16	Finished	SAMP,2>10 mL
63	N069583-004AMS.M\$	22	1000	Unknown	10/31/2024 19:25	Finished	MS (1ppb), IWST-240729B,2>
64	N069583-005A,SAMF	23	1000	Unknown	10/31/2024 19:35	Finished	SAMP,10 mL
65	N069583-005AMS.M\$	24	1000	Unknown	10/31/2024 19:44	Finished	MS (1ppb), IWST-240729B,10r
66	N069583-007A,SAMF	25	1000	Unknown	10/31/2024 19:54	Finished	SAMP,10 mL
67	N069583-007AMS.M\$	26	1000	Unknown	10/31/2024 20:03	Finished	MS (1ppb), IWST-240729B,10r
68	N069583-008A,SAMF	27	1000	Unknown	10/31/2024 20:12	Finished	SAMP,10 mL
69	N069583-008AMS.M\$	28	1000	Unknown	10/31/2024 20:22	Finished	MS (1ppb), IWST-240729B,10r
70	N069583-008A,SAMF	29	1000	Unknown	10/31/2024 20:31	Finished	SAMP,2>10 mL
71	CCV-6,CCV1,1,	30	1000	Unknown	10/31/2024 20:41	Finished	CCV @10ppb, IWST-240729A
72	CCB-6,CCB,1,	31	1000	Unknown	10/31/2024 20:50	Finished	CCB R241001A
73	N069583-008AMS.M\$	32	1000	Unknown	10/31/2024 21:00	Finished	MS (1ppb), IWST-240729B,2>
74	N069583-009A,SAMF	33	1000	Unknown	10/31/2024 21:09	Finished	SAMP,10 mL
75	N069583-009AMS.M\$	34	1000	Unknown	10/31/2024 21:19	Finished	MS (1ppb), IWST-240729B,10r
76	N069583-009A,SAMF	35	1000	Unknown	10/31/2024 21:28	Finished	SAMP,2>10 mL
77	N069583-009AMS.M\$	36	1000	Unknown	10/31/2024 21:38	Finished	MS (1ppb), IWST-240729B,2>
78	N069583-010A,SAMF	37	1000	Unknown	10/31/2024 21:47	Finished	SAMP,10 mL
79	N069583-010AMS.M\$	38	1000	Unknown	10/31/2024 21:56	Finished	MS (1ppb), IWST-240729B,10r
80	N069583-010A,SAMF	39	1000	Unknown	10/31/2024 22:06	Finished	SAMP,2>10 mL
81	N069583-010AMS.M\$	40	1000	Unknown	10/31/2024 22:15	Finished	MS (1ppb), IWST-240729B,2>
82	N069583-011A,SAMF	41	1000	Unknown	10/31/2024 22:25	Finished	SAMP,10 mL
83	CCV-7,CCV,1,	42	1000	Unknown	10/31/2024 22:34	Finished	CCV @5ppb, IWST-240729A
84	CCB-7,CCB,1,	43	1000	Unknown	10/31/2024 22:44	Finished	CCB R241001A
85	N069583-011AMS.M\$	44	1000	Unknown	10/31/2024 22:53	Finished	MS (1ppb), IWST-240729B,10r
86	CCV-8,CCV1,1,	45	1000	Unknown	10/31/2024 23:03	Finished	CCV @10ppb, IWST-240729A
87	CCB-8,CCB,1,	46	1000	Unknown	10/31/2024 23:12	Finished	CCB R241001A
88	BLANK	47	1000	Unknown	10/31/2024 23:22	Finished	BLANK
89	SHUTDOWN	48	1000	Unknown	10/31/2024 23:31	Finished	
90	Eluent: R241029A	49	1000	Unknown	n.a.	Finished	
91	PCR: R241029B	50	1000	Unknown	n.a.	Finished	

INJECTION LOG: 241101A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	11/01/24 9:57 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	11/01/24 10:11 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	11/01/24 10:20 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	11/01/24 10:30 AM	Reported
13	MB-R195173	MBLK	1	Hexavalent Chromium	11/01/24 10:39 AM	Reported
14	LCS-R195173	LCS	1	Hexavalent Chromium	11/01/24 10:49 AM	Reported
15	N069582-004A	SAMP	50	Hexavalent Chromium	11/01/24 11:05 AM	Reported
16	N069582-004ADUP	DUP	50	Hexavalent Chromium	11/01/24 11:17 AM	Reported
17	N069582-004AMS	MS	50	Hexavalent Chromium	11/01/24 11:26 AM	Reported
18	N069582-005A	SAMP	50	Hexavalent Chromium	11/01/24 11:35 AM	Not Reported
19	N069582-006A	SAMP	50	Hexavalent Chromium	11/01/24 11:45 AM	Reported
20	N069629-001A	SAMP	5	Hexavalent Chromium	11/01/24 11:54 AM	Not Reported
21	N069629-001AMS	MS	5	Hexavalent Chromium	11/01/24 12:04 PM	Not Reported
22	N069629-001AMSD	MSD	5	Hexavalent Chromium	11/01/24 12:13 PM	Not Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	11/01/24 12:23 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	11/01/24 12:32 PM	Reported
25	N069629-002A	SAMP	5	Hexavalent Chromium	11/01/24 12:42 PM	Not Reported
26	N069629-002AMS	MS	5	Hexavalent Chromium	11/01/24 12:51 PM	Not Reported
27	N069629-003A	SAMP	1	Hexavalent Chromium	11/01/24 1:01 PM	Reported
28	N069629-003AMS	MS	1	Hexavalent Chromium	11/01/24 1:10 PM	Reported
29	N069582-006AMS	MS	50	Hexavalent Chromium	11/01/24 1:19 PM	Reported
30	N069582-006AMSD	MSD	50	Hexavalent Chromium	11/01/24 1:29 PM	Reported
31	N069582-005A	SAMP	100	Hexavalent Chromium	11/01/24 1:38 PM	Reported
32	N069582-005AMS	MS	100	Hexavalent Chromium	11/01/24 1:48 PM	Reported
33	N069629-001A	SAMP	1	Hexavalent Chromium	11/01/24 1:57 PM	Reported
34	N069629-001AMS	MS	1	Hexavalent Chromium	11/01/24 2:07 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	11/01/24 2:16 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	11/01/24 2:26 PM	Reported
37	N069629-002A	SAMP	1	Hexavalent Chromium	11/01/24 2:35 PM	Reported
38	N069629-002AMS	MS	1	Hexavalent Chromium	11/01/24 2:45 PM	Reported
39	N069629-001AMS	MS	5	Hexavalent Chromium	11/01/24 2:54 PM	Not Reported
40	N069629-002AMS	MS	5	Hexavalent Chromium	11/01/24 3:03 PM	Not Reported
41	N069631-008A	SAMP	1	Hexavalent Chromium	11/01/24 3:13 PM	Not Reported
42	N069631-008AMS	MS	1	Hexavalent Chromium	11/01/24 3:22 PM	Not Reported

INJECTION LOG: 241101A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069631-008A	SAMP	5	Hexavalent Chromium	11/01/24 3:32 PM	Reported
44	N069631-008AMS	MS	5	Hexavalent Chromium	11/01/24 3:41 PM	Reported
45	N069631-009A	SAMP	1	Hexavalent Chromium	11/01/24 3:51 PM	Not Reported
46	N069631-009AMS	MS	1	Hexavalent Chromium	11/01/24 4:00 PM	Not Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	11/01/24 4:19 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	11/01/24 4:31 PM	Reported
49	N069631-009A	SAMP	5	Hexavalent Chromium	11/01/24 4:40 PM	Reported
50	N069631-009AMS	MS	5	Hexavalent Chromium	11/01/24 4:50 PM	Reported
51	N069631-010A	SAMP	1	Hexavalent Chromium	11/01/24 4:59 PM	Not Reported
52	N069631-010AMS	MS	1	Hexavalent Chromium	11/01/24 5:08 PM	Not Reported
53	N069631-010A	SAMP	5	Hexavalent Chromium	11/01/24 5:18 PM	Reported
54	N069631-010AMS	MS	5	Hexavalent Chromium	11/01/24 5:27 PM	Reported
55	N069631-011A	SAMP	1	Hexavalent Chromium	11/01/24 5:37 PM	Not Reported
56	N069631-011AMS	MS	1	Hexavalent Chromium	11/01/24 5:46 PM	Not Reported
57	N069631-011A	SAMP	5	Hexavalent Chromium	11/01/24 5:56 PM	Reported
58	N069631-011AMS	MS	5	Hexavalent Chromium	11/01/24 6:05 PM	Reported
59	CCV-5	CCV	1	Hexavalent Chromium	11/01/24 6:15 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	11/01/24 6:24 PM	Reported
61	N069631-012A	SAMP	1	Hexavalent Chromium	11/01/24 6:34 PM	Not Reported
62	N069631-012AMS	MS	1	Hexavalent Chromium	11/01/24 6:43 PM	Not Reported
63	N069631-012A	SAMP	5	Hexavalent Chromium	11/01/24 6:52 PM	Reported
64	N069631-012AMS	MS	5	Hexavalent Chromium	11/01/24 7:02 PM	Reported
65	N069631-013A	SAMP	1	Hexavalent Chromium	11/01/24 7:11 PM	Not Reported
66	N069631-013AMS	MS	1	Hexavalent Chromium	11/01/24 7:21 PM	Not Reported
67	N069631-013A	SAMP	5	Hexavalent Chromium	11/01/24 7:30 PM	Reported
68	N069631-013AMS	MS	5	Hexavalent Chromium	11/01/24 7:40 PM	Reported
69	N069631-014A	SAMP	1	Hexavalent Chromium	11/01/24 7:49 PM	Not Reported
70	N069631-014AMS	MS	1	Hexavalent Chromium	11/01/24 7:59 PM	Not Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	11/01/24 8:08 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	11/01/24 8:18 PM	Reported
73	N069631-014A	SAMP	5	Hexavalent Chromium	11/01/24 8:27 PM	Reported
74	N069631-014AMS	MS	5	Hexavalent Chromium	11/01/24 8:36 PM	Reported
75	N069631-001A	SAMP	1	Hexavalent Chromium	11/01/24 8:46 PM	Reported
76	N069631-001AMS	MS	1	Hexavalent Chromium	11/01/24 8:55 PM	Reported
77	N069631-002A	SAMP	1	Hexavalent Chromium	11/01/24 9:05 PM	Reported
78	N069631-002AMS	MS	1	Hexavalent Chromium	11/01/24 9:14 PM	Reported
79	N069631-003A	SAMP	1	Hexavalent Chromium	11/01/24 9:24 PM	Reported
80	N069631-003AMS	MS	1	Hexavalent Chromium	11/01/24 9:33 PM	Reported
81	N069631-004A	SAMP	1	Hexavalent Chromium	11/01/24 9:43 PM	Reported
82	N069631-004AMS	MS	1	Hexavalent Chromium	11/01/24 9:52 PM	Reported
83	CCV-7	CCV	1	Hexavalent Chromium	11/01/24 10:02 PM	Reported
84	CCB-7	CCB	1	Hexavalent Chromium	11/01/24 10:11 PM	Reported

INJECTION LOG: 241101A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N069631-005A	SAMP	1	Hexavalent Chromium	11/01/24 10:20 PM	Reported
86	N069631-005AMS	MS	1	Hexavalent Chromium	11/01/24 10:30 PM	Reported
87	N069631-006A	SAMP	1	Hexavalent Chromium	11/01/24 10:39 PM	Reported
88	N069631-006AMS	MS	1	Hexavalent Chromium	11/01/24 10:49 PM	Reported
89	N069631-007A	SAMP	1	Hexavalent Chromium	11/01/24 10:58 PM	Reported
90	N069631-007AMS	MS	1	Hexavalent Chromium	11/01/24 11:08 PM	Reported
91	CCV-8	CCV1	1	Hexavalent Chromium	11/01/24 11:17 PM	Reported
92	CCB-8	CCB	1	Hexavalent Chromium	11/01/24 11:27 PM	Reported
93	BLANK	BLANK	1	Hexavalent Chromium	11/01/24 11:36 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241101A	Created On:	24Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	02/Nov/24 00:06:57
No. of Injections:	96	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	BLANK	1	1000	Unknown		11/01/2024 09:57	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		11/01/2024 10:11	Finished	CCV @5ppb, IWST-240729A
11	PQL@0.2ppb,CCV2,	3	1000	Unknown		11/01/2024 10:20	Finished	PQL @ 0.2ppb
12	CCB-1.CCB,1,	4	1000	Unknown		11/01/2024 10:30	Finished	CCB R241001A
13	MB-H2O,MBLK,1,	5	1000	Unknown		11/01/2024 10:39	Finished	MB R241001A
14	LCS-H2O,LCS,1,	6	1000	Unknown		11/01/2024 10:49	Finished	LCS @5ppb, IWST-240729B
15	N069582-004A,SAMP	1	1000	Unknown		11/01/2024 11:05	Finished	SAMP,0.2>10 mL
16	N069582-004ADUP,D	2	1000	Unknown		11/01/2024 11:17	Finished	DUP,0.2>10 mL
17	N069582-004AMS,MS	3	1000	Unknown		11/01/2024 11:26	Finished	MS (5ppb), IWST-240729B,0.2
18	N069582-005A,SAMP	4	1000	Unknown		11/01/2024 11:35	Finished	SAMP,0.2>10 mL
19	N069582-006A,SAMP	5	1000	Unknown		11/01/2024 11:45	Finished	SAMP,0.2>10 mL
20	N069629-001A,SAMP	6	1000	Unknown		11/01/2024 11:54	Finished	SAMP,2>10 mL
21	N069629-001AMS,MS	7	1000	Unknown		11/01/2024 12:04	Finished	MS (5ppb), IWST-240729B,2>1
22	N069629-001AMSD,N	8	1000	Unknown		11/01/2024 12:13	Finished	MSD (5ppb), IWST-240729B,2>1
23	CCV-2,CCV1,1,	9	1000	Unknown		11/01/2024 12:23	Finished	CCV @10ppb, IWST-240729A
24	CCB-2,CCB,1,	10	1000	Unknown		11/01/2024 12:32	Finished	CCB R241001A
25	N069629-002A,SAMP	11	1000	Unknown		11/01/2024 12:42	Finished	SAMP,2>10 mL
26	N069629-002AMS,MS	12	1000	Unknown		11/01/2024 12:51	Finished	MS (5ppb), IWST-240729B,2>1
27	N069629-003A,SAMP	13	1000	Unknown		11/01/2024 13:01	Finished	SAMP,10 mL
28	N069629-003AMS,MS	14	1000	Unknown		11/01/2024 13:10	Finished	MS (1ppb), IWST-240729B,10r
29	N069582-006AMS,MS	15	1000	Unknown		11/01/2024 13:19	Finished	MS (5ppb), IWST-240729B,0.2
30	N069582-006AMSD,N	16	1000	Unknown		11/01/2024 13:29	Finished	MSD (5ppb), IWST-240729B,0.2
31	N069582-005A,SAMP	17	1000	Unknown		11/01/2024 13:38	Finished	SAMP,0.1>10 mL
32	N069582-005AMS,MS	18	1000	Unknown		11/01/2024 13:48	Finished	MS (5ppb), IWST-240729B,0.1
33	N069629-001A,SAMP	19	1000	Unknown		11/01/2024 13:57	Finished	SAMP,10 mL
34	N069629-001AMS,MS	20	1000	Unknown		11/01/2024 14:07	Finished	MS (1ppb), IWST-240729B,10r
35	CCV-3,CCV,1,	21	1000	Unknown		11/01/2024 14:16	Finished	CCV @5ppb, IWST-240729A
36	CCB-3,CCB,1,	22	1000	Unknown		11/01/2024 14:26	Finished	CCB R241001A
37	N069629-002A,SAMP	23	1000	Unknown		11/01/2024 14:35	Finished	SAMP,10 mL
38	N069629-002AMS,MS	24	1000	Unknown		11/01/2024 14:45	Finished	MS (1ppb), IWST-240729B,10r
39	N069629-001AMS,MS	25	1000	Unknown		11/01/2024 14:54	Finished	MS (1ppb), IWST-240729B,2>1
40	N069629-002AMS,MS	26	1000	Unknown		11/01/2024 15:03	Finished	MS (1ppb), IWST-240729B,2>1
41	N069631-008A,SAMP	27	1000	Unknown		11/01/2024 15:13	Finished	SAMP,10 mL
42	N069631-008AMS,MS	28	1000	Unknown		11/01/2024 15:22	Finished	MS (1ppb), IWST-240729B,10r
43	N069631-008A,SAMP	29	1000	Unknown		11/01/2024 15:32	Finished	SAMP,2>10 mL
44	N069631-008AMS,MS	30	1000	Unknown		11/01/2024 15:41	Finished	MS (1ppb), IWST-240729B,2>1
45	N069631-009A,SAMP	31	1000	Unknown		11/01/2024 15:51	Finished	SAMP,10 mL
46	N069631-009AMS,MS	32	1000	Unknown		11/01/2024 16:00	Finished	MS (1ppb), IWST-240729B,10r
47	CCV-4,CCV1,1,	1	1000	Unknown		11/01/2024 16:19	Finished	CCV @10ppb, IWST-240729A
48	CCB-4,CCB,1,	2	1000	Unknown		11/01/2024 16:31	Finished	CCB R241001A
49	N069631-009A,SAMP	3	1000	Unknown		11/01/2024 16:40	Finished	SAMP,2>10 mL
50	N069631-009AMS,MS	4	1000	Unknown		11/01/2024 16:50	Finished	MS (1ppb), IWST-240729B,2>1
51	N069631-010A,SAMP	5	1000	Unknown		11/01/2024 16:59	Finished	SAMP,10 mL
52	N069631-010AMS,MS	6	1000	Unknown		11/01/2024 17:08	Finished	MS (1ppb), IWST-240729B,10r
53	N069631-010A,SAMP	7	1000	Unknown		11/01/2024 17:18	Finished	SAMP,2>10 mL
54	N069631-010AMS,MS	8	1000	Unknown		11/01/2024 17:27	Finished	MS (1ppb), IWST-240729B,2>1
55	N069631-011A,SAMP	9	1000	Unknown		11/01/2024 17:37	Finished	SAMP,10 mL
56	N069631-011AMS,MS	10	1000	Unknown		11/01/2024 17:46	Finished	MS (1ppb), IWST-240729B,10r
57	N069631-011A,SAMP	11	1000	Unknown		11/01/2024 17:56	Finished	SAMP,2>10 mL
58	N069631-011AMS,MS	12	1000	Unknown		11/01/2024 18:05	Finished	MS (1ppb), IWST-240729B,2>1
59	CCV-5,CCV,1,	13	1000	Unknown		11/01/2024 18:15	Finished	CCV @5ppb, IWST-240729A
60	CCB-5,CCB,1,	14	1000	Unknown		11/01/2024 18:24	Finished	CCB R241001A

61	N069631-012A,SAMF	15	1000	Unknown		11/01/2024 18:34	Finished	SAMP,10 mL
62	N069631-012AMS,MS	16	1000	Unknown		11/01/2024 18:43	Finished	MS (1ppb), IWST-240729B,10r
63	N069631-012A,SAMF	17	1000	Unknown		11/01/2024 18:52	Finished	SAMP,2>10 mL
64	N069631-012AMS,MS	18	1000	Unknown		11/01/2024 19:02	Finished	MS (1ppb), IWST-240729B,2>1
65	N069631-013A,SAMF	19	1000	Unknown		11/01/2024 19:11	Finished	SAMP,10 mL
66	N069631-013AMS,MS	20	1000	Unknown		11/01/2024 19:21	Finished	MS (1ppb), IWST-240729B,10r
67	N069631-013A,SAMF	21	1000	Unknown		11/01/2024 19:30	Finished	SAMP,2>10 mL
68	N069631-013AMS,MS	22	1000	Unknown		11/01/2024 19:40	Finished	MS (1ppb), IWST-240729B,2>1
69	N069631-014A,SAMF	23	1000	Unknown		11/01/2024 19:49	Finished	MS (1ppb), IWST-240729B,2>1
70	N069631-014AMS,MS	24	1000	Unknown		11/01/2024 19:59	Finished	SAMP,10 mL
71	CCV-6,CCV1,1,	25	1000	Unknown		11/01/2024 20:08	Finished	CCV @10ppb, IWST-240729A
72	CCB-6,CCB,1,	26	1000	Unknown		11/01/2024 20:18	Finished	CCB R241001A
73	N069631-014A,SAMF	27	1000	Unknown		11/01/2024 20:27	Finished	SAMP,2>10 mL
74	N069631-014AMS,MS	28	1000	Unknown		11/01/2024 20:36	Finished	MS (1ppb), IWST-240729B,2>1
75	N069631-001A,SAMF	29	1000	Unknown		11/01/2024 20:46	Finished	SAMP,10 mL
76	N069631-001AMS,MS	30	1000	Unknown		11/01/2024 20:55	Finished	MS (1ppb), IWST-240729B,10r
77	N069631-002A,SAMF	31	1000	Unknown		11/01/2024 21:05	Finished	SAMP,10 mL
78	N069631-002AMS,MS	32	1000	Unknown		11/01/2024 21:14	Finished	MS (1ppb), IWST-240729B,10r
79	N069631-003A,SAMF	33	1000	Unknown		11/01/2024 21:24	Finished	SAMP,10 mL
80	N069631-003AMS,MS	34	1000	Unknown		11/01/2024 21:33	Finished	MS (1ppb), IWST-240729B,10r
81	N069631-004A,SAMF	35	1000	Unknown		11/01/2024 21:43	Finished	SAMP,10 mL
82	N069631-004AMS,MS	36	1000	Unknown		11/01/2024 21:52	Finished	MS (1ppb), IWST-240729B,10r
83	CCV-7,CCV,1,	37	1000	Unknown		11/01/2024 22:02	Finished	CCV @5ppb, IWST-240729A
84	CCB-7,CCB,1,	38	1000	Unknown		11/01/2024 22:11	Finished	CCB R241001A
85	N069631-005A,SAMF	39	1000	Unknown		11/01/2024 22:20	Finished	SAMP,10 mL
86	N069631-005AMS,MS	40	1000	Unknown		11/01/2024 22:30	Finished	MS (1ppb), IWST-240729B,10r
87	N069631-006A,SAMF	41	1000	Unknown		11/01/2024 22:39	Finished	SAMP,10 mL
88	N069631-006AMS,MS	42	1000	Unknown		11/01/2024 22:49	Finished	MS (1ppb), IWST-240729B,10r
89	N069631-007A,SAMF	43	1000	Unknown		11/01/2024 22:58	Finished	SAMP,10 mL
90	N069631-007AMS,MS	44	1000	Unknown		11/01/2024 23:08	Finished	MS (1ppb), IWST-240729B,10r
91	CCV-8,CCV1,1,	45	1000	Unknown		11/01/2024 23:17	Finished	CCV @10ppb, IWST-240729A
92	CCB-8,CCB,1,	46	1000	Unknown		11/01/2024 23:27	Finished	CCB R241001A
93	BLANK	47	1000	Unknown		11/01/2024 23:36	Finished	BLANK
94	SHUTDOWN	48	1000	Unknown		11/01/2024 23:46	Finished	
95	Eluent: R241029A	49	1000	Unknown		n.a.	Finished	
96	PCR: R241029B	50	1000	Unknown		n.a.	Finished	



SAMPLE PREPARATION LOG



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

Hexavalent Chromium Preparation and Runlog

Sample Preparation

Date Prepared: 10/31/24
 Time Prepared: 6:56H
 Prepared By: NA

Reagent ID:
 Sulfuric Acid: 16020 pH meter ID: 01
 Diphenylcarbazide: 16810
 NH4OH + NH4SO4 eluent: R241029A
 NH4OH + NH4SO4 buffer: R241001A
Low NAOA:
R241001A

	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	N069582-1A	9.67	-	~250ml	~250ml		
2)	2A	9.33	-				
3)	3A	9.76	-				
4)	4A	9.45	-				
5)	5A	9.48	-				
6)	6A	9.44	-				
7)	N069583-1A	9.72	-				
8)	2A	9.46	-				
9)	3A	9.05	9.44			+4	
10)	4A	9.16	9.38			+3	
11)	5A	9.68	-				
12)	6A	9.71	-				
13)	7A	9.70	-				
14)	8A	9.14	9.49			+4	
15)	9A	9.38	-				
	10A	9.72	-				

Sample Preparation

Date Prepared: 10/31/24
 Time Prepared: 09:56H
 Prepared By: NA

Reagent ID:
 Sulfuric Acid: 16020 pH meter ID: 01
 Diphenylcarbazide: 16810
 NH4OH + NH4SO4 eluent: R241029A
 NH4OH + NH4SO4 buffer: R241001A

	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	N069587-11A	9.71	-	~200ml	~200ml		
2)	N069585-1A	9.40	-				
3)							
4)							
5)							
6)							
7)							
8)							
9)							
10)							
11)							
12)							
13)							
14)							
15)							

Logbook No. 26



ASSET LABORATORIES

ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

"Serving Clients with Passion and Professionalism"

INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
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"Serving Clients with Passion and Professionalism"

(EPA 218.6) - INITIAL CALIBRATION

Instrument ID: NV00922-IC7
Date Calibrated: 10/28/2024

Initial Calibration:

Hexavalent Chromium	STD1	STD2	STD3	STD4	STD5	STD6	
COMPOUND, in ug/L	0.2	1	5	10	15	20	R ²
Area,mAU*min	0.0527	0.2779	1.4196	2.8235	4.2553	5.6829	1.0000
Measured, in ug/L	0.185700	0.979400	5.002800	9.950700	14.996600	20.027700	
Relative Error (%RE)	-7.2%		0.1%				

	Stock	Working
Standard Concentration:	1,000,000 PPB	1,000 PPB
Standard ID:	ISST-240705H	IWST-240729A

Calibration Acceptance Criteria: > 0.999 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
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CALIFORNIA
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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: ICV	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6279536							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.730	0.20	5.000	0	94.6	90	110				

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6279537							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.211	0.20	0.2000	0	106	80	120				

Sample ID CCV-1	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: CCV	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279539							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.948	0.20	5.000	0	99.0	95	105				

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279540							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.193	0.20	0.2000	0	96.5	80	120				

Sample ID CCV-2	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279548							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.882	0.20	10.00	0	98.8	95	105				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCV-3	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: CCV	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279554	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	4.909	0.20	5.000	0	98.2	95	105
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Sample ID CCV-4	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279565	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	9.967	0.20	10.00	0	99.7	95	105
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Sample ID CCV-5	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: CCV	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279576	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	4.851	0.20	5.000	0	97.0	95	105
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Sample ID CCV-6	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279585	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	9.809	0.20	10.00	0	98.1	95	105
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Sample ID CCV-7	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: CCV	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279593	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	4.943	0.20	5.000	0	98.9	95	105
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCV-8	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279596						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.891	0.20	10.00	0	98.9	95	105				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173
Client ID: ICV	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6285580	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	4.730	0.20	5.000	0	94.6 90 110

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173
Client ID: ZZZZZ	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6285581	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	0.211	0.20	0.2000	0	106 80 120

Sample ID CCV-1	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173
Client ID: CCV	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285583	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	4.858	0.20	5.000	0	97.2 95 105

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173
Client ID: ZZZZZ	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285584	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	0.212	0.20	0.2000	0	106 80 120

Sample ID CCV-2	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173
Client ID: ZZZZZ	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285592	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	9.740	0.20	10.00	0	97.4 95 105

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCV-3	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173						
Client ID: CCV	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285602							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.072	0.20	5.000	0	101	95	105				

Sample ID CCV-4	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173						
Client ID: ZZZZZ	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285608							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.716	0.20	10.00	0	97.2	95	105				

Sample ID CCV-5	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173						
Client ID: CCV	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285616							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.000	0.20	5.000	0	100	95	105				

Sample ID CCV-6	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173						
Client ID: ZZZZZ	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285622							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.874	0.20	10.00	0	98.7	95	105				

Sample ID CCV-7	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173						
Client ID: CCV	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285634							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.892	0.20	5.000	0	97.8	95	105				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCV-8	SampType: CCV1	TestCode: 218.6_WPGE Units: µg/L			Prep Date:			RunNo: 195173			
Client ID: ZZZZZZ	Batch ID: R195173	TestNo: EPA 218.6			Analysis Date: 11/1/2024			SeqNo: 6285642			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.868	0.20	10.00	0	98.7	95	105				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: ICB	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6279538	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	ND	0.20			
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Sample ID CCB-1	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: CCB	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279541	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	ND	0.20			
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Sample ID CCB-2	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: CCB	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279549	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	ND	0.20			
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Sample ID CCB-3	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: CCB	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279555	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	ND	0.20			
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Sample ID CCB-4	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: CCB	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279566	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	ND	0.20			
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCB-5	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: CCB	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279577						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

ND

0.20

Sample ID CCB-6	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: CCB	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279586						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

ND

0.20

Sample ID CCB-7	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: CCB	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279594						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

ND

0.20

Sample ID CCB-8	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: CCB	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279597						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

ND

0.20

Qualifiers:

B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out

E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values

H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173
Client ID: ICB	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6285582	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-1	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173
Client ID: CCB	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285585	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-2	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173
Client ID: CCB	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285593	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-3	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173
Client ID: CCB	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285603	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-4	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173
Client ID: CCB	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285609	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCB-5	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173
Client ID: CCB	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285617	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-6	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173
Client ID: CCB	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285623	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-7	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173
Client ID: CCB	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285635	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-8	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173
Client ID: CCB	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285643	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

RETENTION TIME SUMMARY



ASSET LABORATORIES
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RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/31/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.723	
CCV-2	5.723	
CCV-3	5.723	
CCV-4	5.715	
CCV-5	5.715	
CCV-6	5.715	
CCV-7	5.715	
CCV-8	5.715	

Average 5.718
Actual RT Window 5.638 - 5.798
Applied RT Window 5.518 - 5.918

MB-R195071	N.A.	N.A.
LCS-R195071	5.731	PASS
N069543-018A	N.A.	N.A.
N069543-018AMS	5.715	PASS
N069543-021A	5.715	PASS
N069543-021AMS	5.723	PASS
N069583-003A	N.A.	N.A.
N069583-003A	N.A.	N.A.
N069583-003AMS	5.681	PASS
N069583-003AMSD	5.690	PASS
N069582-002A	5.740	PASS
N069582-003A	5.715	PASS
N069582-004A	5.715	PASS
N069583-002A	N.A.	N.A.
N069583-002AMS	5.556	PASS
N069583-006A	N.A.	N.A.
N069583-006AMS	5.715	PASS
N069585-001A	5.715	PASS
N069585-001AMS	5.715	PASS
N069585-001ADUP	5.715	PASS

Reviewed by:

MRecha 11/13/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/31/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.723	
CCV-2	5.723	
CCV-3	5.723	
CCV-4	5.715	
CCV-5	5.715	
CCV-6	5.715	
CCV-7	5.715	
CCV-8	5.715	

Average 5.718
Actual RT Window 5.638 - 5.798
Applied RT Window 5.518 - 5.918

N069582-002A	5.640	PASS
N069582-002AMS	5.631	PASS
N069582-003AMS	5.715	PASS
N069582-004AMS	5.715	PASS
N069543-019A	5.673	PASS
N069543-019AMS	5.673	PASS
N069543-020A	5.673	PASS
N069543-020AMS	5.665	PASS
N069582-001A	N.A.	N.A.
N069582-001AMS	5.715	PASS
N069583-001A	5.715	PASS
N069583-001AMS	5.706	PASS
N069583-002A	N.A.	N.A.
N069583-002AMS	5.690	PASS
N069583-004A	5.673	PASS
N069583-004AMS	5.673	PASS
N069583-005A	N.A.	N.A.
N069583-005AMS	5.706	PASS
N069583-007A	N.A.	N.A.
N069583-007AMS	5.715	PASS

Reviewed by:

dRocha 11/13/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/31/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.723	
CCV-2	5.723	
CCV-3	5.723	
CCV-4	5.715	
CCV-5	5.715	
CCV-6	5.715	
CCV-7	5.715	
CCV-8	5.715	

Average 5.718
Actual RT Window 5.638 - 5.798
Applied RT Window 5.518 - 5.918

N069583-008A	N.A.	N.A.
N069583-008AMS	5.573	PASS
N069583-008A	N.A.	N.A.
N069583-008AMS	5.681	PASS
N069583-009A	N.A.	N.A.
N069583-009AMS	N.A.	N.A.
N069583-009A	N.A.	N.A.
N069583-009AMS	5.656	PASS
N069583-010A	N.A.	N.A.
N069583-010AMS	N.A.	N.A.
N069583-010A	N.A.	N.A.
N069583-010AMS	5.623	PASS
N069583-011A	N.A.	N.A.
N069583-011AMS	5.715	PASS

Reviewed by:

M. Rocha 11/13/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 11/1/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.706	
CCV-2	5.706	
CCV-3	5.706	
CCV-4	5.706	
CCV-5	5.706	
CCV-6	5.698	
CCV-7	5.698	
CCV-8	5.698	

Average 5.703
Actual RT Window 5.623 - 5.783
Applied RT Window 5.503 - 5.903

MB-R195173	N.A.	N.A.
LCS-R195173	5.706	PASS
N069582-004A	5.706	PASS
N069582-004ADUP	5.706	PASS
N069582-004AMS	5.706	PASS
N069582-005A	5.706	PASS
N069582-006A	5.706	PASS
N069629-001A	5.698	PASS
N069629-001AMS	5.698	PASS
N069629-001AMSD	5.698	PASS
N069629-002A	5.698	PASS
N069629-002AMS	5.706	PASS
N069629-003A	N.A.	N.A.
N069629-003AMS	5.698	PASS
N069582-006AMS	5.698	PASS
N069582-006AMSD	5.698	PASS
N069582-005A	5.706	PASS
N069582-005AMS	5.706	PASS
N069629-001A	5.673	PASS
N069629-001AMS	5.673	PASS

Reviewed by:

MRecha 11/7/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 11/1/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.706	
CCV-2	5.706	
CCV-3	5.706	
CCV-4	5.706	
CCV-5	5.706	
CCV-6	5.698	
CCV-7	5.698	
CCV-8	5.698	

Average 5.703
Actual RT Window 5.623 - 5.783
Applied RT Window 5.503 - 5.903

N069629-002A	5.673	PASS
N069629-002AMS	5.673	PASS
N069629-001AMS	5.698	PASS
N069629-002AMS	5.698	PASS
N069631-008A	N.A.	N.A.
N069631-008AMS	N.A.	N.A.
N069631-008A	N.A.	N.A.
N069631-008AMS	5.623	PASS
N069631-009A	N.A.	N.A.
N069631-009AMS	N.A.	N.A.
N069631-009A	N.A.	N.A.
N069631-009AMS	5.648	PASS
N069631-010A	N.A.	N.A.
N069631-010AMS	N.A.	N.A.
N069631-010A	N.A.	N.A.
N069631-010AMS	5.656	PASS
N069631-011A	N.A.	N.A.
N069631-011AMS	N.A.	N.A.
N069631-011A	N.A.	N.A.
N069631-011AMS	5.598	PASS

Reviewed by:

d/Rocha 11/7/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 11/1/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.706	
CCV-2	5.706	
CCV-3	5.706	
CCV-4	5.706	
CCV-5	5.706	
CCV-6	5.698	
CCV-7	5.698	
CCV-8	5.698	

Average 5.703
Actual RT Window 5.623 - 5.783
Applied RT Window 5.503 - 5.903

N069631-012A	N.A.	N.A.
N069631-012AMS	N.A.	N.A.
N069631-012A	N.A.	N.A.
N069631-012AMS	5.623	PASS
N069631-013A	N.A.	N.A.
N069631-013A	N.A.	N.A.
N069631-013AMS	5.648	PASS
N069631-014A	N.A.	N.A.
N069631-014AMS	N.A.	N.A.
N069631-014A	N.A.	N.A.
N069631-014AMS	5.648	PASS
N069631-001A	5.665	PASS
N069631-001AMS	5.698	PASS
N069631-002A	N.A.	N.A.
N069631-002AMS	5.706	PASS
N069631-003A	N.A.	N.A.
N069631-003AMS	5.698	PASS
N069631-004A	5.690	PASS
N069631-004AMS	5.690	PASS
N069631-005A	N.A.	N.A.

Reviewed by:

dMocha 11/7/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 11/1/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.706	
CCV-2	5.706	
CCV-3	5.706	
CCV-4	5.706	
CCV-5	5.706	
CCV-6	5.698	
CCV-7	5.698	
CCV-8	5.698	

Average 5.703
Actual RT Window 5.623 - 5.783
Applied RT Window 5.503 - 5.903

N069631-005AMS	5.690	PASS
N069631-006A	5.781	PASS
N069631-006AMS	5.698	PASS
N069631-007A	N.A.	N.A.
N069631-007AMS	5.698	PASS

Reviewed by:

d/Recha 11/7/2024

MDL STUDY



ASSET LABORATORIES
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METHOD DETECTION LIMIT (Spiked)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): 10/4/2022, 11/15/2022, 1/4/2023, 3/1/2023, 4/4/2023, 5/16/2023, 7/10/2023, 8/2/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: ug/L

Instrument Name: **IC-07**

Datafile 221004A D12 221115A D12 230104A D11 230301C D14 230404A D11 230516A D11 230710A D12 230802A D11

Analyte	#1	#2	#3	#4	#5	#6	#7	#8	Spike Conc., ug/L	SD	t _(n-1) value	MDLs	PQL
Hexavalent Chromium	0.199	0.194	0.169	0.190	0.167	0.194	0.201	0.185	0.20	0.0129	2.998	0.0387	0.20

METHOD DETECTION LIMIT (Blanks)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Instrument Name: **IC-07**

Analyte	MDLb	#of Records
Hexavalent Chromium	0.00	166

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

RAW DATA



ASSET LABORATORIES
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INITIAL CALIBRATION



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INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	ICV	ICV	1	Hexavalent Chromium	10/28/24 10:49 AM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/28/24 10:59 AM	Reported
11	ICB	ICB	1	Hexavalent Chromium	10/28/24 11:08 AM	Reported
12	MB-R194895	MBLK	1	Hexavalent Chromium	10/28/24 11:17 AM	Reported
13	LCS-R194895	LCS	1	Hexavalent Chromium	10/28/24 11:27 AM	Reported
14	N069445-001A	SAMP	1	Hexavalent Chromium	10/28/24 11:36 AM	Reported
15	N069445-001AMS	MS	1	Hexavalent Chromium	10/28/24 11:46 AM	Reported
16	N069445-001AMSD	MSD	1	Hexavalent Chromium	10/28/24 11:55 AM	Reported
17	N069445-001ADUP	DUP	1	Hexavalent Chromium	10/28/24 12:05 PM	Reported
18	N069453-001A	SAMP	1	Hexavalent Chromium	10/28/24 12:14 PM	Reported
19	N069453-002A	SAMP	1	Hexavalent Chromium	10/28/24 12:24 PM	Reported
20	N069453-003A	SAMP	1	Hexavalent Chromium	10/28/24 12:33 PM	Reported
21	N069453-004A	SAMP	1	Hexavalent Chromium	10/28/24 12:43 PM	Reported
22	CCV-1	CCV1	1	Hexavalent Chromium	10/28/24 12:52 PM	Reported
23	CCB-1	CCB	1	Hexavalent Chromium	10/28/24 1:02 PM	Reported
24	N069444-001A	SAMP	1	Hexavalent Chromium	10/28/24 1:11 PM	Reported
25	N069444-001AMS	MS	1	Hexavalent Chromium	10/28/24 1:20 PM	Reported
26	N069444-002A	SAMP	1	Hexavalent Chromium	10/28/24 1:30 PM	Reported
27	N069444-002AMS	MS	1	Hexavalent Chromium	10/28/24 1:39 PM	Reported
28	N069444-003A	SAMP	1	Hexavalent Chromium	10/28/24 1:49 PM	Not Reported
29	N069444-003AMS	MS	1	Hexavalent Chromium	10/28/24 1:58 PM	Not Reported
30	N069444-001A	SAMP	5	Hexavalent Chromium	10/28/24 2:08 PM	Not Reported
31	N069444-001AMS	MS	5	Hexavalent Chromium	10/28/24 2:17 PM	Not Reported
32	N069444-002A	SAMP	5	Hexavalent Chromium	10/28/24 2:27 PM	Not Reported
33	N069444-002AMS	MS	5	Hexavalent Chromium	10/28/24 2:36 PM	Not Reported
34	CCV-2	CCV	1	Hexavalent Chromium	10/28/24 2:46 PM	Reported
35	CCB-2	CCB	1	Hexavalent Chromium	10/28/24 2:55 PM	Reported
36	N069444-003A	SAMP	5	Hexavalent Chromium	10/28/24 3:04 PM	Reported
37	N069444-003AMS	MS	5	Hexavalent Chromium	10/28/24 3:14 PM	Reported
38	N069233-009A	SAMP	5	Hexavalent Chromium	10/28/24 3:23 PM	Not Reported
39	N069233-009AMS	MS	5	Hexavalent Chromium	10/28/24 3:33 PM	Not Reported
40	N069233-015A	SAMP	5	Hexavalent Chromium	10/28/24 3:42 PM	Not Reported
41	N069233-015AMS	MS	5	Hexavalent Chromium	10/28/24 3:52 PM	Not Reported
42	CCV-3	CCV1	1	Hexavalent Chromium	10/28/24 4:01 PM	Reported

INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	CCB-3	CCB	1	Hexavalent Chromium	10/28/24 4:11 PM	Reported
44	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 4:20 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241028A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	28/Oct/24 16:50:54
No. of Injections:	47	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	ICV,ICV,1,	9	1000	Unknown		10/28/2024 10:49	Finished	ICV @5ppb, IWST-240729B
10	PQL @0.2ppb,CCV2,	10	1000	Unknown		10/28/2024 10:59	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		10/28/2024 11:08	Finished	ICB R240926A
12	MB-H2O,MBLK,1,	12	1000	Unknown		10/28/2024 11:17	Finished	MB R240926A
13	LCS-H2O,LCS,1,	13	1000	Unknown		10/28/2024 11:27	Finished	LCS @5ppb, IWST-240729B
14	N069445-001A,SAMP	14	1000	Unknown		10/28/2024 11:36	Finished	SAMP,10 mL
15	N069445-001AMS,MS	15	1000	Unknown		10/28/2024 11:46	Finished	MS (1ppb), IWST-240729B,10r
16	N069445-001AMSD,N	16	1000	Unknown		10/28/2024 11:55	Finished	MSD (1ppb), IWST-240729B,10r
17	N069445-001ADUP,D	17	1000	Unknown		10/28/2024 12:05	Finished	DUP,10 mL
18	N069453-001A,SAMP	18	1000	Unknown		10/28/2024 12:14	Finished	SAMP,10 mL
19	N069453-002A,SAMP	19	1000	Unknown		10/28/2024 12:24	Finished	SAMP,10 mL
20	N069453-003A,SAMP	20	1000	Unknown		10/28/2024 12:33	Finished	SAMP,10 mL
21	N069453-004A,SAMP	21	1000	Unknown		10/28/2024 12:43	Finished	SAMP,10 mL
22	CCV-1,CCV1,1,	22	1000	Unknown		10/28/2024 12:52	Finished	CCV @10ppb, IWST-240729A
23	CCB-1,CCB,1,	23	1000	Unknown		10/28/2024 13:02	Finished	CCB R240926A
24	N069444-001A,SAMP	24	1000	Unknown		10/28/2024 13:11	Finished	SAMP,10 mL
25	N069444-001AMS,MS	25	1000	Unknown		10/28/2024 13:20	Finished	MS (1ppb), IWST-240729B,10r
26	N069444-002A,SAMP	26	1000	Unknown		10/28/2024 13:30	Finished	SAMP,10 mL
27	N069444-002AMS,MS	27	1000	Unknown		10/28/2024 13:39	Finished	MS (1ppb), IWST-240729B,10r
28	N069444-003A,SAMP	28	1000	Unknown		10/28/2024 13:49	Finished	SAMP,10 mL
29	N069444-003AMS,MS	29	1000	Unknown		10/28/2024 13:58	Finished	MS (1ppb), IWST-240729B,10r
30	N069444-001A,SAMP	30	1000	Unknown		10/28/2024 14:08	Finished	SAMP,2>10 mL
31	N069444-001AMS,MS	31	1000	Unknown		10/28/2024 14:17	Finished	MS (1ppb), IWST-240729B,2>10
32	N069444-002A,SAMP	32	1000	Unknown		10/28/2024 14:27	Finished	SAMP,2>10 mL
33	N069444-002AMS,MS	33	1000	Unknown		10/28/2024 14:36	Finished	MS (1ppb), IWST-240729B,2>10
34	CCV-2,CCV,1,	34	1000	Unknown		10/28/2024 14:46	Finished	CCV @5ppb, IWST-240729A
35	CCB-2,CCB,1,	35	1000	Unknown		10/28/2024 14:55	Finished	CCB R240926A
36	N069444-003A,SAMP	36	1000	Unknown		10/28/2024 15:04	Finished	SAMP,2>10 mL
37	N069444-003AMS,MS	37	1000	Unknown		10/28/2024 15:14	Finished	MS (1ppb), IWST-240729B,2>10
38	N069233-009A,SAMP	38	1000	Unknown		10/28/2024 15:23	Finished	SAMP,2>10 mL
39	N069233-009AMS,MS	39	1000	Unknown		10/28/2024 15:33	Finished	MS (1ppb), IWST-240729B,2>10
40	N069233-015A,SAMP	40	1000	Unknown		10/28/2024 15:42	Finished	SAMP,2>10 mL
41	N069233-015AMS,MS	41	1000	Unknown		10/28/2024 15:52	Finished	MS (1ppb), IWST-240729B,2>10
42	CCV-3,CCV1,1,	42	1000	Unknown		10/28/2024 16:01	Finished	CCV @10ppb, IWST-240729A
43	CCB-3,CCB,1,	43	1000	Unknown		10/28/2024 16:11	Finished	CCB R240926A
44	BLANK	44	1000	Unknown		10/28/2024 16:20	Finished	BLANK
45	SHUTDOWN	45	1000	Unknown		10/28/2024 16:30	Finished	
46	Eluent: R241025A	46	1000	Unknown		n.a.	Finished	
47	PCR: R241025B	47	1000	Unknown		n.a.	Finished	

Reviewed by:

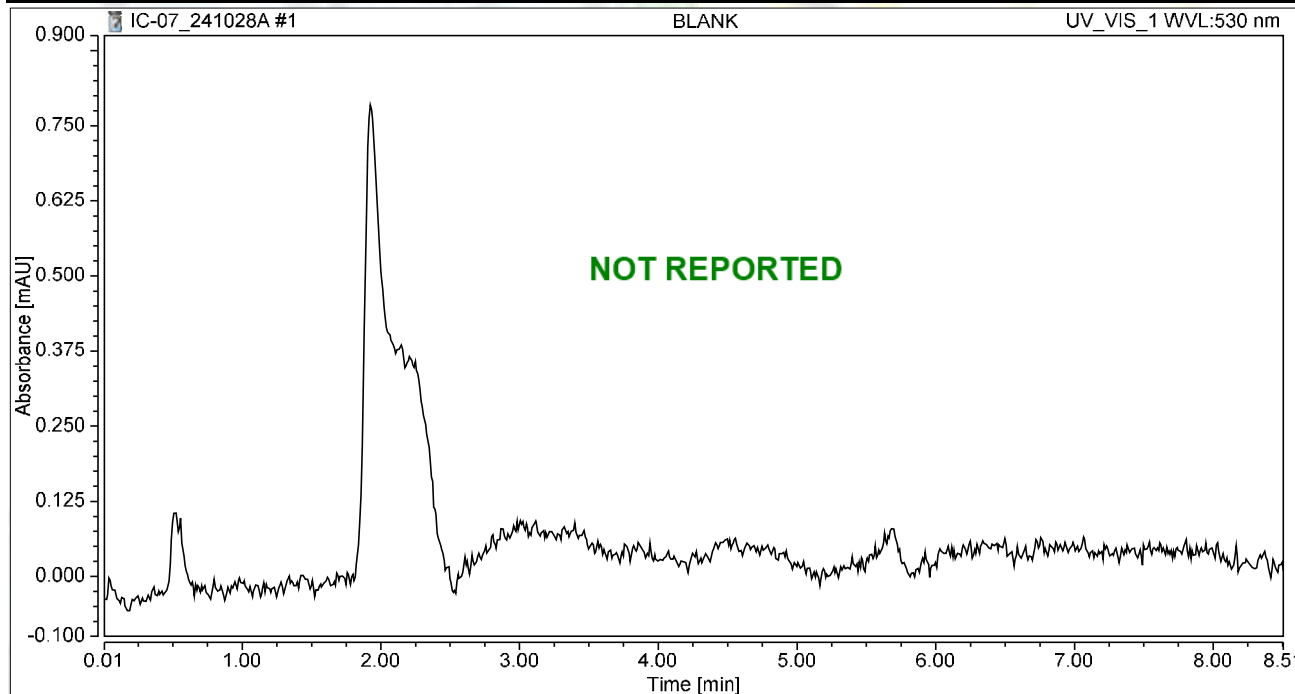
d/Recha 11/3/2024

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 09:30	Sample Weight:	1.0000

Chromatogram



Integration Results

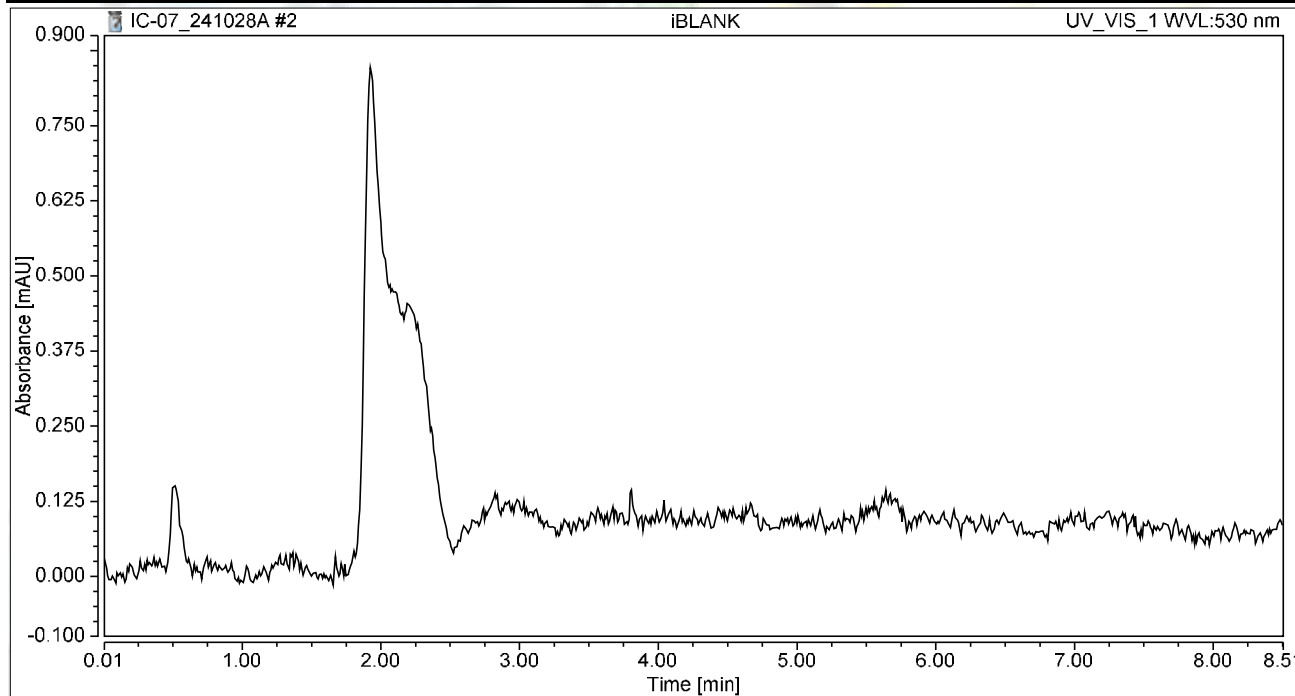
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	iBLANK	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 09:43	Sample Weight:	1.0000

Chromatogram



Integration Results

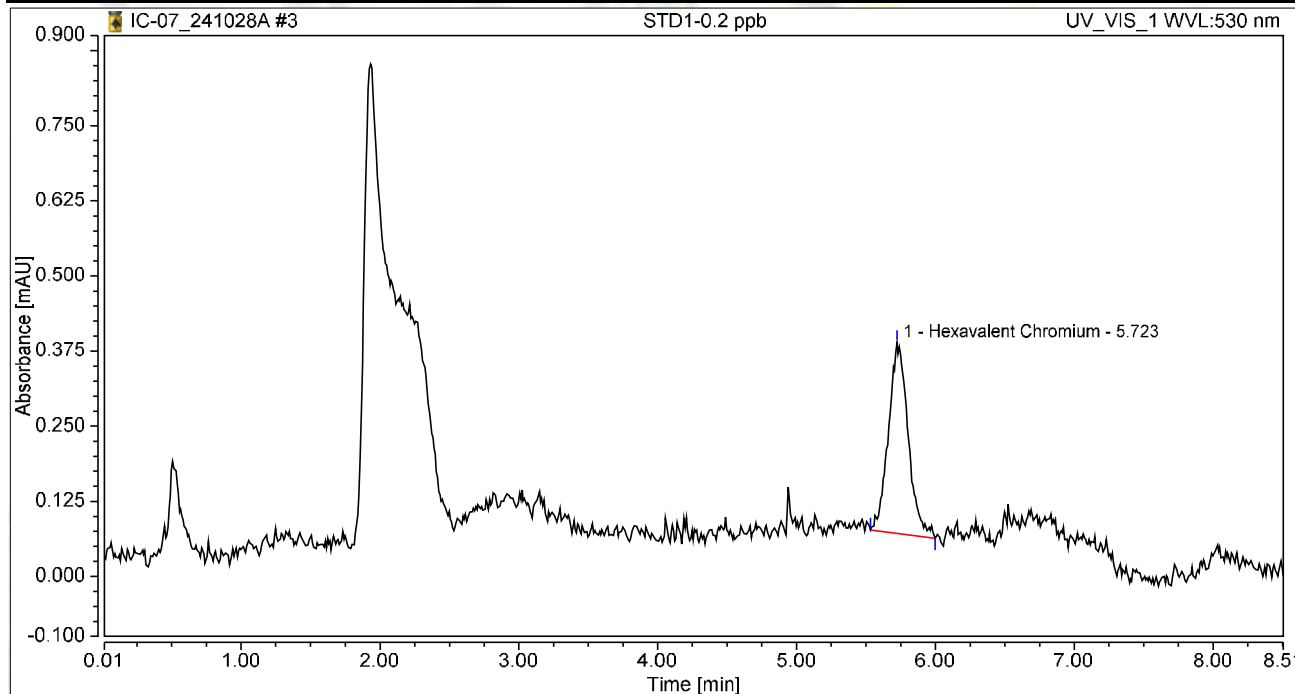
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	STD1-0.2 ppb	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	01	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 09:52	Sample Weight:	1.0000

Chromatogram



Integration Results

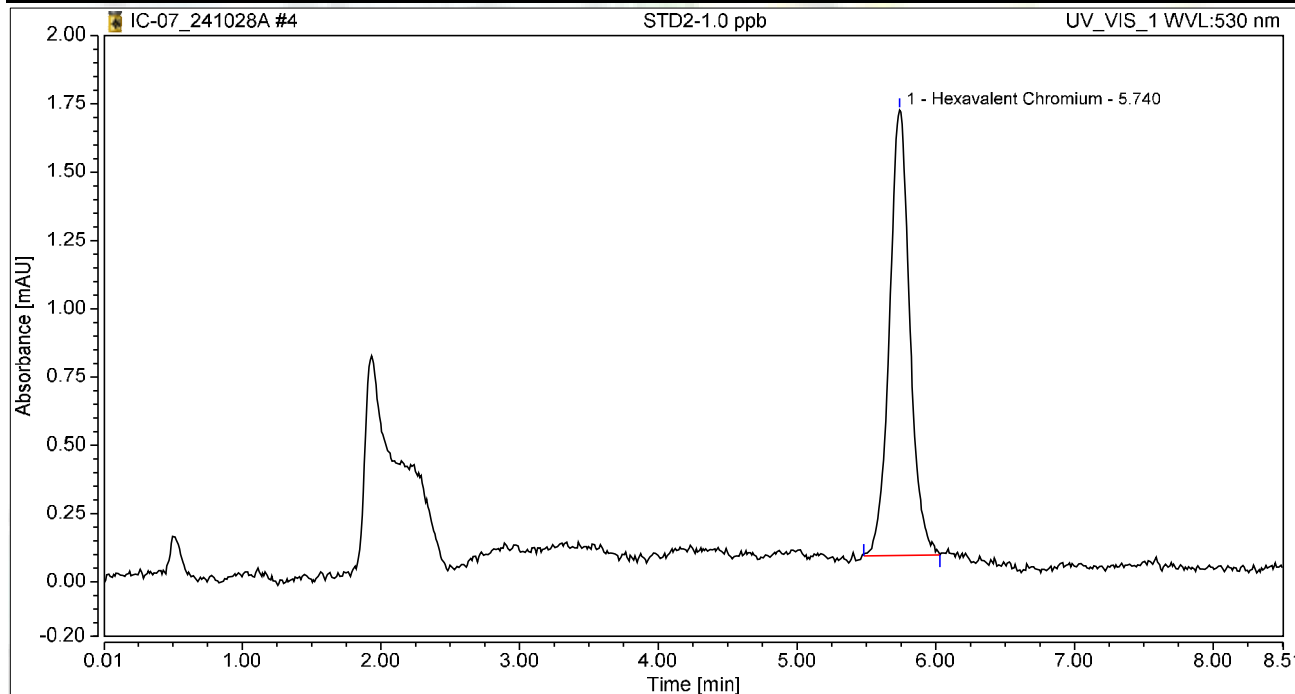
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.053	0.318	100.00	100.00	0.1857
Total:			0.053	0.318	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD2-1.0 ppb	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	02	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:02	Sample Weight:	1.0000

Chromatogram



Integration Results

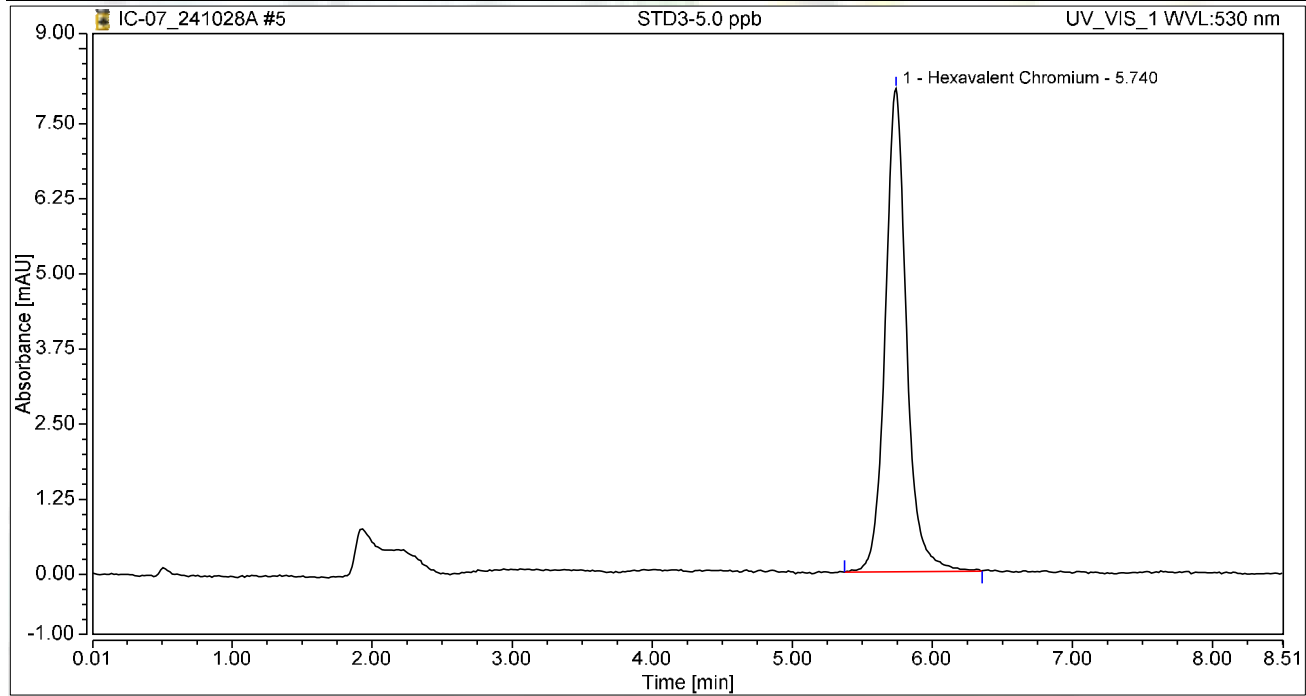
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	0.278	1.631	100.00	100.00	0.9794
Total:			0.278	1.631	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD3-5.0 ppb	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	03	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:11	Sample Weight:	1.0000

Chromatogram



Integration Results

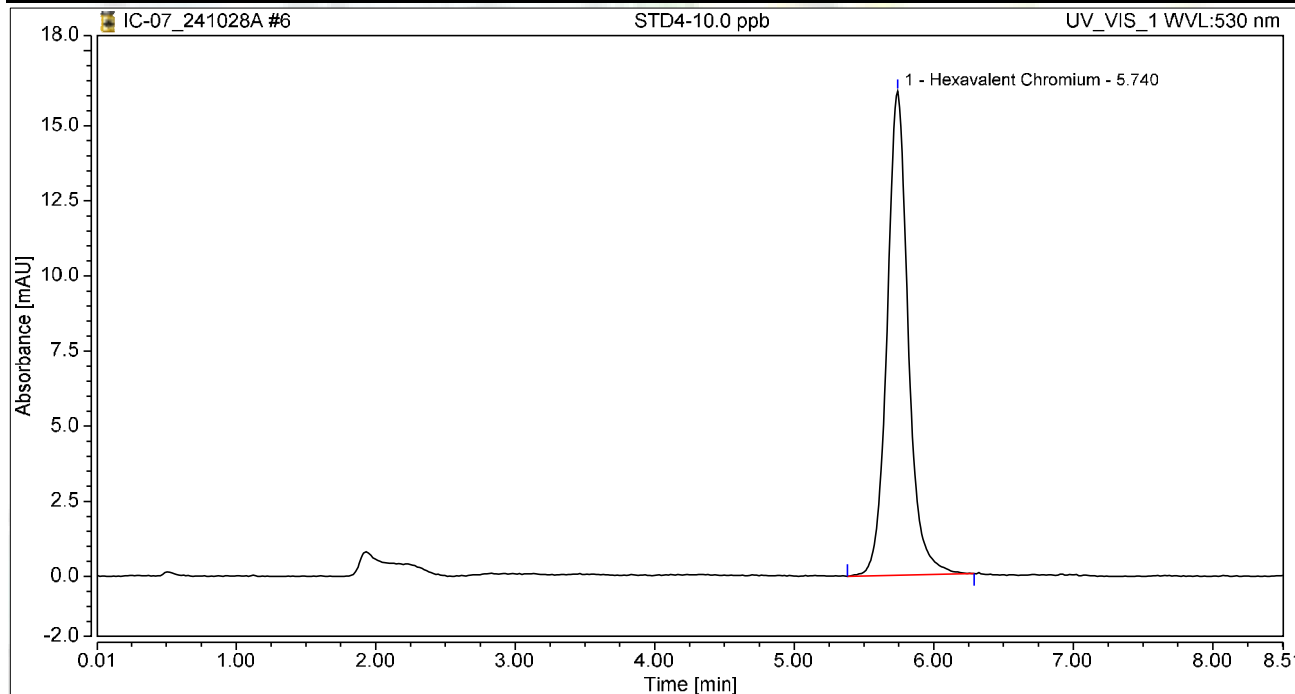
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	1.420	8.039	100.00	100.00	5.0028
Total:			1.420	8.039	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD4-10.0 ppb	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	04	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:21	Sample Weight:	1.0000

Chromatogram



Integration Results

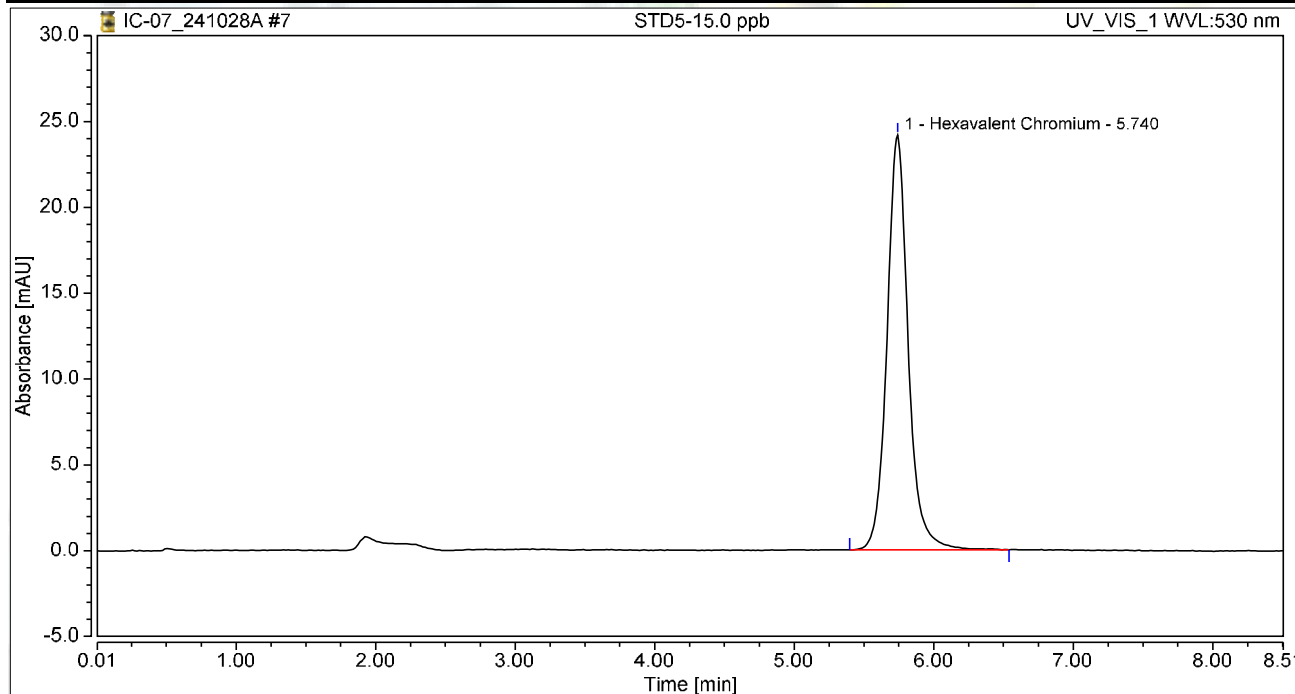
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	2.824	16.106	100.00	100.00	9.9507
Total:			2.824	16.106	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD5-15.0 ppb	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	05	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:30	Sample Weight:	1.0000

Chromatogram



Integration Results

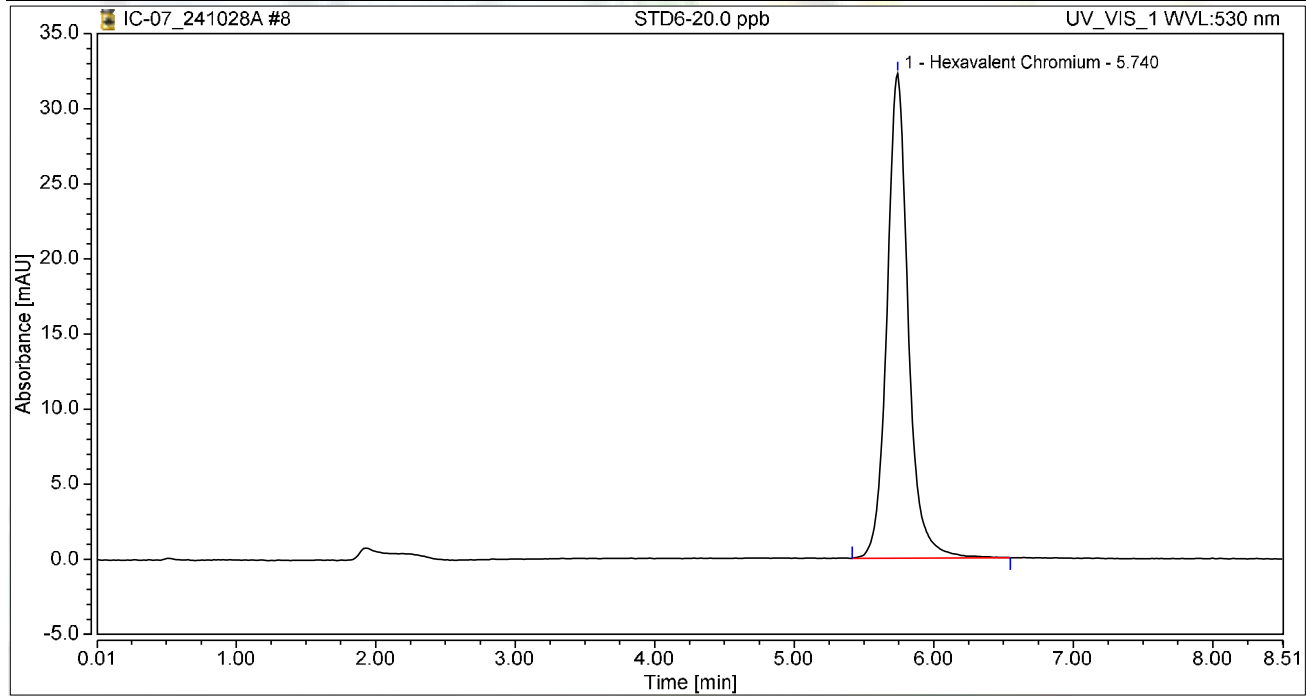
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	4.255	24.168	100.00	100.00	14.9966
Total:			4.255	24.168	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD6-20.0 ppb	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	06	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:40	Sample Weight:	1.0000

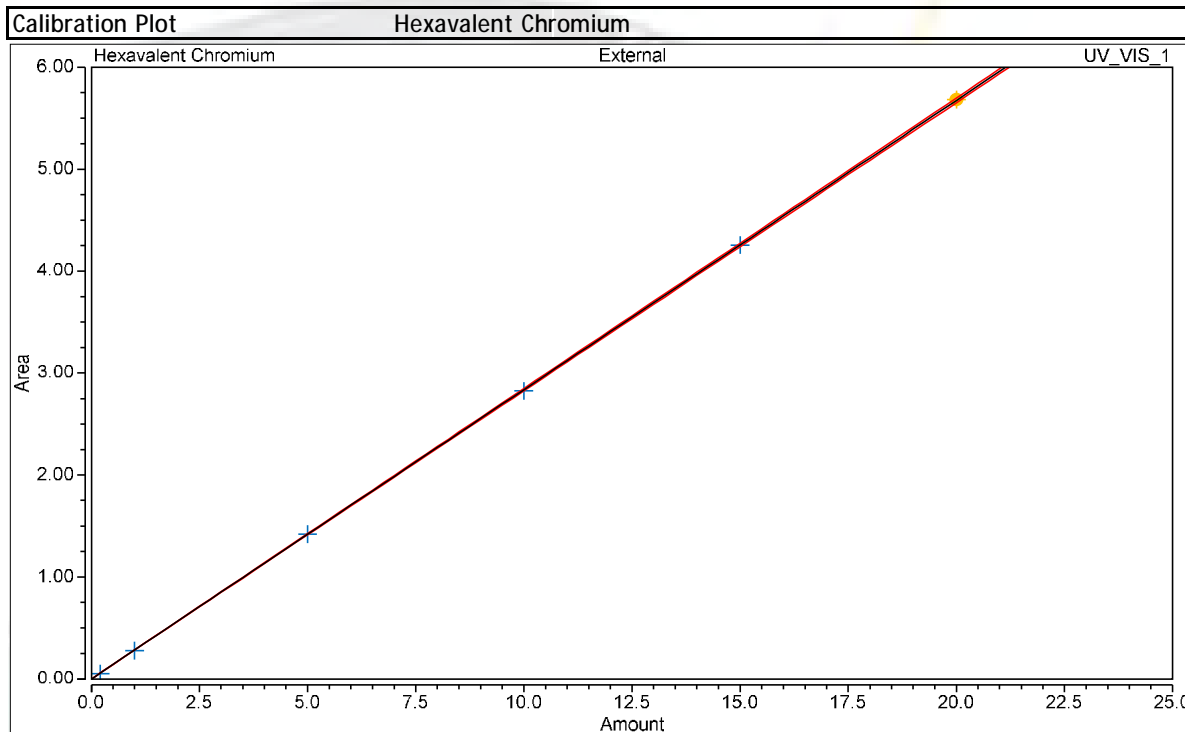
Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	5.683	32.257	100.00	100.00	20.0277
Total:			5.683	32.257	100.00	100.00	

Initial Calibration Summary			
Calibration Details		Hexavalent Chromium	
Calibration Type	Lin	Offset (C0)	0.0000
Evaluation Type	Area	Slope (C1)	0.2838
Number of Calibration Points	6	Curve (C2)	0.0000
Number of disabled Calibration Points	0	R-Square	0.99999



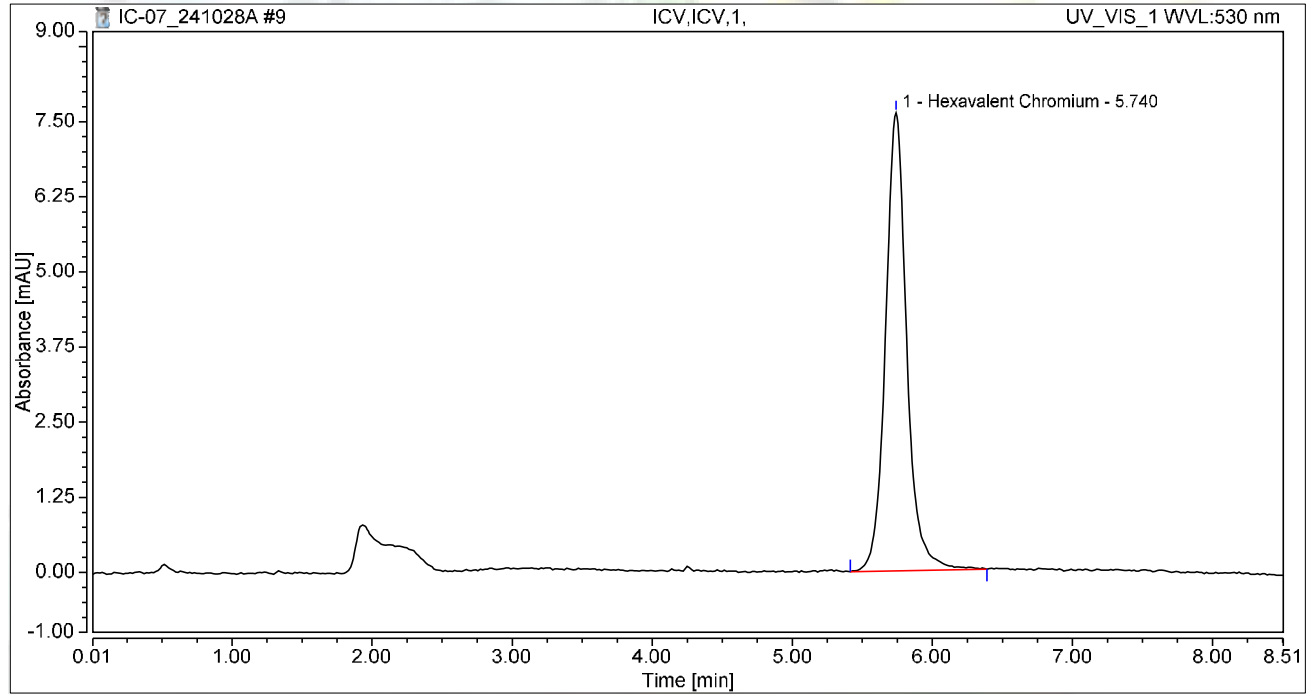
Calibration Results		Hexavalent Chromium				
No.	Injection Name	Calibration Level	X Value	Y Value	Area mAU*min	Height mAU
3	STD1-0.2 ppb	01	0.2000	0.0527	0.053	0.318
4	STD2-1.0 ppb	02	1.0000	0.2779	0.278	1.631
5	STD3-5.0 ppb	03	5.0000	1.4196	1.420	8.039
6	STD4-10.0 ppb	04	10.0000	2.8235	2.824	16.106
7	STD5-15.0 ppb	05	15.0000	4.2553	4.255	24.168
8	STD6-20.0 ppb	06	20.0000	5.6829	5.683	32.257

Chromatogram and Results

Injection Details

Injection Name:	ICV,ICV,1,	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:49	Sample Weight:	1.0000

Chromatogram



Integration Results

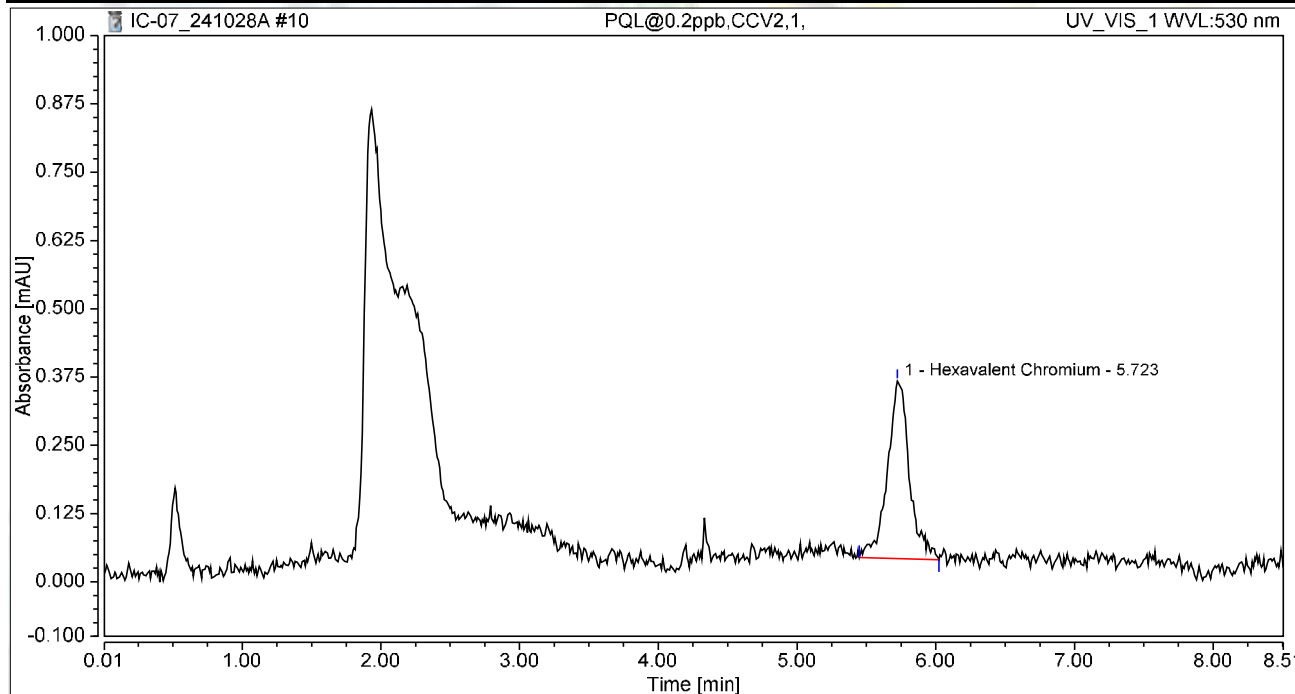
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	1.342	7.624	100.00	100.00	4.7300
Total:			1.342	7.624	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:59	Sample Weight:	1.0000

Chromatogram



Integration Results

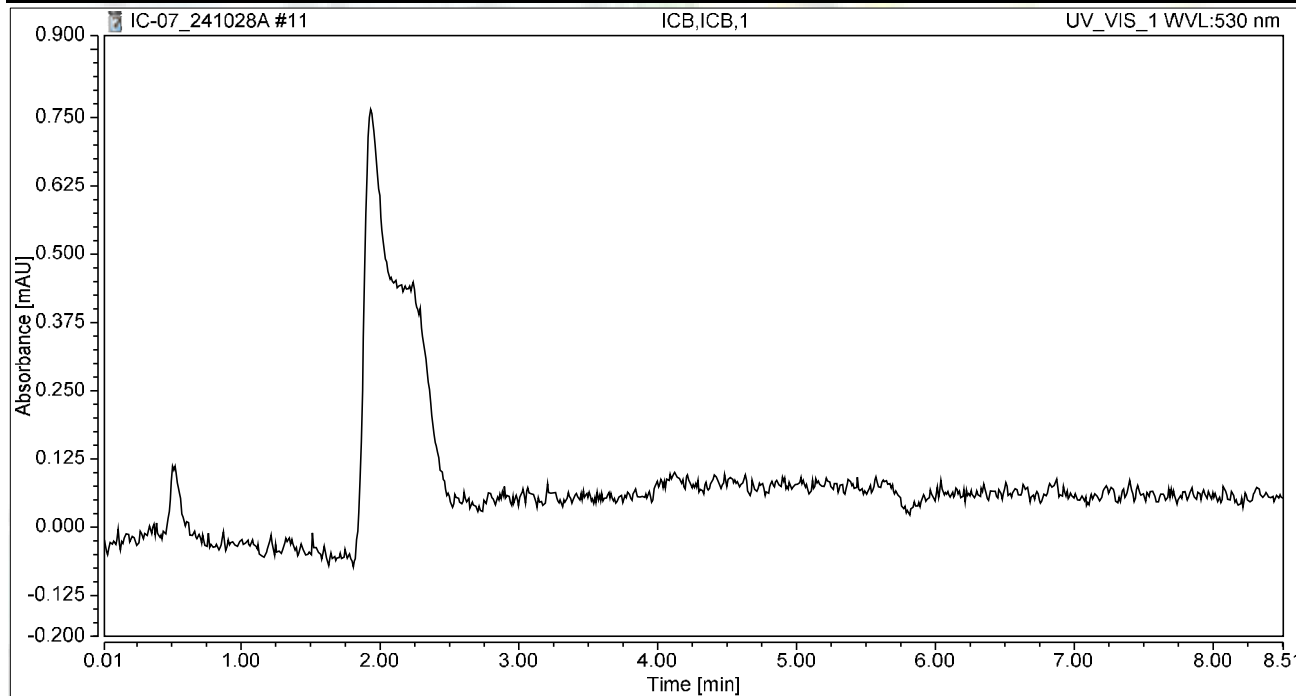
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.060	0.325	100.00	100.00	0.2110
Total:			0.060	0.325	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	ICB,ICB,1	Run Time (min):	8.49
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 11:08	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	



RAW DATA



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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INJECTION LOG: 241031A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	10/31/24 9:46 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	10/31/24 9:59 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/31/24 10:08 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	10/31/24 10:18 AM	Reported
13	MB-R195071	MBLK	1	Hexavalent Chromium	10/31/24 10:27 AM	Reported
14	LCS-R195071	LCS	1	Hexavalent Chromium	10/31/24 10:37 AM	Reported
15	N069543-018A	SAMP	1	Hexavalent Chromium	10/31/24 10:46 AM	Reported
16	N069543-018AMS	MS	1	Hexavalent Chromium	10/31/24 10:56 AM	Reported
17	N069543-019A	SAMP	1	Hexavalent Chromium	10/31/24 11:05 AM	Not Reported
18	N069543-019AMS	MS	1	Hexavalent Chromium	10/31/24 11:15 AM	Not Reported
19	N069543-020A	SAMP	1	Hexavalent Chromium	10/31/24 11:24 AM	Not Reported
20	N069543-020AMS	MS	1	Hexavalent Chromium	10/31/24 11:33 AM	Not Reported
21	N069543-021A	SAMP	1	Hexavalent Chromium	10/31/24 11:43 AM	Reported
22	N069543-021AMS	MS	1	Hexavalent Chromium	10/31/24 11:52 AM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	10/31/24 12:02 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	10/31/24 12:11 PM	Reported
25	N069583-003A	SAMP	1	Hexavalent Chromium	10/31/24 12:22 PM	Not Reported
26	N069583-003AMS	MS	1	Hexavalent Chromium	10/31/24 12:33 PM	Not Reported
27	N069583-003A	SAMP	5	Hexavalent Chromium	10/31/24 12:43 PM	Reported
28	N069583-003AMS	MS	5	Hexavalent Chromium	10/31/24 12:52 PM	Reported
29	N069583-003AMSD	MSD	5	Hexavalent Chromium	10/31/24 1:02 PM	Reported
30	N069582-002A	SAMP	50	Hexavalent Chromium	10/31/24 1:52 PM	Not Reported
31	N069582-003A	SAMP	5	Hexavalent Chromium	10/31/24 2:05 PM	Reported
32	N069582-004A	SAMP	50	Hexavalent Chromium	10/31/24 2:14 PM	Not Reported
33	N069583-002A	SAMP	1	Hexavalent Chromium	10/31/24 2:24 PM	Not Reported
34	N069583-002AMS	MS	1	Hexavalent Chromium	10/31/24 2:33 PM	Not Reported
35	CCV-3	CCV	1	Hexavalent Chromium	10/31/24 2:43 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	10/31/24 2:52 PM	Reported
37	N069583-006A	SAMP	1	Hexavalent Chromium	10/31/24 3:02 PM	Reported
38	N069583-006AMS	MS	1	Hexavalent Chromium	10/31/24 3:11 PM	Reported
39	N069585-001A	SAMP	5	Hexavalent Chromium	10/31/24 3:21 PM	Reported
40	N069585-001AMS	MS	5	Hexavalent Chromium	10/31/24 3:30 PM	Reported
41	N069585-001ADUP	DUP	5	Hexavalent Chromium	10/31/24 3:39 PM	Reported
42	N069582-002A	SAMP	5	Hexavalent Chromium	10/31/24 4:04 PM	Reported

INJECTION LOG: 241031A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069582-002AMS	MS	5	Hexavalent Chromium	10/31/24 4:16 PM	Reported
44	N069582-003AMS	MS	5	Hexavalent Chromium	10/31/24 4:26 PM	Reported
45	N069582-004AMS	MS	50	Hexavalent Chromium	10/31/24 4:35 PM	Not Reported
46	N069543-019A	SAMP	5	Hexavalent Chromium	10/31/24 4:44 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	10/31/24 4:54 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	10/31/24 5:03 PM	Reported
49	N069543-019AMS	MS	5	Hexavalent Chromium	10/31/24 5:13 PM	Reported
50	N069543-020A	SAMP	5	Hexavalent Chromium	10/31/24 5:22 PM	Reported
51	N069543-020AMS	MS	5	Hexavalent Chromium	10/31/24 5:32 PM	Reported
52	N069582-001A	SAMP	1	Hexavalent Chromium	10/31/24 5:41 PM	Reported
53	N069582-001AMS	MS	1	Hexavalent Chromium	10/31/24 5:51 PM	Reported
54	N069583-001A	SAMP	5	Hexavalent Chromium	10/31/24 6:00 PM	Reported
55	N069583-001AMS	MS	5	Hexavalent Chromium	10/31/24 6:10 PM	Reported
56	N069583-002A	SAMP	5	Hexavalent Chromium	10/31/24 6:19 PM	Reported
57	N069583-002AMS	MS	5	Hexavalent Chromium	10/31/24 6:28 PM	Reported
58	N069583-004A	SAMP	1	Hexavalent Chromium	10/31/24 6:38 PM	Not Reported
59	CCV-5	CCV	1	Hexavalent Chromium	10/31/24 6:47 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	10/31/24 6:57 PM	Reported
61	N069583-004AMS	MS	1	Hexavalent Chromium	10/31/24 7:06 PM	Not Reported
62	N069583-004A	SAMP	5	Hexavalent Chromium	10/31/24 7:16 PM	Reported
63	N069583-004AMS	MS	5	Hexavalent Chromium	10/31/24 7:25 PM	Reported
64	N069583-005A	SAMP	1	Hexavalent Chromium	10/31/24 7:35 PM	Reported
65	N069583-005AMS	MS	1	Hexavalent Chromium	10/31/24 7:44 PM	Reported
66	N069583-007A	SAMP	1	Hexavalent Chromium	10/31/24 7:54 PM	Reported
67	N069583-007AMS	MS	1	Hexavalent Chromium	10/31/24 8:03 PM	Reported
68	N069583-008A	SAMP	1	Hexavalent Chromium	10/31/24 8:12 PM	Not Reported
69	N069583-008AMS	MS	1	Hexavalent Chromium	10/31/24 8:22 PM	Not Reported
70	N069583-008A	SAMP	5	Hexavalent Chromium	10/31/24 8:31 PM	Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	10/31/24 8:41 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	10/31/24 8:50 PM	Reported
73	N069583-008AMS	MS	5	Hexavalent Chromium	10/31/24 9:00 PM	Reported
74	N069583-009A	SAMP	1	Hexavalent Chromium	10/31/24 9:09 PM	Not Reported
75	N069583-009AMS	MS	1	Hexavalent Chromium	10/31/24 9:19 PM	Not Reported
76	N069583-009A	SAMP	5	Hexavalent Chromium	10/31/24 9:28 PM	Reported
77	N069583-009AMS	MS	5	Hexavalent Chromium	10/31/24 9:38 PM	Reported
78	N069583-010A	SAMP	1	Hexavalent Chromium	10/31/24 9:47 PM	Not Reported
79	N069583-010AMS	MS	1	Hexavalent Chromium	10/31/24 9:56 PM	Not Reported
80	N069583-010A	SAMP	5	Hexavalent Chromium	10/31/24 10:06 PM	Reported
81	N069583-010AMS	MS	5	Hexavalent Chromium	10/31/24 10:15 PM	Reported
82	N069583-011A	SAMP	1	Hexavalent Chromium	10/31/24 10:25 PM	Reported
83	CCV-7	CCV	1	Hexavalent Chromium	10/31/24 10:34 PM	Reported
84	CCB-7	CCB	1	Hexavalent Chromium	10/31/24 10:44 PM	Reported

INJECTION LOG: 241031A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N069583-011AMS	MS	1	Hexavalent Chromium	10/31/24 10:53 PM	Reported
86	CCV-8	CCV1	1	Hexavalent Chromium	10/31/24 11:03 PM	Reported
87	CCB-8	CCB	1	Hexavalent Chromium	10/31/24 11:12 PM	Reported
88	BLANK	BLANK	1	Hexavalent Chromium	10/31/24 11:22 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241031A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	31/Oct/24 23:52:19
No. of Injections:	91	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	BLANK	1	1000	Unknown		10/31/2024 09:46	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		10/31/2024 09:59	Finished	CCV @5ppb, IWST-240729A
11	PQL@0.2ppb,CCV2,	3	1000	Unknown		10/31/2024 10:08	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		10/31/2024 10:18	Finished	CCB R241001A
13	MB-H2O,MBLK,1,	5	1000	Unknown		10/31/2024 10:27	Finished	MB R241001A
14	LCS-H2O,LCS,1,	6	1000	Unknown		10/31/2024 10:37	Finished	LCS @5ppb, IWST-240729B
15	N069543-018A,SAMP	7	1000	Unknown		10/31/2024 10:46	Finished	SAMP,10 mL
16	N069543-018AMS,M	8	1000	Unknown		10/31/2024 10:56	Finished	MS (1ppb), IWST-240729B,10r
17	N069543-019A,SAMP	9	1000	Unknown		10/31/2024 11:05	Finished	SAMP,10 mL
18	N069543-019AMS,M	10	1000	Unknown		10/31/2024 11:15	Finished	MS (1ppb), IWST-240729B,10r
19	N069543-020A,SAMP	11	1000	Unknown		10/31/2024 11:24	Finished	SAMP,10 mL
20	N069543-020AMS,M	12	1000	Unknown		10/31/2024 11:33	Finished	MS (1ppb), IWST-240729B,10r
21	N069543-021A,SAMP	13	1000	Unknown		10/31/2024 11:43	Finished	SAMP,10 mL
22	N069543-021AMS,M	14	1000	Unknown		10/31/2024 11:52	Finished	MS (1ppb), IWST-240729B,10r
23	CCV-2,CCV1,1,	15	1000	Unknown		10/31/2024 12:02	Finished	CCV @10ppb, IWST-240729A
24	CCB-2,CCB,1,	16	1000	Unknown		10/31/2024 12:11	Finished	CCB R241001A
25	N069583-003A,SAMP	1	1000	Unknown		10/31/2024 12:22	Finished	SAMP,10 mL
26	N069583-003AMS,M	2	1000	Unknown		10/31/2024 12:33	Finished	MS (1ppb), IWST-240729B,10r
27	N069583-003A,SAMP	3	1000	Unknown		10/31/2024 12:43	Finished	SAMP,2>10 mL
28	N069583-003AMS,M	4	1000	Unknown		10/31/2024 12:52	Finished	MS (1ppb), IWST-240729B,2>
29	N069583-003AMSD,M	5	1000	Unknown		10/31/2024 13:02	Finished	MSD (1ppb), IWST-240729B,2>
30	N069582-002A,SAMP	1	1000	Unknown		10/31/2024 13:52	Finished	SAMP,0.2>10 mL
31	N069582-003A,SAMP	2	1000	Unknown		10/31/2024 14:05	Finished	SAMP,2>10 mL
32	N069582-004A,SAMP	3	1000	Unknown		10/31/2024 14:14	Finished	SAMP,0.2>10 mL
33	N069583-002A,SAMP	4	1000	Unknown		10/31/2024 14:24	Finished	SAMP,10 mL
34	N069583-002AMS,M	5	1000	Unknown		10/31/2024 14:33	Finished	MS (1ppb), IWST-240729B,10r
35	CCV-3,CCV,1,	6	1000	Unknown		10/31/2024 14:43	Finished	CCV @5ppb, IWST-240729A
36	CCB-3,CCB,1,	7	1000	Unknown		10/31/2024 14:52	Finished	CCB R241001A
37	N069583-006A,SAMP	8	1000	Unknown		10/31/2024 15:02	Finished	SAMP,10 mL
38	N069583-006AMS,M	9	1000	Unknown		10/31/2024 15:11	Finished	MS (1ppb), IWST-240729B,10r
39	N069585-001A,SAMP	10	1000	Unknown		10/31/2024 15:21	Finished	SAMP,2>10 mL
40	N069585-001AMS,M	11	1000	Unknown		10/31/2024 15:30	Finished	MS (5ppb), IWST-240729B,2>
41	N069585-001ADUP,D	12	1000	Unknown		10/31/2024 15:39	Finished	DUP,2>10 mL
42	N069582-002A,SAMP	1	1000	Unknown		10/31/2024 16:04	Finished	SAMP,2>10 mL
43	N069582-002AMS,M	2	1000	Unknown		10/31/2024 16:16	Finished	MS (5ppb), IWST-240729B,2>
44	N069582-003AMS,M	3	1000	Unknown		10/31/2024 16:26	Finished	MS (5ppb), IWST-240729B,2>
45	N069582-004AMS,M	4	1000	Unknown		10/31/2024 16:35	Finished	MS (5ppb), IWST-240729B,0.2
46	N069543-019A,SAMP	5	1000	Unknown		10/31/2024 16:44	Finished	SAMP,2>10 mL
47	CCV-4,CCV1,1,	6	1000	Unknown		10/31/2024 16:54	Finished	CCV @10ppb, IWST-240729A
48	CCB-4,CCB,1,	7	1000	Unknown		10/31/2024 17:03	Finished	CCB R241001A
49	N069543-019AMS,M	8	1000	Unknown		10/31/2024 17:13	Finished	MS (1ppb), IWST-240729B,2>
50	N069543-020A,SAMP	9	1000	Unknown		10/31/2024 17:22	Finished	SAMP,2>10 mL
51	N069543-020AMS,M	10	1000	Unknown		10/31/2024 17:32	Finished	MS (1ppb), IWST-240729B,2>
52	N069582-001A,SAMP	11	1000	Unknown		10/31/2024 17:41	Finished	SAMP,10 mL
53	N069582-001AMS,M	12	1000	Unknown		10/31/2024 17:51	Finished	MS (1ppb), IWST-240729B,10r
54	N069583-001A,SAMP	13	1000	Unknown		10/31/2024 18:00	Finished	SAMP,2>10 mL
55	N069583-001AMS,M	14	1000	Unknown		10/31/2024 18:10	Finished	MS (1ppb), IWST-240729B,2>
56	N069583-002A,SAMP	15	1000	Unknown		10/31/2024 18:19	Finished	SAMP,2>10 mL
57	N069583-002AMS,M	16	1000	Unknown		10/31/2024 18:28	Finished	MS (1ppb), IWST-240729B,2>
58	N069583-004A,SAMP	17	1000	Unknown		10/31/2024 18:38	Finished	SAMP,10 mL
59	CCV-5,CCV,1,	18	1000	Unknown		10/31/2024 18:47	Finished	CCV @5ppb, IWST-240729A
60	CCB-5,CCB,1,	19	1000	Unknown		10/31/2024 18:57	Finished	CCB R241001A

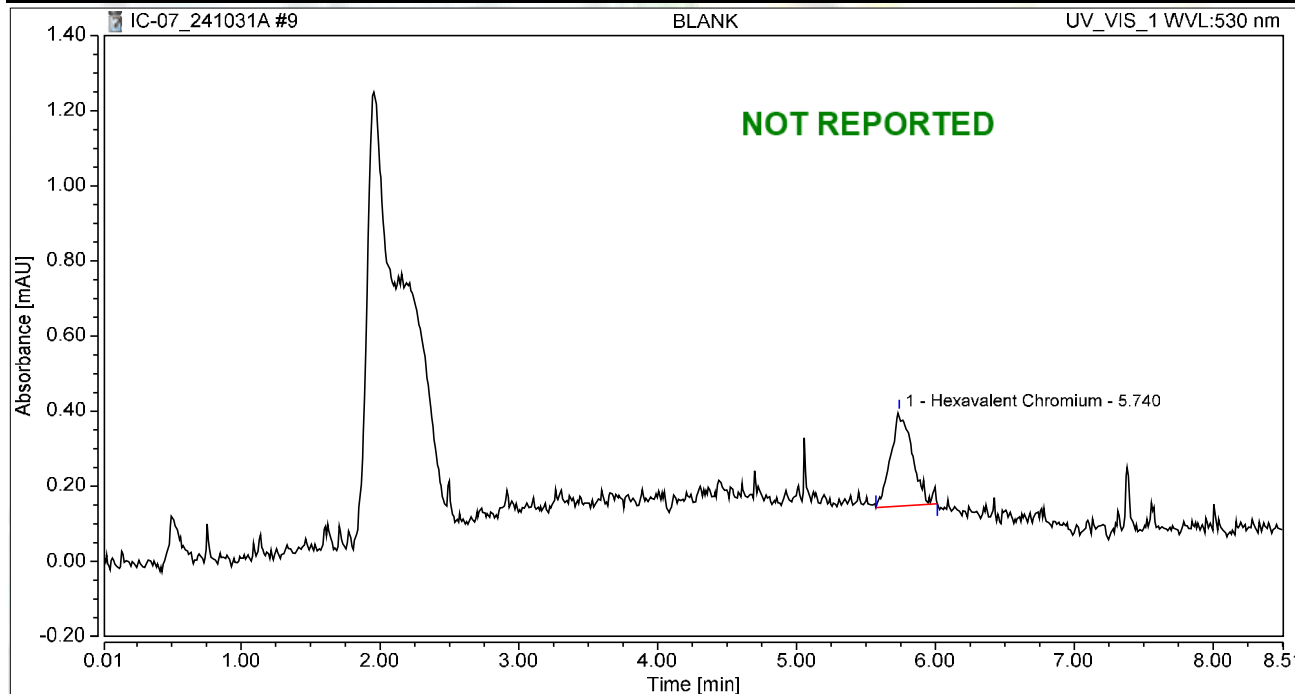
61	N069583-004AMS.M\$	20	1000	Unknown	10/31/2024 19:06	Finished	MS (1ppb), IWST-240729B,10r
62	N069583-004A,SAMP	21	1000	Unknown	10/31/2024 19:16	Finished	SAMP,2>10 mL
63	N069583-004AMS.M\$	22	1000	Unknown	10/31/2024 19:25	Finished	MS (1ppb), IWST-240729B,2>
64	N069583-005A,SAMP	23	1000	Unknown	10/31/2024 19:35	Finished	SAMP,10 mL
65	N069583-005AMS.M\$	24	1000	Unknown	10/31/2024 19:44	Finished	MS (1ppb), IWST-240729B,10r
66	N069583-007A,SAMP	25	1000	Unknown	10/31/2024 19:54	Finished	SAMP,10 mL
67	N069583-007AMS.M\$	26	1000	Unknown	10/31/2024 20:03	Finished	MS (1ppb), IWST-240729B,10r
68	N069583-008A,SAMP	27	1000	Unknown	10/31/2024 20:12	Finished	SAMP,10 mL
69	N069583-008AMS.M\$	28	1000	Unknown	10/31/2024 20:22	Finished	MS (1ppb), IWST-240729B,10r
70	N069583-008A,SAMP	29	1000	Unknown	10/31/2024 20:31	Finished	SAMP,2>10 mL
71	CCV-6,CCV1,1,	30	1000	Unknown	10/31/2024 20:41	Finished	CCV @10ppb, IWST-240729A
72	CCB-6,CCB,1,	31	1000	Unknown	10/31/2024 20:50	Finished	CCB R241001A
73	N069583-008AMS.M\$	32	1000	Unknown	10/31/2024 21:00	Finished	MS (1ppb), IWST-240729B,2>
74	N069583-009A,SAMP	33	1000	Unknown	10/31/2024 21:09	Finished	SAMP,10 mL
75	N069583-009AMS.M\$	34	1000	Unknown	10/31/2024 21:19	Finished	MS (1ppb), IWST-240729B,10r
76	N069583-009A,SAMP	35	1000	Unknown	10/31/2024 21:28	Finished	SAMP,2>10 mL
77	N069583-009AMS.M\$	36	1000	Unknown	10/31/2024 21:38	Finished	MS (1ppb), IWST-240729B,2>
78	N069583-010A,SAMP	37	1000	Unknown	10/31/2024 21:47	Finished	SAMP,10 mL
79	N069583-010AMS.M\$	38	1000	Unknown	10/31/2024 21:56	Finished	MS (1ppb), IWST-240729B,10r
80	N069583-010A,SAMP	39	1000	Unknown	10/31/2024 22:06	Finished	SAMP,2>10 mL
81	N069583-010AMS.M\$	40	1000	Unknown	10/31/2024 22:15	Finished	MS (1ppb), IWST-240729B,2>
82	N069583-011A,SAMP	41	1000	Unknown	10/31/2024 22:25	Finished	SAMP,10 mL
83	CCV-7,CCV,1,	42	1000	Unknown	10/31/2024 22:34	Finished	CCV @5ppb, IWST-240729A
84	CCB-7,CCB,1,	43	1000	Unknown	10/31/2024 22:44	Finished	CCB R241001A
85	N069583-011AMS.M\$	44	1000	Unknown	10/31/2024 22:53	Finished	MS (1ppb), IWST-240729B,10r
86	CCV-8,CCV1,1,	45	1000	Unknown	10/31/2024 23:03	Finished	CCV @10ppb, IWST-240729A
87	CCB-8,CCB,1,	46	1000	Unknown	10/31/2024 23:12	Finished	CCB R241001A
88	BLANK	47	1000	Unknown	10/31/2024 23:22	Finished	BLANK
89	SHUTDOWN	48	1000	Unknown	10/31/2024 23:31	Finished	
90	Eluent: R241029A	49	1000	Unknown	n.a.	Finished	
91	PCR: R241029B	50	1000	Unknown	n.a.	Finished	

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 09:46	Sample Weight:	1.0000

Chromatogram



Integration Results

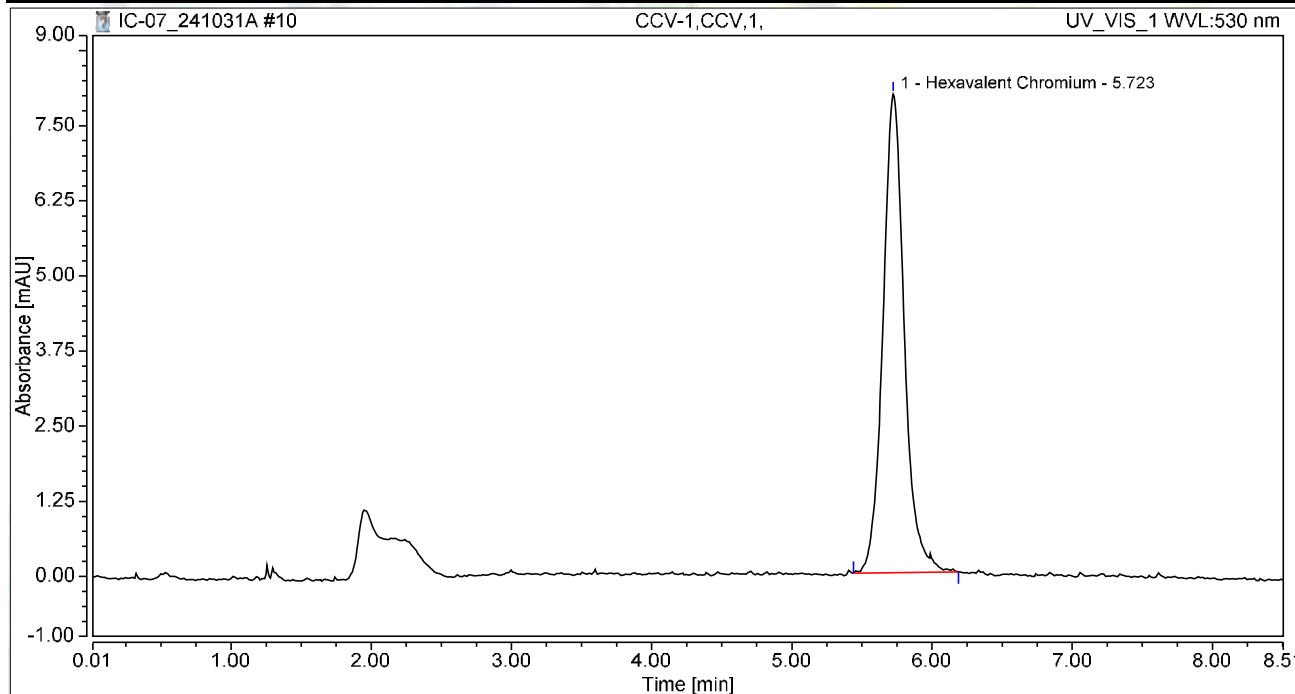
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	0.045	0.251	100.00	100.00	0.1599
Total:			0.045	0.251	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-1,CCV,1,	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 09:59	Sample Weight:	1.0000

Chromatogram



Integration Results

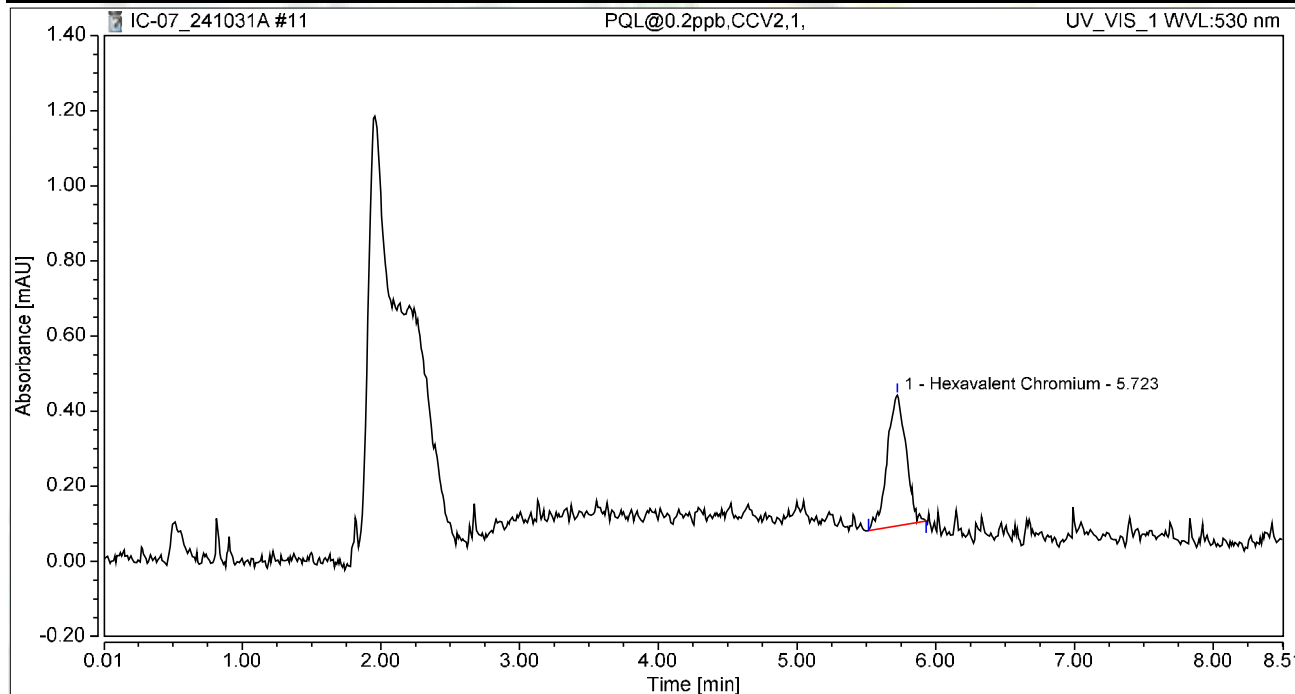
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	1.404	7.967	100.00	100.00	4.9477
Total:			1.404	7.967	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 10:08	Sample Weight:	1.0000

Chromatogram



Integration Results

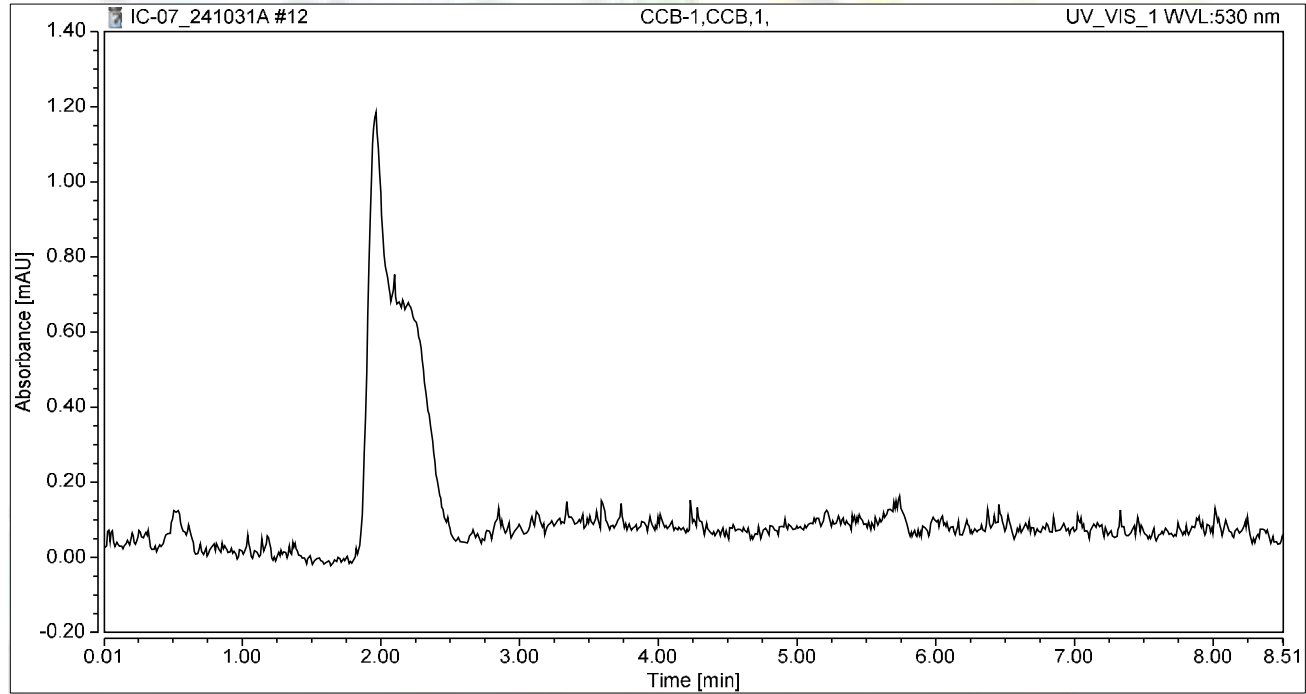
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.055	0.348	100.00	100.00	0.1930
Total:			0.055	0.348	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-1,CCB,1,	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 10:18	Sample Weight:	1.0000

Chromatogram



Integration Results

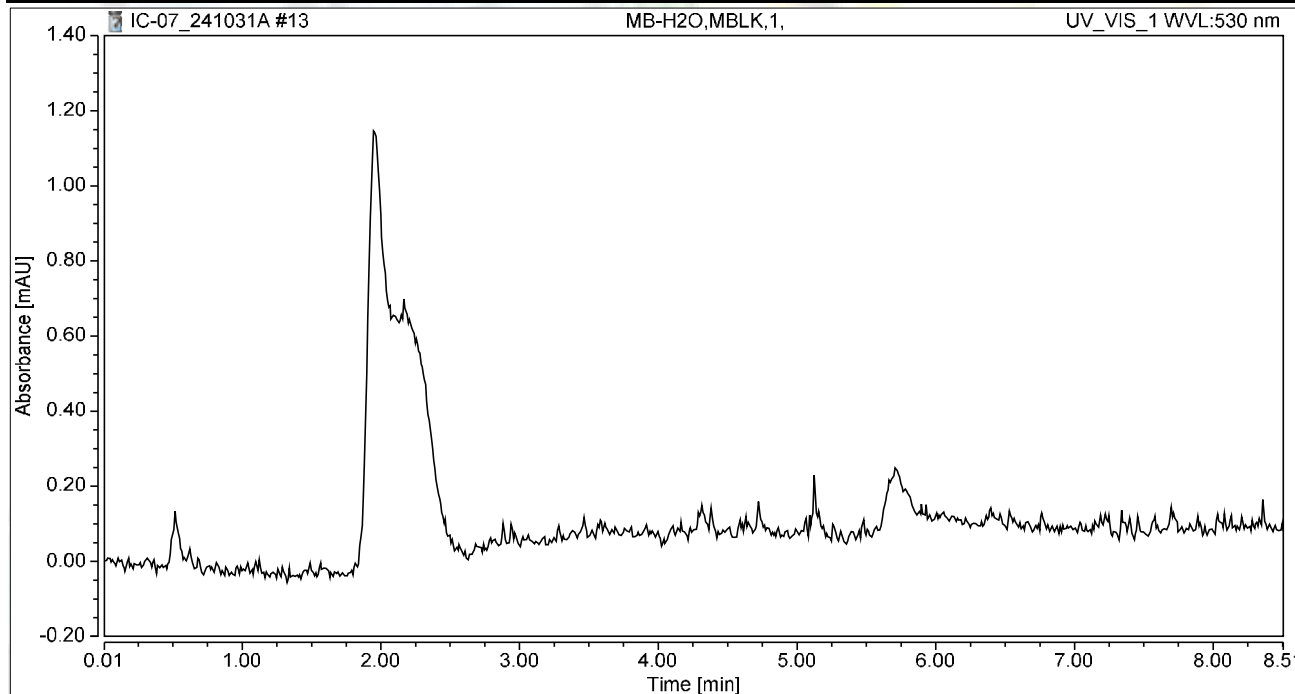
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 10:27	Sample Weight:	1.0000

Chromatogram



Integration Results

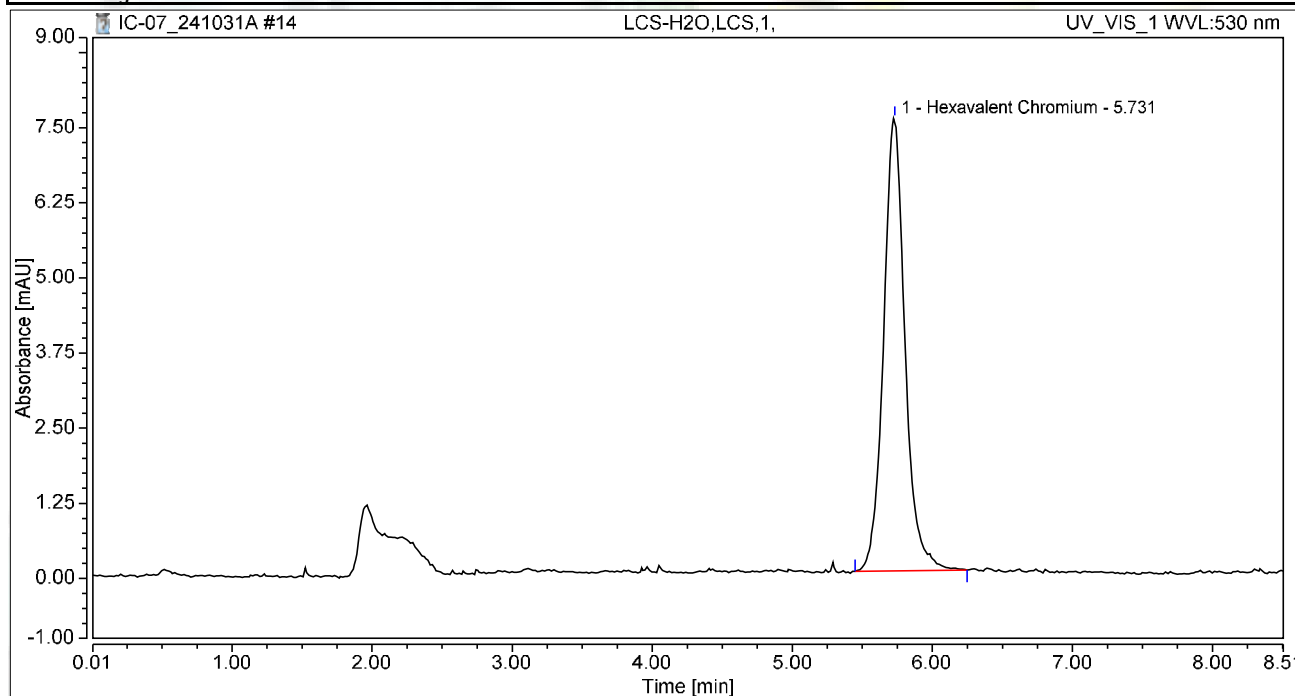
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-H2O,LCS,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 10:37	Sample Weight:	1.0000

Chromatogram



Integration Results

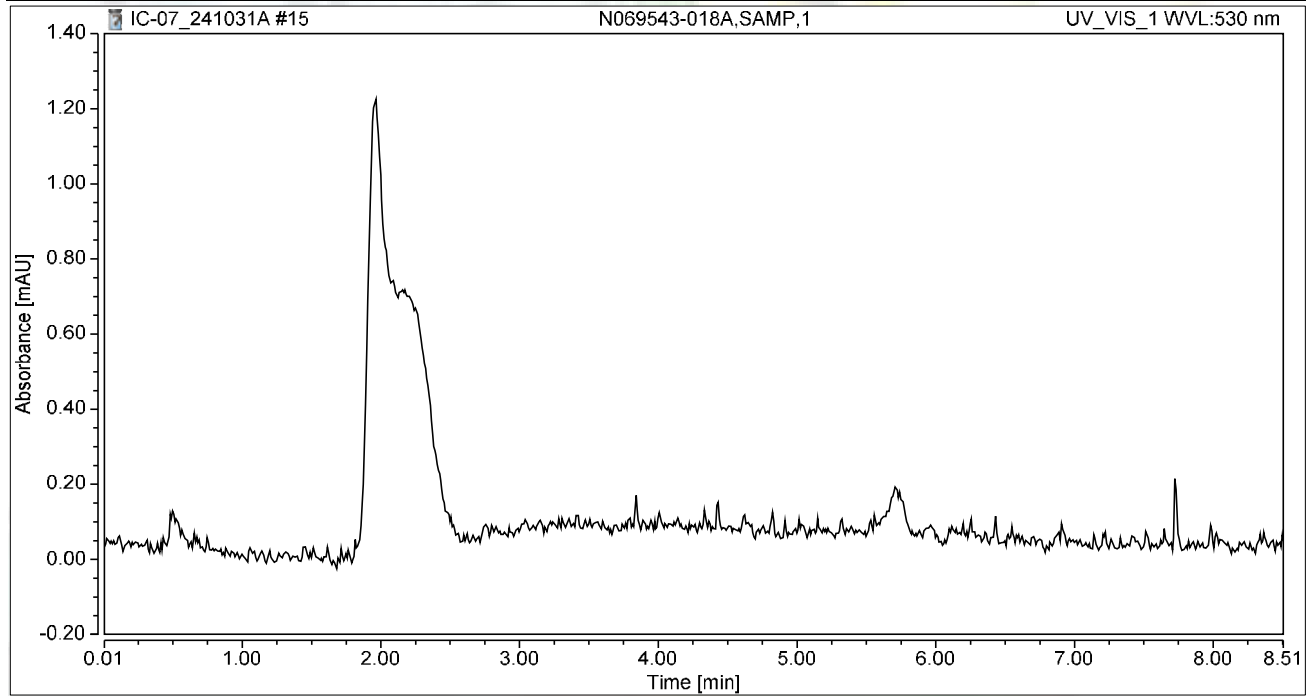
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	1.338	7.532	100.00	100.00	4.7137
Total:			1.338	7.532	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-018A,SAMP,1	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 10:46	Sample Weight:	1.0000

Chromatogram



Integration Results

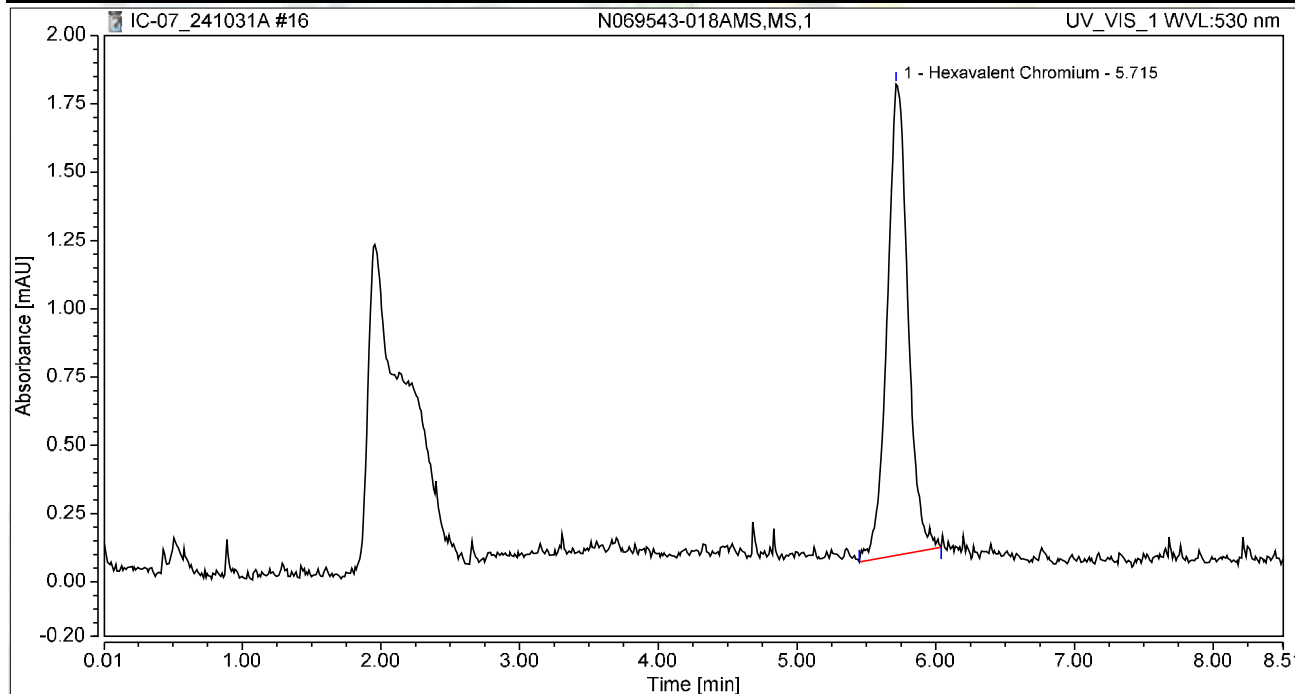
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-018AMS,MS,1	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 10:56	Sample Weight:	1.0000

Chromatogram



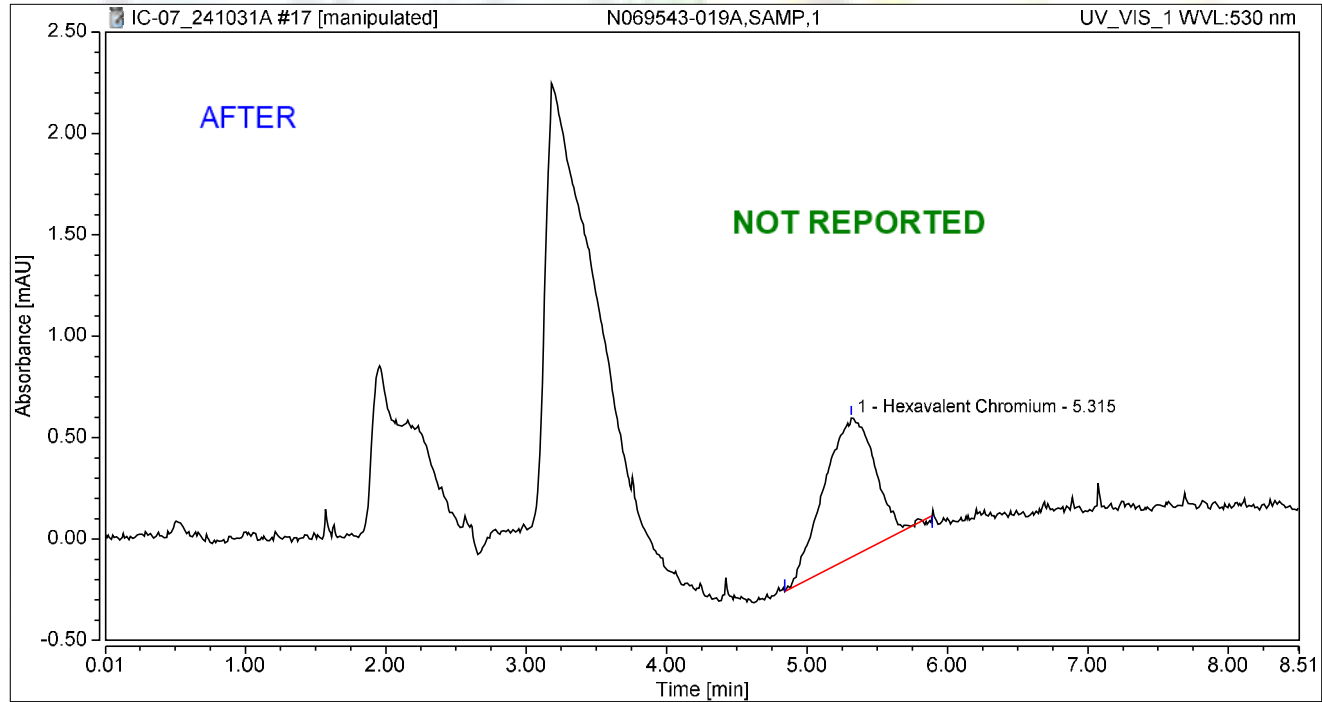
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.300	1.726	100.00	100.00	1.0574
Total:			0.300	1.726	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069543-019A,SAMP,1	Run Time (min): 8.50
Vial Number:	9	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	31/Oct/24 11:05	Sample Weight: 1.0000

Chromatogram



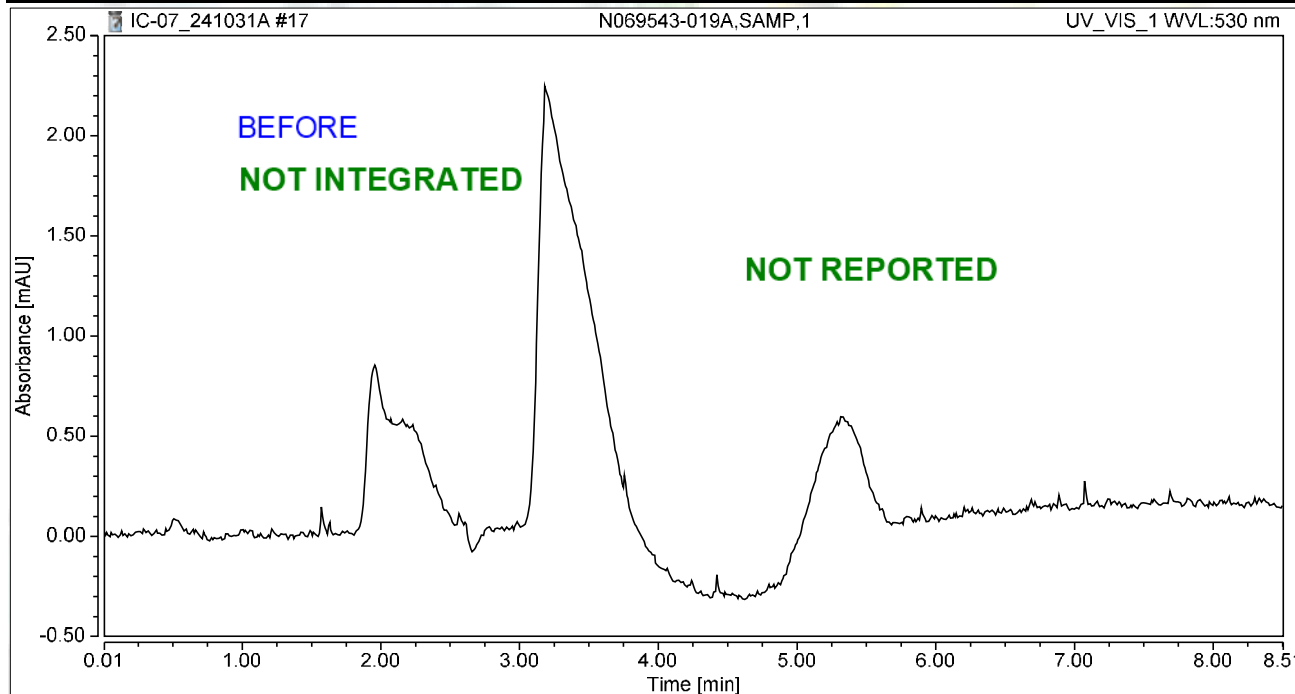
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.315	0.289	0.688	100.00	100.00	1.0184
Total:			0.289	0.688	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-019A,SAMP,1	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 11:05	Sample Weight:	1.0000

Chromatogram



Integration Results

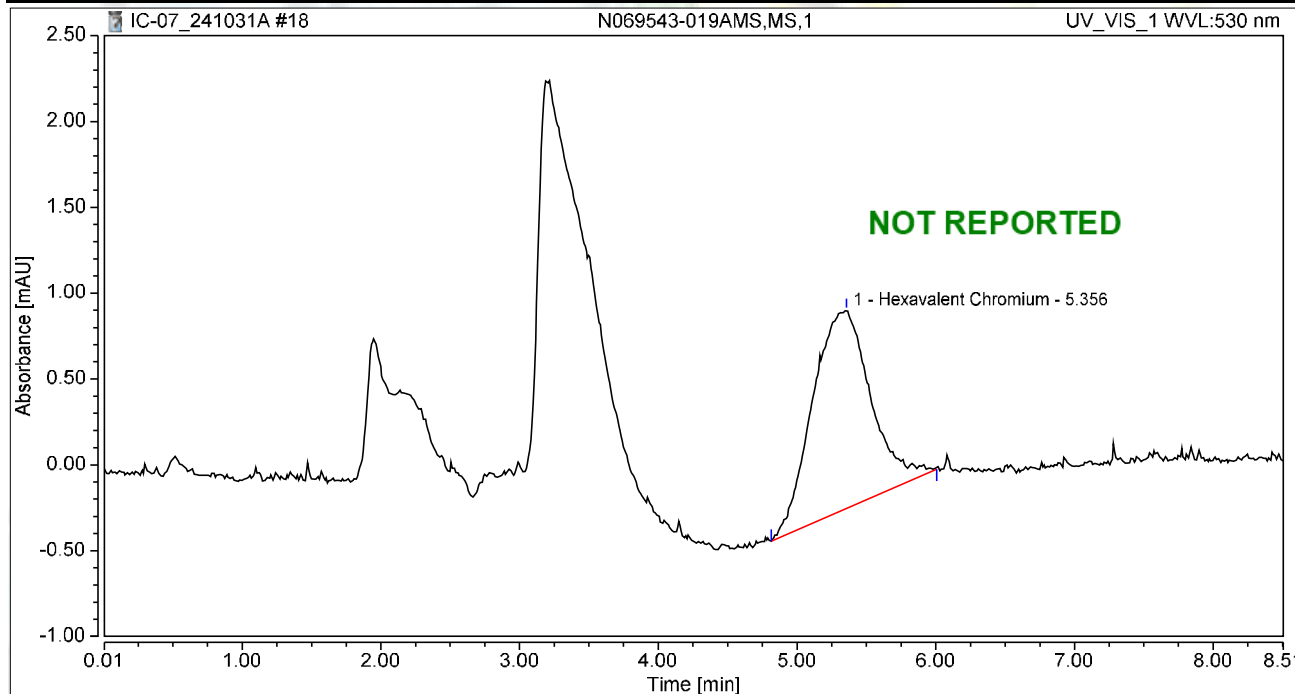
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-019AMS,MS,1	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 11:15	Sample Weight:	1.0000

Chromatogram



Integration Results

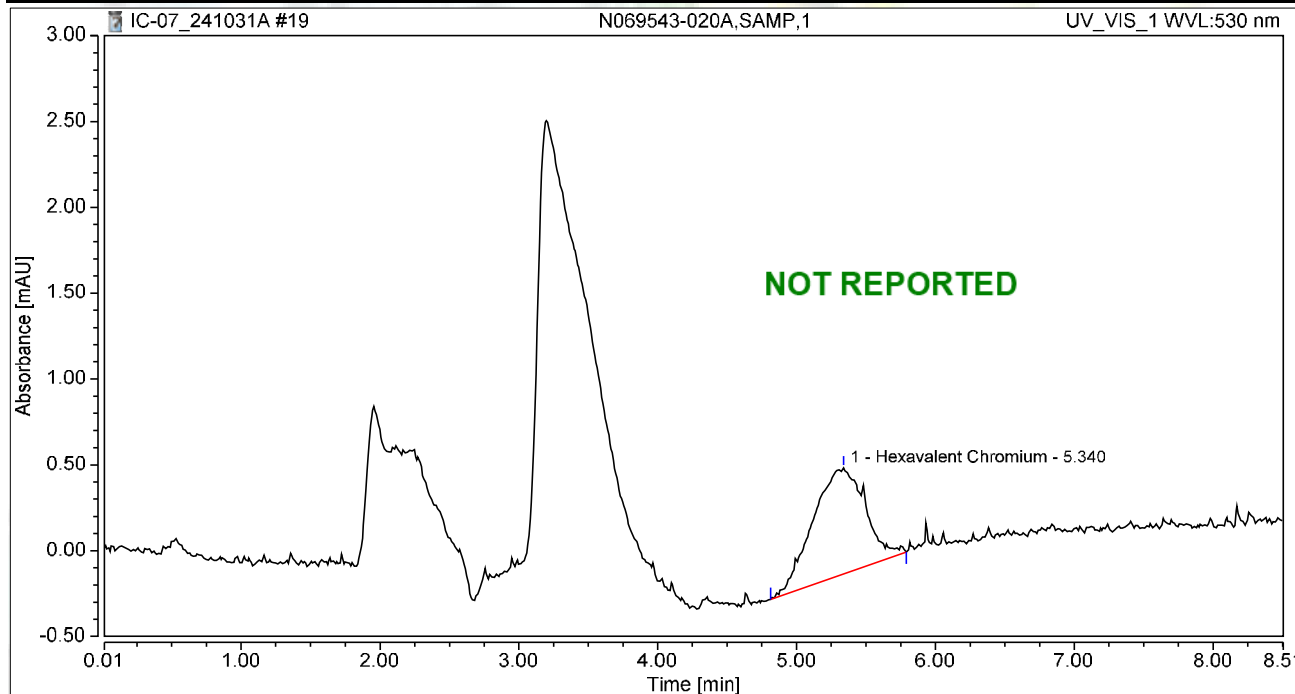
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.356	0.567	1.153	100.00	100.00	1.9972
Total:			0.567	1.153	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-020A,SAMP,1	Run Time (min):	8.49
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 11:24	Sample Weight:	1.0000

Chromatogram



Integration Results

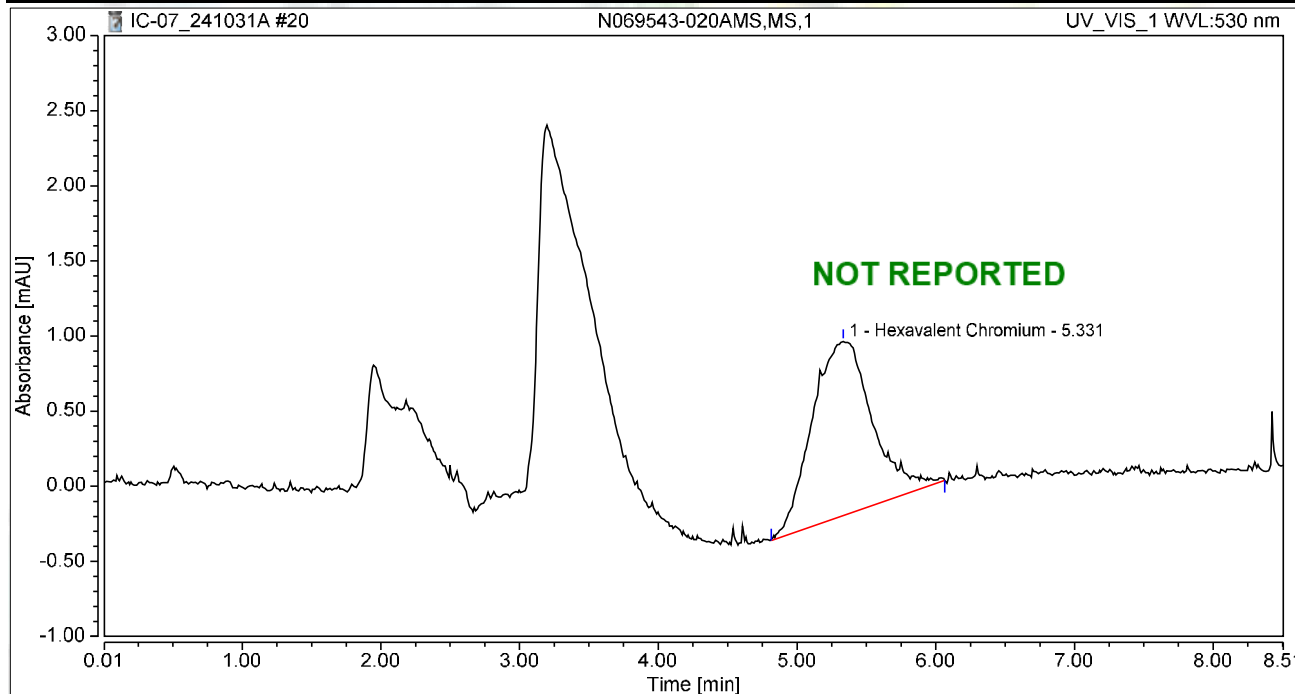
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.340	0.273	0.618	100.00	100.00	0.9625
Total:			0.273	0.618	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-020AMS,MS,1	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 11:33	Sample Weight:	1.0000

Chromatogram



Integration Results

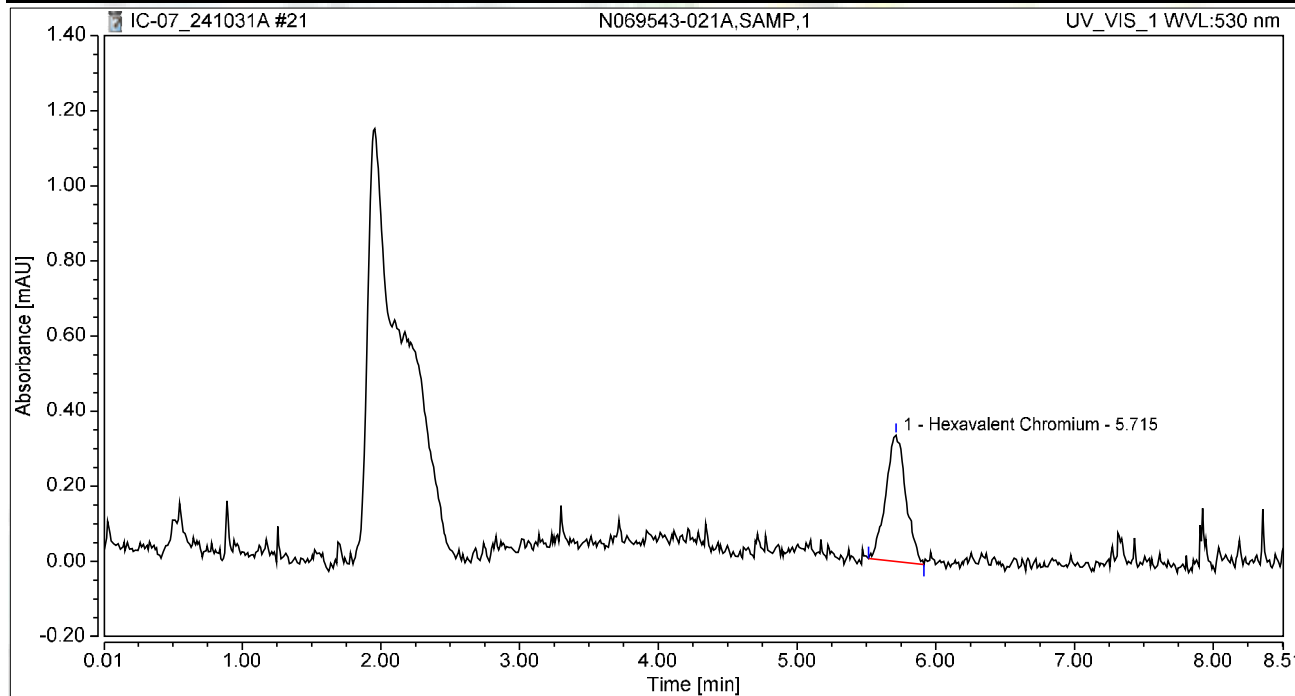
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.331	0.587	1.160	100.00	100.00	2.0685
Total:			0.587	1.160	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-021A,SAMP,1	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 11:43	Sample Weight:	1.0000

Chromatogram



Integration Results

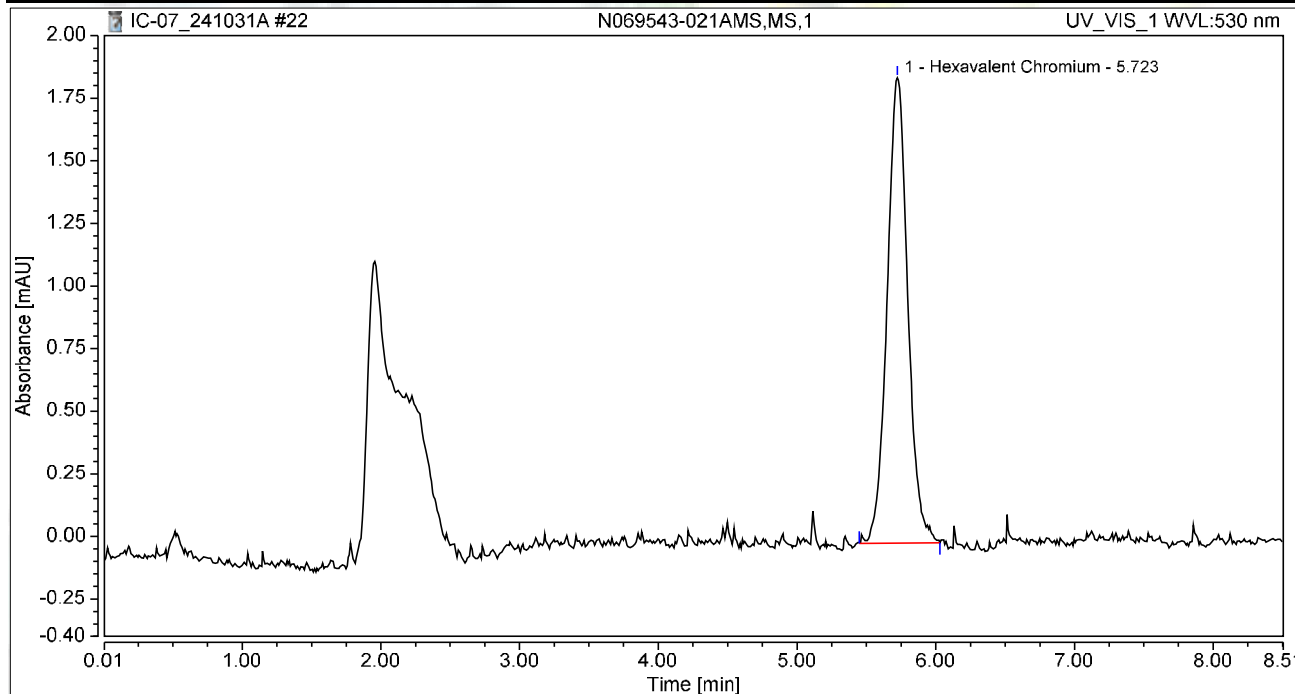
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.057	0.336	100.00	100.00	0.1996
Total:			0.057	0.336	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-021AMS,MS,1	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 11:52	Sample Weight:	1.0000

Chromatogram



Integration Results

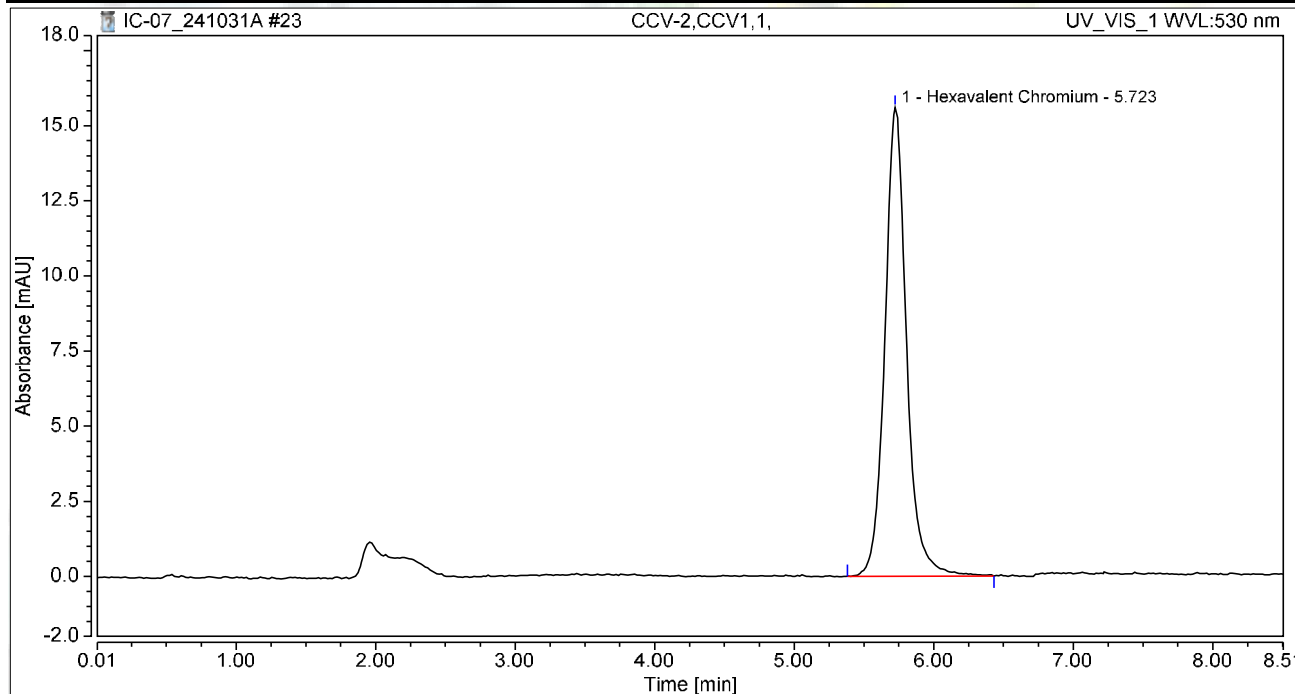
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.321	1.858	100.00	100.00	1.1321
Total:			0.321	1.858	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-2,CCV1,1,	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 12:02	Sample Weight:	1.0000

Chromatogram



Integration Results

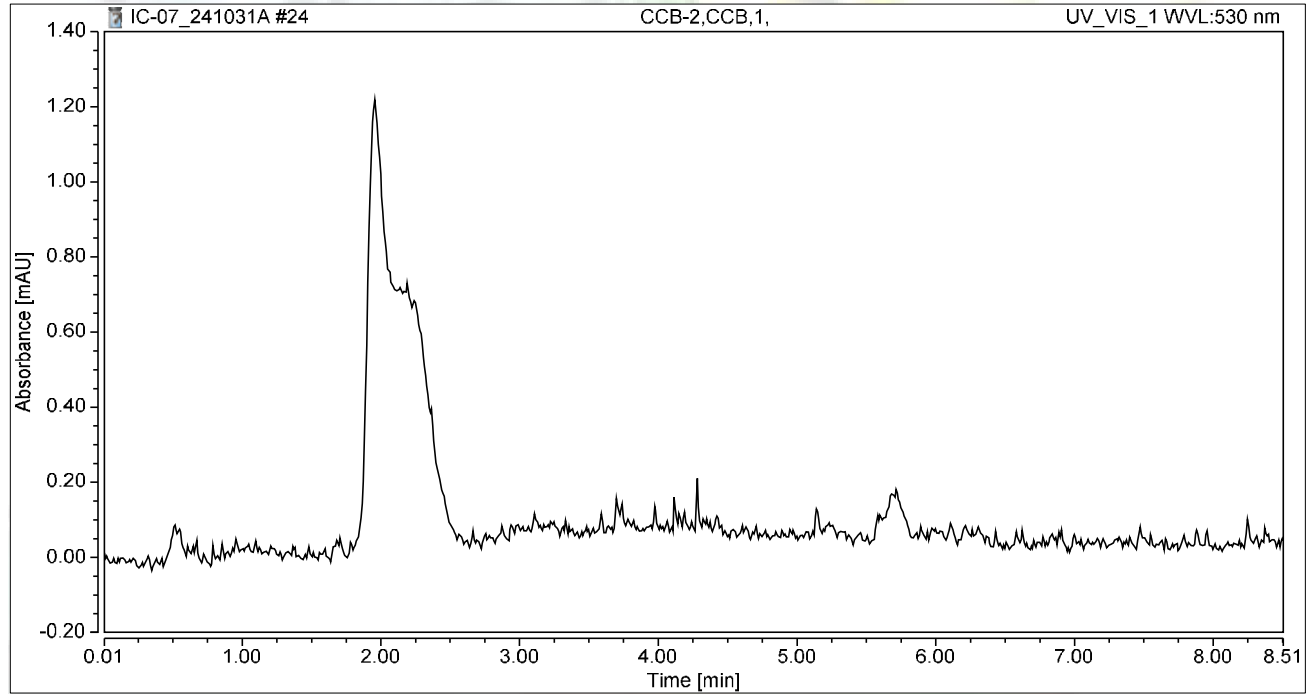
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	2.804	15.603	100.00	100.00	9.8821
Total:			2.804	15.603	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-2,CCB,1,	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 12:11	Sample Weight:	1.0000

Chromatogram



Integration Results

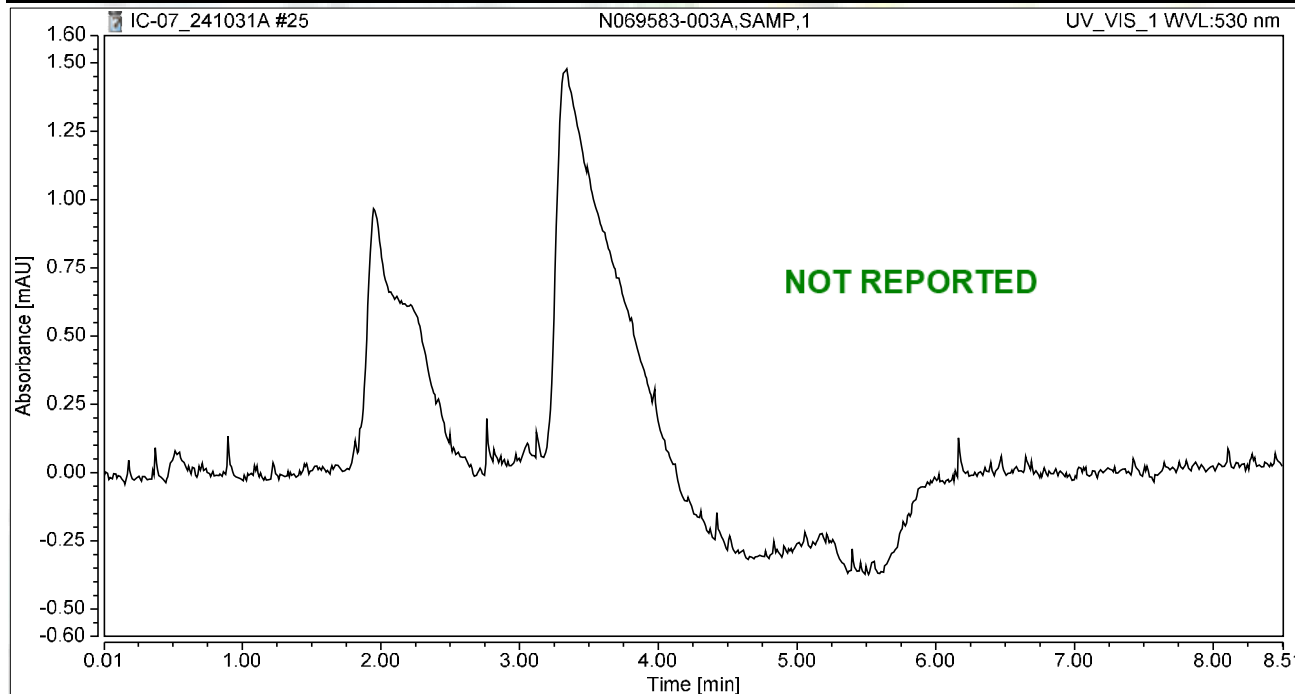
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 12:22	Sample Weight:	1.0000

Chromatogram



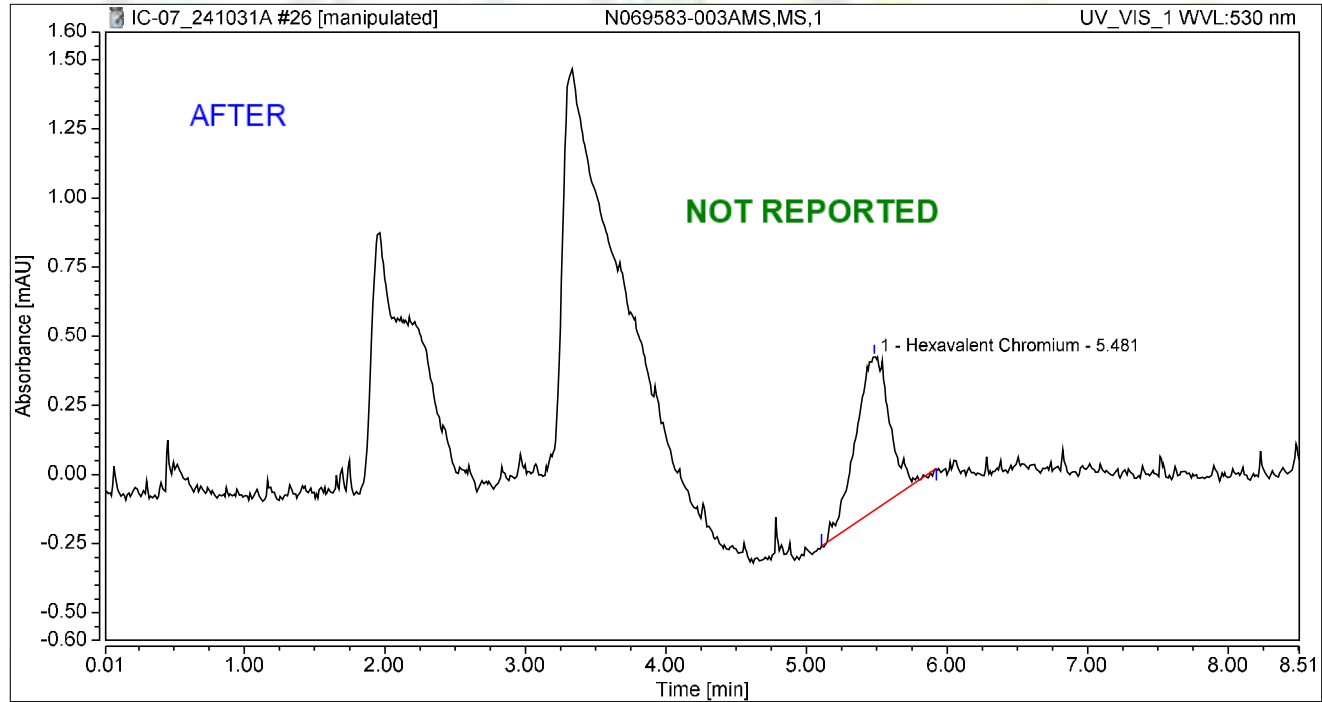
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069583-003AMS,MS,1	Run Time (min): 8.49
Vial Number:	2	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	31/Oct/24 12:33	Sample Weight: 1.0000

Chromatogram



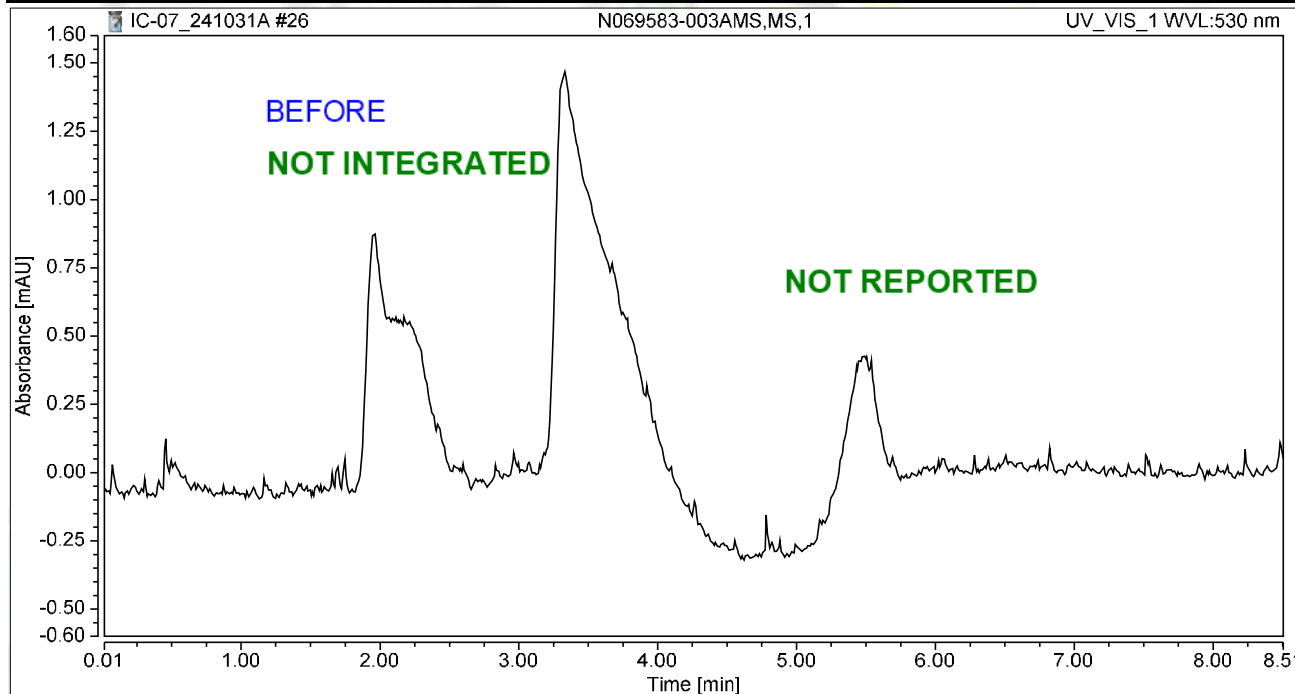
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.481	0.155	0.556	100.00	100.00	0.5470
Total:			0.155	0.556	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-003AMS,MS,1	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 12:33	Sample Weight:	1.0000

Chromatogram



Integration Results

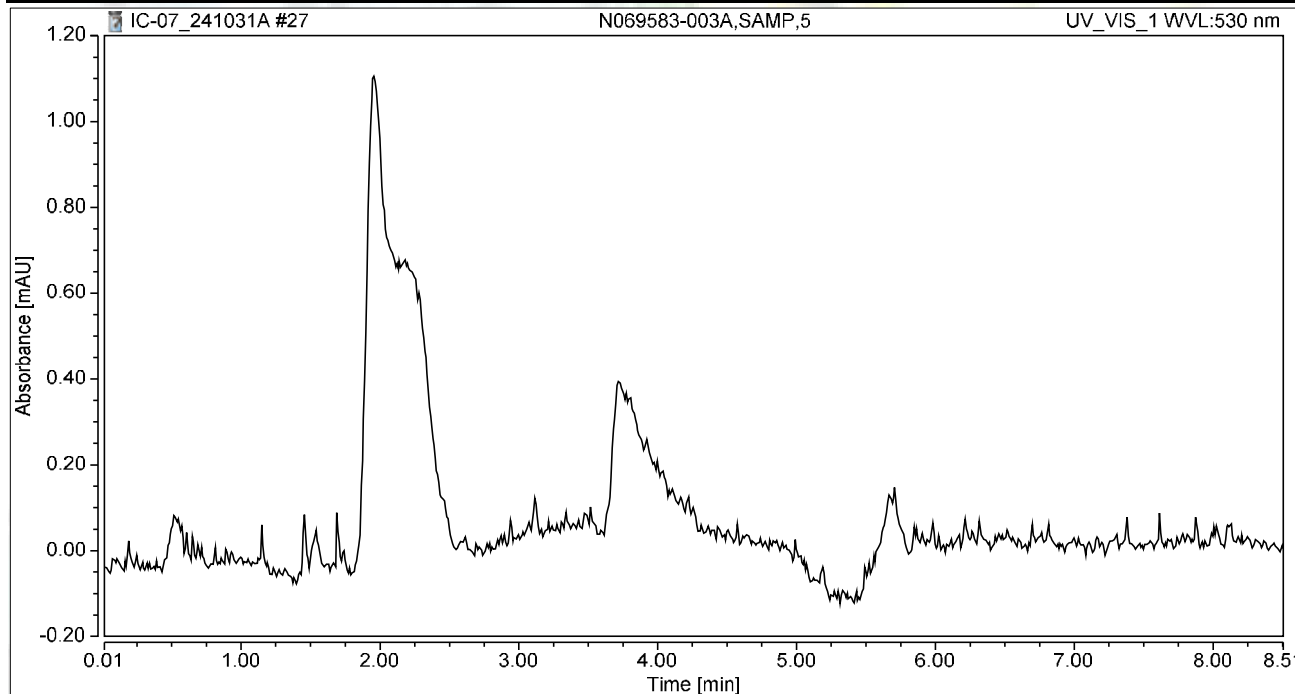
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-003A,SAMP,5	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 12:43	Sample Weight:	1.0000

Chromatogram



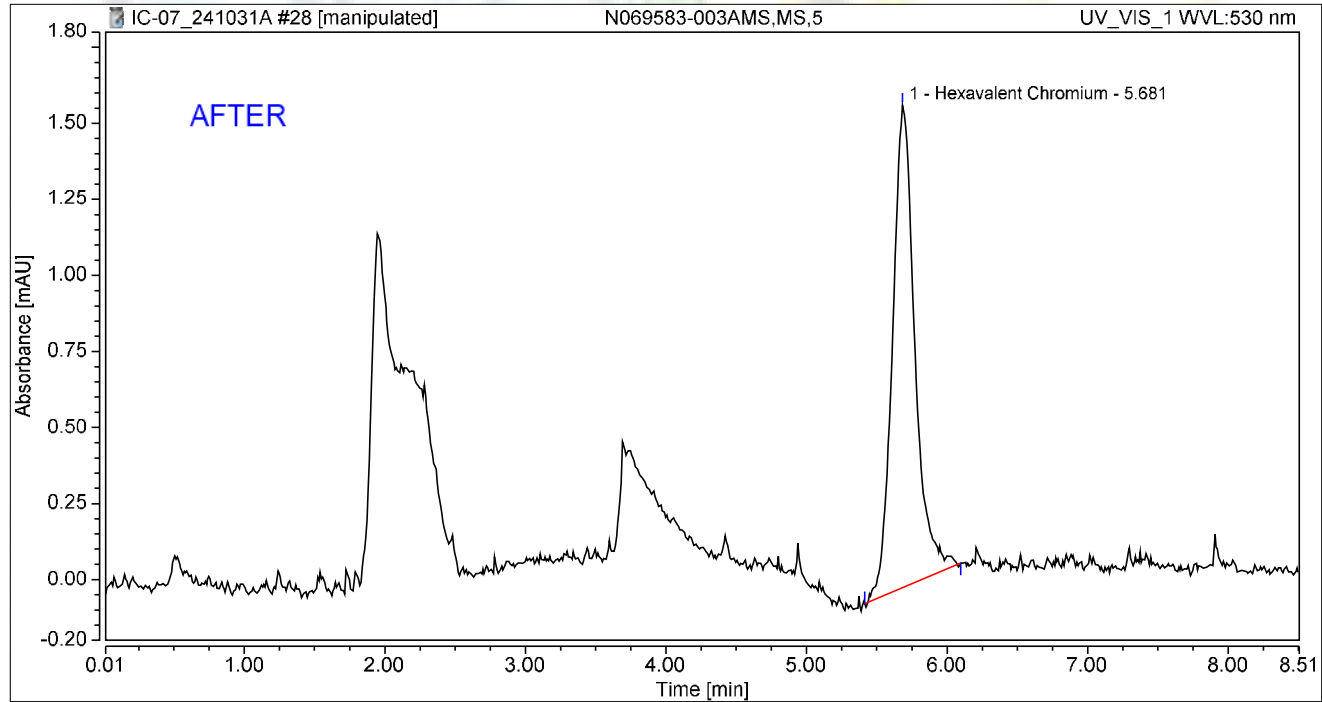
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069583-003AMS,MS,5	Run Time (min): 8.49
Vial Number:	4	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	31/Oct/24 12:52	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.292	1.587	100.00	100.00	1.0289
Total:			0.292	1.587	100.00	100.00	

Reviewed by:

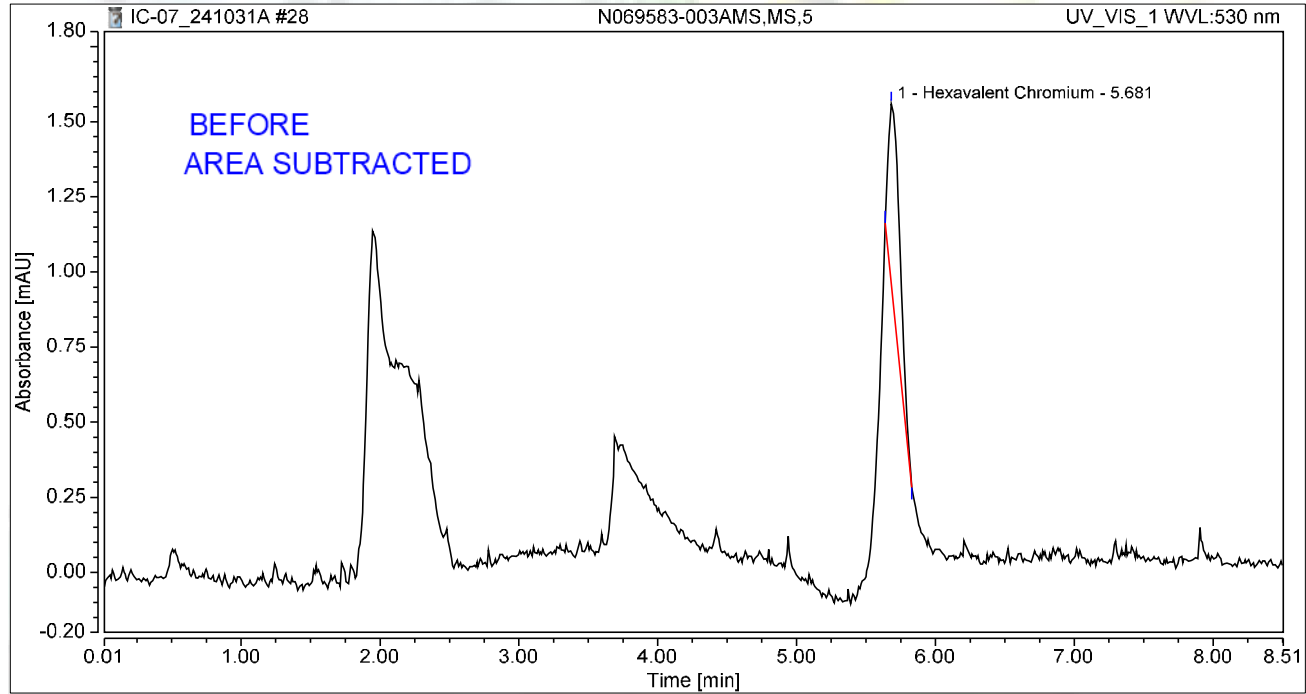
M. Rocha 11/13/2024

Chromatogram and Results

Injection Details

Injection Name:	N069583-003AMS,MS,5	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 12:52	Sample Weight:	1.0000

Chromatogram



Integration Results

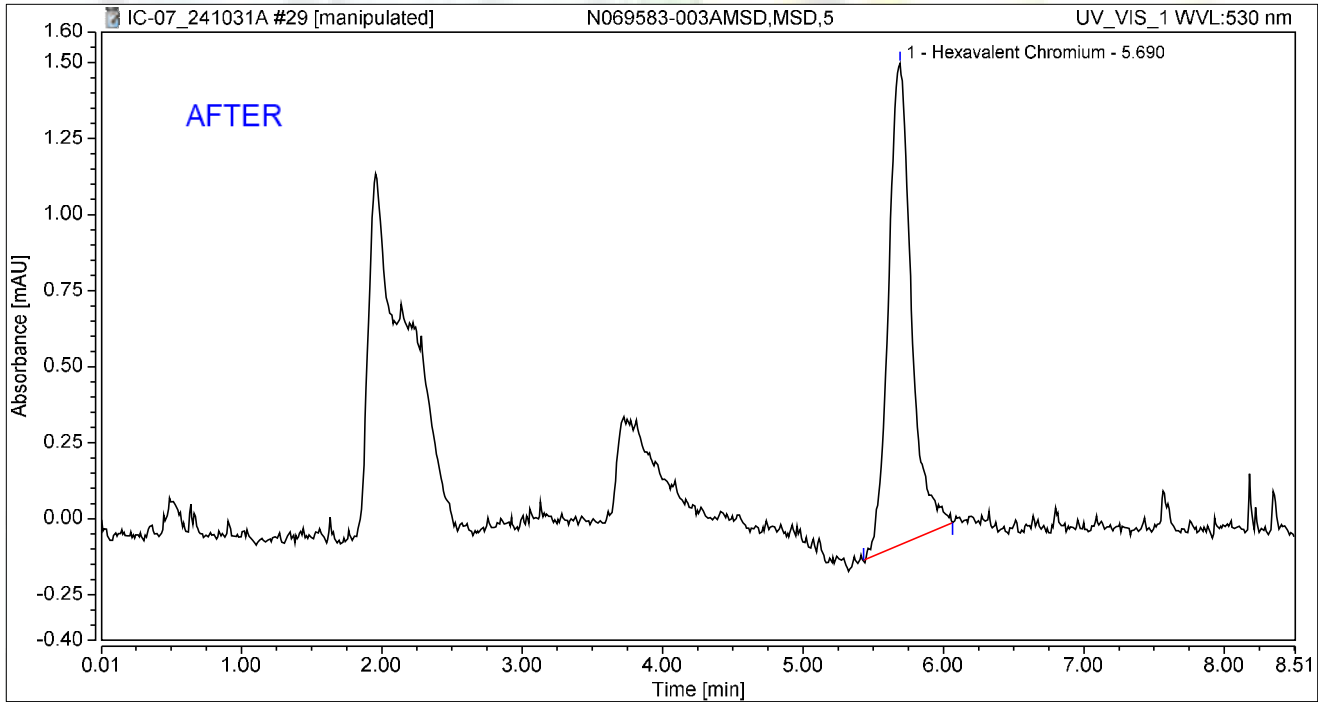
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.061	0.589	100.00	100.00	0.2164
Total:			0.061	0.589	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-003AMSD,MSD,5	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 13:02	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.300	1.582	100.00	100.00	1.0565
Total:			0.300	1.582	100.00	100.00	

Reviewed by:

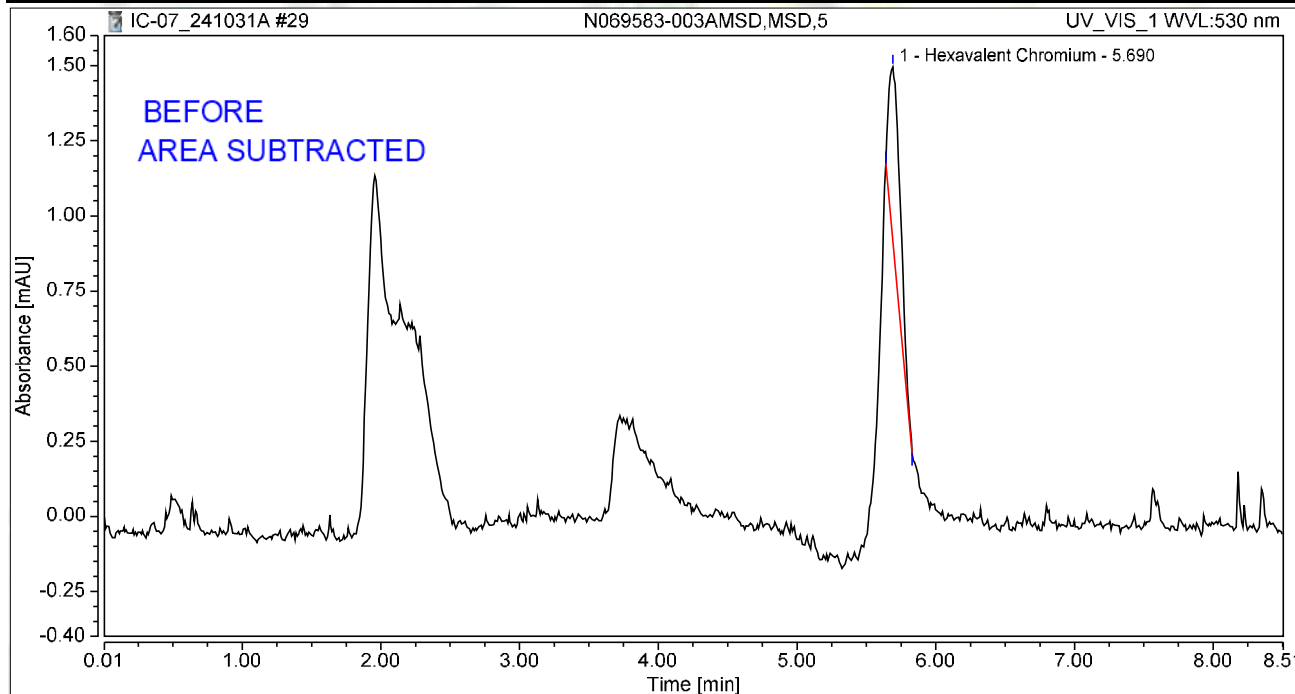
M Rocha 11/13/2024

Chromatogram and Results

Injection Details

Injection Name:	N069583-003AMSD,MSD,5	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 13:02	Sample Weight:	1.0000

Chromatogram



Integration Results

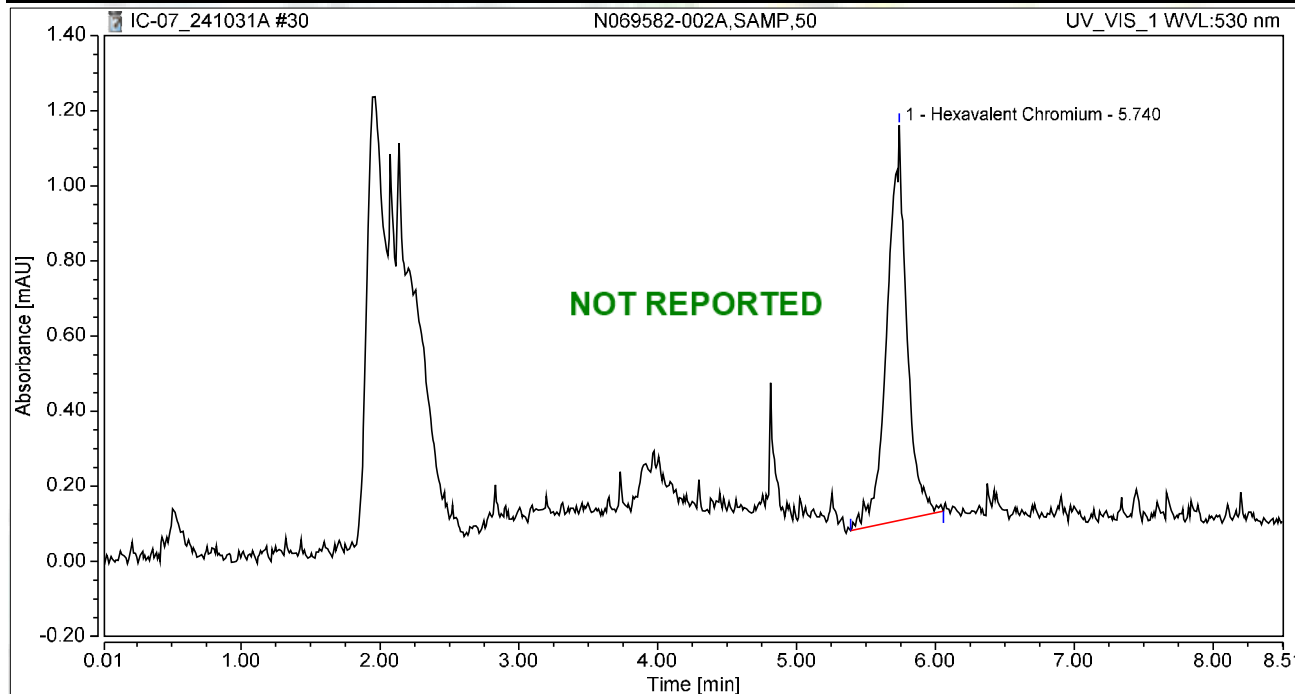
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.057	0.574	100.00	100.00	0.2025
Total:			0.057	0.574	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-002A,SAMP,50	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 13:52	Sample Weight:	1.0000

Chromatogram



Integration Results

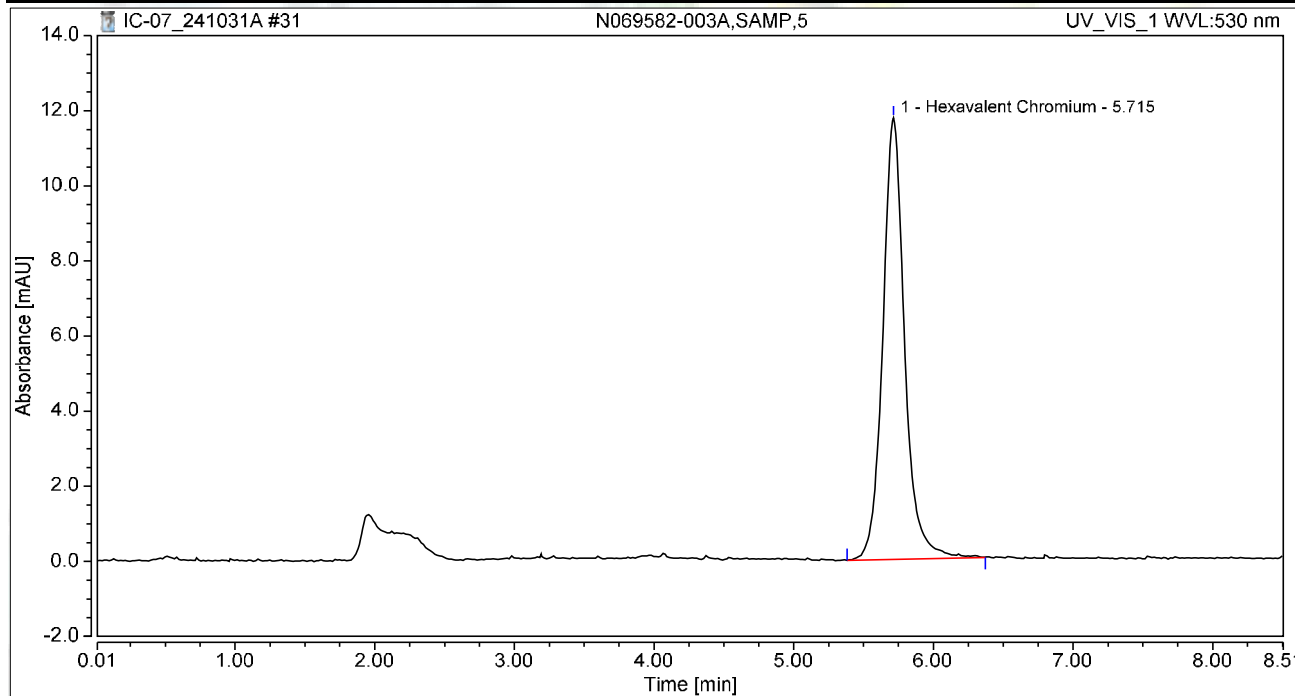
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	0.171	1.052	100.00	100.00	0.6034
Total:			0.171	1.052	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-003A,SAMP,5	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 14:05	Sample Weight:	1.0000

Chromatogram



Integration Results

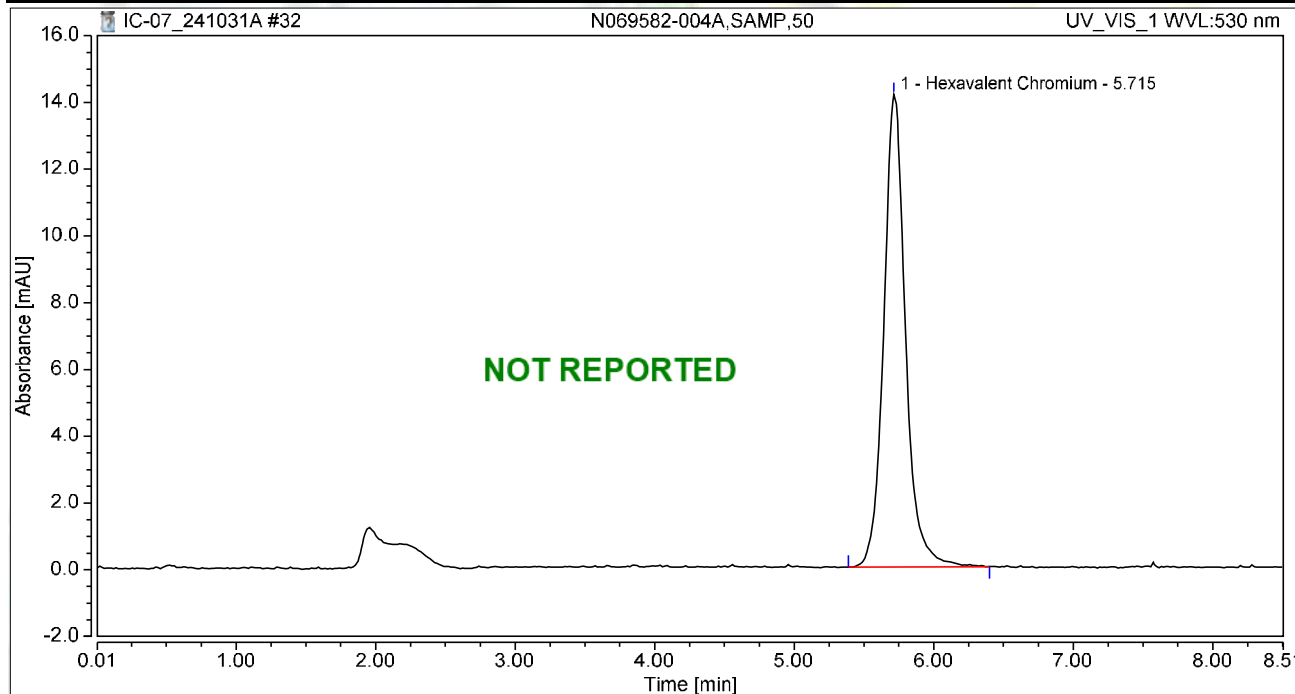
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.133	11.753	100.00	100.00	7.5182
Total:			2.133	11.753	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-004A,SAMP,50	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 14:14	Sample Weight:	1.0000

Chromatogram



Integration Results

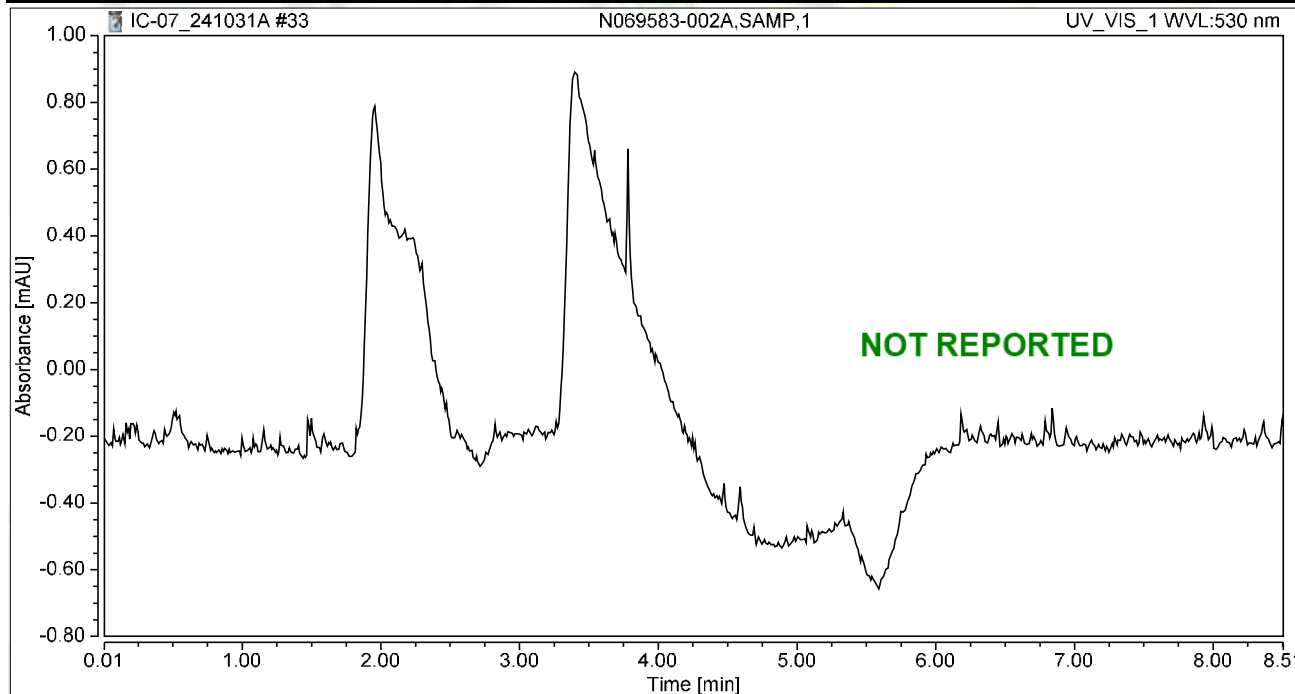
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.555	14.157	100.00	100.00	9.0038
Total:			2.555	14.157	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 14:24	Sample Weight:	1.0000

Chromatogram



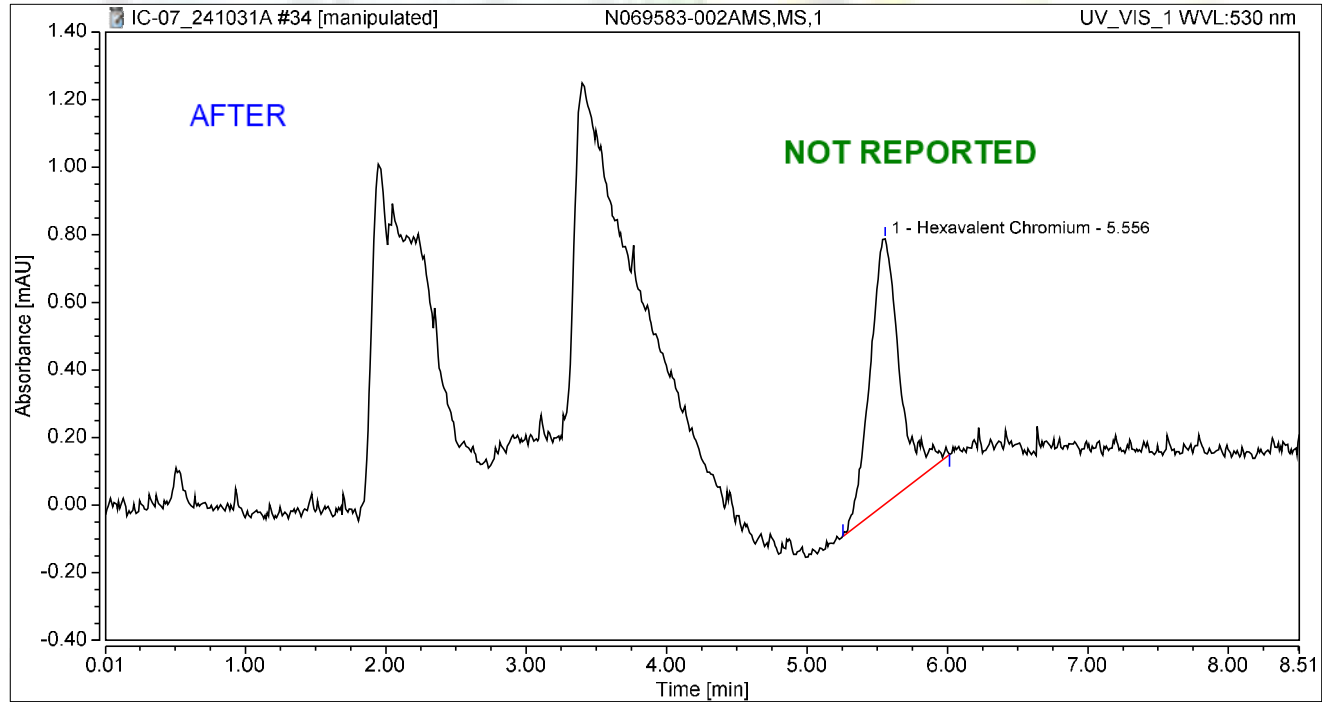
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069583-002AMS,MS,1	Run Time (min): 8.50
Vial Number:	5	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	31/Oct/24 14:33	Sample Weight: 1.0000

Chromatogram



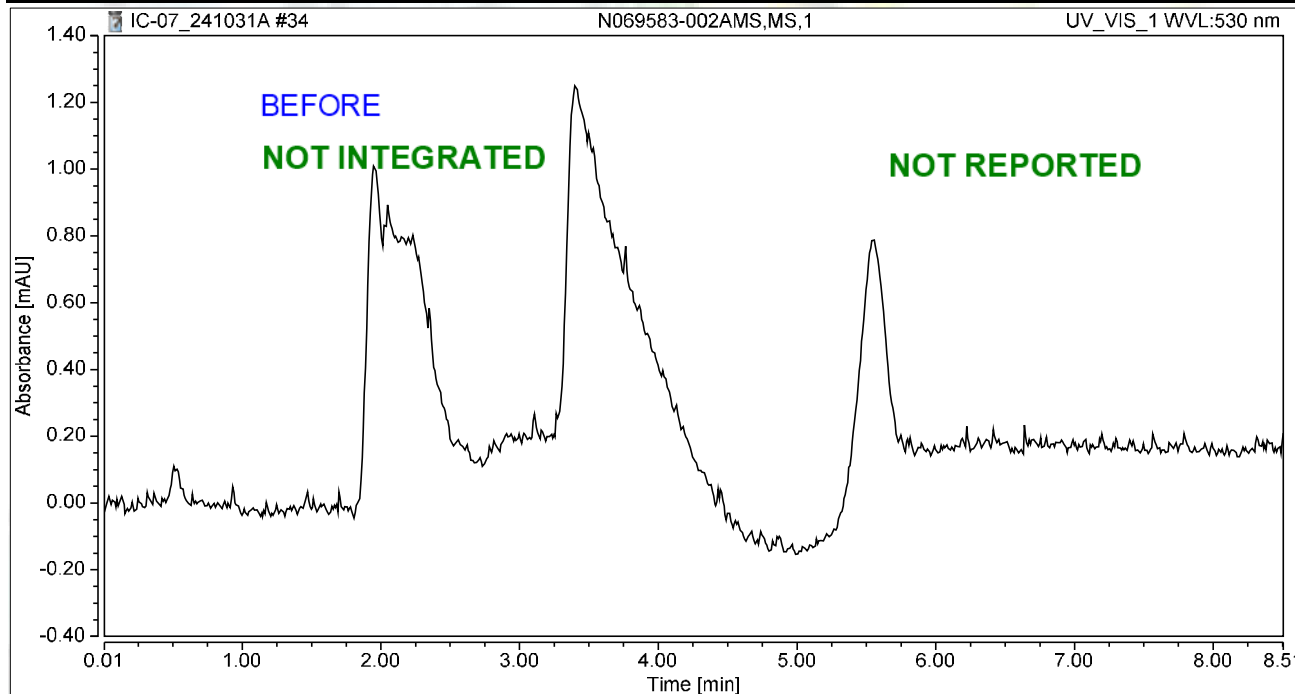
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.556	0.193	0.784	100.00	100.00	0.6794
Total:			0.193	0.784	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 14:33	Sample Weight:	1.0000

Chromatogram



Integration Results

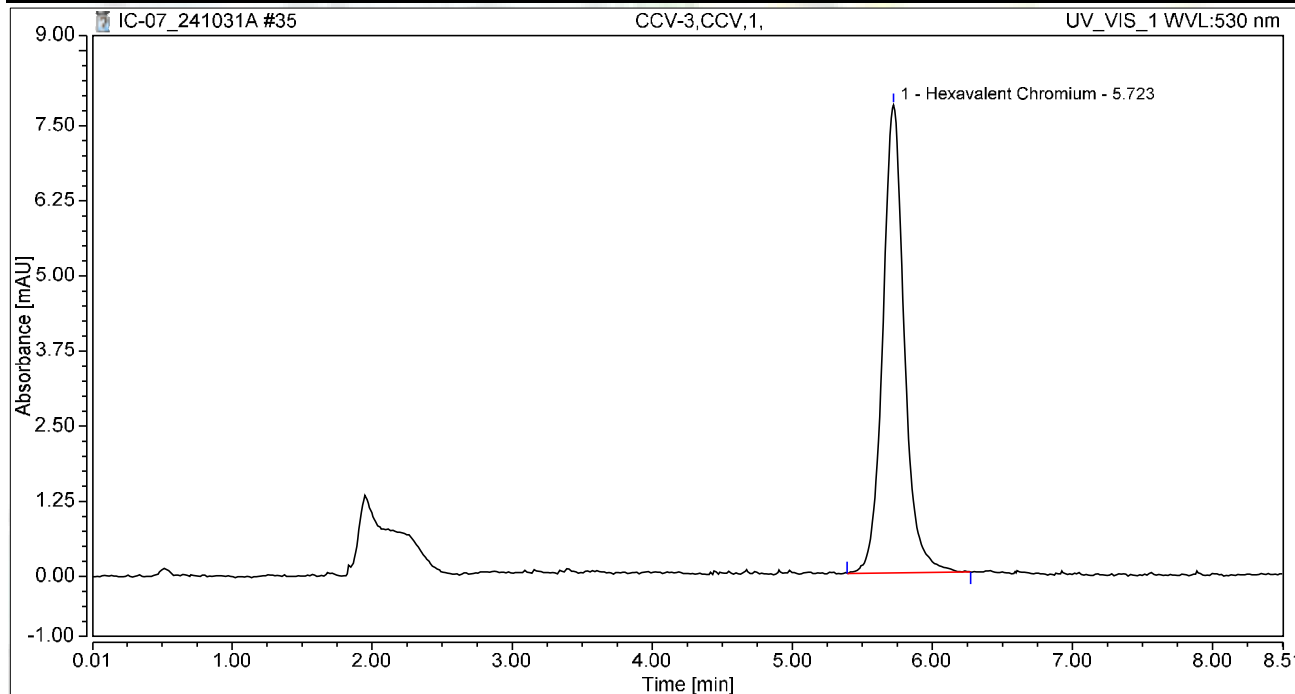
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-3,CCV,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 14:43	Sample Weight:	1.0000

Chromatogram



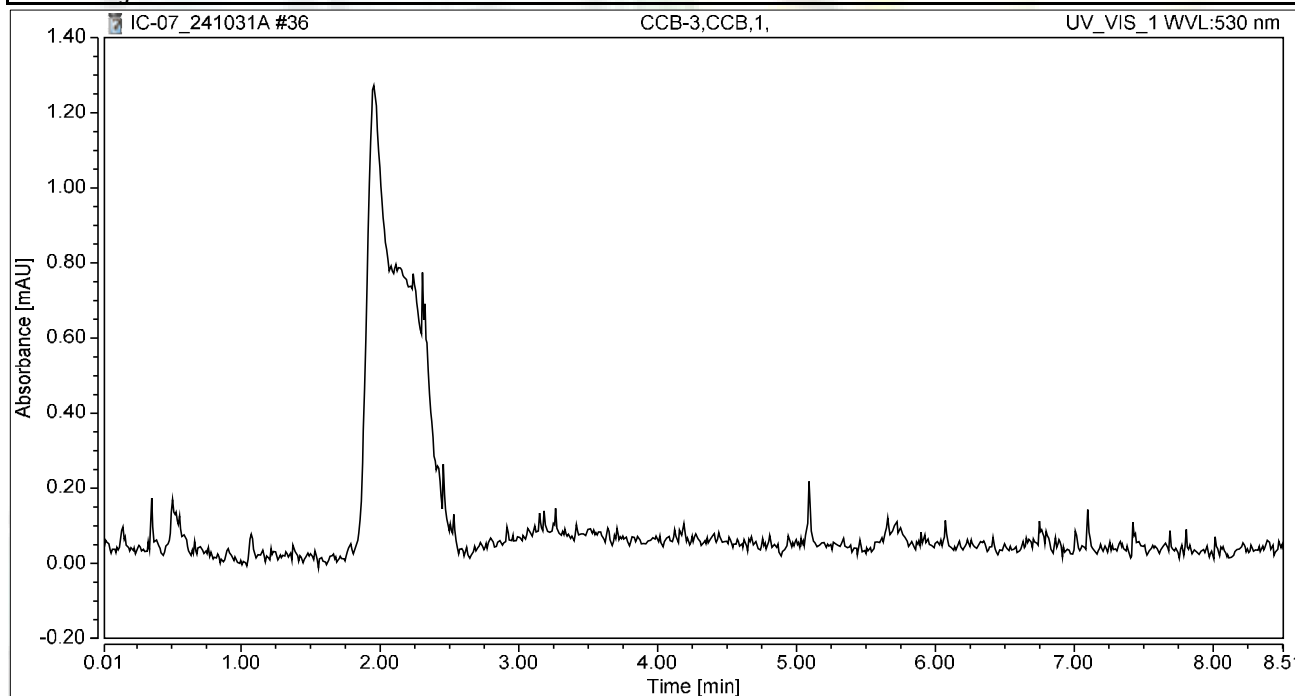
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	1.393	7.787	100.00	100.00	4.9088
Total:			1.393	7.787	100.00	100.00	

Chromatogram and Results

Injection Details			
<i>Injection Name:</i>	CCB-3,CCB,1,	<i>Run Time (min):</i>	8.49
<i>Vial Number:</i>	7	<i>Injection Volume:</i>	1000.00
<i>Injection Type:</i>	Unknown	<i>Channel:</i>	UV_VIS_1
<i>Calibration Level:</i>		<i>Wavelength:</i>	530.0
<i>Instrument Method:</i>	Hex Chrom 4 mm	<i>Bandwidth:</i>	n.a.
<i>Processing Method:</i>	241028A_IC-07_Cr6_218_6_HIGH	<i>Dilution Factor:</i>	1.0000
<i>Injection Date/Time:</i>	31/Oct/24 14:52	<i>Sample Weight:</i>	1.0000

Chromatogram



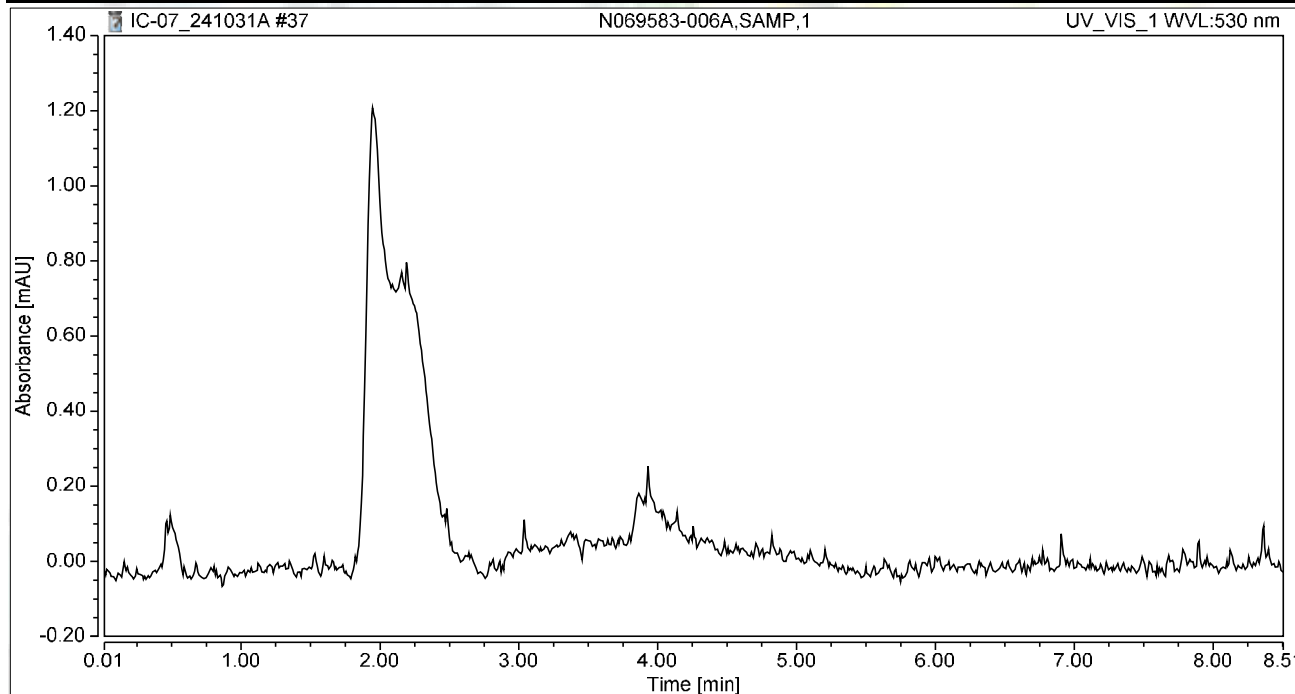
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-006A,SAMP,1	Run Time (min):	8.49
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 15:02	Sample Weight:	1.0000

Chromatogram



Integration Results

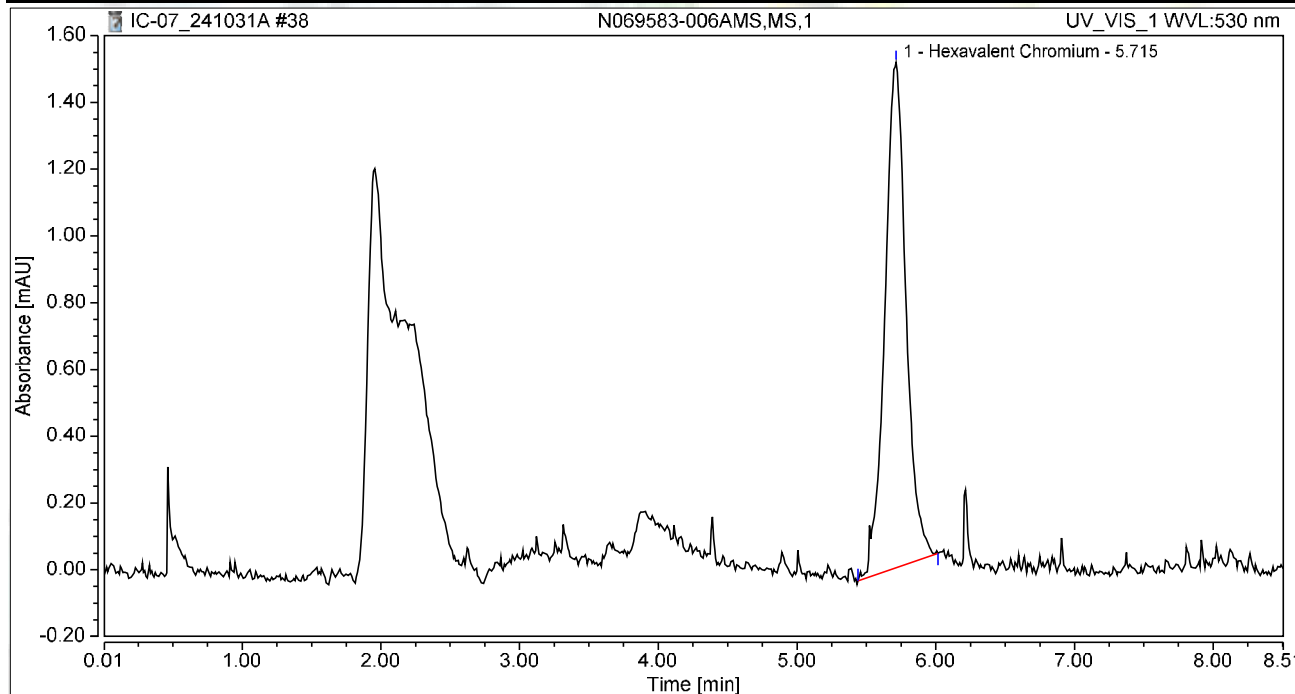
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-006AMS,MS,1	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 15:11	Sample Weight:	1.0000

Chromatogram



Integration Results

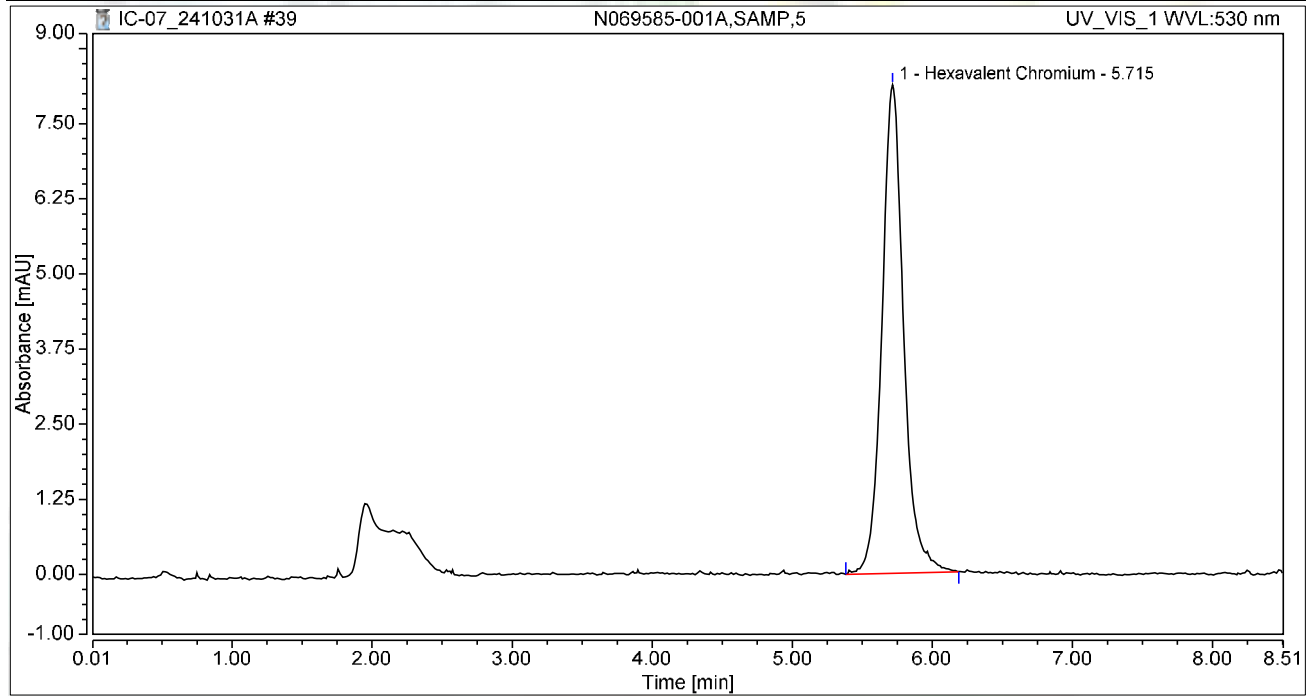
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.268	1.513	100.00	100.00	0.9431
Total:			0.268	1.513	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069585-001A,SAMP,5	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 15:21	Sample Weight:	1.0000

Chromatogram



Integration Results

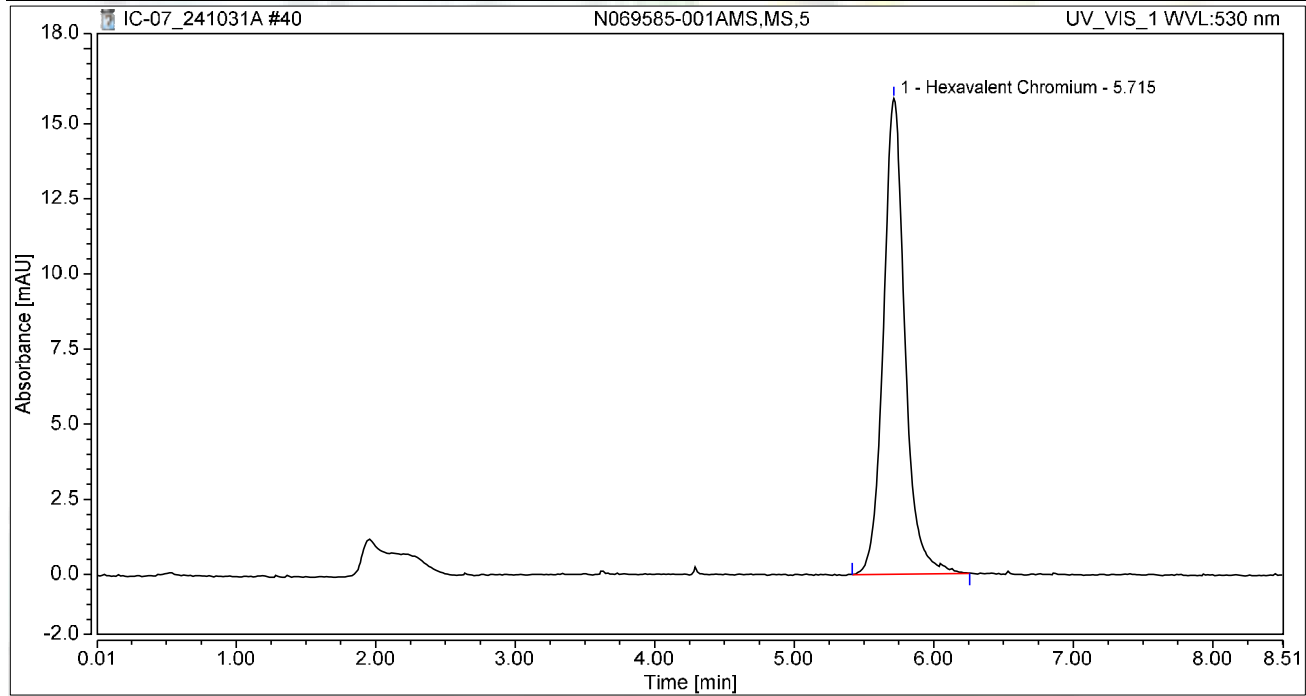
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	1.457	8.127	100.00	100.00	5.1353
Total:			1.457	8.127	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069585-001AMS,MS,5	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 15:30	Sample Weight:	1.0000

Chromatogram



Integration Results

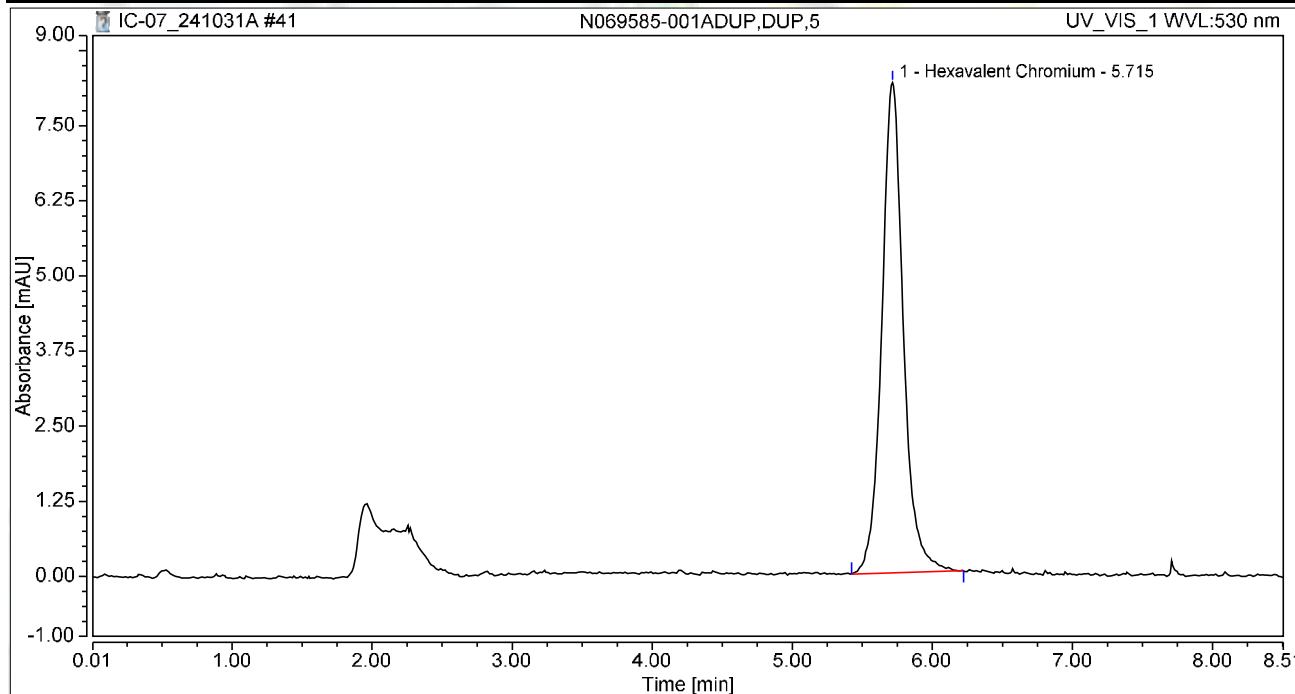
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.832	15.835	100.00	100.00	9.9807
Total:			2.832	15.835	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069585-001ADUP,DUP,5	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 15:39	Sample Weight:	1.0000

Chromatogram



Integration Results

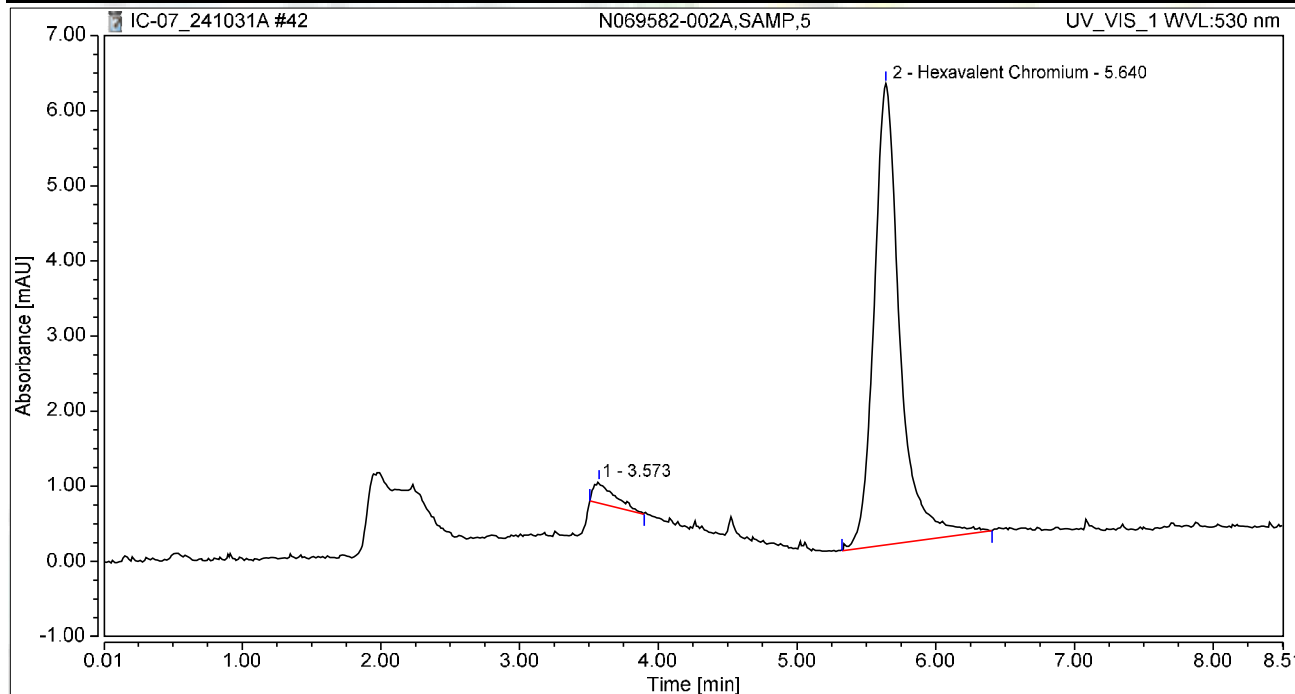
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	1.458	8.160	100.00	100.00	5.1369
Total:			1.458	8.160	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-002A,SAMP,5	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 16:04	Sample Weight:	1.0000

Chromatogram



Integration Results

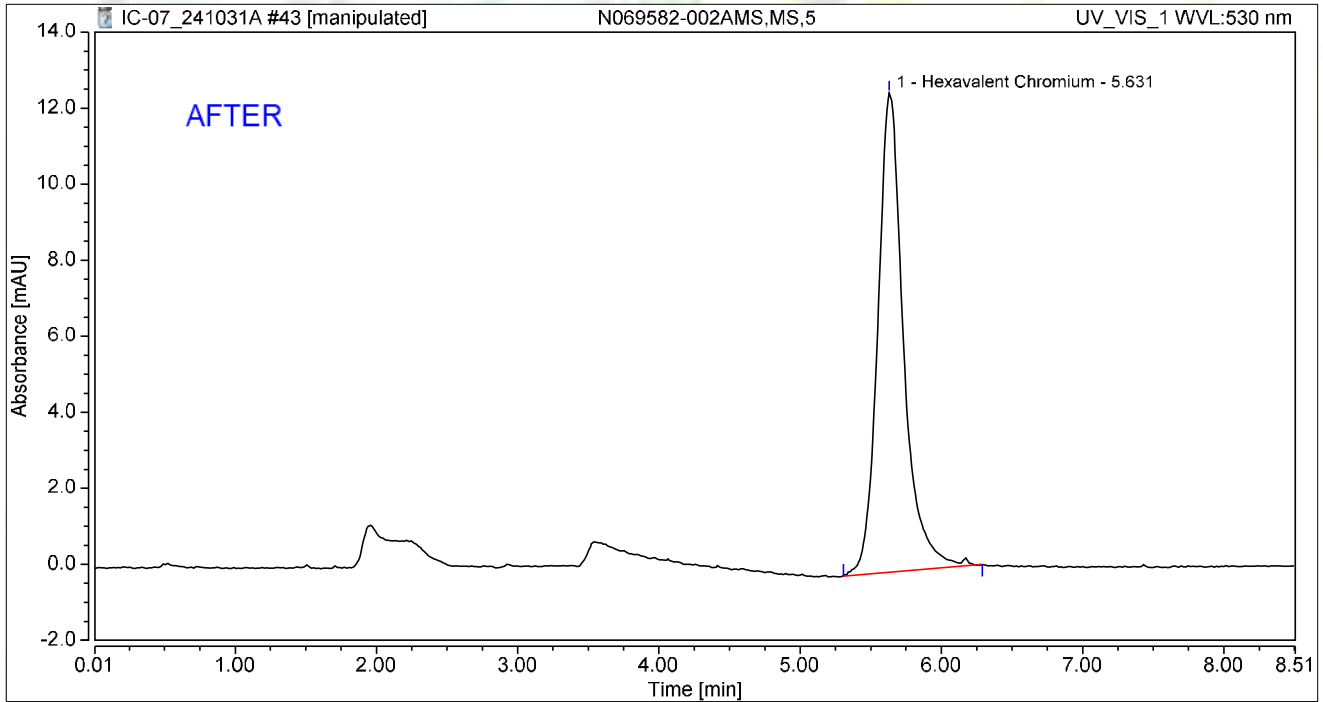
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.573	0.051	0.284	3.71	4.42	n.a.
2	Hexavalent Chromium	5.640	1.326	6.143	96.29	95.58	4.6721
Total:			1.377	6.427	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 16:16	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.631	2.657	12.603	100.00	100.00	9.3634
Total:			2.657	12.603	100.00	100.00	

Reviewed by:

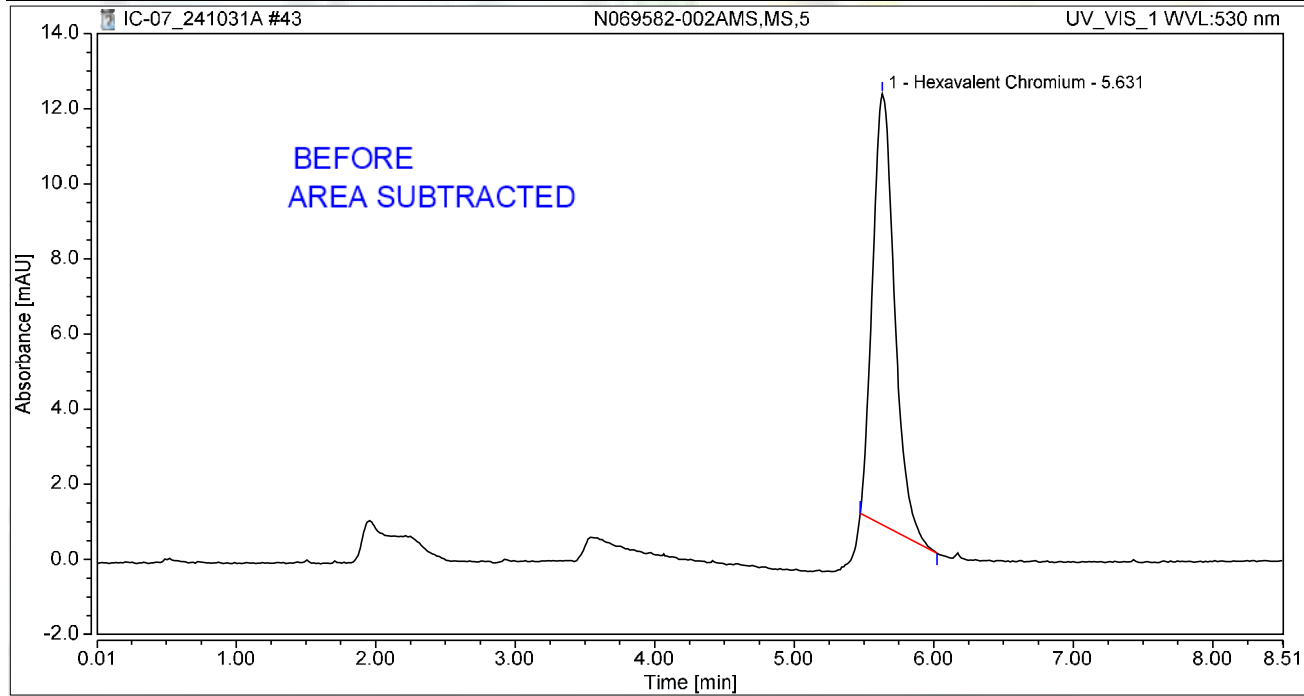
d/Rocha 11/13/2024

Chromatogram and Results

Injection Details

Injection Name:	N069582-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 16:16	Sample Weight:	1.0000

Chromatogram



Integration Results

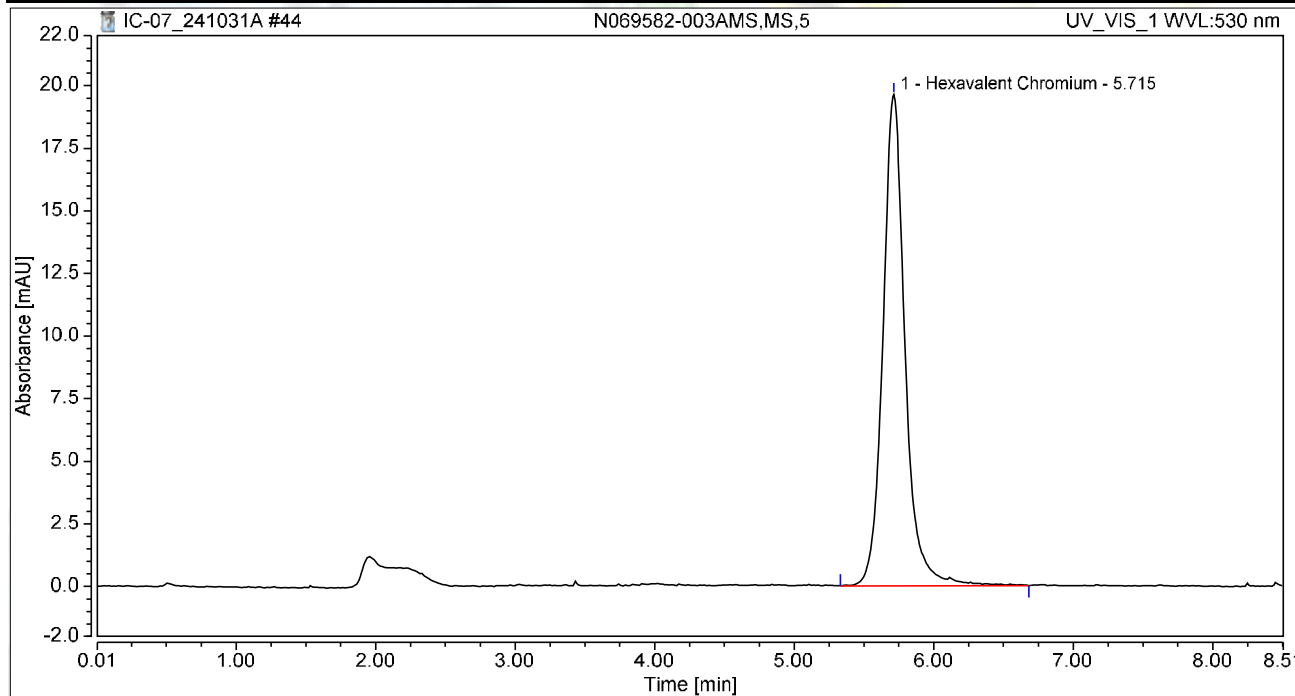
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.631	2.099	11.477	100.00	100.00	7.3957
Total:			2.099	11.477	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-003AMS,MS,5	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 16:26	Sample Weight:	1.0000

Chromatogram



Integration Results

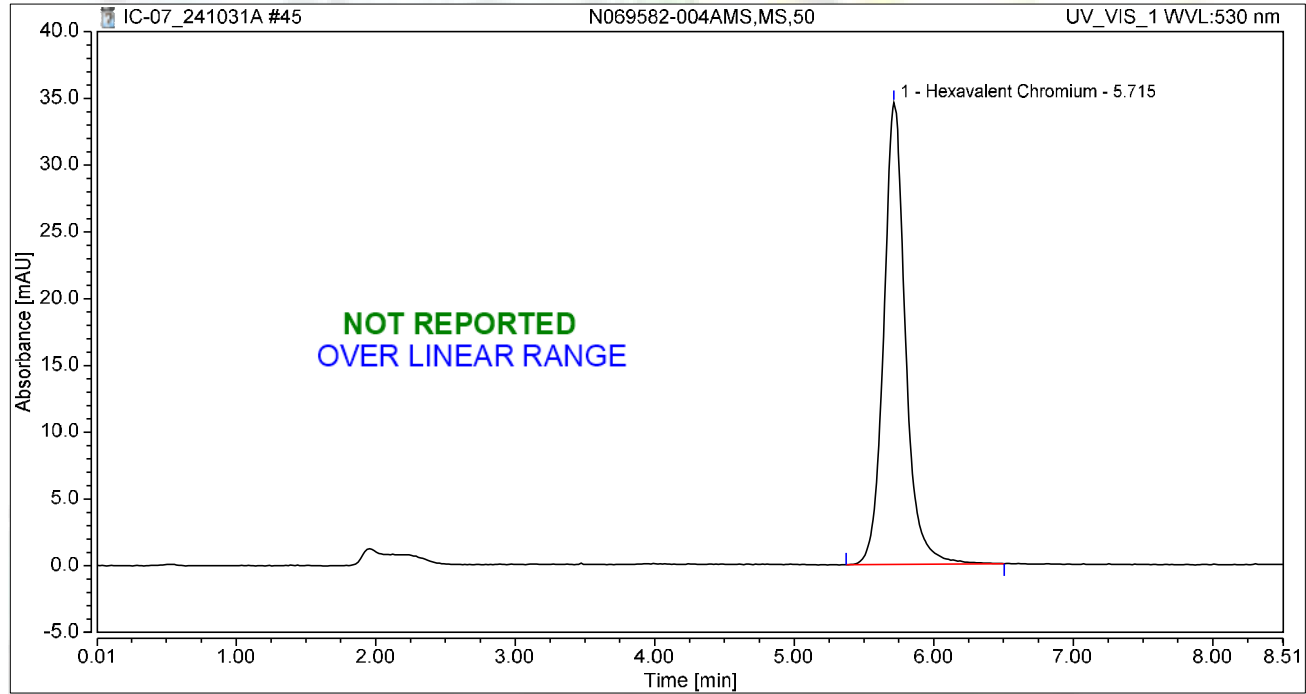
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	3.600	19.616	100.00	100.00	12.6882
Total:			3.600	19.616	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-004AMS,MS,50	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 16:35	Sample Weight:	1.0000

Chromatogram



Integration Results

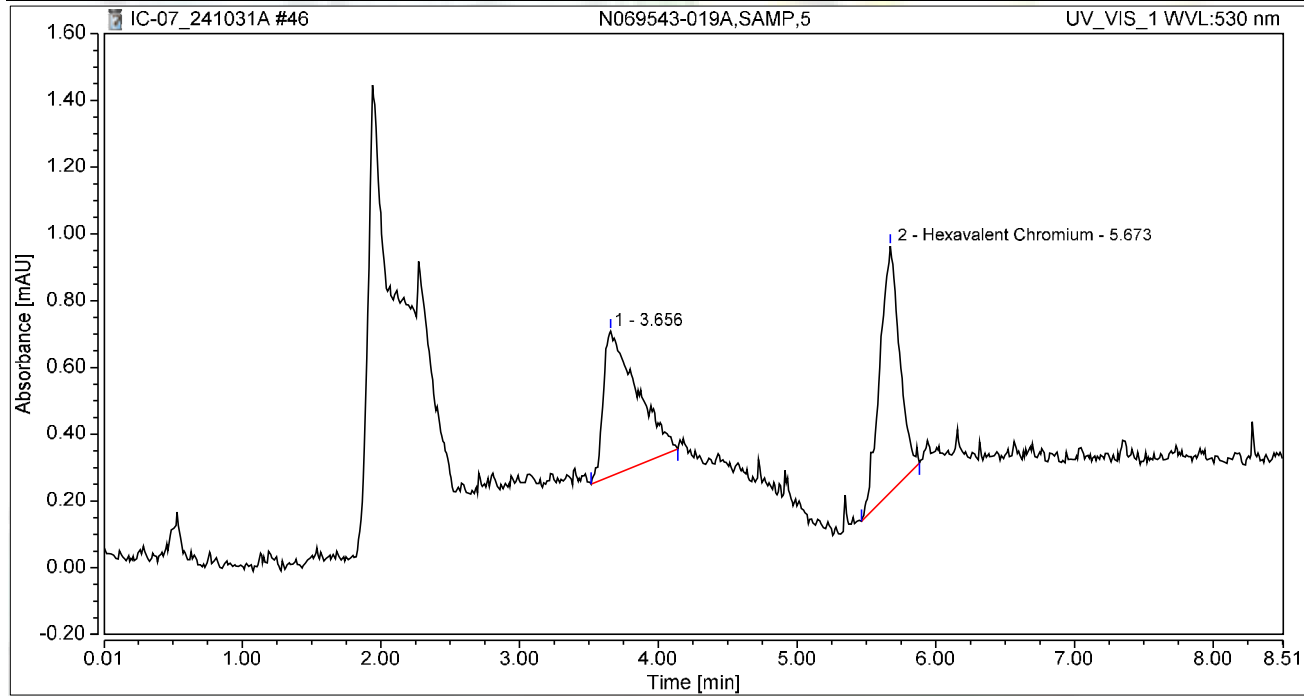
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	6.229	34.594	100.00	100.00	21.9538
Total:			6.229	34.594	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-019A,SAMP,5	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 16:44	Sample Weight:	1.0000

Chromatogram



Integration Results

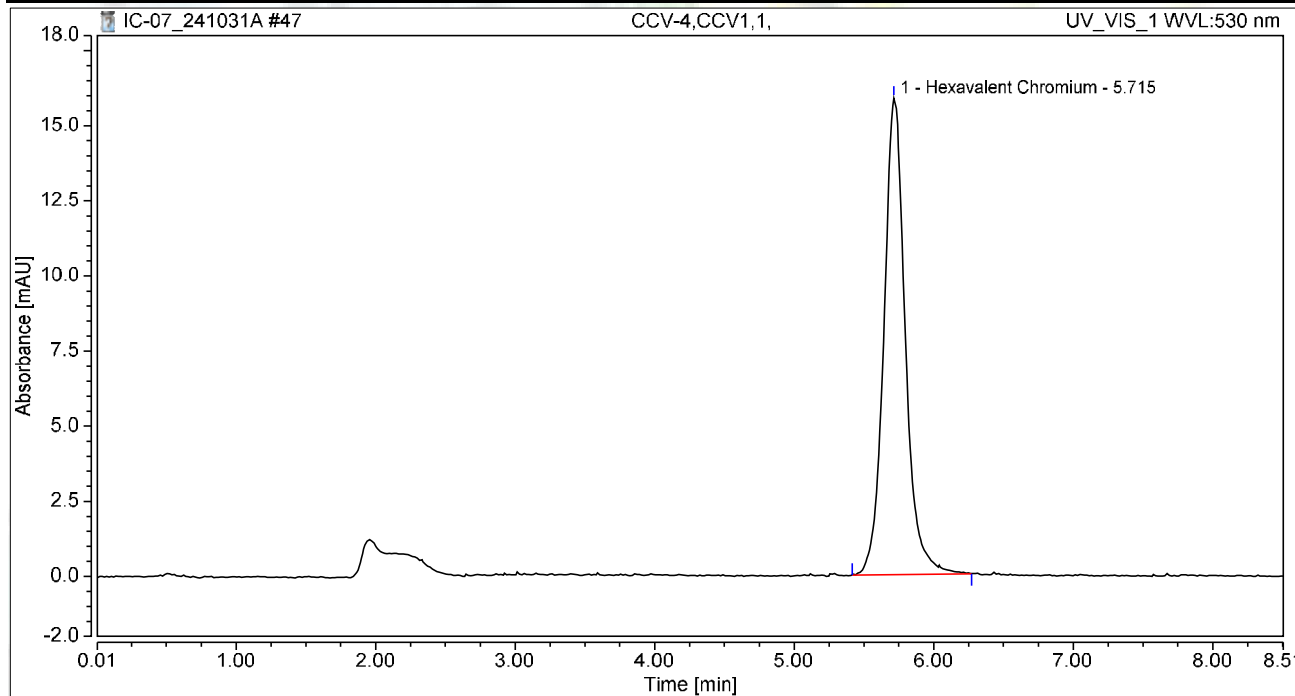
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.656	0.121	0.435	49.93	37.08	n.a.
2	Hexavalent Chromium	5.673	0.122	0.738	50.07	62.92	0.4291
Total:			0.243	1.172	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-4,CCV1,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 16:54	Sample Weight:	1.0000

Chromatogram



Integration Results

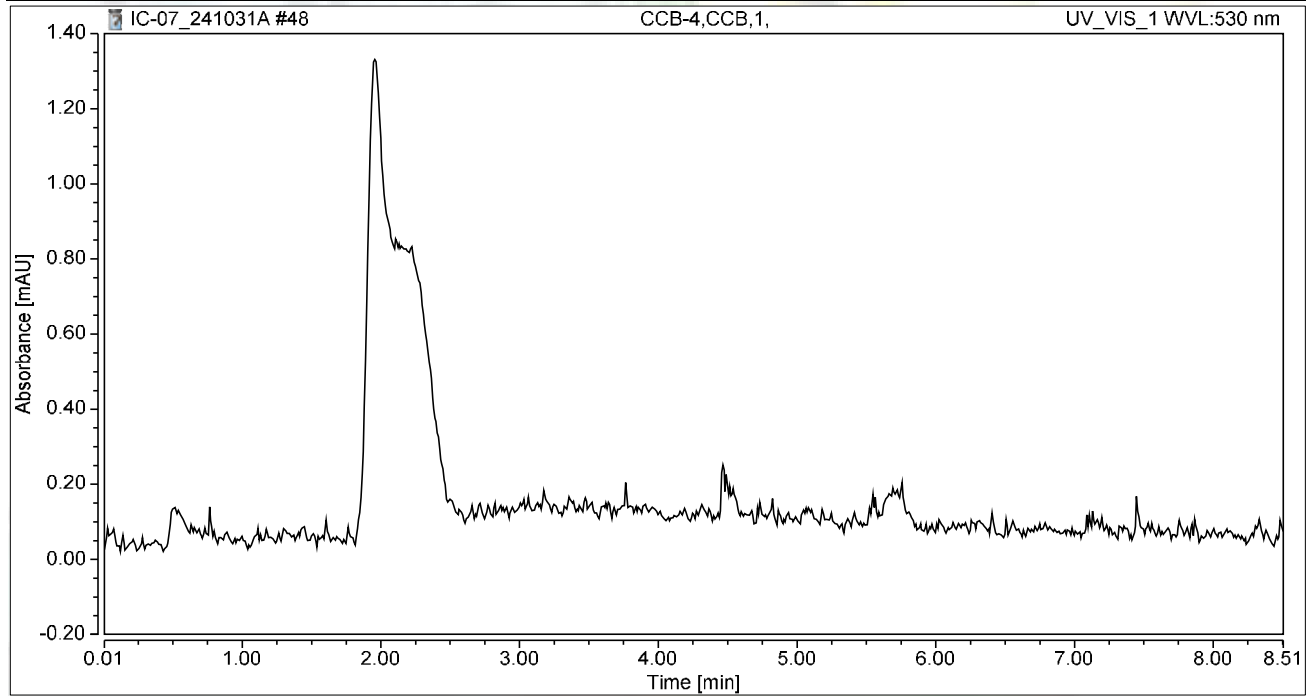
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.828	15.858	100.00	100.00	9.9671
Total:			2.828	15.858	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-4,CCB,1,	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 17:03	Sample Weight:	1.0000

Chromatogram



Integration Results

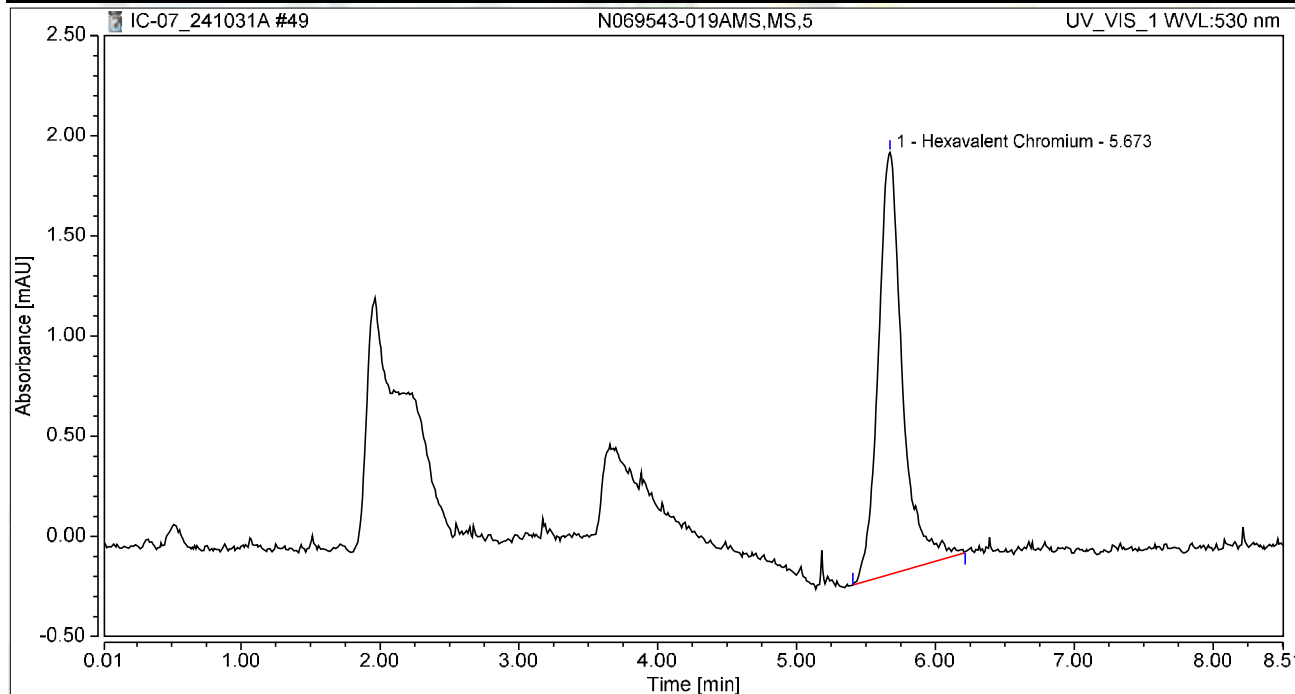
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-019AMS,MS,5	Run Time (min):	8.49
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 17:13	Sample Weight:	1.0000

Chromatogram



Integration Results

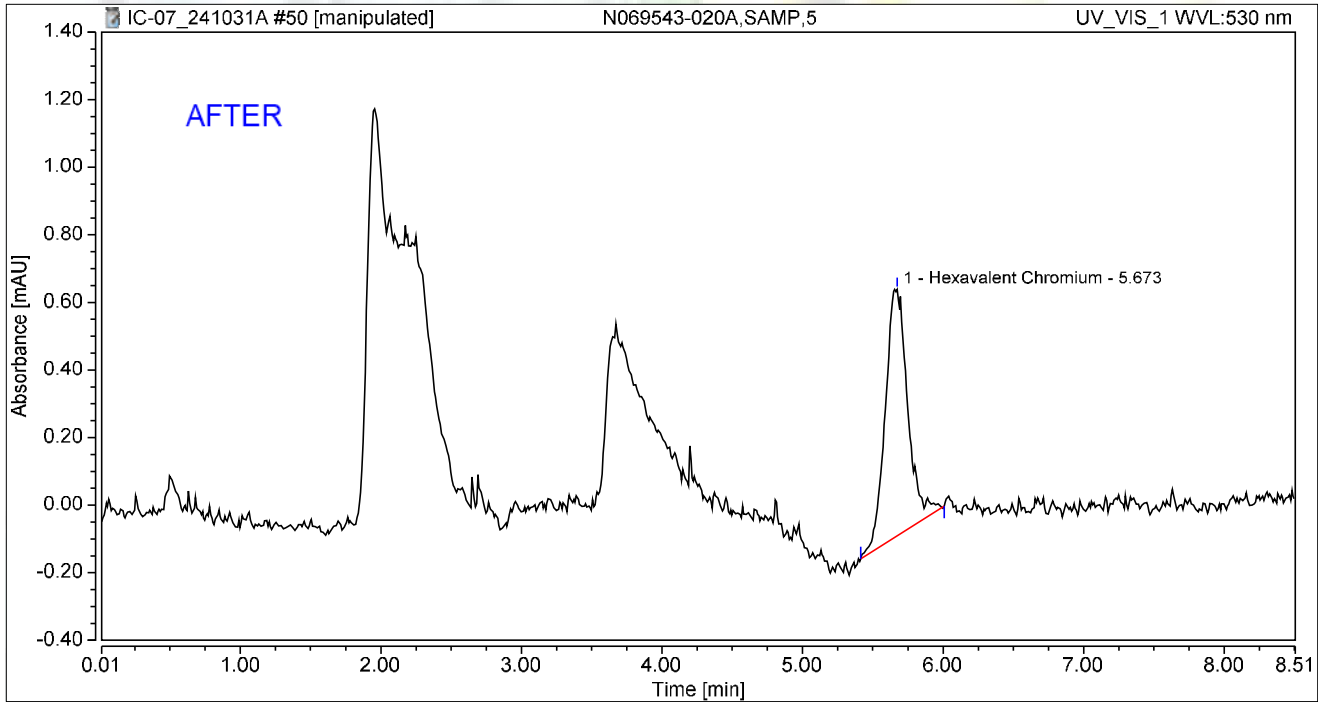
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.426	2.106	100.00	100.00	1.5005
Total:			0.426	2.106	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-020A,SAMP,5	Run Time (min):	8.49
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 17:22	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.135	0.729	100.00	100.00	0.4773
Total:			0.135	0.729	100.00	100.00	

Reviewed by:

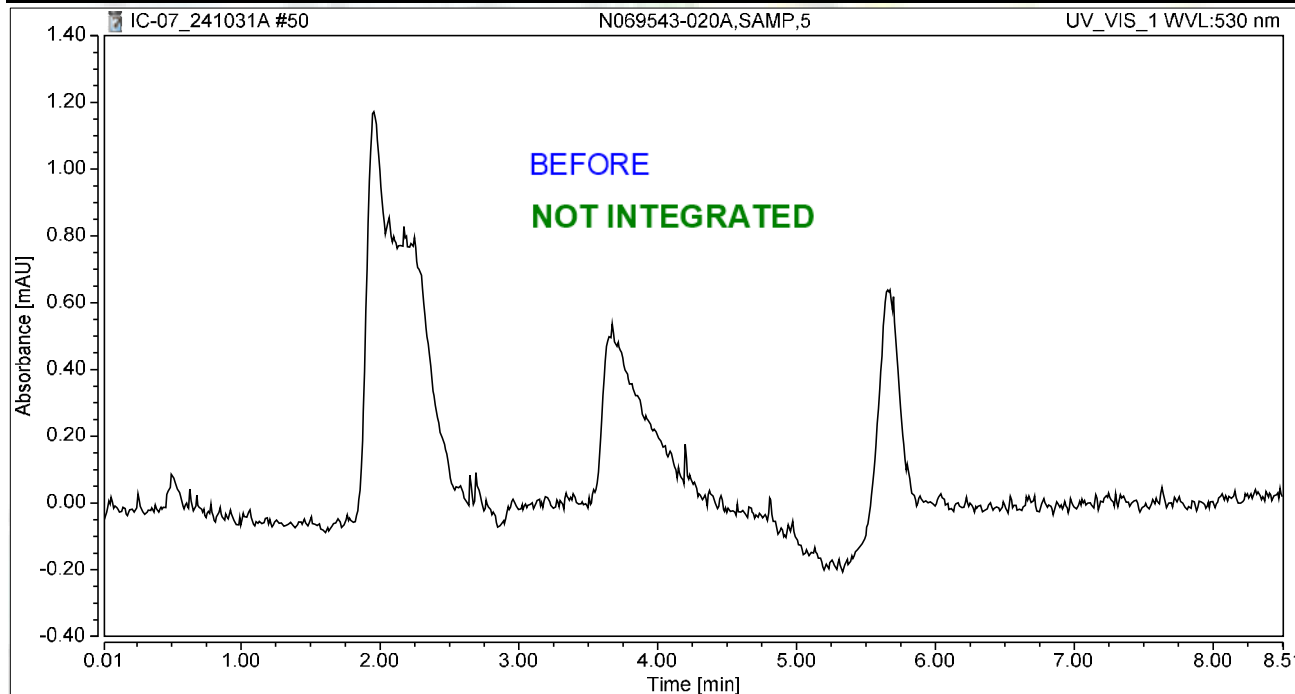
d/Rocha 11/13/2024

Chromatogram and Results

Injection Details

Injection Name:	N069543-020A,SAMP,5	Run Time (min):	8.49
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 17:22	Sample Weight:	1.0000

Chromatogram



Integration Results

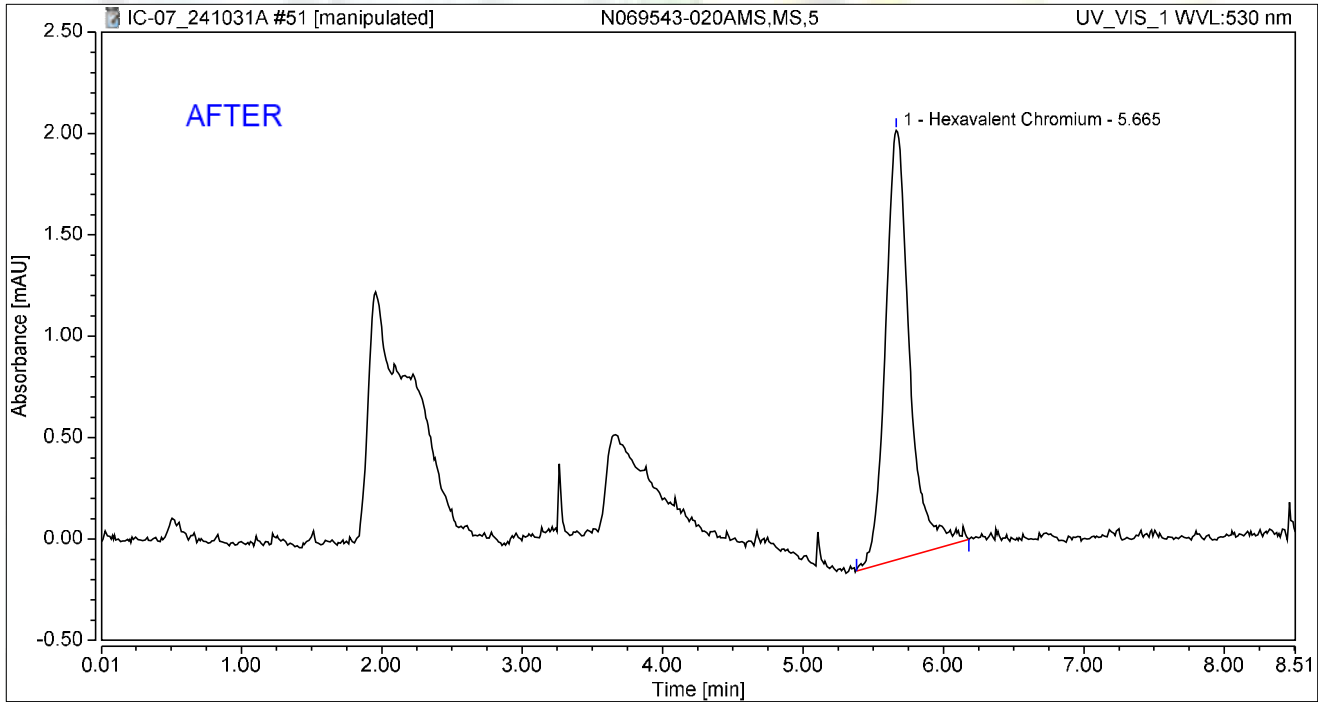
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-020AMS,MS,5	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 17:32	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.422	2.117	100.00	100.00	1.4870
Total:			0.422	2.117	100.00	100.00	

Reviewed by:

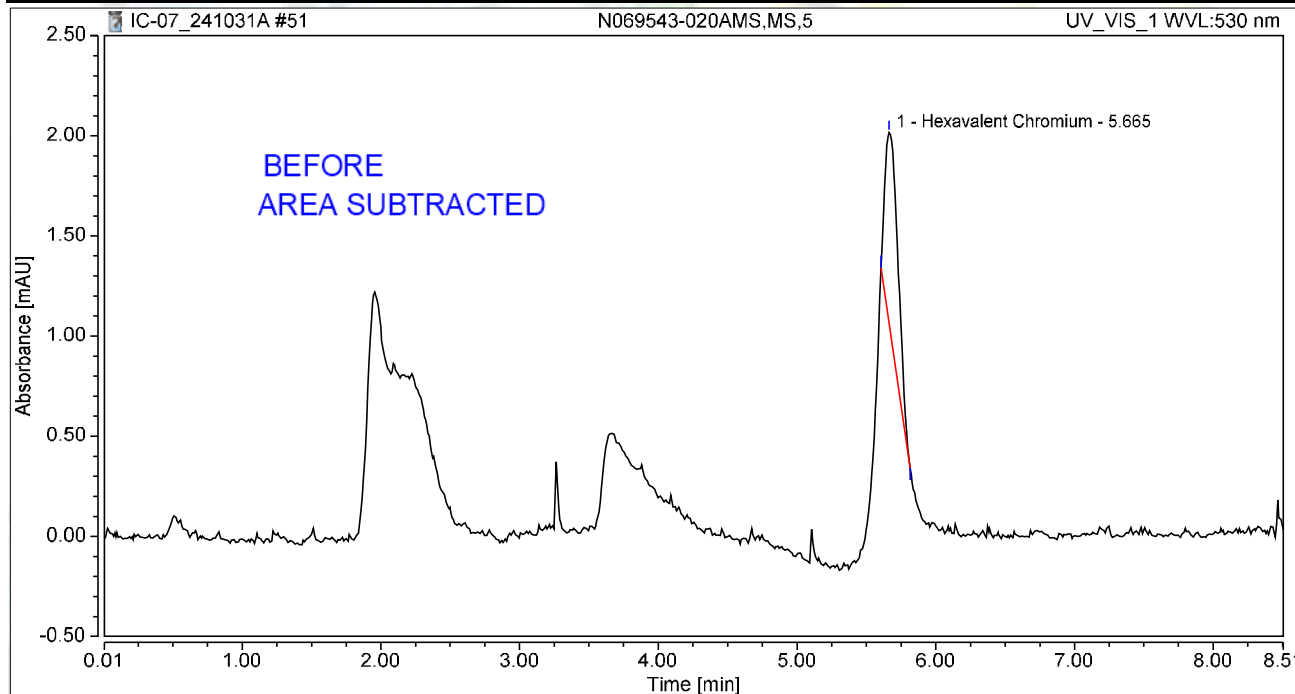
d/Rocha 11/13/2024

Chromatogram and Results

Injection Details

Injection Name:	N069543-020AMS,MS,5	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 17:32	Sample Weight:	1.0000

Chromatogram



Integration Results

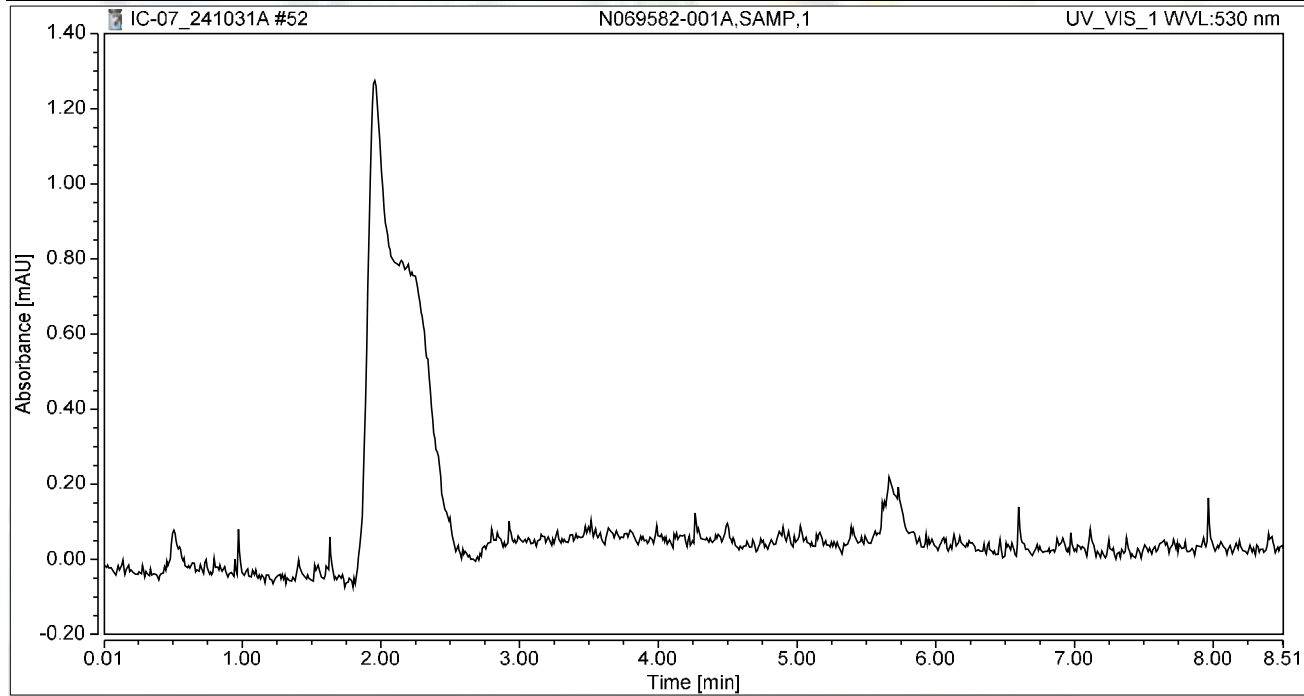
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.108	0.954	100.00	100.00	0.3809
Total:			0.108	0.954	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 17:41	Sample Weight:	1.0000

Chromatogram



Integration Results

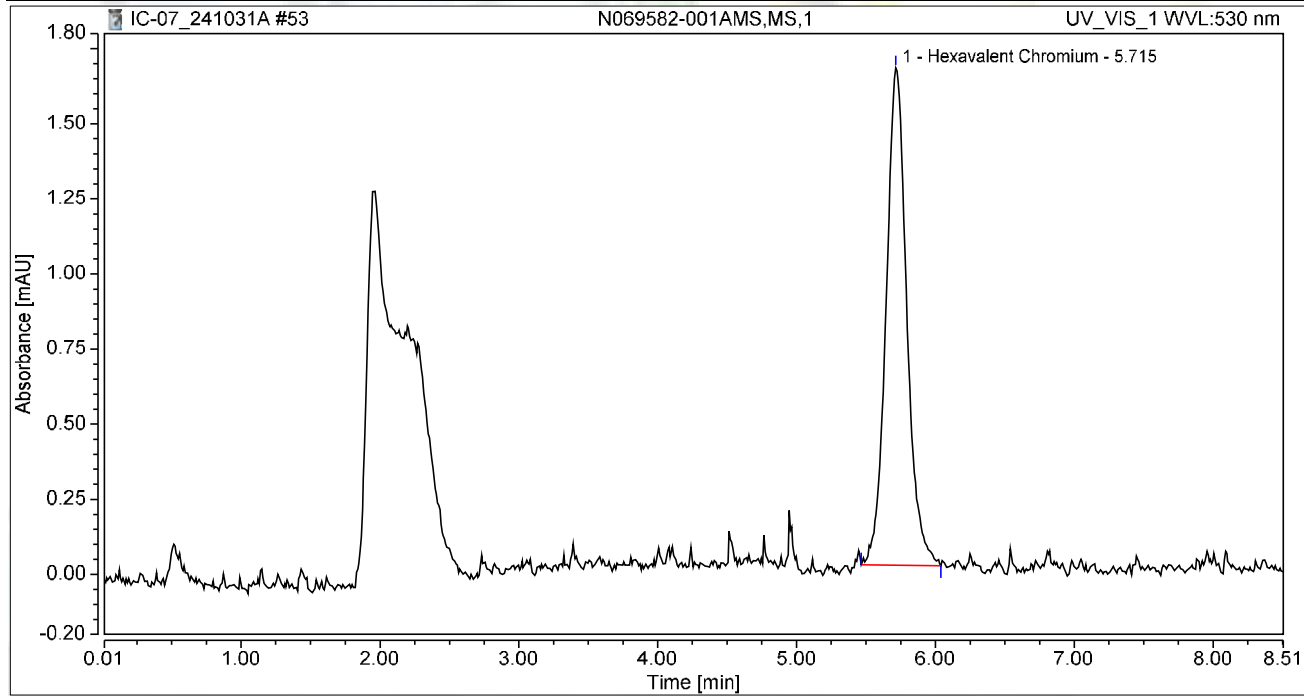
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-001AMS,MS,1	Run Time (min):	8.49
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 17:51	Sample Weight:	1.0000

Chromatogram



Integration Results

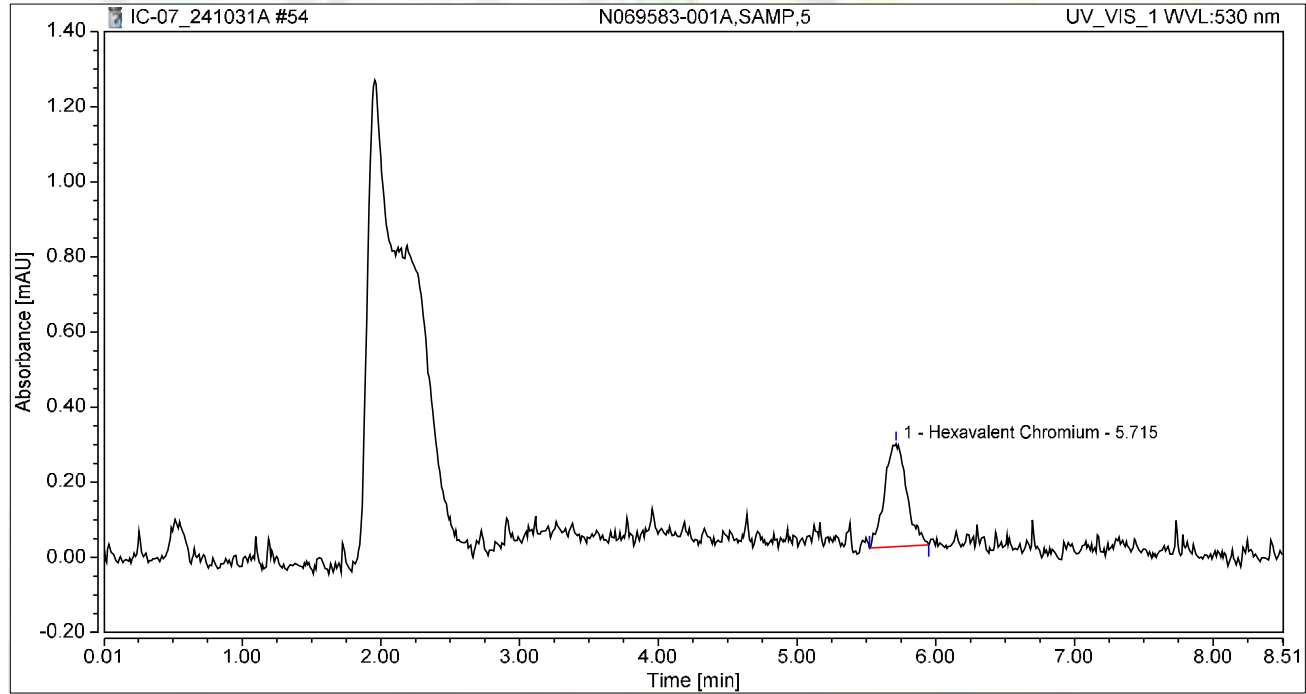
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.286	1.656	100.00	100.00	1.0097
Total:			0.286	1.656	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-001A,SAMP,5	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 18:00	Sample Weight:	1.0000

Chromatogram



Integration Results

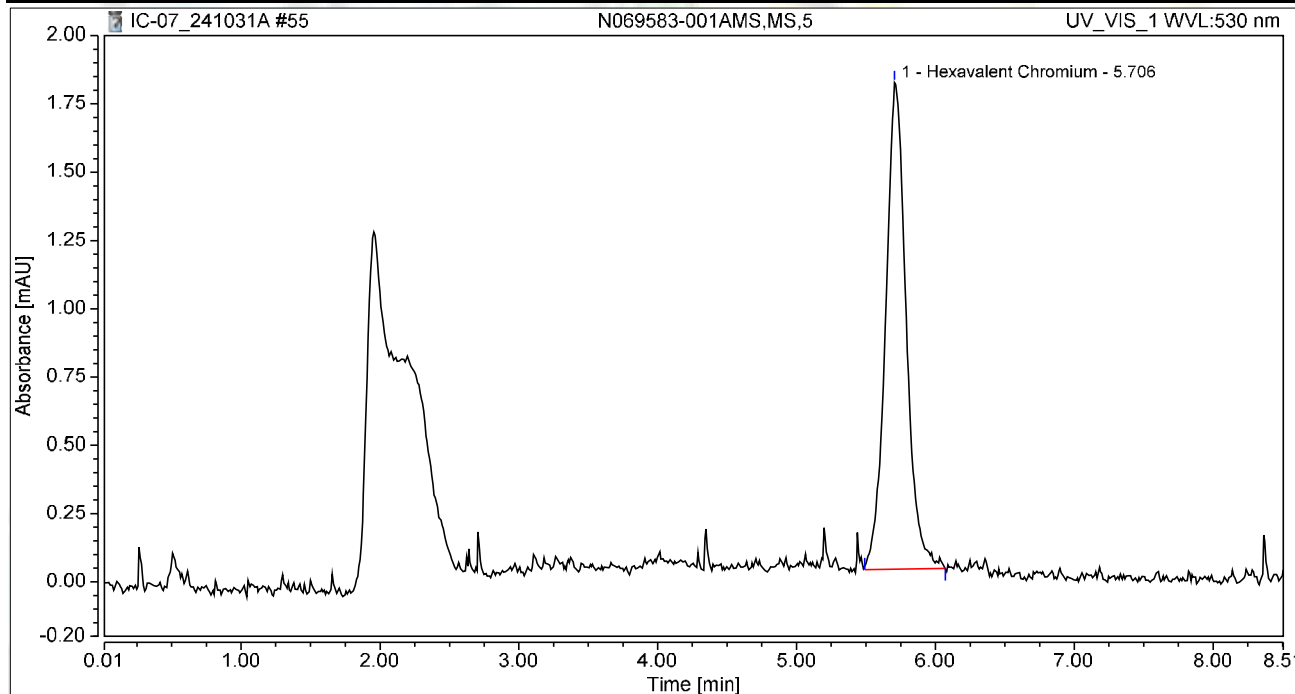
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.051	0.274	100.00	100.00	0.1791
Total:			0.051	0.274	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-001AMS,MS,5	Run Time (min):	8.49
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 18:10	Sample Weight:	1.0000

Chromatogram



Integration Results

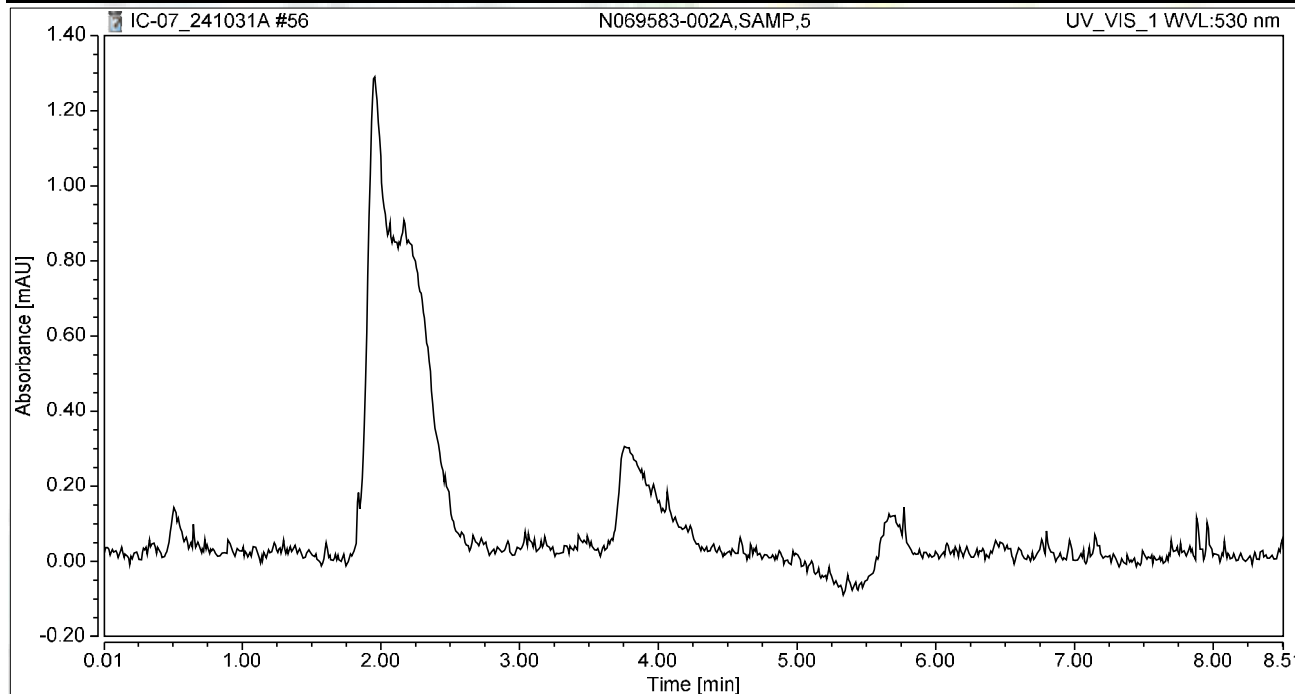
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	0.307	1.781	100.00	100.00	1.0825
Total:			0.307	1.781	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-002A,SAMP,5	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 18:19	Sample Weight:	1.0000

Chromatogram



Integration Results

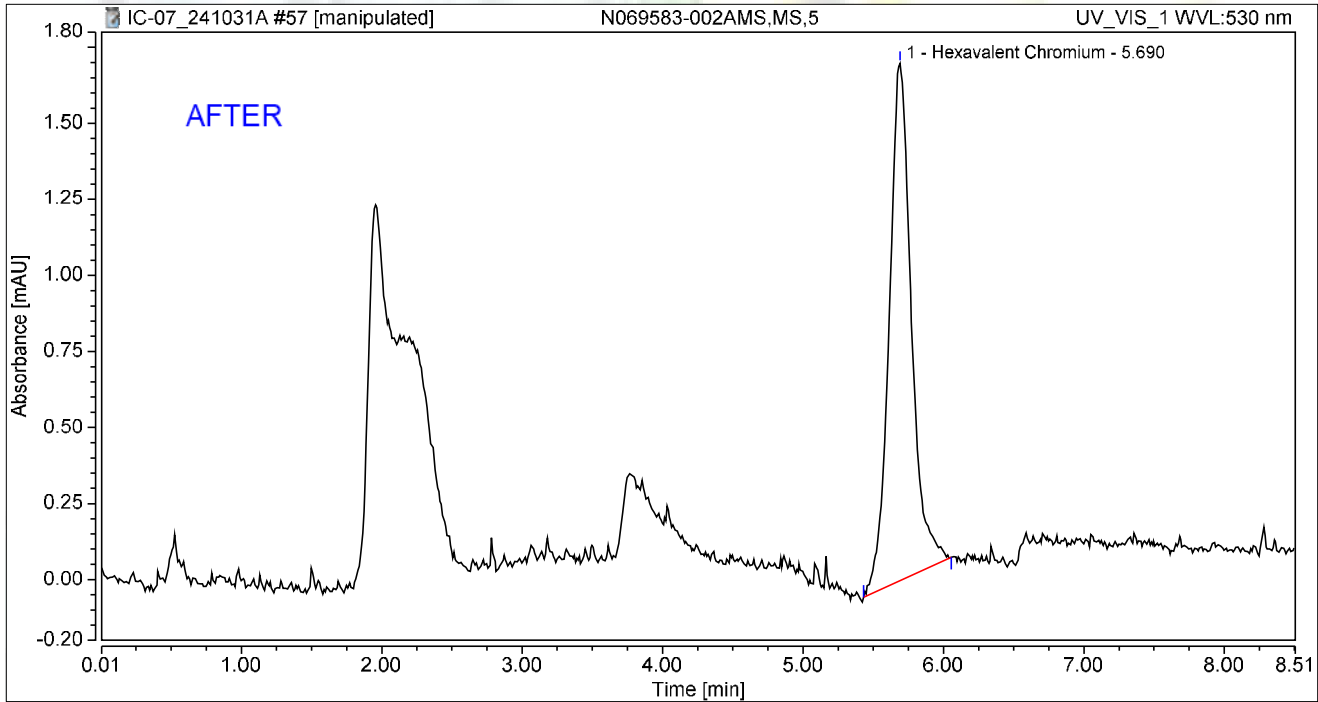
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 18:28	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.311	1.701	100.00	100.00	1.0961
Total:			0.311	1.701	100.00	100.00	

Reviewed by:

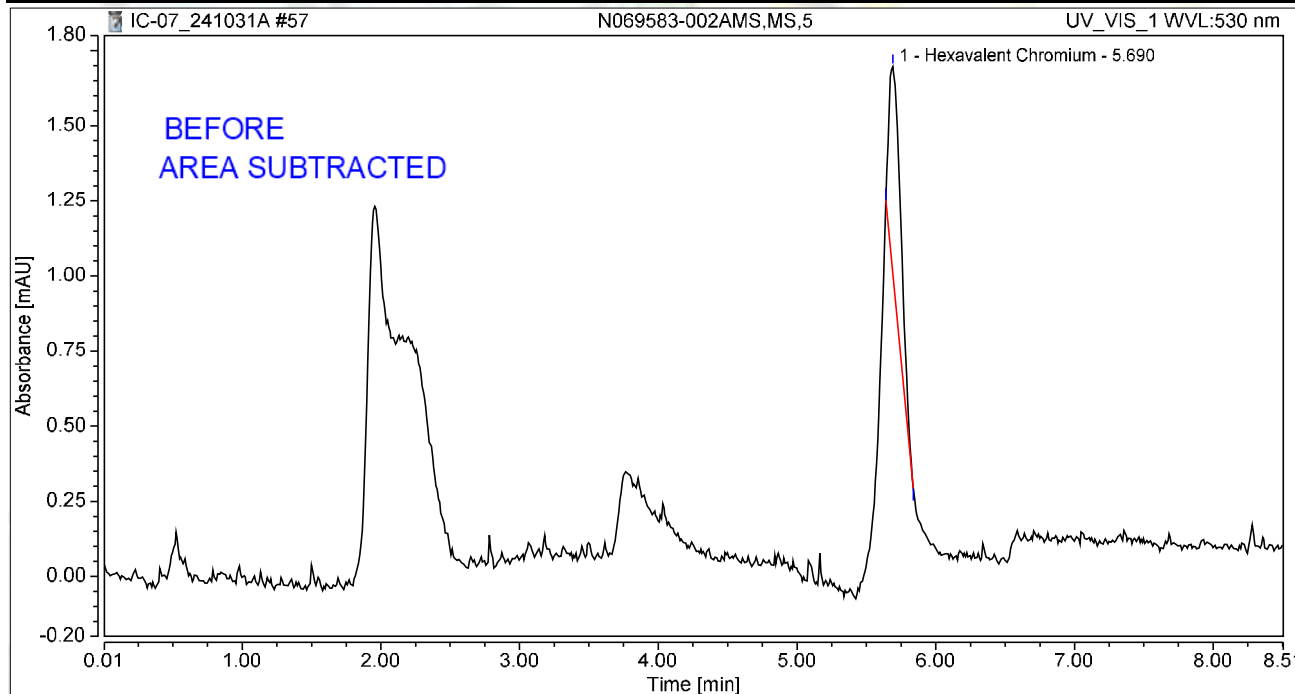
d/Rocha 11/13/2024

Chromatogram and Results

Injection Details

Injection Name:	N069583-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 18:28	Sample Weight:	1.0000

Chromatogram



Integration Results

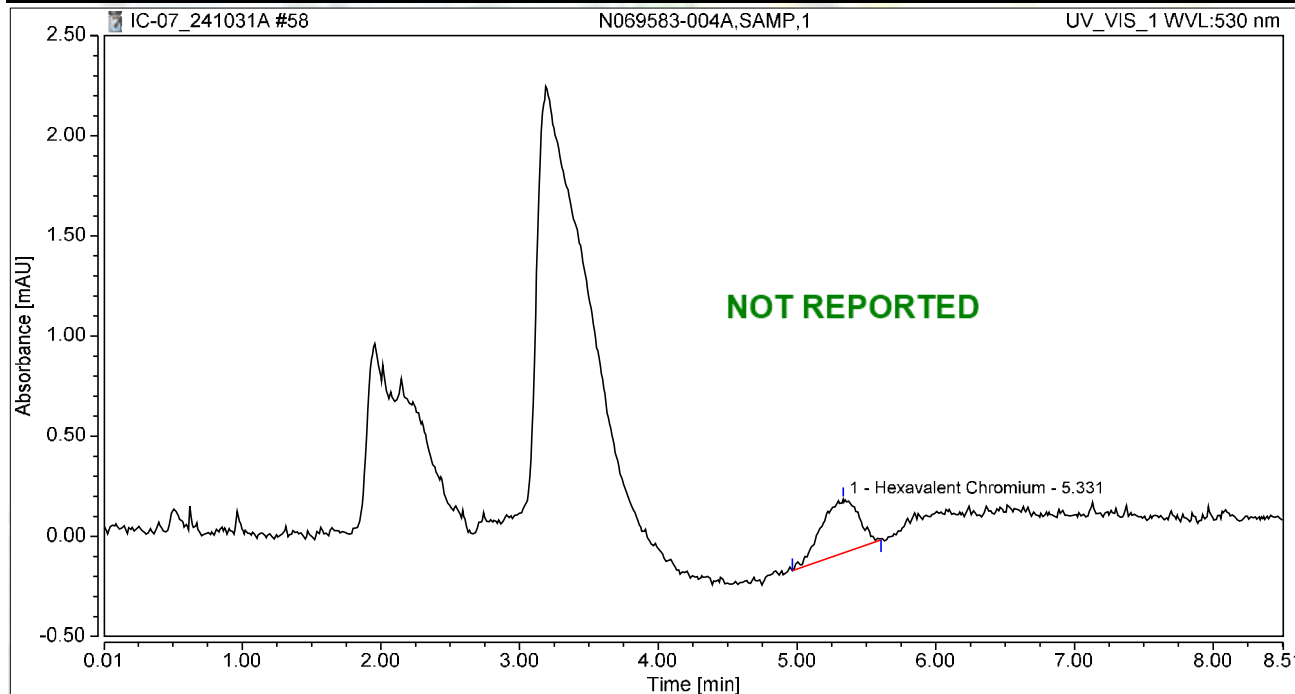
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.070	0.685	100.00	100.00	0.2457
Total:			0.070	0.685	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-004A,SAMP,1	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 18:38	Sample Weight:	1.0000

Chromatogram



Integration Results

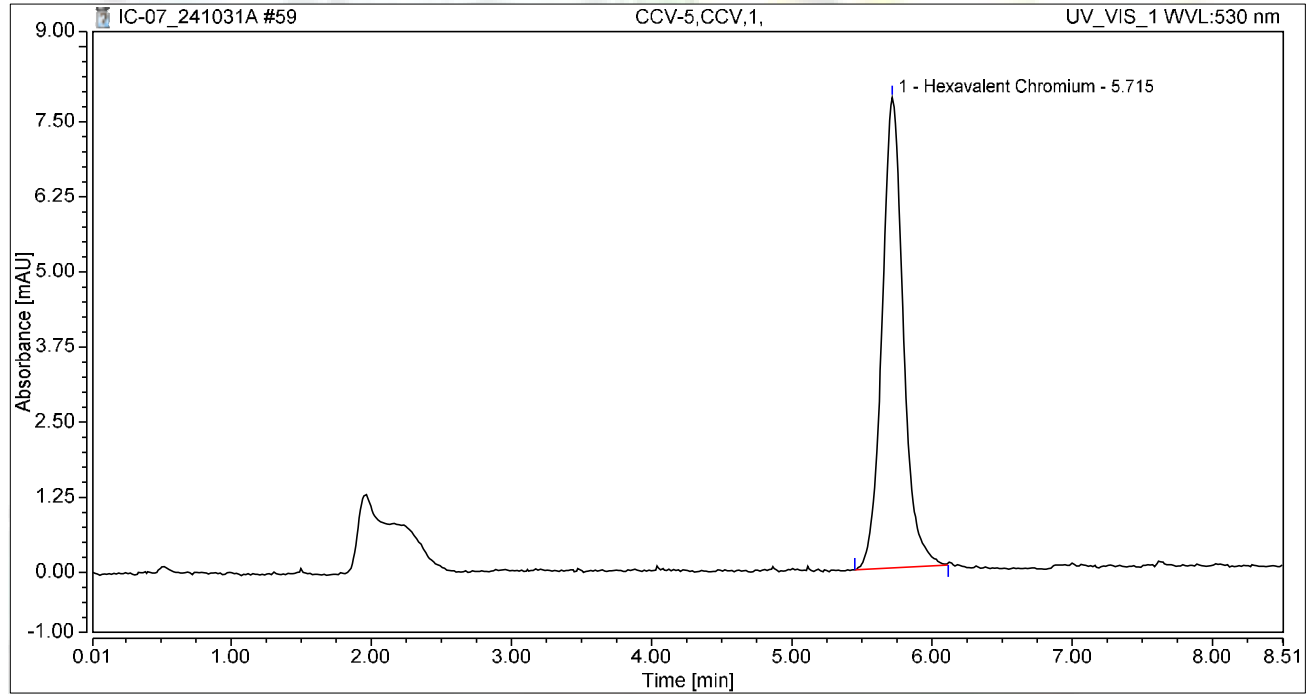
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.331	0.085	0.268	100.00	100.00	0.2987
Total:			0.085	0.268	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.49
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 18:47	Sample Weight:	1.0000

Chromatogram



Integration Results

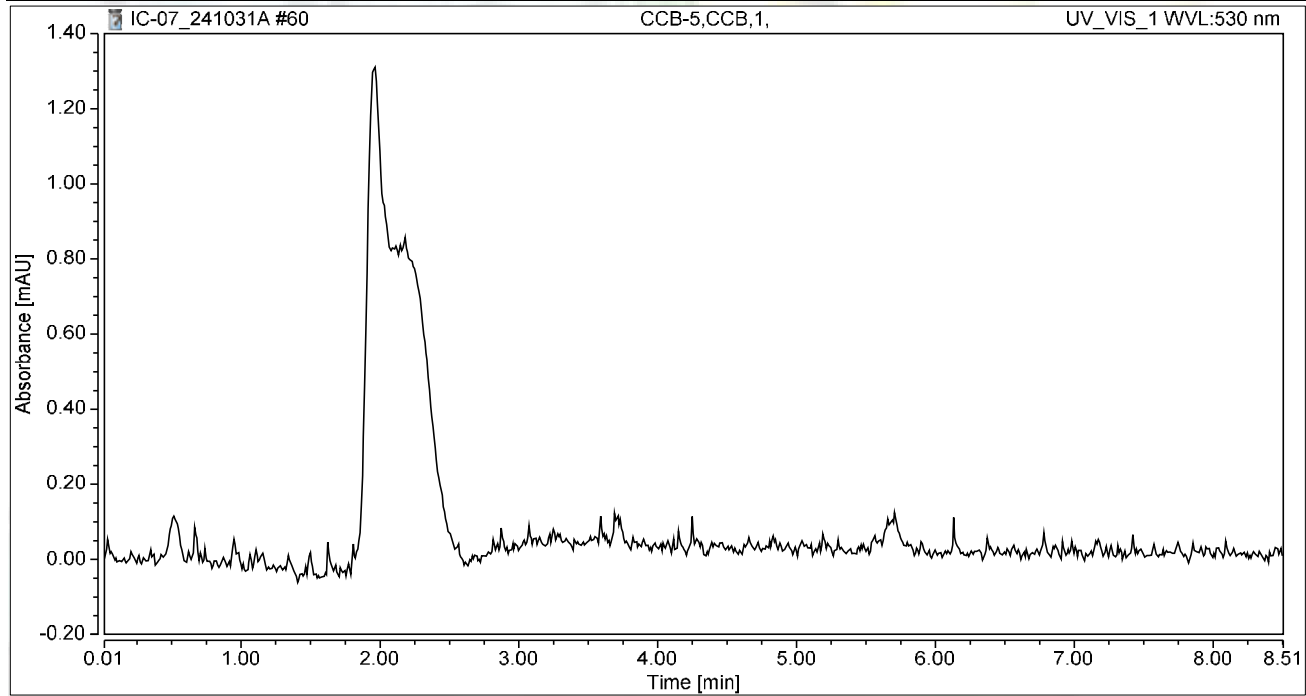
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	1.377	7.831	100.00	100.00	4.8512
Total:			1.377	7.831	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.49
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 18:57	Sample Weight:	1.0000

Chromatogram



Integration Results

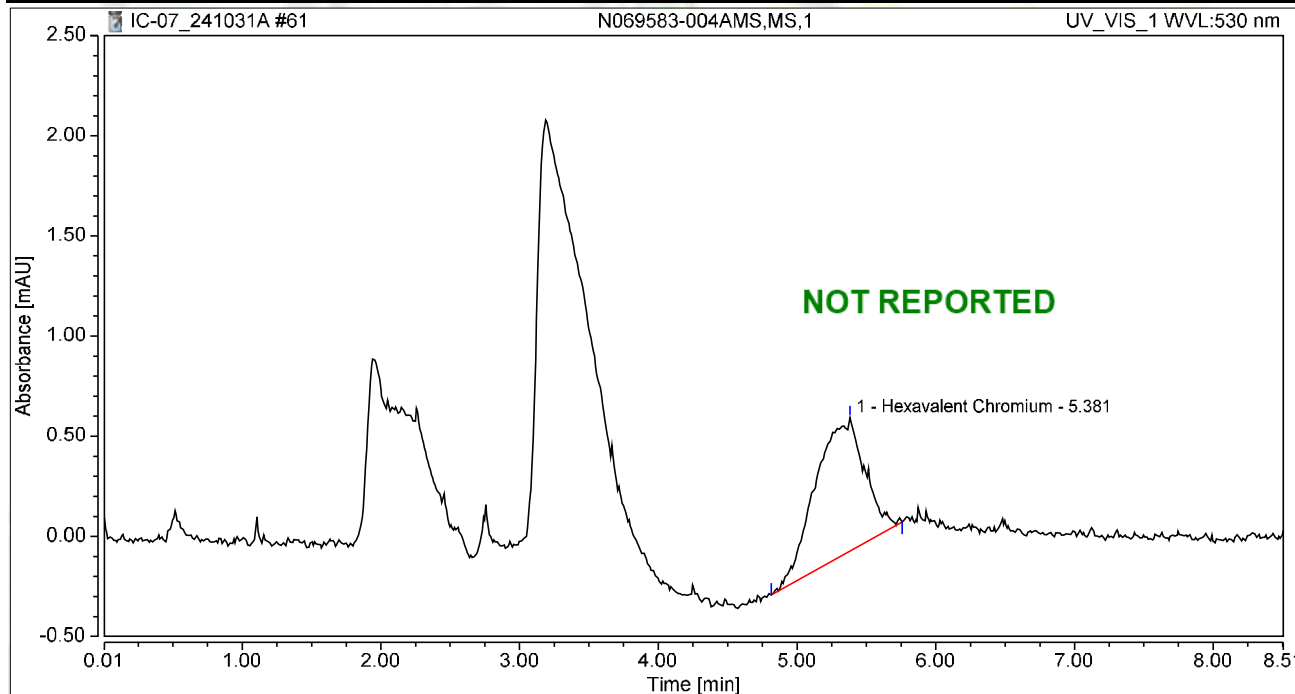
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-004AMS,MS,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 19:06	Sample Weight:	1.0000

Chromatogram



Integration Results

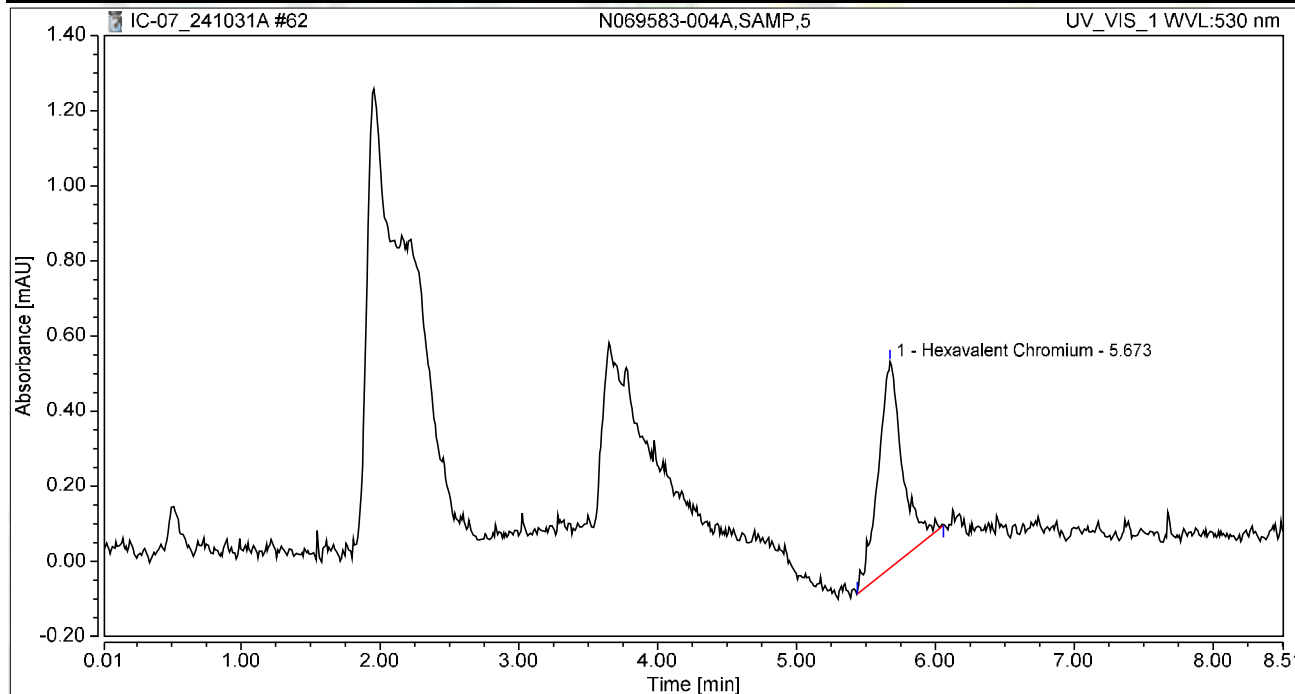
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.381	0.282	0.667	100.00	100.00	0.9952
Total:			0.282	0.667	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-004A,SAMP,5	Run Time (min):	8.49
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 19:16	Sample Weight:	1.0000

Chromatogram



Integration Results

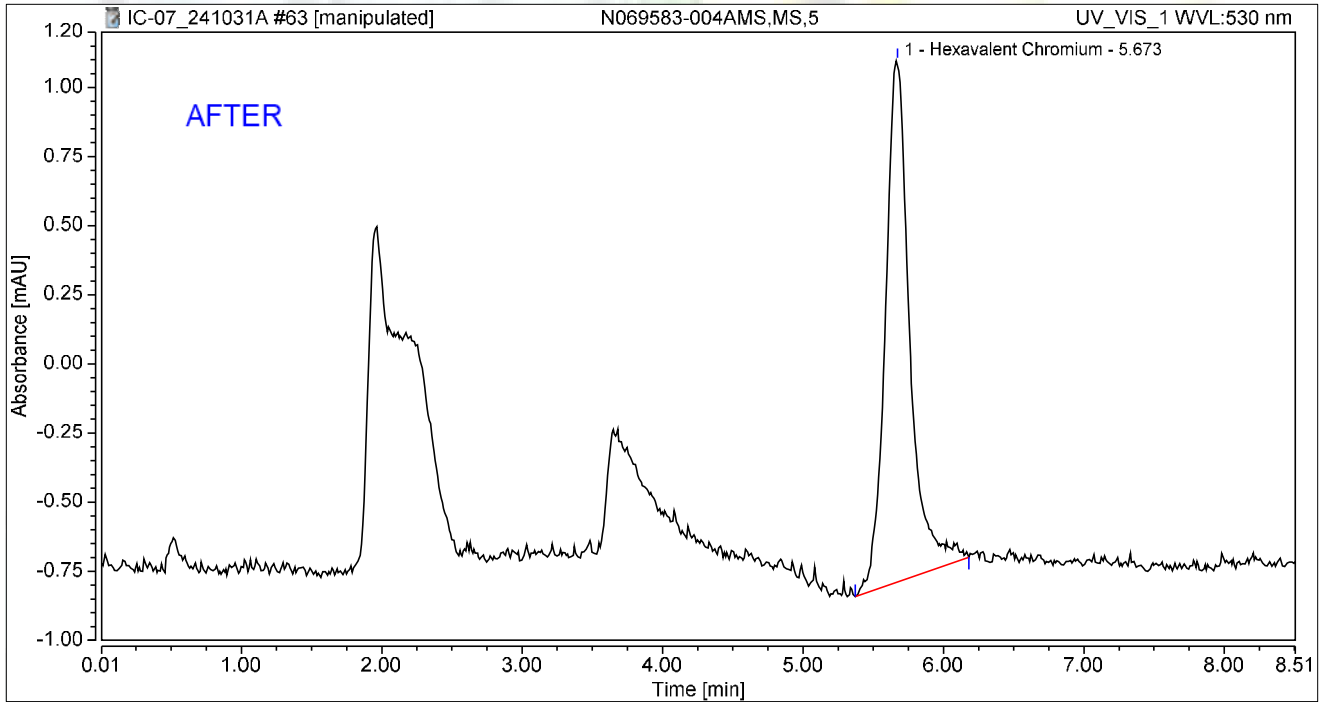
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.111	0.550	100.00	100.00	0.3915
Total:			0.111	0.550	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-004AMS,MS,5	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 19:25	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.382	1.887	100.00	100.00	1.3469
Total:			0.382	1.887	100.00	100.00	

Reviewed by:

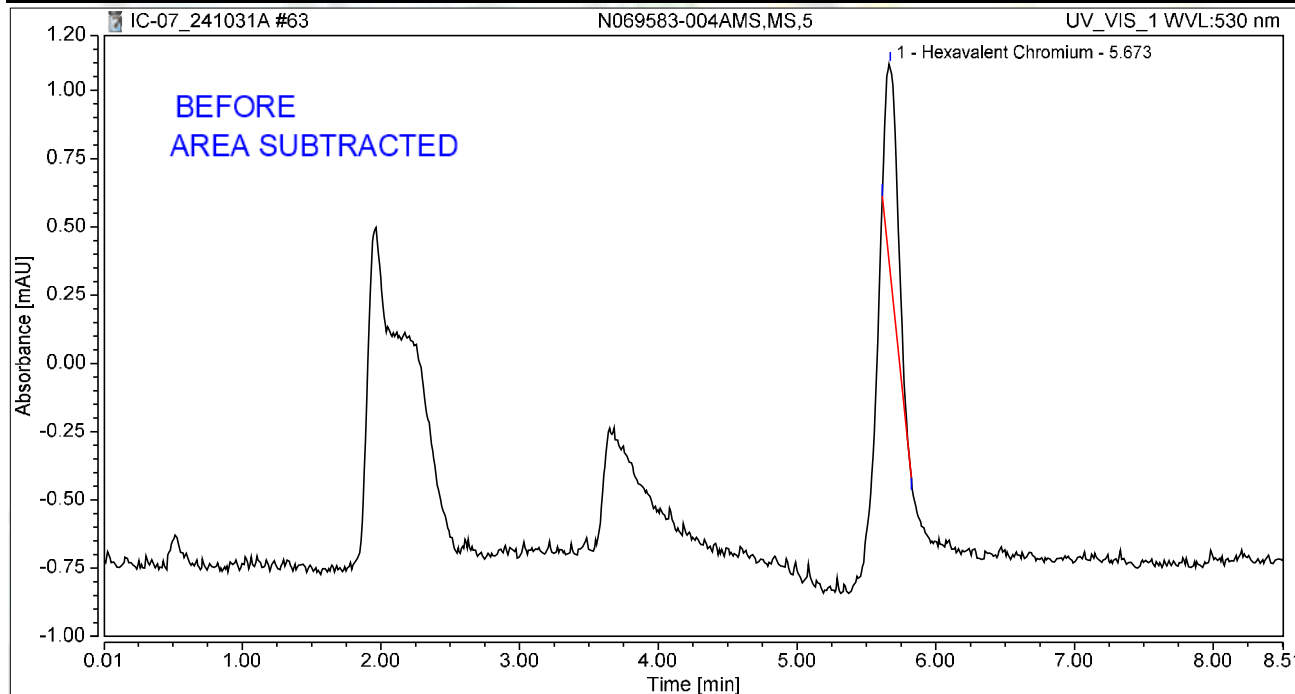
d/Rocha 11/13/2024

Chromatogram and Results

Injection Details

Injection Name:	N069583-004AMS,MS,5	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 19:25	Sample Weight:	1.0000

Chromatogram



Integration Results

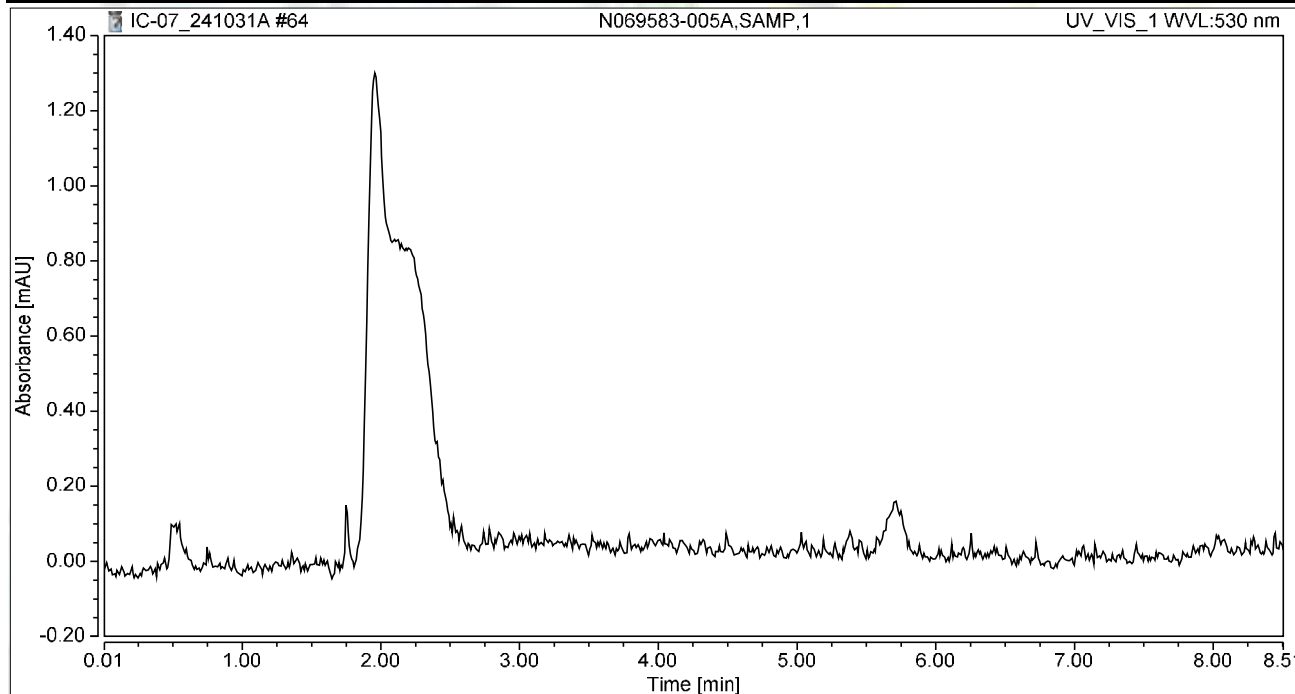
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.080	0.774	100.00	100.00	0.2828
Total:			0.080	0.774	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 19:35	Sample Weight:	1.0000

Chromatogram



Integration Results

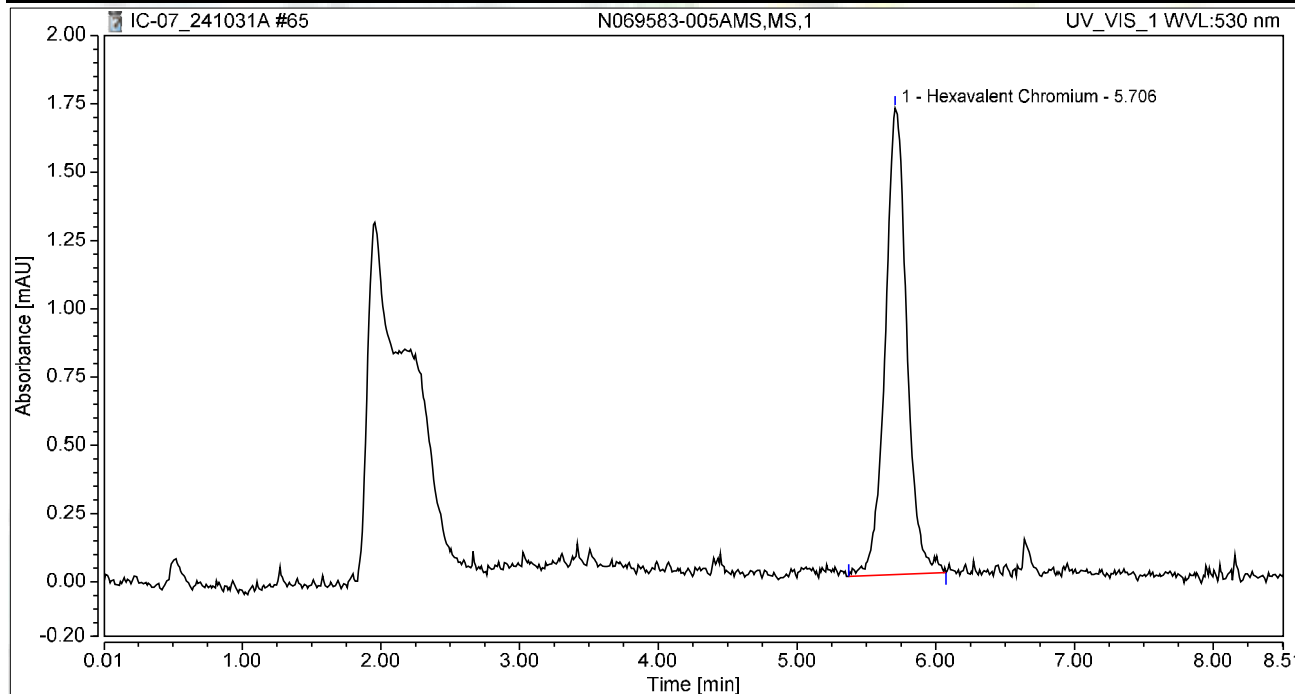
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-005AMS,MS,1	Run Time (min):	8.50
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 19:44	Sample Weight:	1.0000

Chromatogram



Integration Results

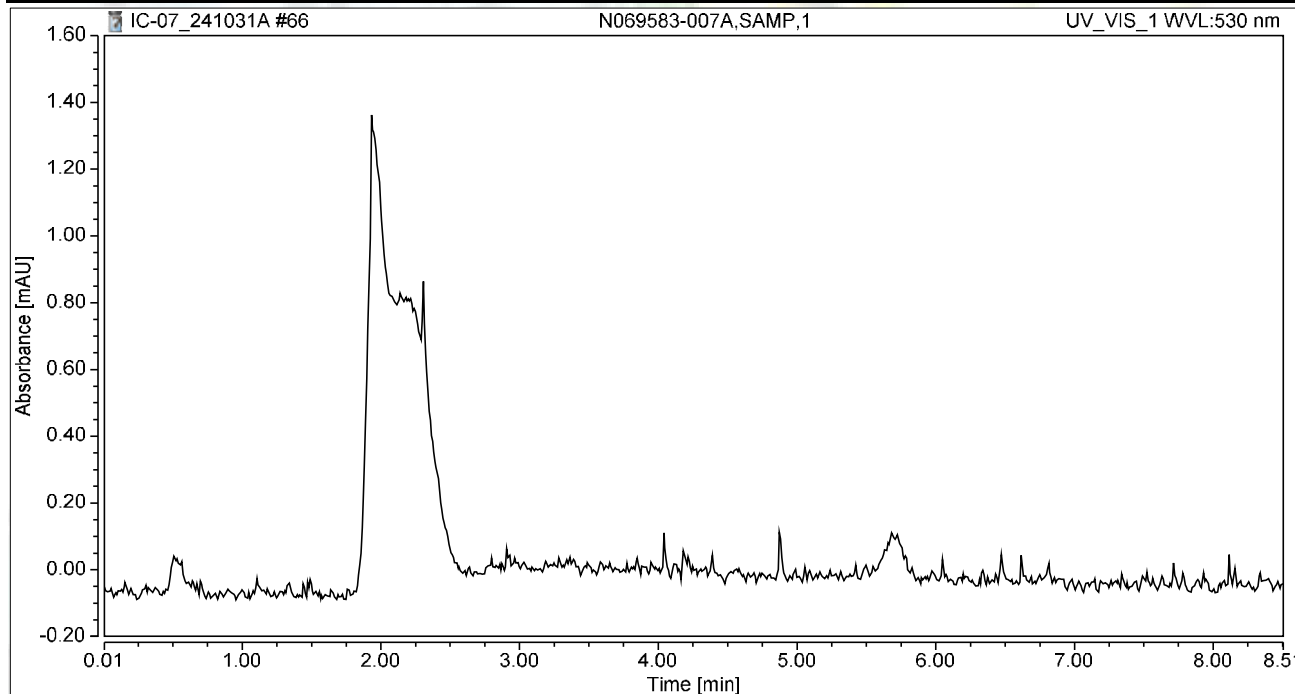
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	0.308	1.708	100.00	100.00	1.0852
Total:			0.308	1.708	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-007A,SAMP,1	Run Time (min):	8.50
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 19:54	Sample Weight:	1.0000

Chromatogram



Integration Results

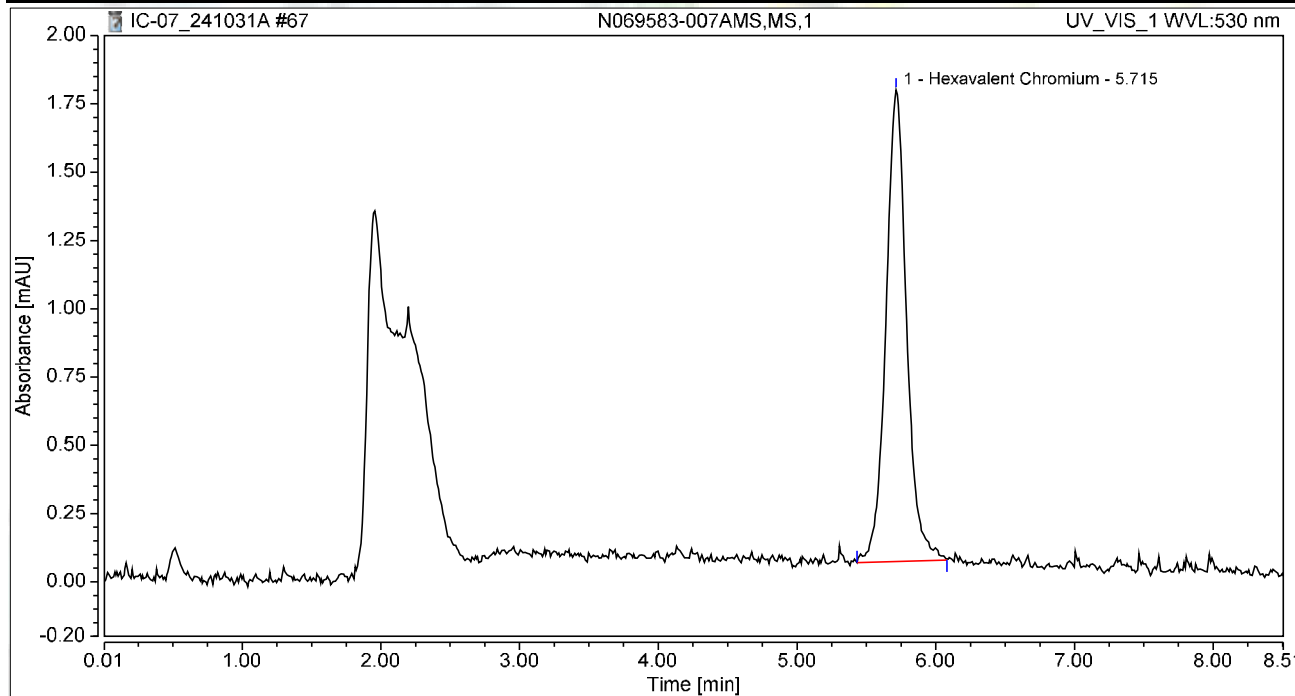
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-007AMS,MS,1	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 20:03	Sample Weight:	1.0000

Chromatogram



Integration Results

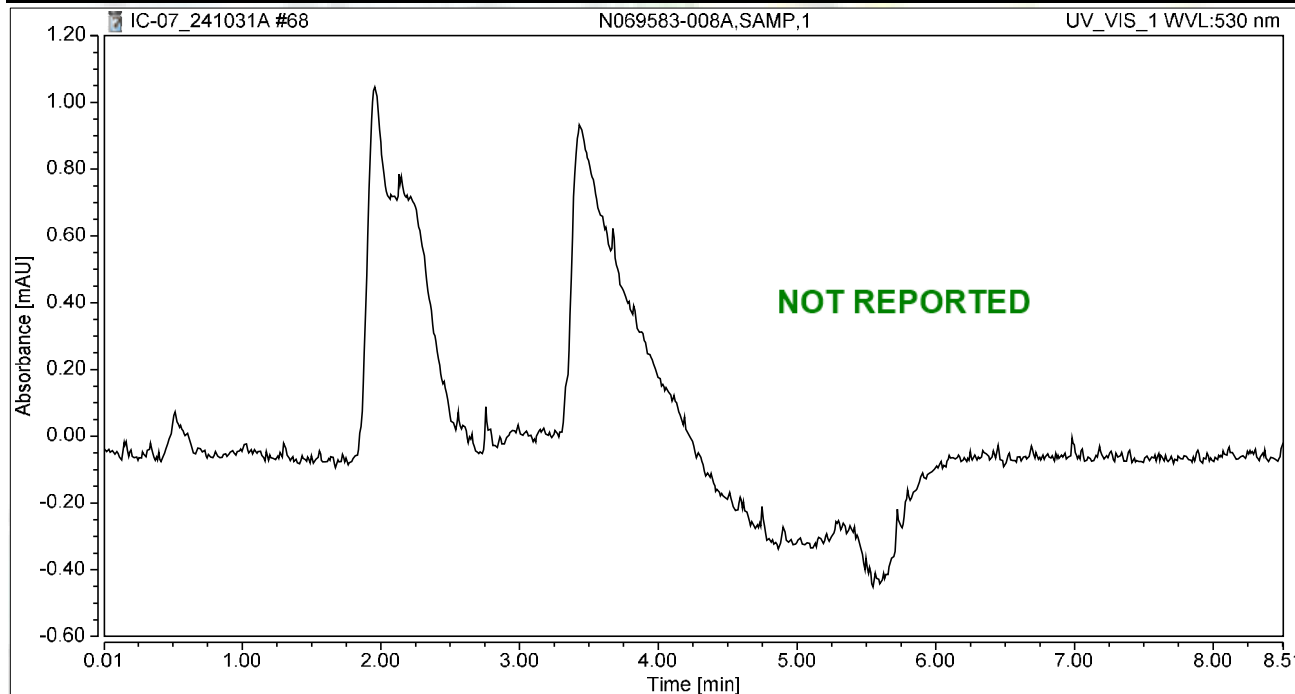
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.299	1.727	100.00	100.00	1.0532
Total:			0.299	1.727	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-008A,SAMP,1	Run Time (min):	8.50
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 20:12	Sample Weight:	1.0000

Chromatogram



Integration Results

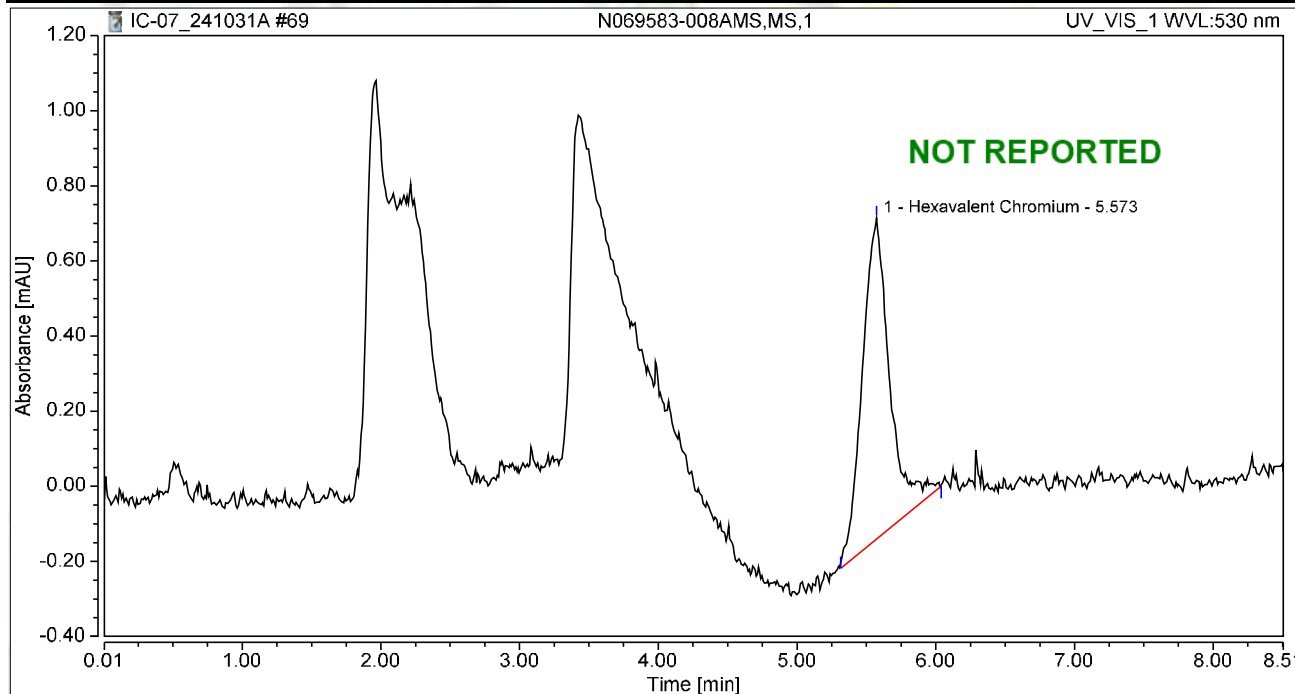
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-008AMS,MS,1	Run Time (min):	8.50
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 20:22	Sample Weight:	1.0000

Chromatogram



Integration Results

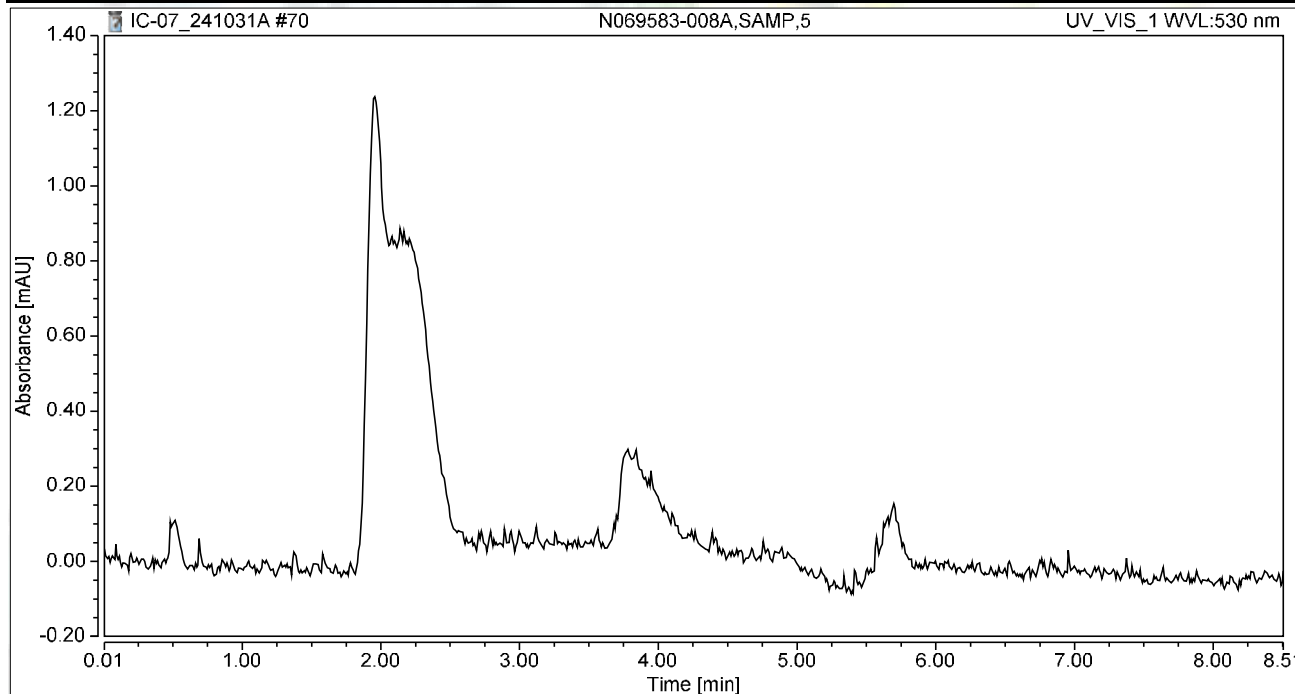
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.573	0.196	0.856	100.00	100.00	0.6894
Total:			0.196	0.856	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-008A,SAMP,5	Run Time (min):	8.50
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 20:31	Sample Weight:	1.0000

Chromatogram



Integration Results

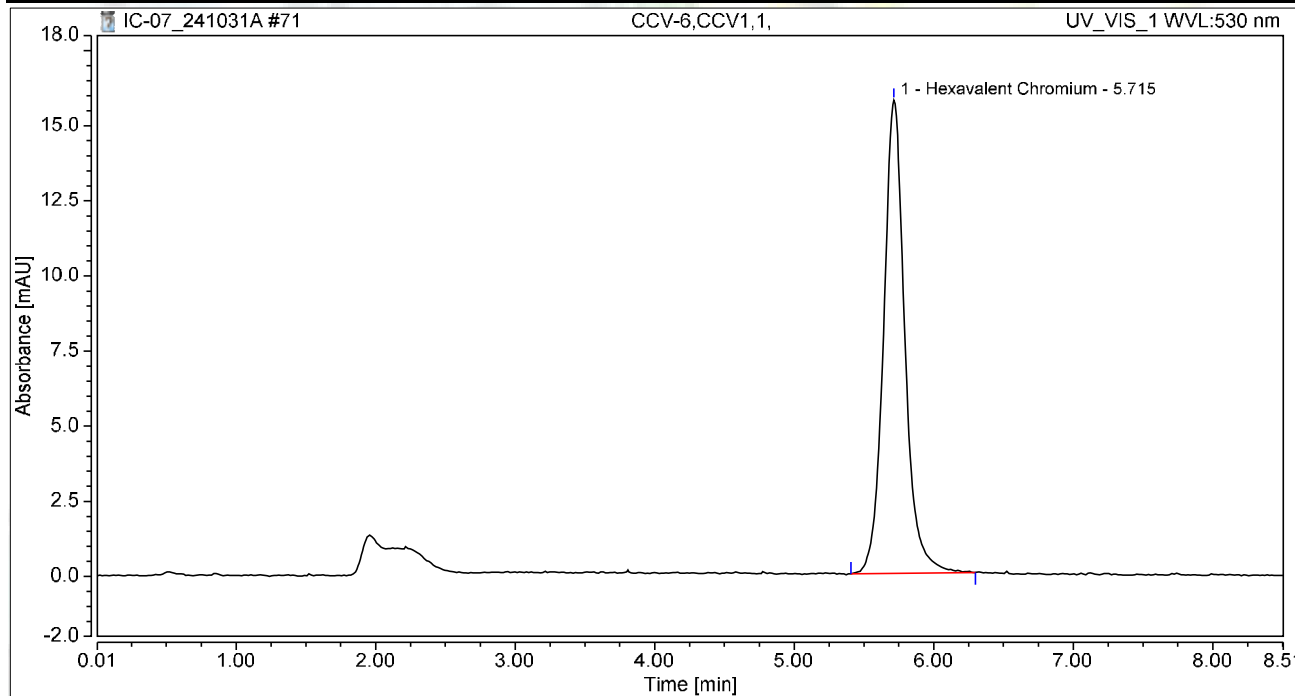
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-6,CCV1,1,	Run Time (min):	8.50
Vial Number:	30	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 20:41	Sample Weight:	1.0000

Chromatogram



Integration Results

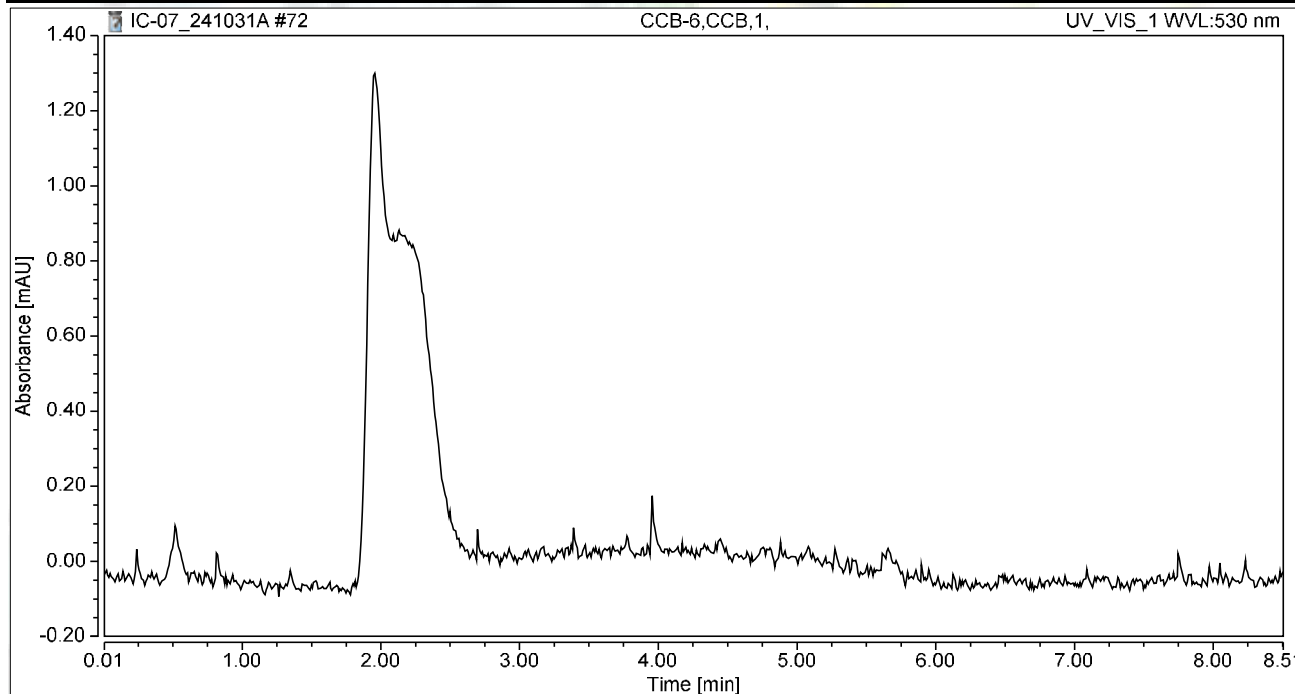
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.783	15.751	100.00	100.00	9.8090
Total:			2.783	15.751	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-6,CCB,1,	Run Time (min):	8.50
Vial Number:	31	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 20:50	Sample Weight:	1.0000

Chromatogram



Integration Results

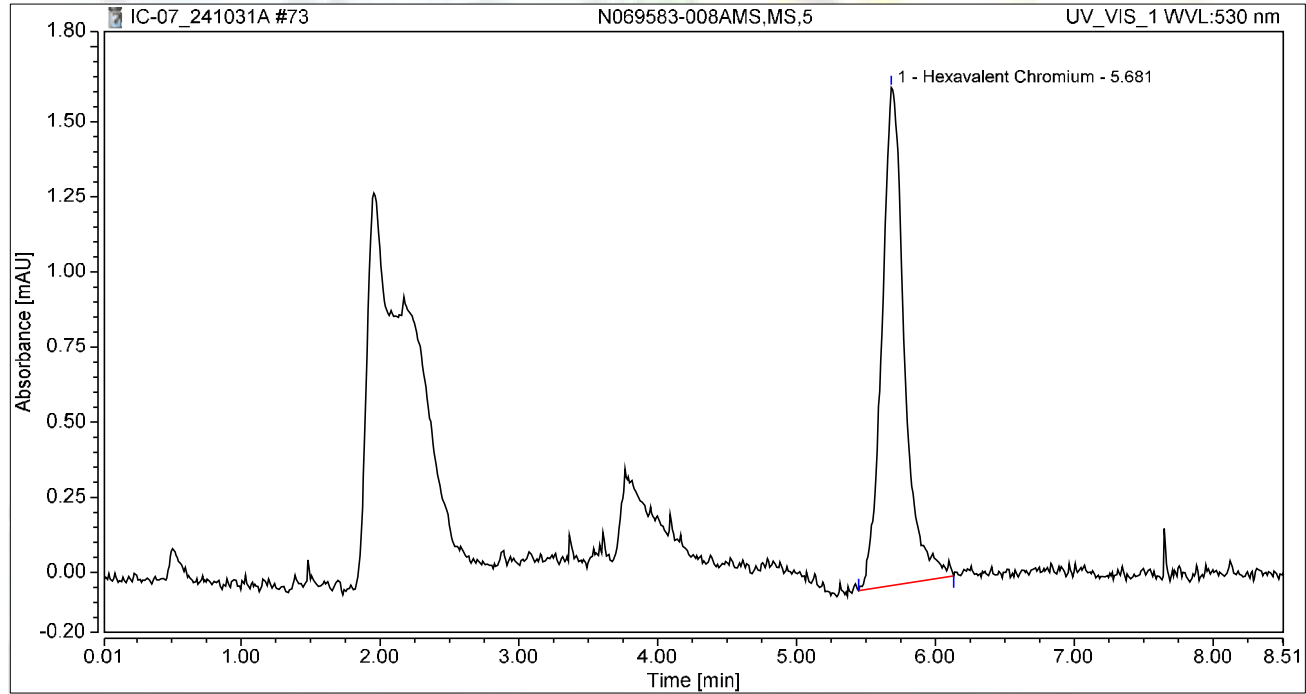
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-008AMS,MS,5	Run Time (min):	8.49
Vial Number:	32	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 21:00	Sample Weight:	1.0000

Chromatogram



Integration Results

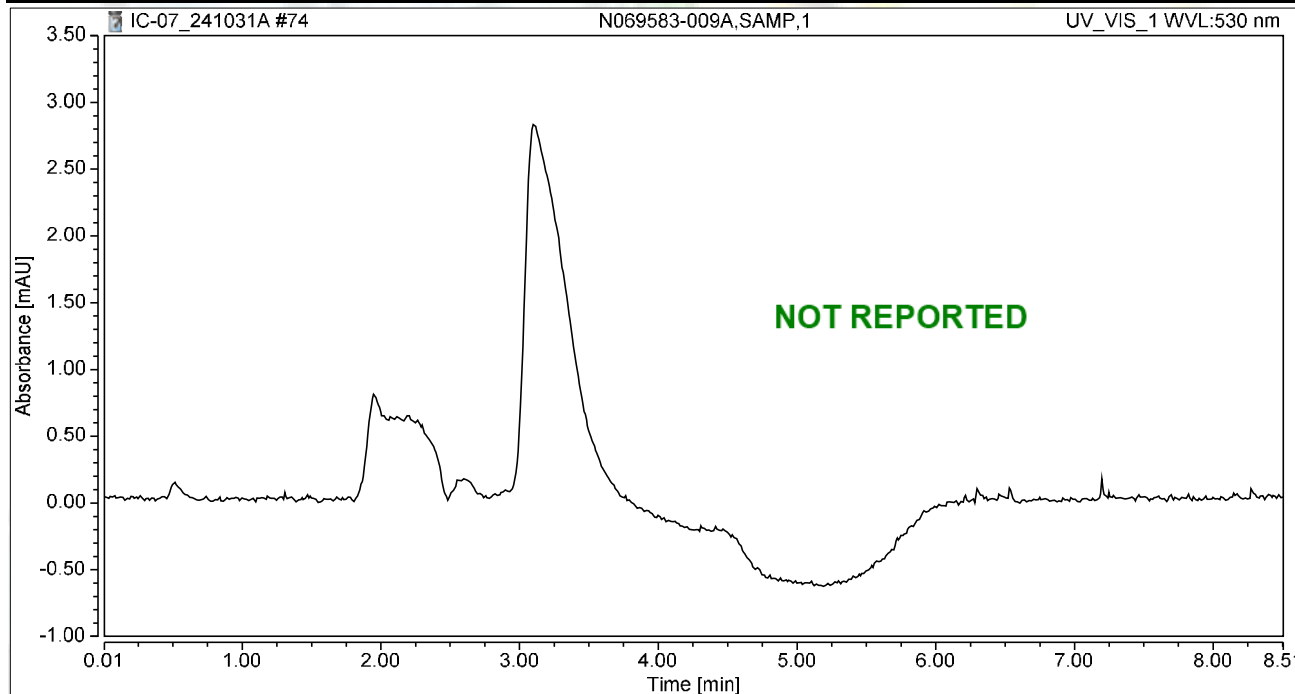
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.311	1.658	100.00	100.00	1.0976
Total:			0.311	1.658	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-009A,SAMP,1	Run Time (min):	8.50
Vial Number:	33	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 21:09	Sample Weight:	1.0000

Chromatogram



Integration Results

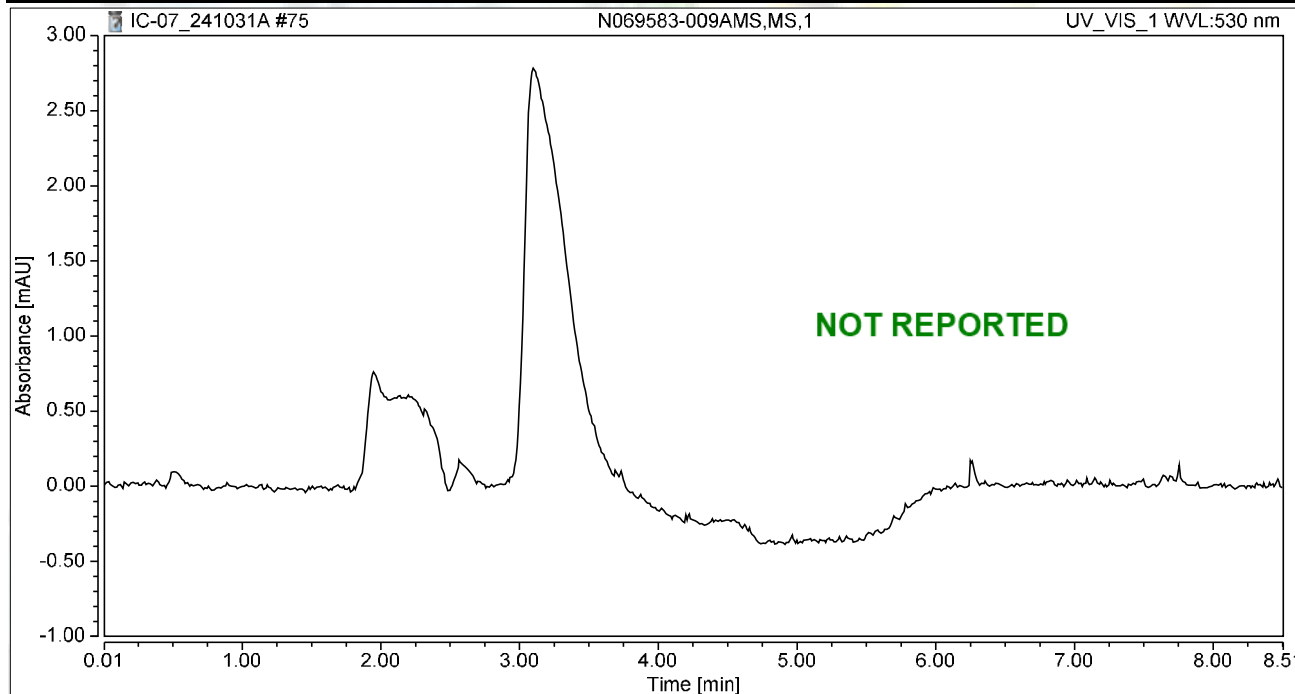
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-009AMS,MS,1	Run Time (min):	8.50
Vial Number:	34	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 21:19	Sample Weight:	1.0000

Chromatogram



Integration Results

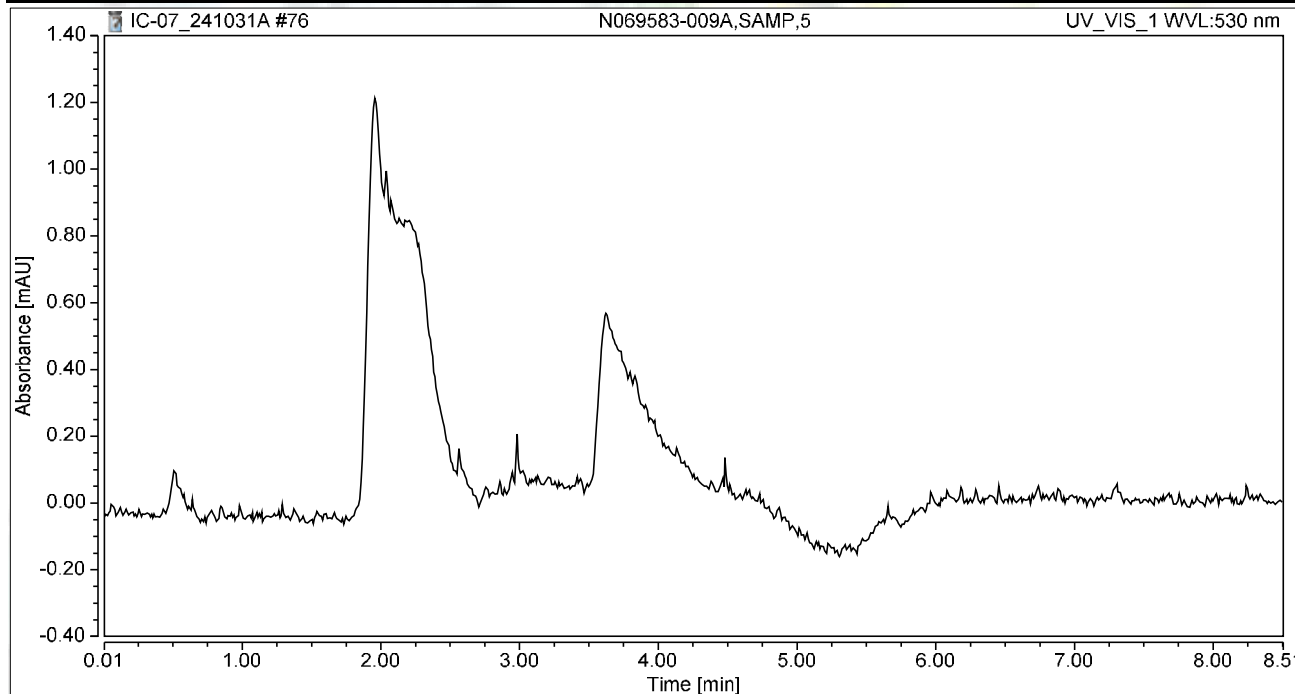
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-009A,SAMP,5	Run Time (min):	8.50
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 21:28	Sample Weight:	1.0000

Chromatogram



Integration Results

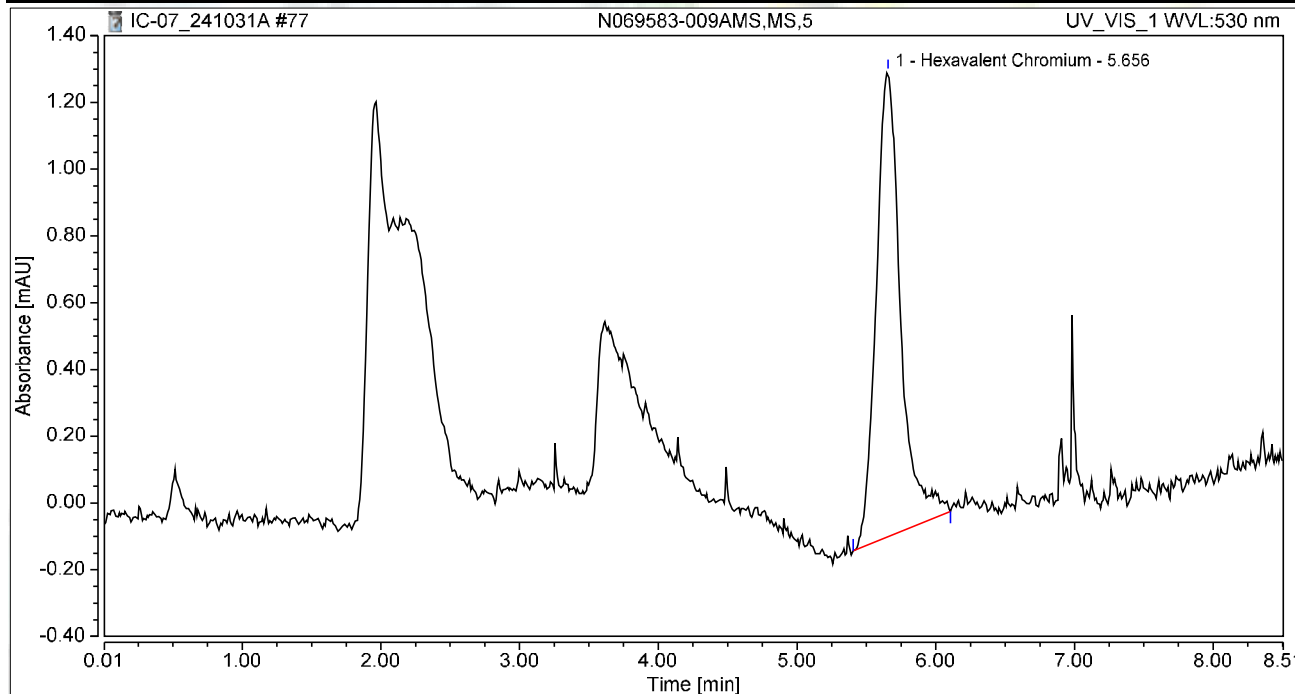
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-009AMS,MS,5	Run Time (min):	8.50
Vial Number:	36	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 21:38	Sample Weight:	1.0000

Chromatogram



Integration Results

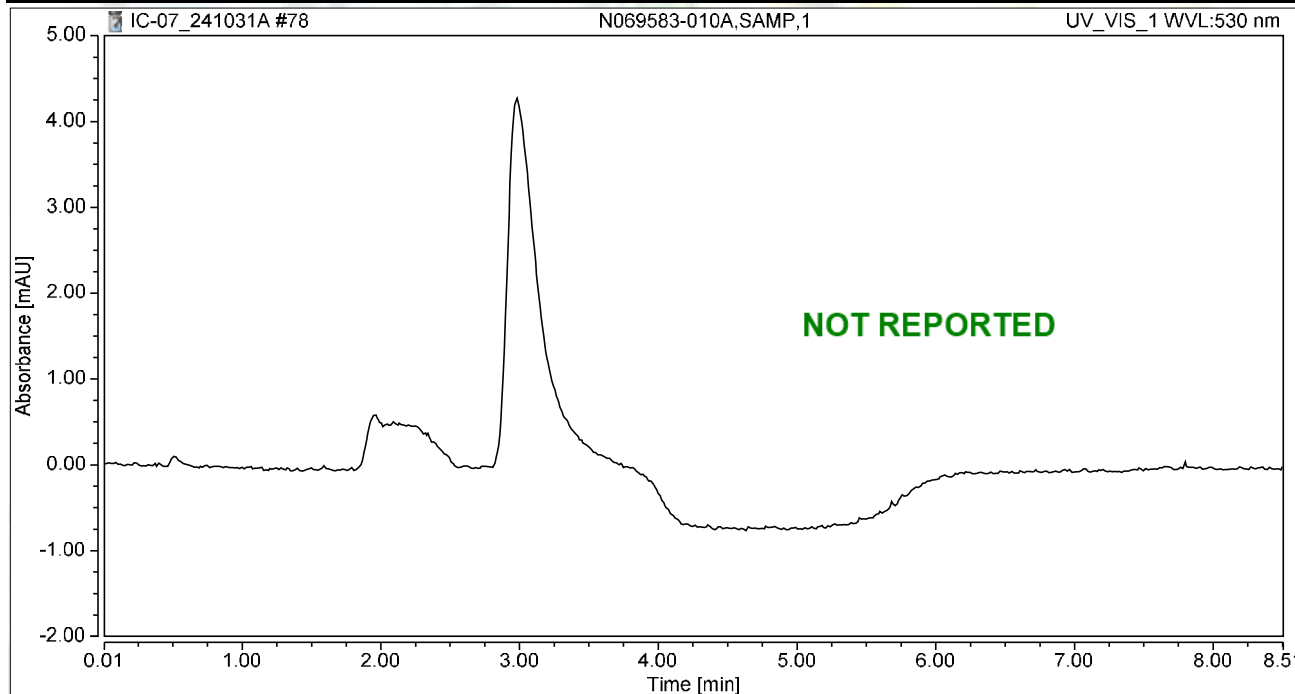
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.656	0.285	1.393	100.00	100.00	1.0053
Total:			0.285	1.393	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-010A,SAMP,1	Run Time (min):	8.50
Vial Number:	37	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 21:47	Sample Weight:	1.0000

Chromatogram



Integration Results

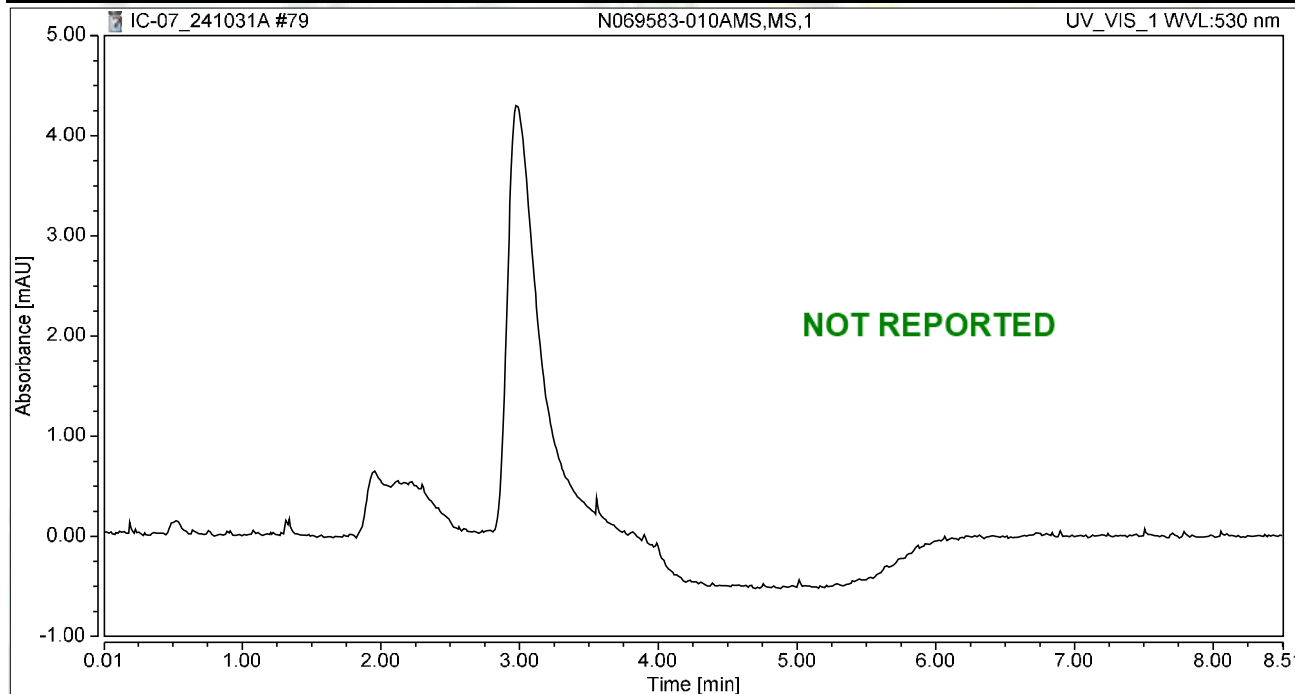
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-010AMS,MS,1	Run Time (min):	8.50
Vial Number:	38	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 21:56	Sample Weight:	1.0000

Chromatogram



Integration Results

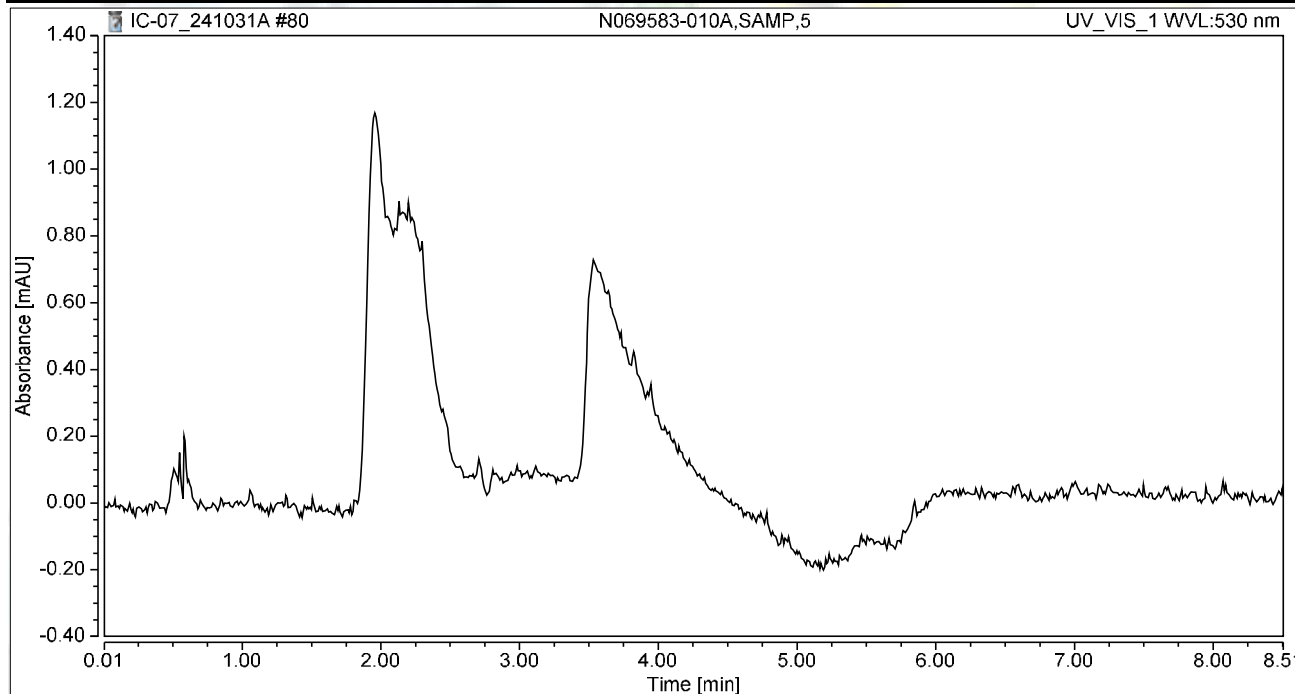
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-010A,SAMP,5	Run Time (min):	8.50
Vial Number:	39	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 22:06	Sample Weight:	1.0000

Chromatogram



Integration Results

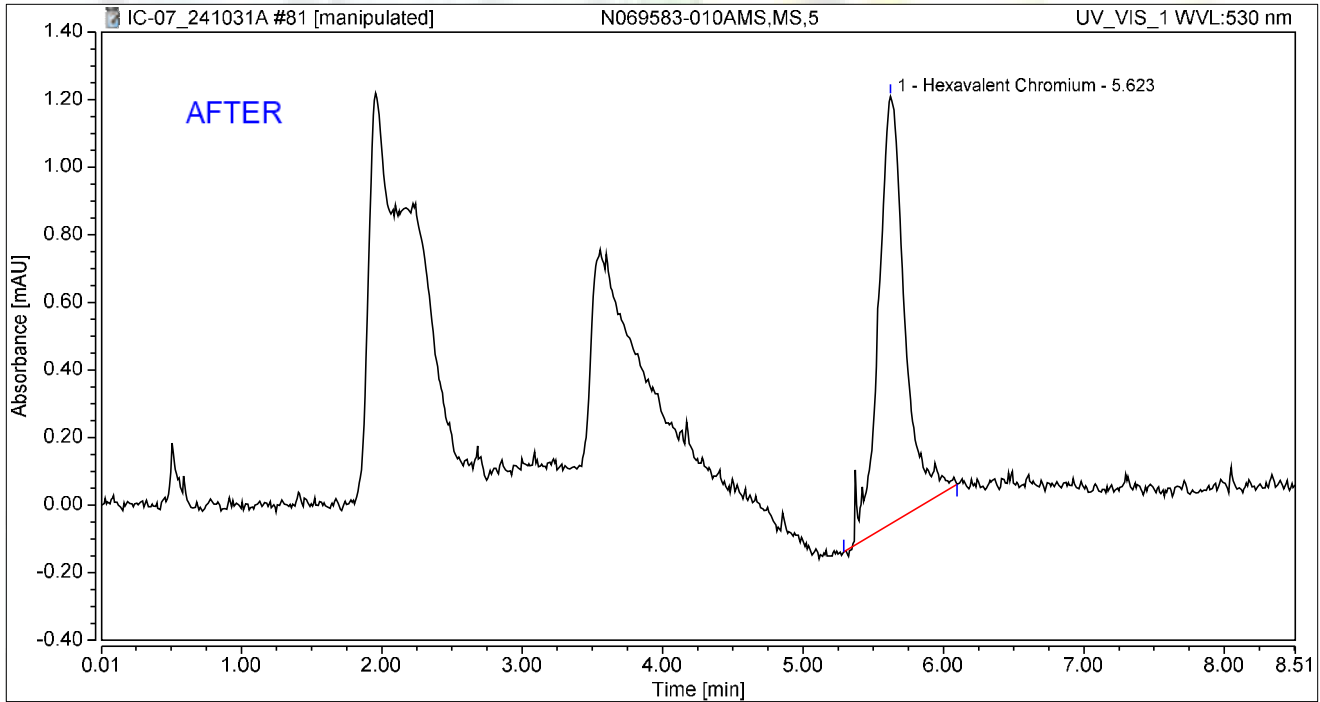
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-010AMS,MS,5	Run Time (min):	8.50
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 22:15	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.623	0.275	1.265	100.00	100.00	0.9680
Total:			0.275	1.265	100.00	100.00	

Reviewed by:

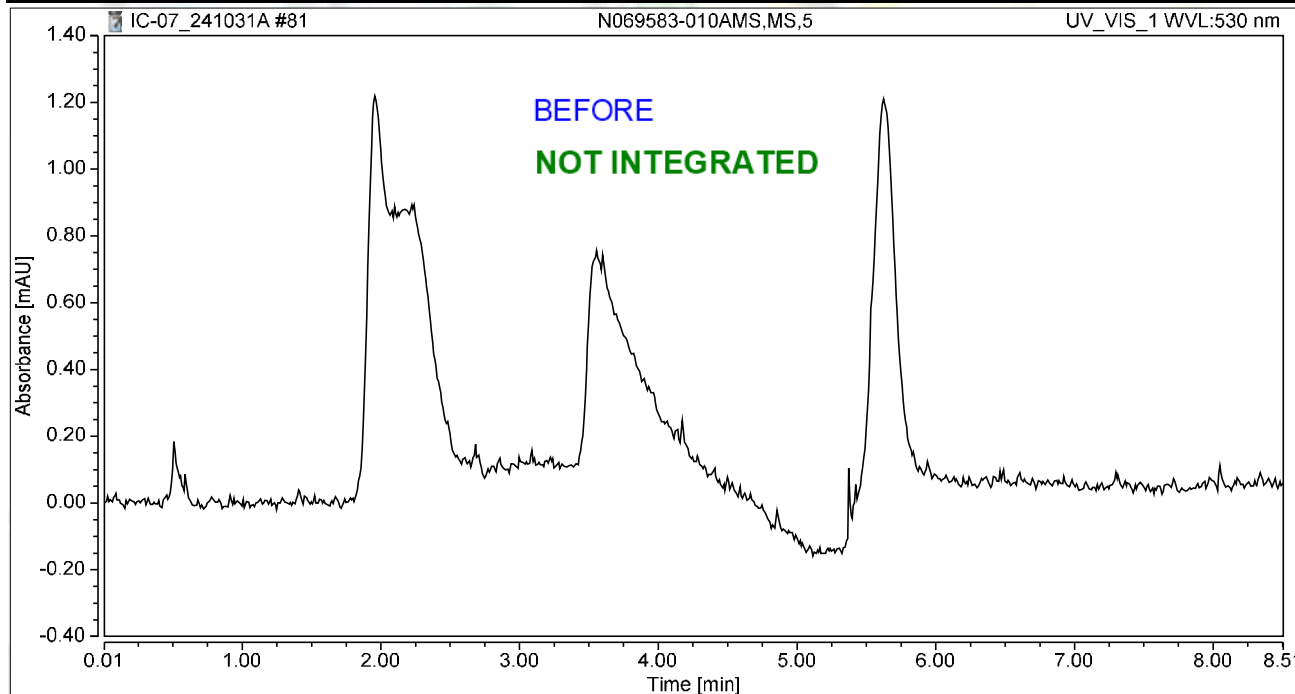
d/Recha 11/13/2024

Chromatogram and Results

Injection Details

Injection Name:	N069583-010AMS,MS,5	Run Time (min):	8.50
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 22:15	Sample Weight:	1.0000

Chromatogram



Integration Results

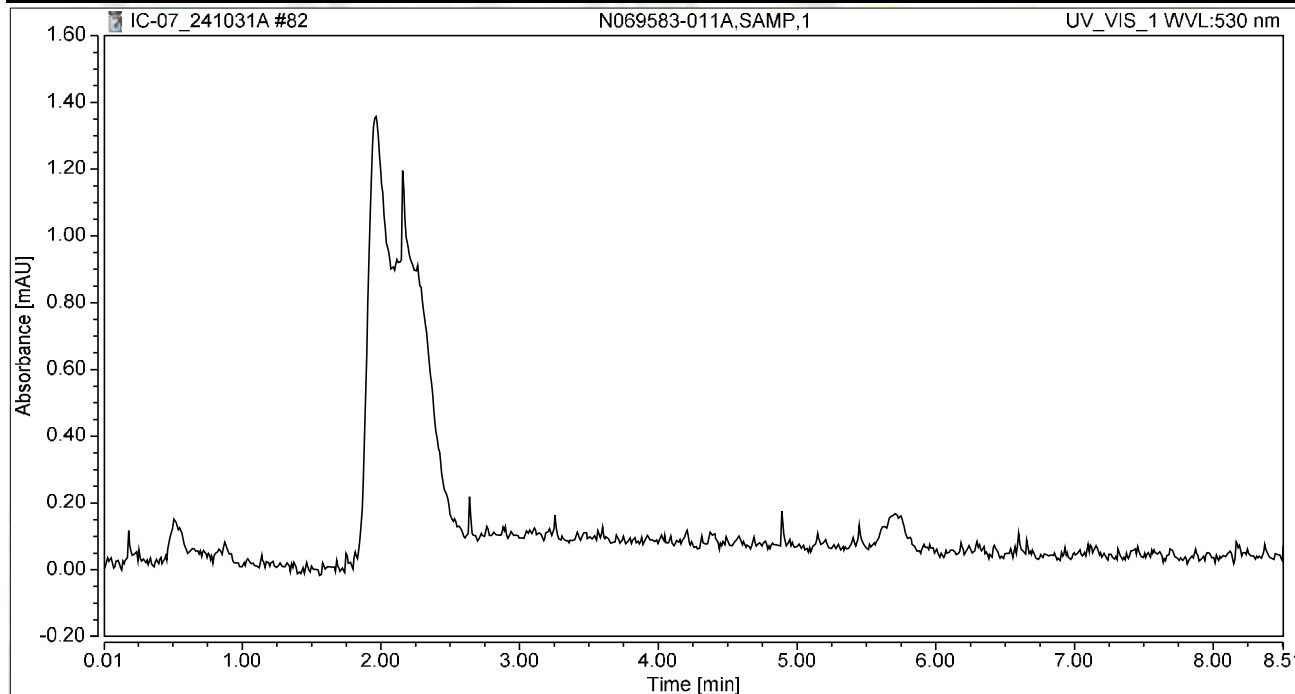
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-011A,SAMP,1	Run Time (min):	8.50
Vial Number:	41	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 22:25	Sample Weight:	1.0000

Chromatogram



Integration Results

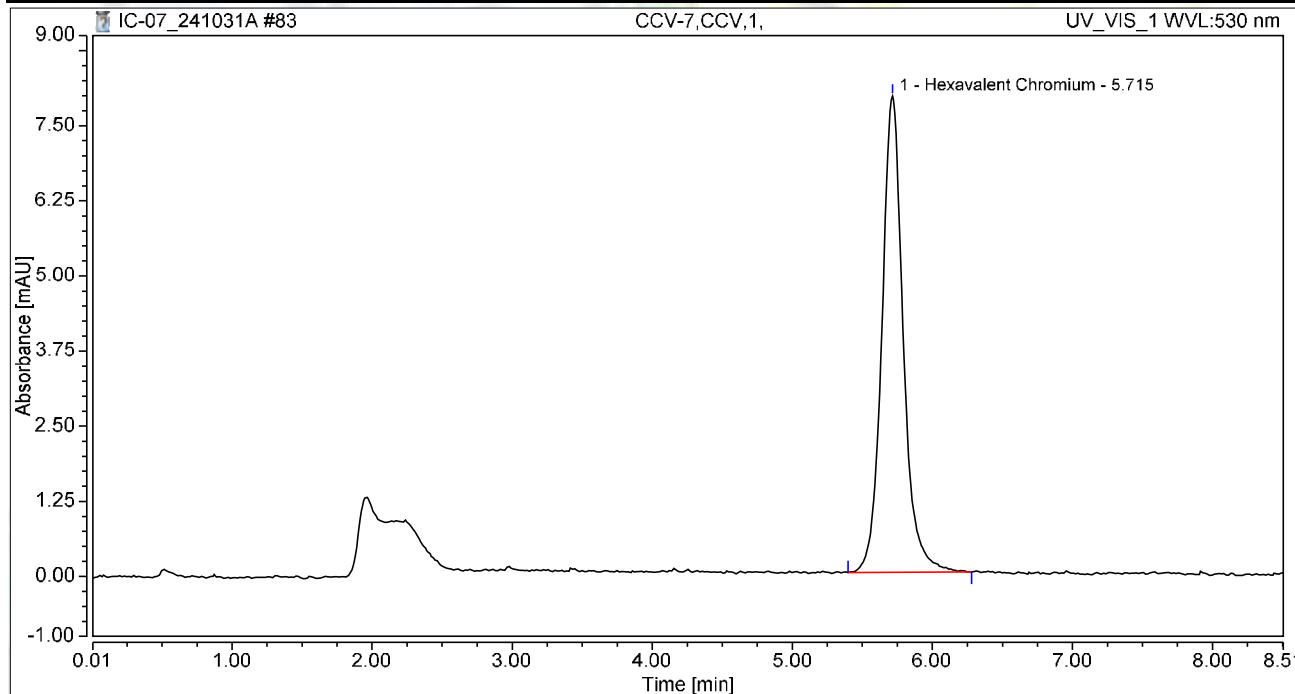
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-7,CCV,1,	Run Time (min):	8.50
Vial Number:	42	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 22:34	Sample Weight:	1.0000

Chromatogram



Integration Results

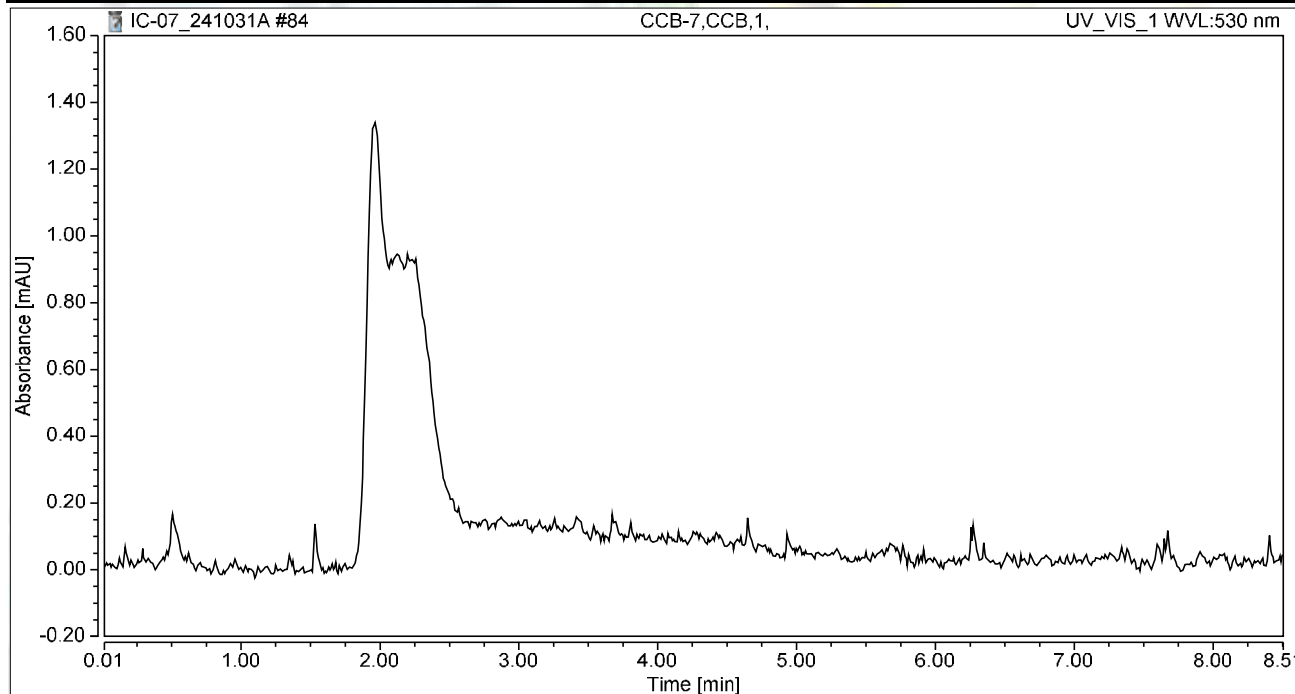
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	1.403	7.927	100.00	100.00	4.9432
Total:			1.403	7.927	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-7,CCB,1,	Run Time (min):	8.49
Vial Number:	43	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 22:44	Sample Weight:	1.0000

Chromatogram



Integration Results

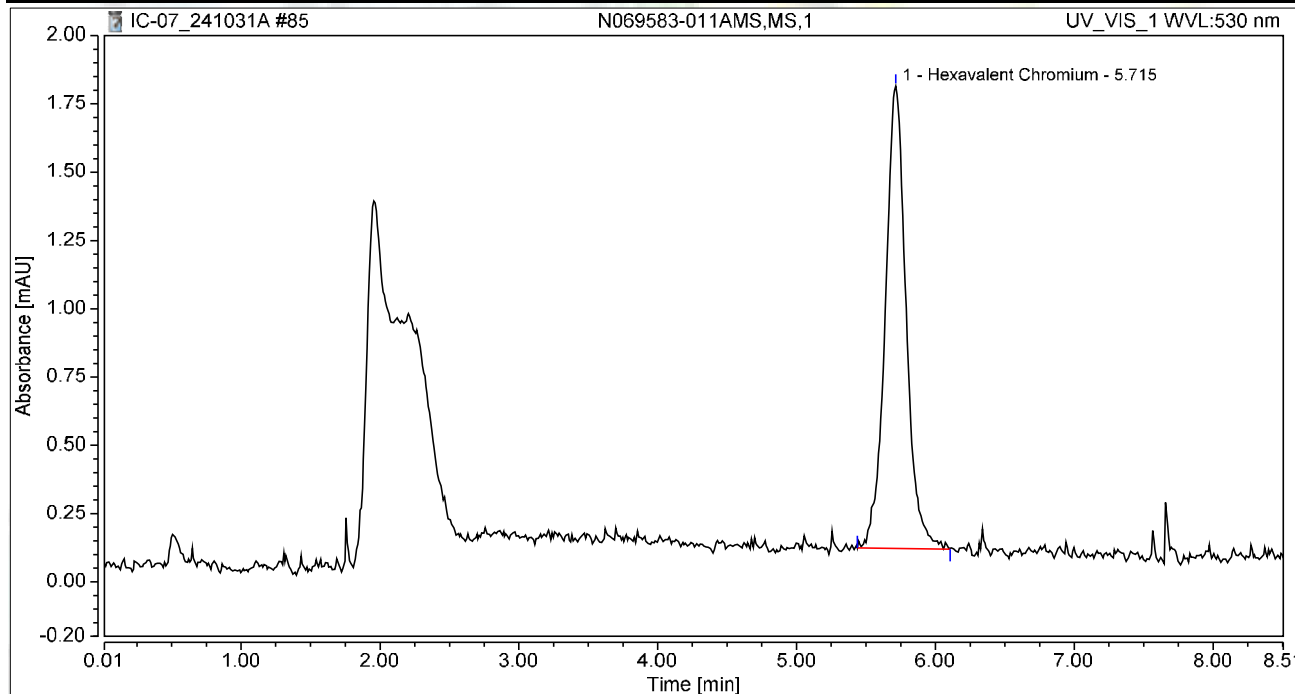
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-011AMS,MS,1	Run Time (min):	8.49
Vial Number:	44	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 22:53	Sample Weight:	1.0000

Chromatogram



Integration Results

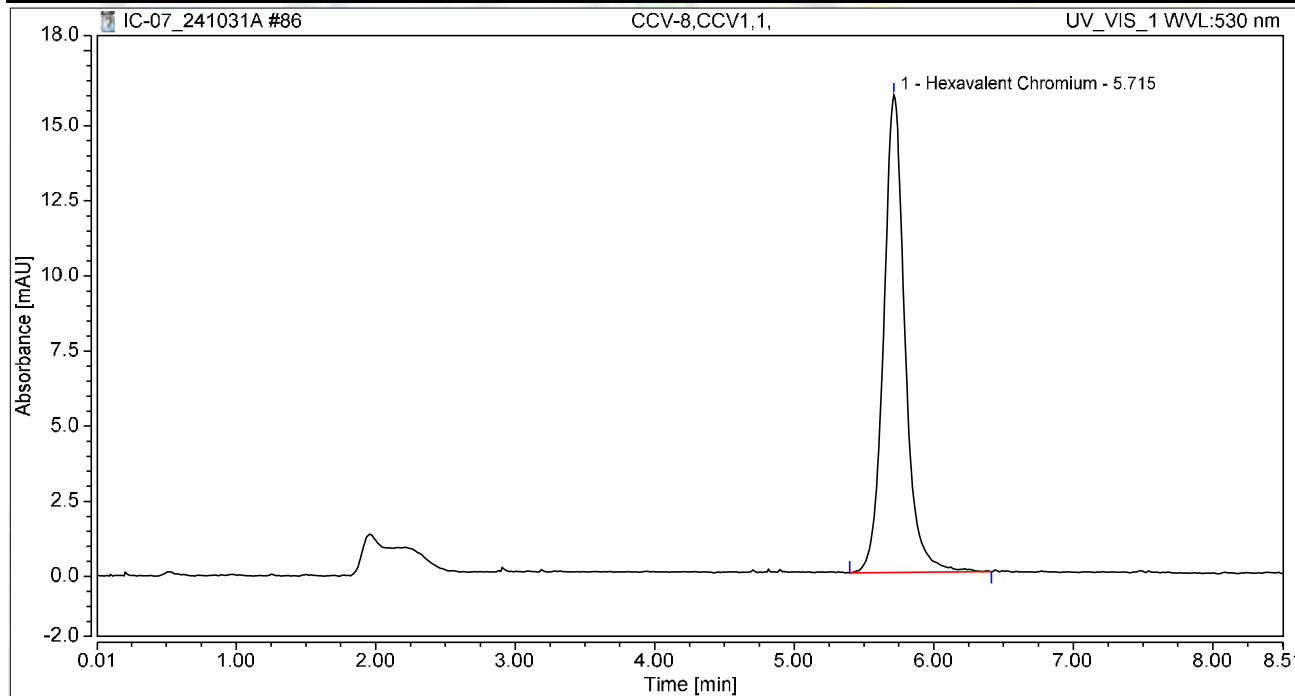
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.296	1.693	100.00	100.00	1.0434
Total:			0.296	1.693	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-8,CCV1,1,	Run Time (min):	8.50
Vial Number:	45	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 23:03	Sample Weight:	1.0000

Chromatogram



Integration Results

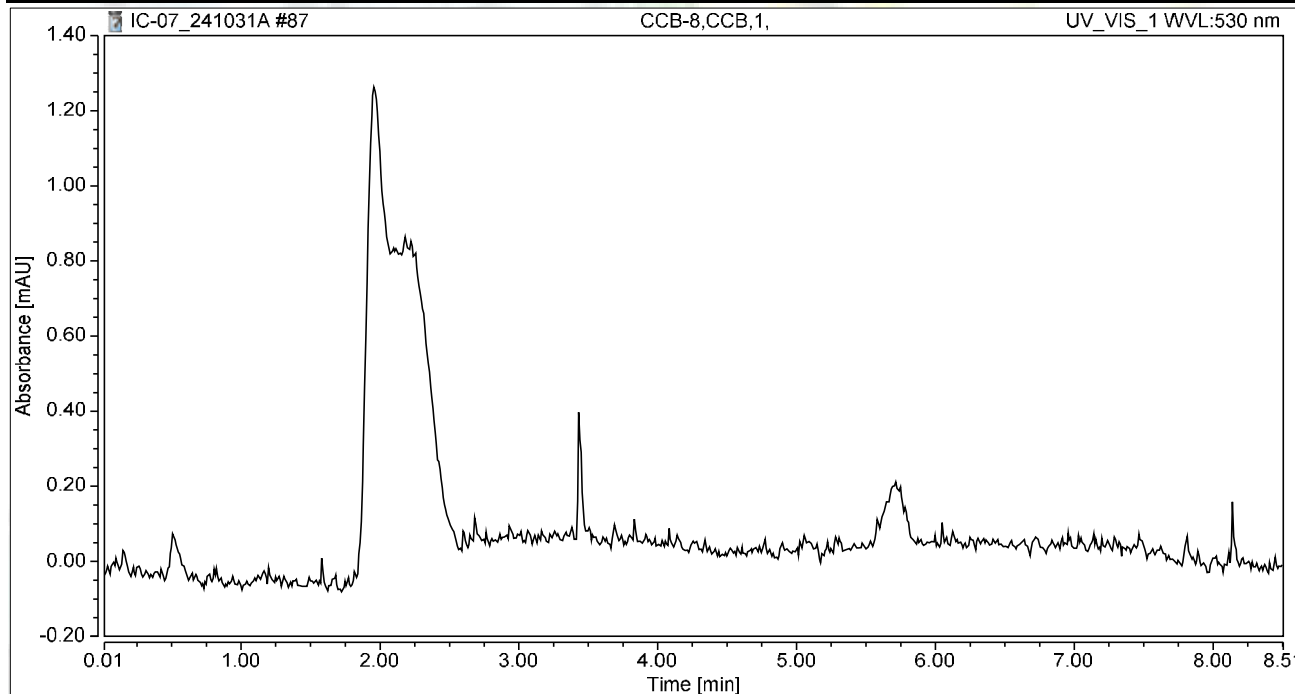
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.806	15.894	100.00	100.00	9.8907
Total:			2.806	15.894	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-8,CCB,1,	Run Time (min):	8.49
Vial Number:	46	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 23:12	Sample Weight:	1.0000

Chromatogram



Integration Results

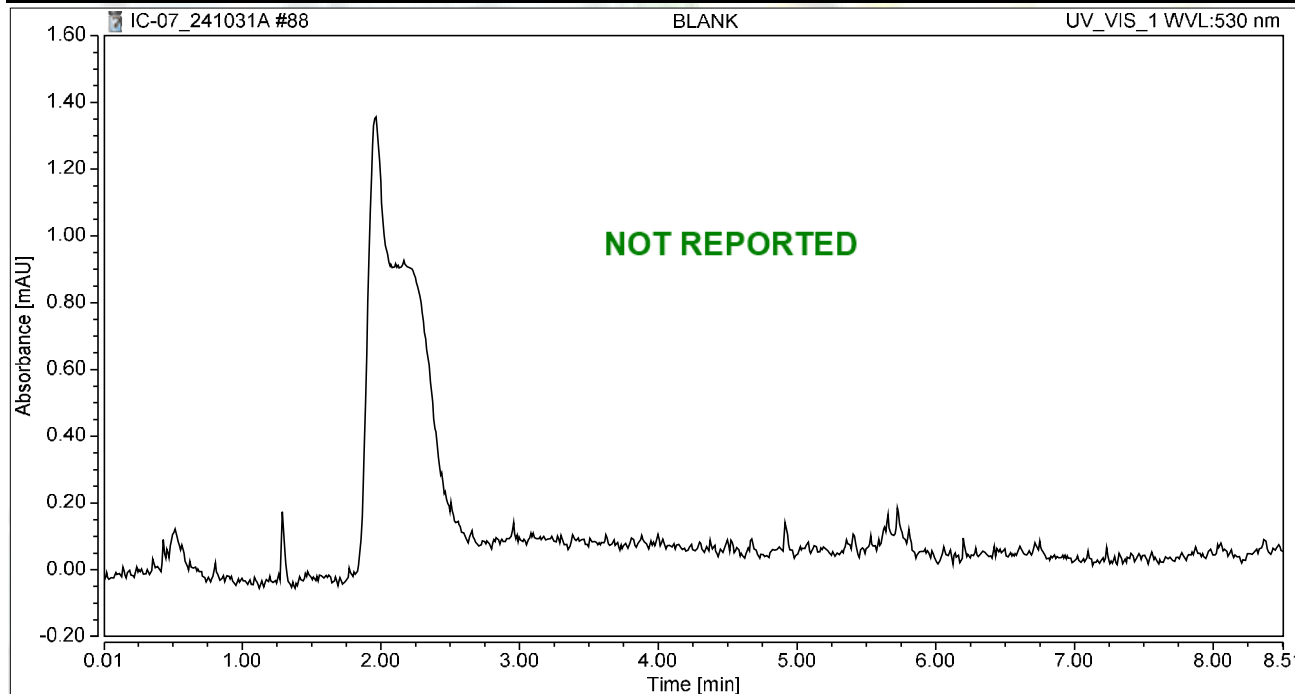
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	47	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 23:22	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

RAW DATA



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"Serving Clients with Passion and Professionalism"

INJECTION LOG: 241101A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	11/01/24 9:57 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	11/01/24 10:11 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	11/01/24 10:20 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	11/01/24 10:30 AM	Reported
13	MB-R195173	MBLK	1	Hexavalent Chromium	11/01/24 10:39 AM	Reported
14	LCS-R195173	LCS	1	Hexavalent Chromium	11/01/24 10:49 AM	Reported
15	N069582-004A	SAMP	50	Hexavalent Chromium	11/01/24 11:05 AM	Reported
16	N069582-004ADUP	DUP	50	Hexavalent Chromium	11/01/24 11:17 AM	Reported
17	N069582-004AMS	MS	50	Hexavalent Chromium	11/01/24 11:26 AM	Reported
18	N069582-005A	SAMP	50	Hexavalent Chromium	11/01/24 11:35 AM	Not Reported
19	N069582-006A	SAMP	50	Hexavalent Chromium	11/01/24 11:45 AM	Reported
20	N069629-001A	SAMP	5	Hexavalent Chromium	11/01/24 11:54 AM	Not Reported
21	N069629-001AMS	MS	5	Hexavalent Chromium	11/01/24 12:04 PM	Not Reported
22	N069629-001AMSD	MSD	5	Hexavalent Chromium	11/01/24 12:13 PM	Not Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	11/01/24 12:23 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	11/01/24 12:32 PM	Reported
25	N069629-002A	SAMP	5	Hexavalent Chromium	11/01/24 12:42 PM	Not Reported
26	N069629-002AMS	MS	5	Hexavalent Chromium	11/01/24 12:51 PM	Not Reported
27	N069629-003A	SAMP	1	Hexavalent Chromium	11/01/24 1:01 PM	Reported
28	N069629-003AMS	MS	1	Hexavalent Chromium	11/01/24 1:10 PM	Reported
29	N069582-006AMS	MS	50	Hexavalent Chromium	11/01/24 1:19 PM	Reported
30	N069582-006AMSD	MSD	50	Hexavalent Chromium	11/01/24 1:29 PM	Reported
31	N069582-005A	SAMP	100	Hexavalent Chromium	11/01/24 1:38 PM	Reported
32	N069582-005AMS	MS	100	Hexavalent Chromium	11/01/24 1:48 PM	Reported
33	N069629-001A	SAMP	1	Hexavalent Chromium	11/01/24 1:57 PM	Reported
34	N069629-001AMS	MS	1	Hexavalent Chromium	11/01/24 2:07 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	11/01/24 2:16 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	11/01/24 2:26 PM	Reported
37	N069629-002A	SAMP	1	Hexavalent Chromium	11/01/24 2:35 PM	Reported
38	N069629-002AMS	MS	1	Hexavalent Chromium	11/01/24 2:45 PM	Reported
39	N069629-001AMS	MS	5	Hexavalent Chromium	11/01/24 2:54 PM	Not Reported
40	N069629-002AMS	MS	5	Hexavalent Chromium	11/01/24 3:03 PM	Not Reported
41	N069631-008A	SAMP	1	Hexavalent Chromium	11/01/24 3:13 PM	Not Reported
42	N069631-008AMS	MS	1	Hexavalent Chromium	11/01/24 3:22 PM	Not Reported

INJECTION LOG: 241101A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069631-008A	SAMP	5	Hexavalent Chromium	11/01/24 3:32 PM	Reported
44	N069631-008AMS	MS	5	Hexavalent Chromium	11/01/24 3:41 PM	Reported
45	N069631-009A	SAMP	1	Hexavalent Chromium	11/01/24 3:51 PM	Not Reported
46	N069631-009AMS	MS	1	Hexavalent Chromium	11/01/24 4:00 PM	Not Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	11/01/24 4:19 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	11/01/24 4:31 PM	Reported
49	N069631-009A	SAMP	5	Hexavalent Chromium	11/01/24 4:40 PM	Reported
50	N069631-009AMS	MS	5	Hexavalent Chromium	11/01/24 4:50 PM	Reported
51	N069631-010A	SAMP	1	Hexavalent Chromium	11/01/24 4:59 PM	Not Reported
52	N069631-010AMS	MS	1	Hexavalent Chromium	11/01/24 5:08 PM	Not Reported
53	N069631-010A	SAMP	5	Hexavalent Chromium	11/01/24 5:18 PM	Reported
54	N069631-010AMS	MS	5	Hexavalent Chromium	11/01/24 5:27 PM	Reported
55	N069631-011A	SAMP	1	Hexavalent Chromium	11/01/24 5:37 PM	Not Reported
56	N069631-011AMS	MS	1	Hexavalent Chromium	11/01/24 5:46 PM	Not Reported
57	N069631-011A	SAMP	5	Hexavalent Chromium	11/01/24 5:56 PM	Reported
58	N069631-011AMS	MS	5	Hexavalent Chromium	11/01/24 6:05 PM	Reported
59	CCV-5	CCV	1	Hexavalent Chromium	11/01/24 6:15 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	11/01/24 6:24 PM	Reported
61	N069631-012A	SAMP	1	Hexavalent Chromium	11/01/24 6:34 PM	Not Reported
62	N069631-012AMS	MS	1	Hexavalent Chromium	11/01/24 6:43 PM	Not Reported
63	N069631-012A	SAMP	5	Hexavalent Chromium	11/01/24 6:52 PM	Reported
64	N069631-012AMS	MS	5	Hexavalent Chromium	11/01/24 7:02 PM	Reported
65	N069631-013A	SAMP	1	Hexavalent Chromium	11/01/24 7:11 PM	Not Reported
66	N069631-013AMS	MS	1	Hexavalent Chromium	11/01/24 7:21 PM	Not Reported
67	N069631-013A	SAMP	5	Hexavalent Chromium	11/01/24 7:30 PM	Reported
68	N069631-013AMS	MS	5	Hexavalent Chromium	11/01/24 7:40 PM	Reported
69	N069631-014A	SAMP	1	Hexavalent Chromium	11/01/24 7:49 PM	Not Reported
70	N069631-014AMS	MS	1	Hexavalent Chromium	11/01/24 7:59 PM	Not Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	11/01/24 8:08 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	11/01/24 8:18 PM	Reported
73	N069631-014A	SAMP	5	Hexavalent Chromium	11/01/24 8:27 PM	Reported
74	N069631-014AMS	MS	5	Hexavalent Chromium	11/01/24 8:36 PM	Reported
75	N069631-001A	SAMP	1	Hexavalent Chromium	11/01/24 8:46 PM	Reported
76	N069631-001AMS	MS	1	Hexavalent Chromium	11/01/24 8:55 PM	Reported
77	N069631-002A	SAMP	1	Hexavalent Chromium	11/01/24 9:05 PM	Reported
78	N069631-002AMS	MS	1	Hexavalent Chromium	11/01/24 9:14 PM	Reported
79	N069631-003A	SAMP	1	Hexavalent Chromium	11/01/24 9:24 PM	Reported
80	N069631-003AMS	MS	1	Hexavalent Chromium	11/01/24 9:33 PM	Reported
81	N069631-004A	SAMP	1	Hexavalent Chromium	11/01/24 9:43 PM	Reported
82	N069631-004AMS	MS	1	Hexavalent Chromium	11/01/24 9:52 PM	Reported
83	CCV-7	CCV	1	Hexavalent Chromium	11/01/24 10:02 PM	Reported
84	CCB-7	CCB	1	Hexavalent Chromium	11/01/24 10:11 PM	Reported

INJECTION LOG: 241101A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N069631-005A	SAMP	1	Hexavalent Chromium	11/01/24 10:20 PM	Reported
86	N069631-005AMS	MS	1	Hexavalent Chromium	11/01/24 10:30 PM	Reported
87	N069631-006A	SAMP	1	Hexavalent Chromium	11/01/24 10:39 PM	Reported
88	N069631-006AMS	MS	1	Hexavalent Chromium	11/01/24 10:49 PM	Reported
89	N069631-007A	SAMP	1	Hexavalent Chromium	11/01/24 10:58 PM	Reported
90	N069631-007AMS	MS	1	Hexavalent Chromium	11/01/24 11:08 PM	Reported
91	CCV-8	CCV1	1	Hexavalent Chromium	11/01/24 11:17 PM	Reported
92	CCB-8	CCB	1	Hexavalent Chromium	11/01/24 11:27 PM	Reported
93	BLANK	BLANK	1	Hexavalent Chromium	11/01/24 11:36 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241101A	Created On:	24Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	02/Nov/24 00:06:57
No. of Injections:	96	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	BLANK	1	1000	Unknown		11/01/2024 09:57	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		11/01/2024 10:11	Finished	CCV @5ppb, IWST-240729A
11	PQL@0.2ppb,CCV2,	3	1000	Unknown		11/01/2024 10:20	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		11/01/2024 10:30	Finished	CCB R241001A
13	MB-H2O,MBLK,1,	5	1000	Unknown		11/01/2024 10:39	Finished	MB R241001A
14	LCS-H2O,LCS,1,	6	1000	Unknown		11/01/2024 10:49	Finished	LCS @5ppb, IWST-240729B
15	N069582-004A,SAMP	1	1000	Unknown		11/01/2024 11:05	Finished	SAMP,0.2>10 mL
16	N069582-004ADUP,D	2	1000	Unknown		11/01/2024 11:17	Finished	DUP,0.2>10 mL
17	N069582-004AMS,MS	3	1000	Unknown		11/01/2024 11:26	Finished	MS (5ppb), IWST-240729B,0.2
18	N069582-005A,SAMP	4	1000	Unknown		11/01/2024 11:35	Finished	SAMP,0.2>10 mL
19	N069582-006A,SAMP	5	1000	Unknown		11/01/2024 11:45	Finished	SAMP,0.2>10 mL
20	N069629-001A,SAMP	6	1000	Unknown		11/01/2024 11:54	Finished	SAMP,2>10 mL
21	N069629-001AMS,MS	7	1000	Unknown		11/01/2024 12:04	Finished	MS (5ppb), IWST-240729B,2>1
22	N069629-001AMSD,N	8	1000	Unknown		11/01/2024 12:13	Finished	MSD (5ppb), IWST-240729B,2>1
23	CCV-2,CCV1,1,	9	1000	Unknown		11/01/2024 12:23	Finished	CCV @10ppb, IWST-240729A
24	CCB-2,CCB,1,	10	1000	Unknown		11/01/2024 12:32	Finished	CCB R241001A
25	N069629-002A,SAMP	11	1000	Unknown		11/01/2024 12:42	Finished	SAMP,2>10 mL
26	N069629-002AMS,MS	12	1000	Unknown		11/01/2024 12:51	Finished	MS (5ppb), IWST-240729B,2>1
27	N069629-003A,SAMP	13	1000	Unknown		11/01/2024 13:01	Finished	SAMP,10 mL
28	N069629-003AMS,MS	14	1000	Unknown		11/01/2024 13:10	Finished	MS (1ppb), IWST-240729B,10r
29	N069582-006AMS,MS	15	1000	Unknown		11/01/2024 13:19	Finished	MS (5ppb), IWST-240729B,0.2
30	N069582-006AMSD,N	16	1000	Unknown		11/01/2024 13:29	Finished	MSD (5ppb), IWST-240729B,0.2
31	N069582-005A,SAMP	17	1000	Unknown		11/01/2024 13:38	Finished	SAMP,0.1>10 mL
32	N069582-005AMS,MS	18	1000	Unknown		11/01/2024 13:48	Finished	MS (5ppb), IWST-240729B,0.1
33	N069629-001A,SAMP	19	1000	Unknown		11/01/2024 13:57	Finished	SAMP,10 mL
34	N069629-001AMS,MS	20	1000	Unknown		11/01/2024 14:07	Finished	MS (1ppb), IWST-240729B,10r
35	CCV-3,CCV,1,	21	1000	Unknown		11/01/2024 14:16	Finished	CCV @5ppb, IWST-240729A
36	CCB-3,CCB,1,	22	1000	Unknown		11/01/2024 14:26	Finished	CCB R241001A
37	N069629-002A,SAMP	23	1000	Unknown		11/01/2024 14:35	Finished	SAMP,10 mL
38	N069629-002AMS,MS	24	1000	Unknown		11/01/2024 14:45	Finished	MS (1ppb), IWST-240729B,10r
39	N069629-001AMS,MS	25	1000	Unknown		11/01/2024 14:54	Finished	MS (1ppb), IWST-240729B,2>1
40	N069629-002AMS,MS	26	1000	Unknown		11/01/2024 15:03	Finished	MS (1ppb), IWST-240729B,2>1
41	N069631-008A,SAMP	27	1000	Unknown		11/01/2024 15:13	Finished	SAMP,10 mL
42	N069631-008AMS,MS	28	1000	Unknown		11/01/2024 15:22	Finished	MS (1ppb), IWST-240729B,10r
43	N069631-008A,SAMP	29	1000	Unknown		11/01/2024 15:32	Finished	SAMP,2>10 mL
44	N069631-008AMS,MS	30	1000	Unknown		11/01/2024 15:41	Finished	MS (1ppb), IWST-240729B,2>1
45	N069631-009A,SAMP	31	1000	Unknown		11/01/2024 15:51	Finished	SAMP,10 mL
46	N069631-009AMS,MS	32	1000	Unknown		11/01/2024 16:00	Finished	MS (1ppb), IWST-240729B,10r
47	CCV-4,CCV1,1,	1	1000	Unknown		11/01/2024 16:19	Finished	CCV @10ppb, IWST-240729A
48	CCB-4,CCB,1,	2	1000	Unknown		11/01/2024 16:31	Finished	CCB R241001A
49	N069631-009A,SAMP	3	1000	Unknown		11/01/2024 16:40	Finished	SAMP,2>10 mL
50	N069631-009AMS,MS	4	1000	Unknown		11/01/2024 16:50	Finished	MS (1ppb), IWST-240729B,2>1
51	N069631-010A,SAMP	5	1000	Unknown		11/01/2024 16:59	Finished	SAMP,10 mL
52	N069631-010AMS,MS	6	1000	Unknown		11/01/2024 17:08	Finished	MS (1ppb), IWST-240729B,10r
53	N069631-010A,SAMP	7	1000	Unknown		11/01/2024 17:18	Finished	SAMP,2>10 mL
54	N069631-010AMS,MS	8	1000	Unknown		11/01/2024 17:27	Finished	MS (1ppb), IWST-240729B,2>1
55	N069631-011A,SAMP	9	1000	Unknown		11/01/2024 17:37	Finished	SAMP,10 mL
56	N069631-011AMS,MS	10	1000	Unknown		11/01/2024 17:46	Finished	MS (1ppb), IWST-240729B,10r
57	N069631-011A,SAMP	11	1000	Unknown		11/01/2024 17:56	Finished	SAMP,2>10 mL
58	N069631-011AMS,MS	12	1000	Unknown		11/01/2024 18:05	Finished	MS (1ppb), IWST-240729B,2>1
59	CCV-5,CCV,1,	13	1000	Unknown		11/01/2024 18:15	Finished	CCV @5ppb, IWST-240729A
60	CCB-5,CCB,1,	14	1000	Unknown		11/01/2024 18:24	Finished	CCB R241001A

61	N069631-012A,SAMP	15	1000	Unknown	11/01/2024 18:34	Finished	SAMP,10 mL
62	N069631-012AMS,MS	16	1000	Unknown	11/01/2024 18:43	Finished	MS (1ppb), IWST-240729B,10r
63	N069631-012A,SAMP	17	1000	Unknown	11/01/2024 18:52	Finished	SAMP,2>10 mL
64	N069631-012AMS,MS	18	1000	Unknown	11/01/2024 19:02	Finished	MS (1ppb), IWST-240729B,2>1
65	N069631-013A,SAMP	19	1000	Unknown	11/01/2024 19:11	Finished	SAMP,10 mL
66	N069631-013AMS,MS	20	1000	Unknown	11/01/2024 19:21	Finished	MS (1ppb), IWST-240729B,10r
67	N069631-013A,SAMP	21	1000	Unknown	11/01/2024 19:30	Finished	SAMP,2>10 mL
68	N069631-013AMS,MS	22	1000	Unknown	11/01/2024 19:40	Finished	MS (1ppb), IWST-240729B,2>1
69	N069631-014A,SAMP	23	1000	Unknown	11/01/2024 19:49	Finished	MS (1ppb), IWST-240729B,2>1
70	N069631-014AMS,MS	24	1000	Unknown	11/01/2024 19:59	Finished	SAMP,10 mL
71	CCV-6,CCV1,1,	25	1000	Unknown	11/01/2024 20:08	Finished	CCV @10ppb, IWST-240729A
72	CCB-6,CCB,1,	26	1000	Unknown	11/01/2024 20:18	Finished	CCB R241001A
73	N069631-014A,SAMP	27	1000	Unknown	11/01/2024 20:27	Finished	SAMP,2>10 mL
74	N069631-014AMS,MS	28	1000	Unknown	11/01/2024 20:36	Finished	MS (1ppb), IWST-240729B,2>1
75	N069631-001A,SAMP	29	1000	Unknown	11/01/2024 20:46	Finished	SAMP,10 mL
76	N069631-001AMS,MS	30	1000	Unknown	11/01/2024 20:55	Finished	MS (1ppb), IWST-240729B,10r
77	N069631-002A,SAMP	31	1000	Unknown	11/01/2024 21:05	Finished	SAMP,10 mL
78	N069631-002AMS,MS	32	1000	Unknown	11/01/2024 21:14	Finished	MS (1ppb), IWST-240729B,10r
79	N069631-003A,SAMP	33	1000	Unknown	11/01/2024 21:24	Finished	SAMP,10 mL
80	N069631-003AMS,MS	34	1000	Unknown	11/01/2024 21:33	Finished	MS (1ppb), IWST-240729B,10r
81	N069631-004A,SAMP	35	1000	Unknown	11/01/2024 21:43	Finished	SAMP,10 mL
82	N069631-004AMS,MS	36	1000	Unknown	11/01/2024 21:52	Finished	MS (1ppb), IWST-240729B,10r
83	CCV-7,CCV,1,	37	1000	Unknown	11/01/2024 22:02	Finished	CCV @5ppb, IWST-240729A
84	CCB-7,CCB,1,	38	1000	Unknown	11/01/2024 22:11	Finished	CCB R241001A
85	N069631-005A,SAMP	39	1000	Unknown	11/01/2024 22:20	Finished	SAMP,10 mL
86	N069631-005AMS,MS	40	1000	Unknown	11/01/2024 22:30	Finished	MS (1ppb), IWST-240729B,10r
87	N069631-006A,SAMP	41	1000	Unknown	11/01/2024 22:39	Finished	SAMP,10 mL
88	N069631-006AMS,MS	42	1000	Unknown	11/01/2024 22:49	Finished	MS (1ppb), IWST-240729B,10r
89	N069631-007A,SAMP	43	1000	Unknown	11/01/2024 22:58	Finished	SAMP,10 mL
90	N069631-007AMS,MS	44	1000	Unknown	11/01/2024 23:08	Finished	MS (1ppb), IWST-240729B,10r
91	CCV-8,CCV1,1,	45	1000	Unknown	11/01/2024 23:17	Finished	CCV @10ppb, IWST-240729A
92	CCB-8,CCB,1,	46	1000	Unknown	11/01/2024 23:27	Finished	CCB R241001A
93	BLANK	47	1000	Unknown	11/01/2024 23:36	Finished	BLANK
94	SHUTDOWN	48	1000	Unknown	11/01/2024 23:46	Finished	
95	Eluent: R241029A	49	1000	Unknown	n.a.	Finished	
96	PCR: R241029B	50	1000	Unknown	n.a.	Finished	

Reviewed by:

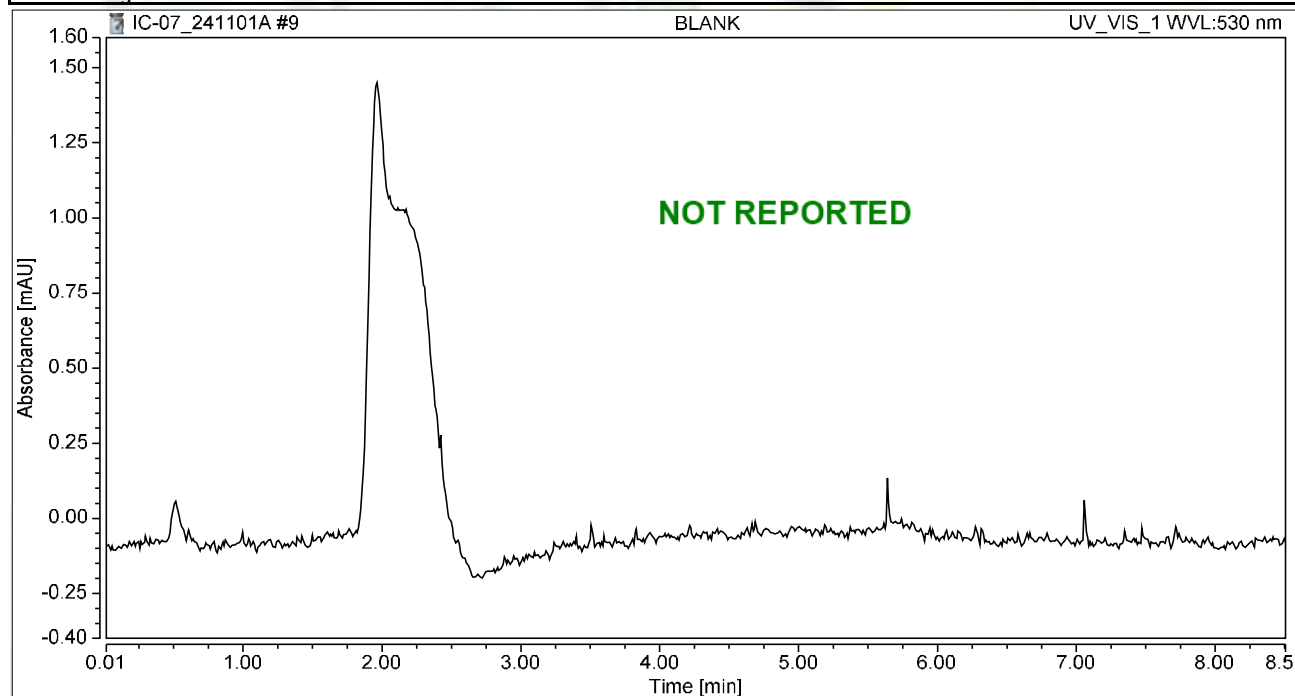
MRecha 11/7/2024

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 09:57	Sample Weight:	1.0000

Chromatogram



Integration Results

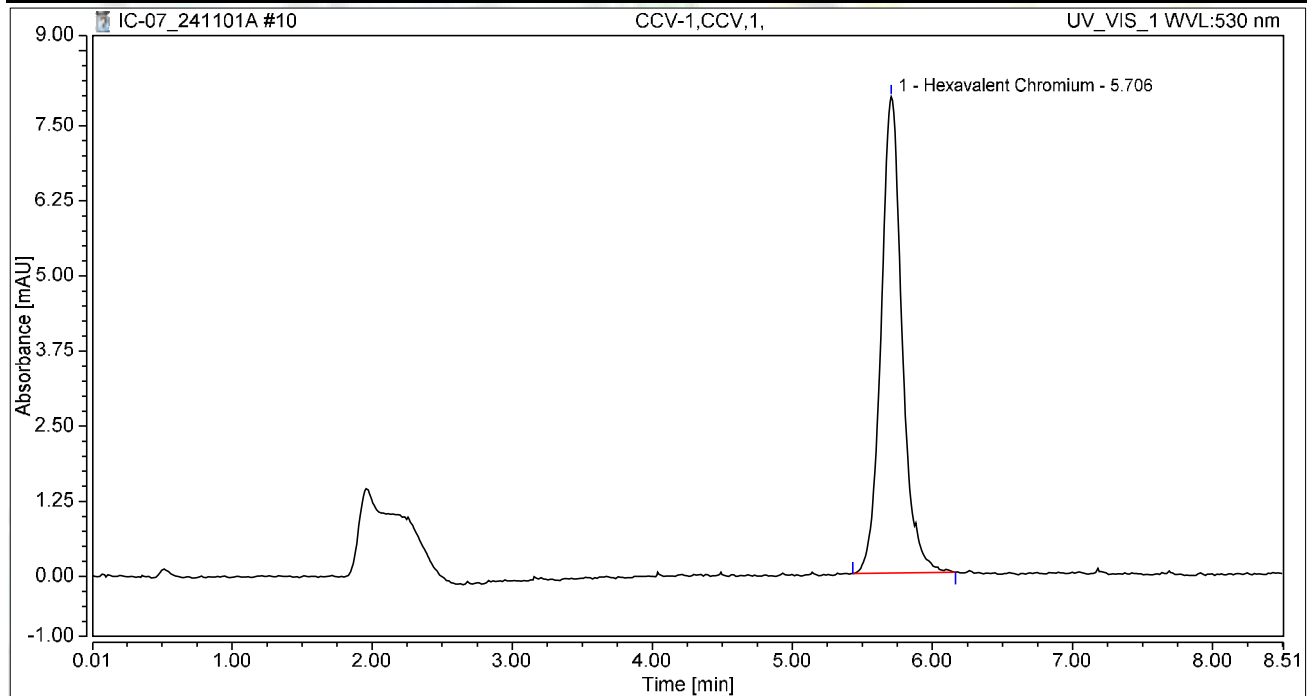
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-1,CCV,1,	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 10:11	Sample Weight:	1.0000

Chromatogram



Integration Results

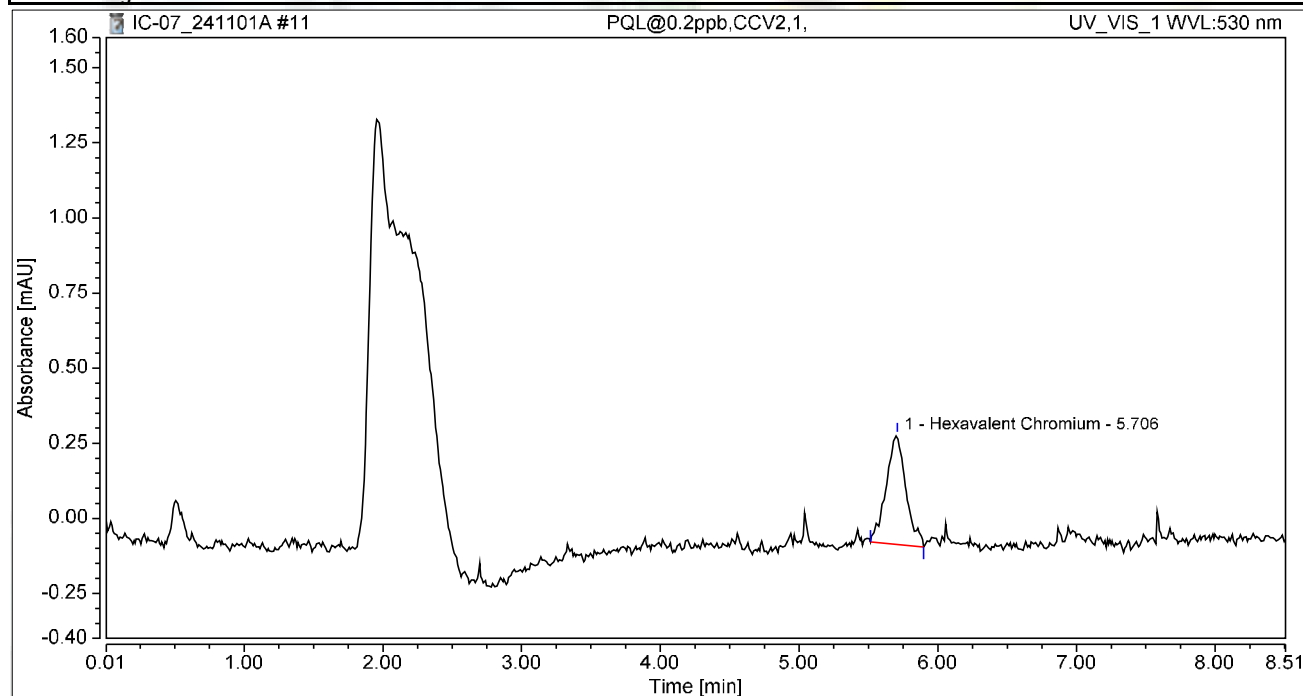
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	1.379	7.932	100.00	100.00	4.8582
Total:			1.379	7.932	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 10:20	Sample Weight:	1.0000

Chromatogram



Integration Results

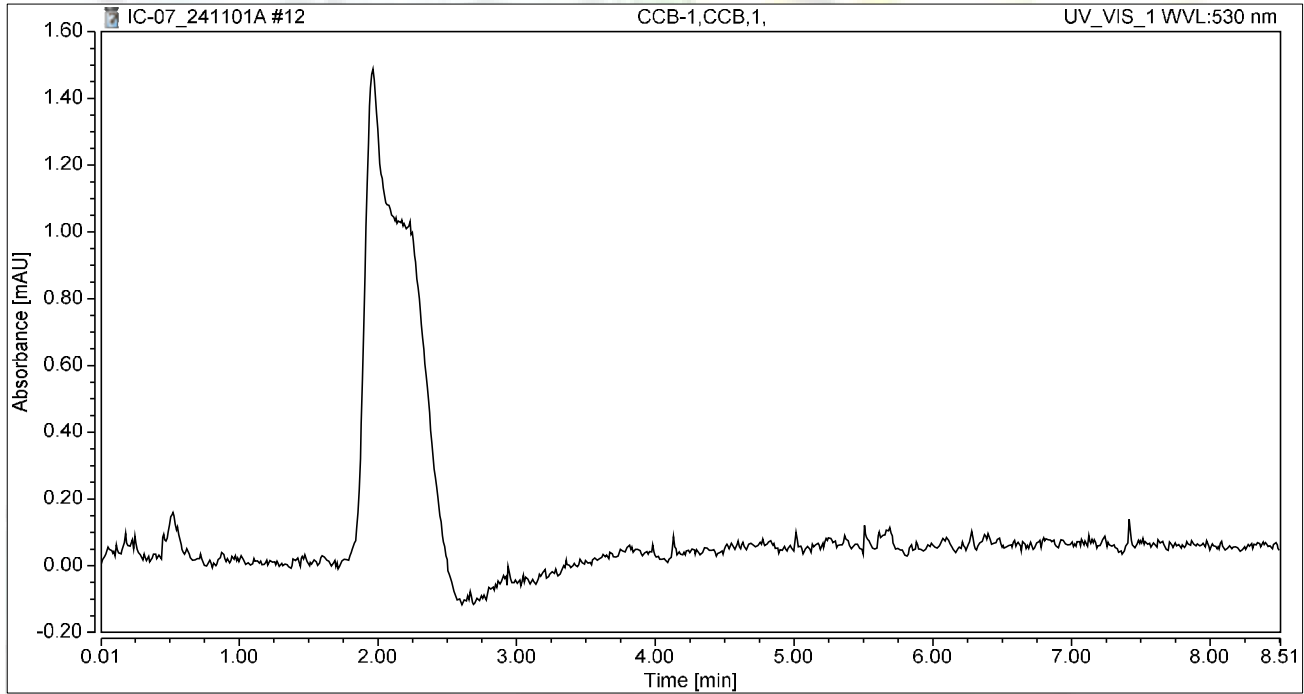
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	0.060	0.365	100.00	100.00	0.2120
Total:			0.060	0.365	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-1,CCB,1,	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 10:30	Sample Weight:	1.0000

Chromatogram



Integration Results

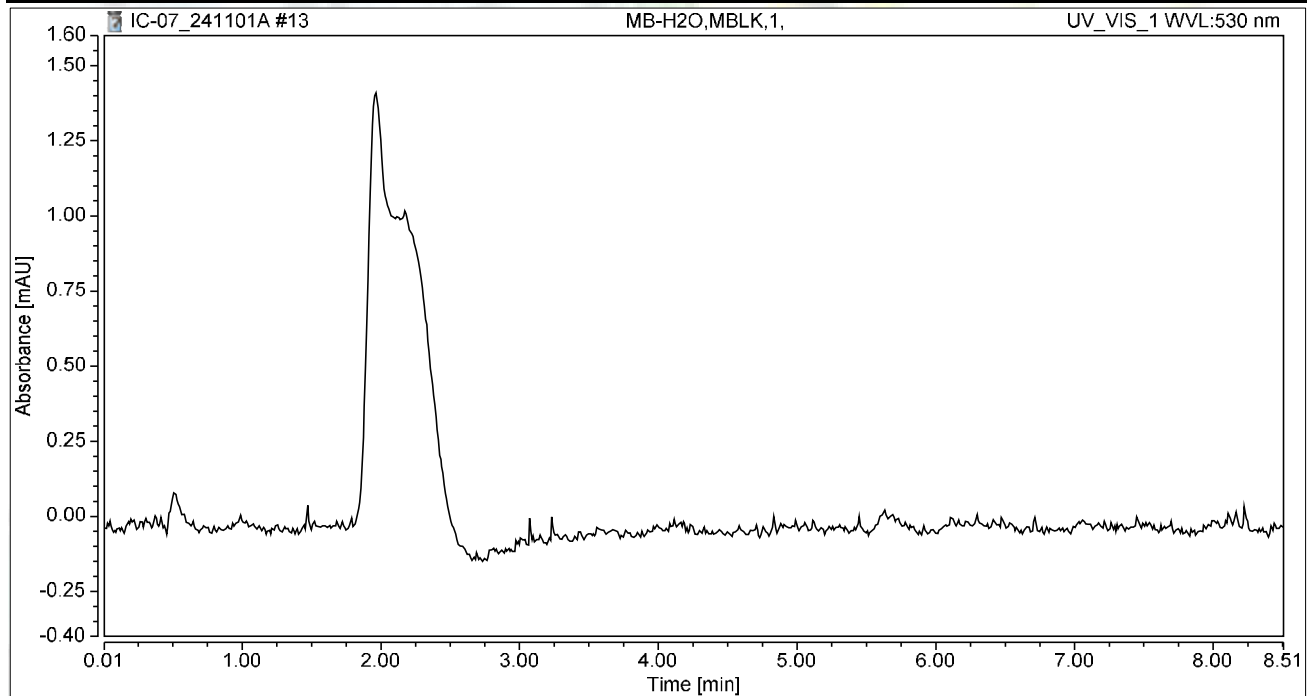
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 10:39	Sample Weight:	1.0000

Chromatogram



Integration Results

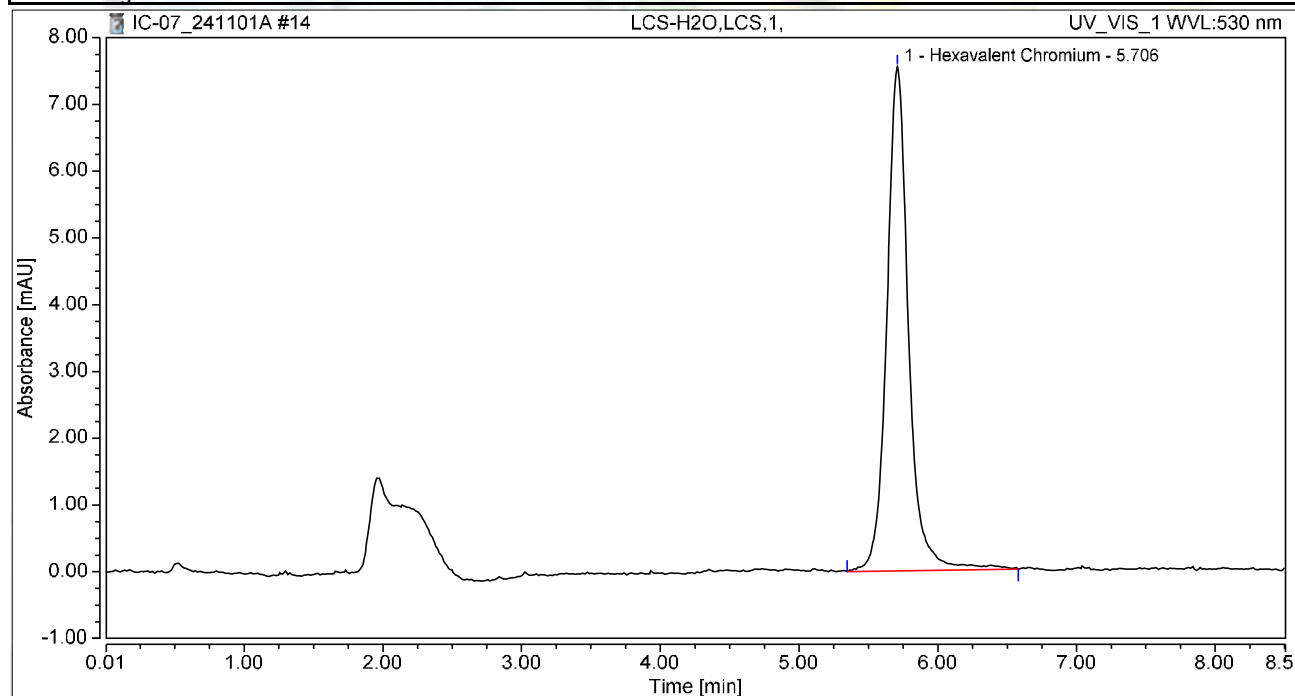
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-H2O,LCS,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 10:49	Sample Weight:	1.0000

Chromatogram



Integration Results

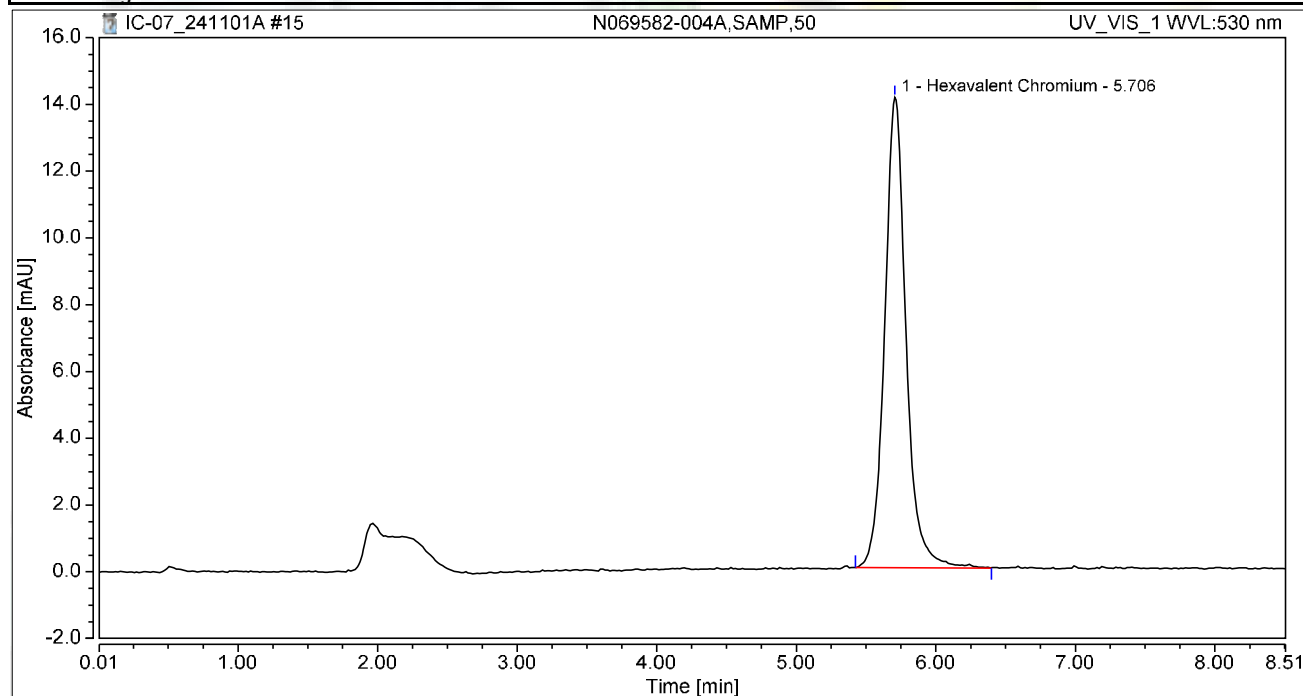
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	1.374	7.557	100.00	100.00	4.8414
Total:			1.374	7.557	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-004A,SAMP,50	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 11:05	Sample Weight:	1.0000

Chromatogram



Integration Results

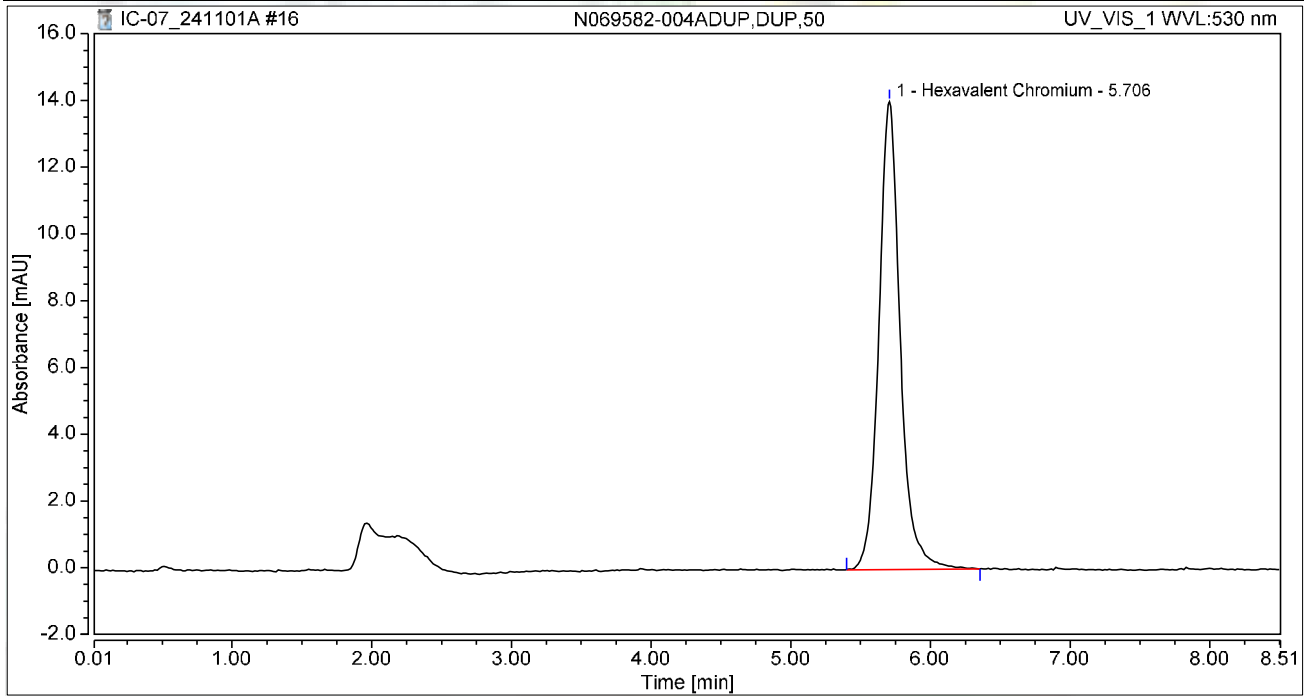
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	2.487	14.081	100.00	100.00	8.7654
Total:			2.487	14.081	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-004ADUP,DUP,50	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 11:17	Sample Weight:	1.0000

Chromatogram



Integration Results

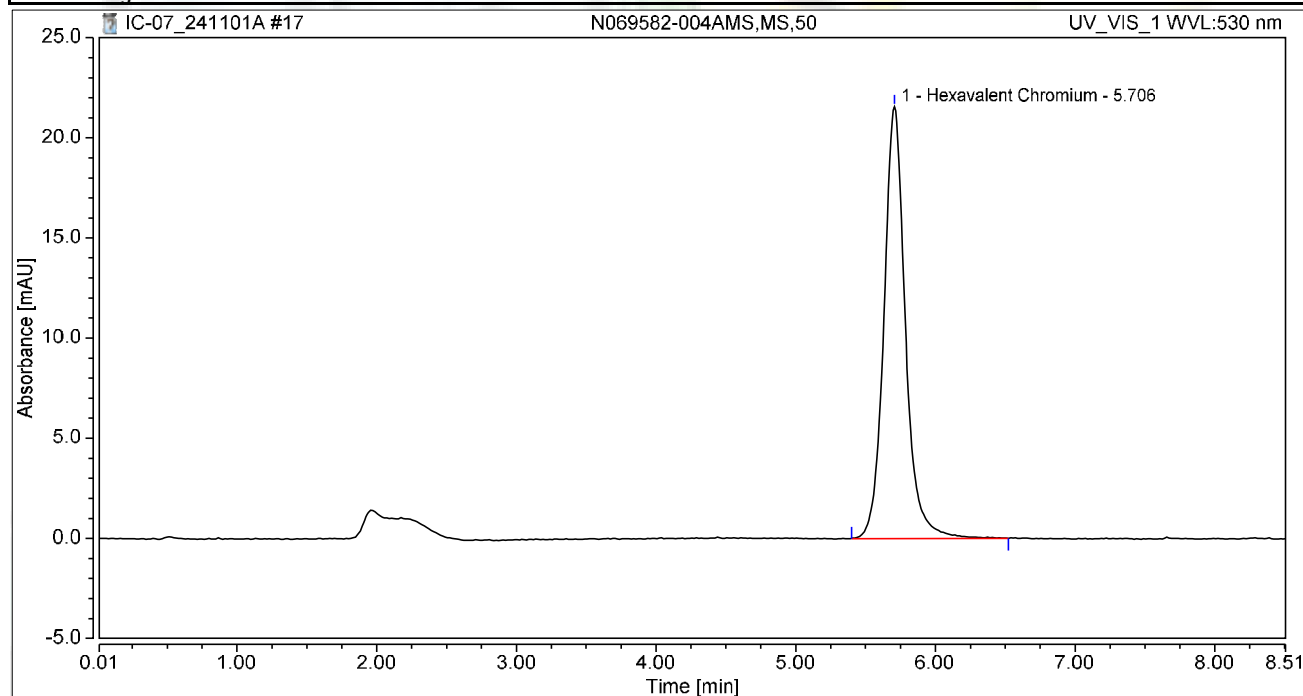
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	2.486	14.014	100.00	100.00	8.7619
Total:			2.486	14.014	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-004AMS,MS,50	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 11:26	Sample Weight:	1.0000

Chromatogram



Integration Results

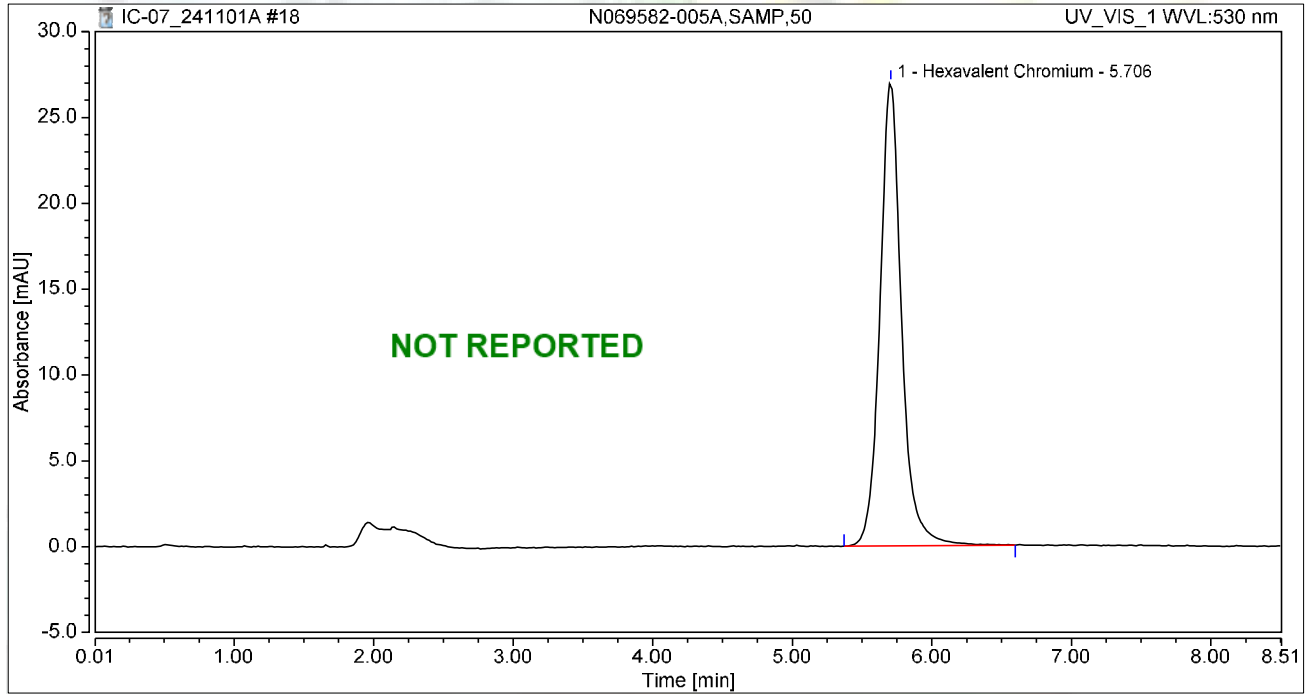
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	3.844	21.561	100.00	100.00	13.5480
Total:			3.844	21.561	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-005A,SAMP,50	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 11:35	Sample Weight:	1.0000

Chromatogram



Integration Results

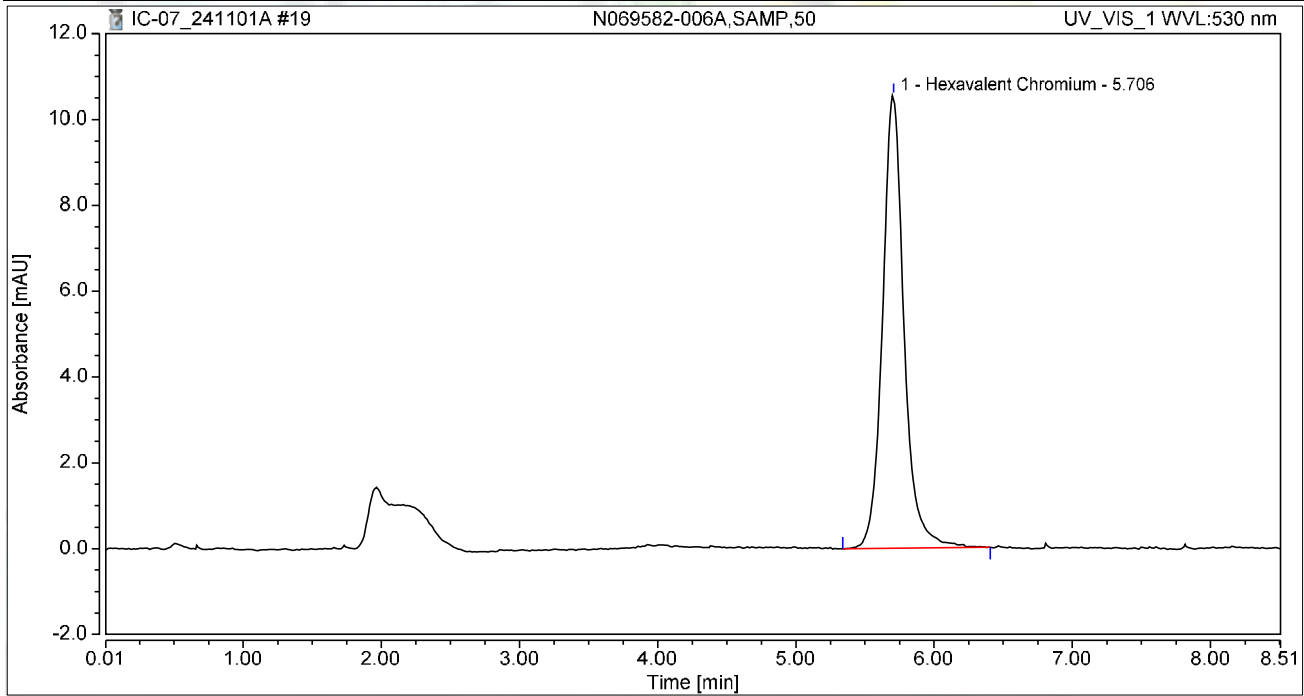
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	4.856	27.009	100.00	100.00	17.1140
Total:			4.856	27.009	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-006A,SAMP,50	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 11:45	Sample Weight:	1.0000

Chromatogram



Integration Results

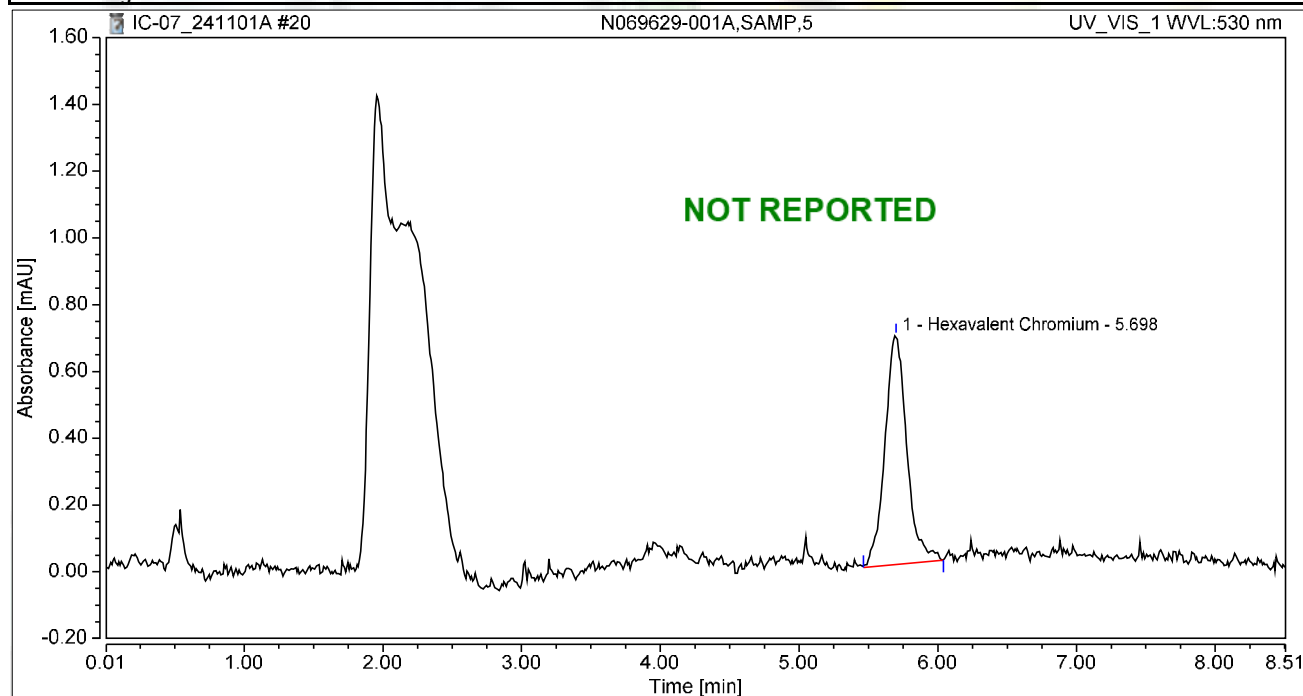
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	1.907	10.553	100.00	100.00	6.7199
Total:			1.907	10.553	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069629-001A,SAMP,5	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 11:54	Sample Weight:	1.0000

Chromatogram



Integration Results

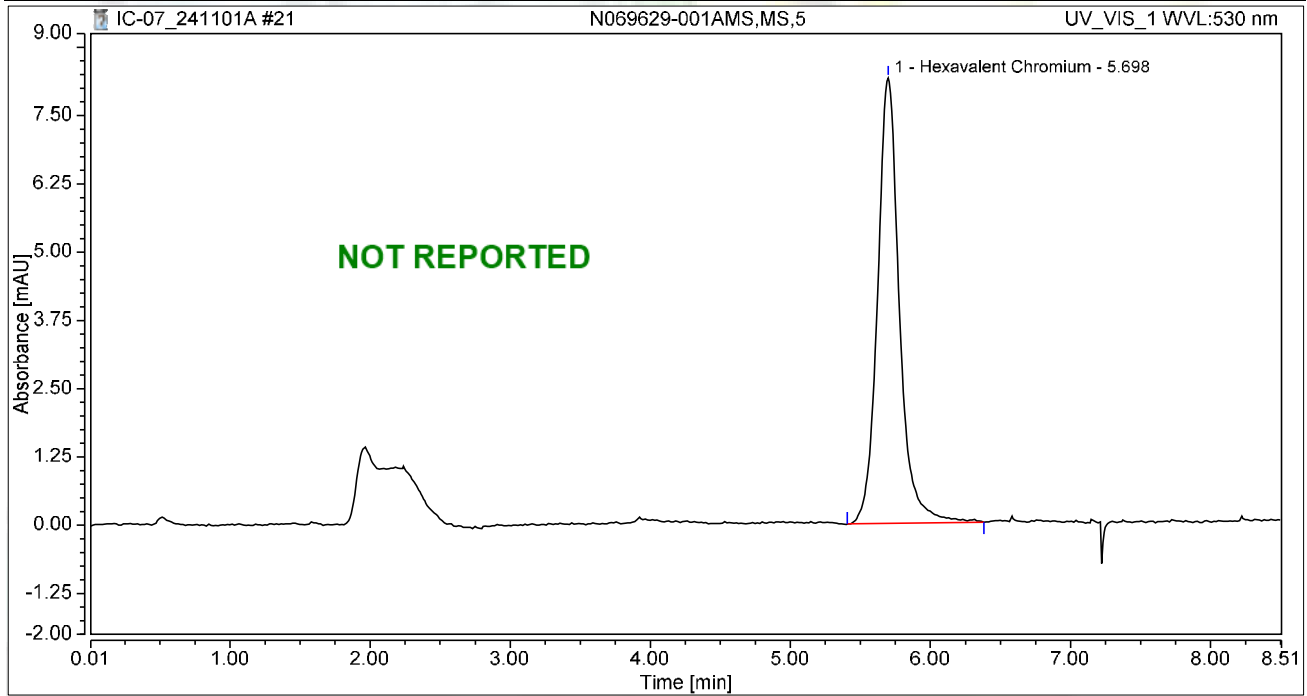
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	0.126	0.686	100.00	100.00	0.4437
Total:			0.126	0.686	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069629-001AMS,MS,5	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 12:04	Sample Weight:	1.0000

Chromatogram



Integration Results

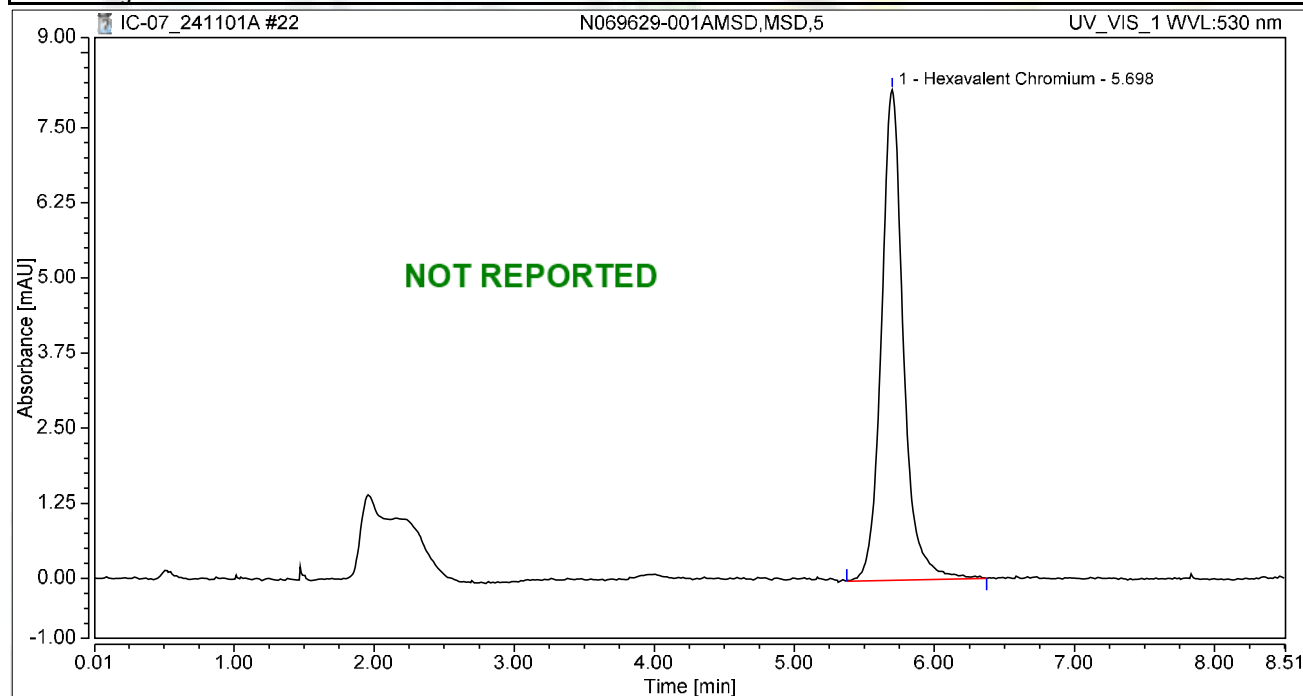
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	1.476	8.156	100.00	100.00	5.2007
Total:			1.476	8.156	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069629-001AMSD,MSD,5	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 12:13	Sample Weight:	1.0000

Chromatogram



Integration Results

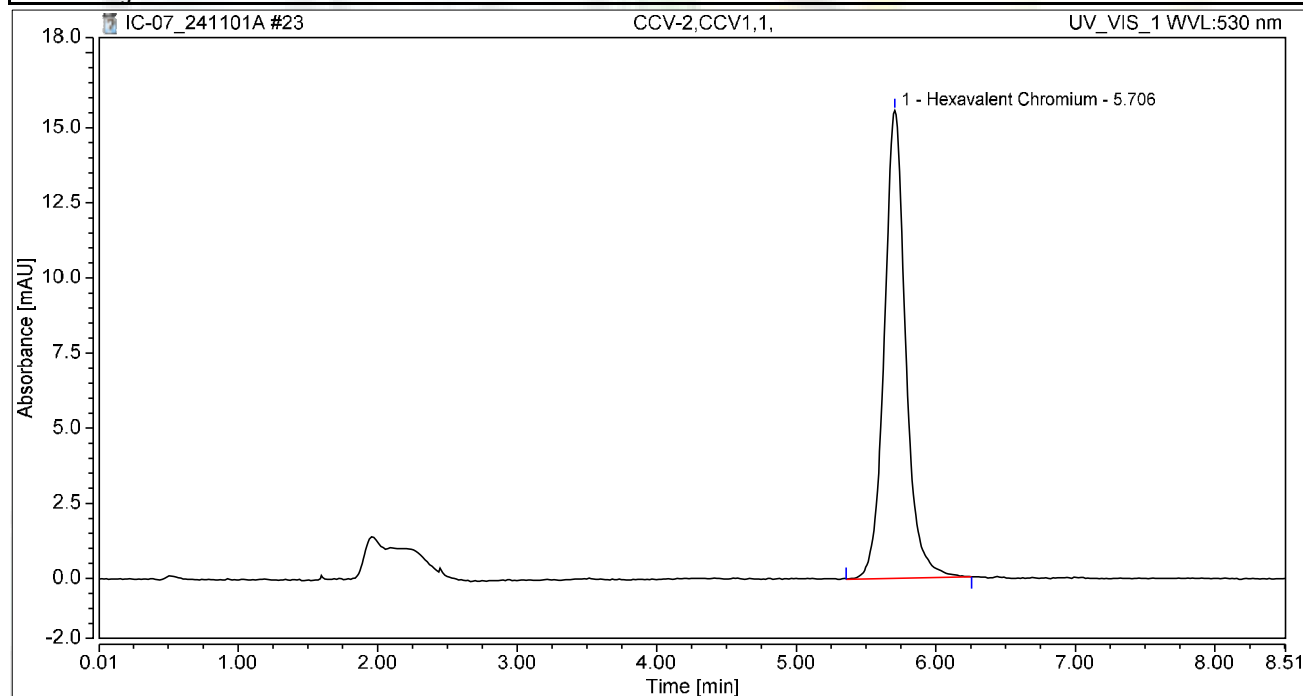
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	1.482	8.164	100.00	100.00	5.2236
Total:			1.482	8.164	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-2,CCV1,1,	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 12:23	Sample Weight:	1.0000

Chromatogram



Integration Results

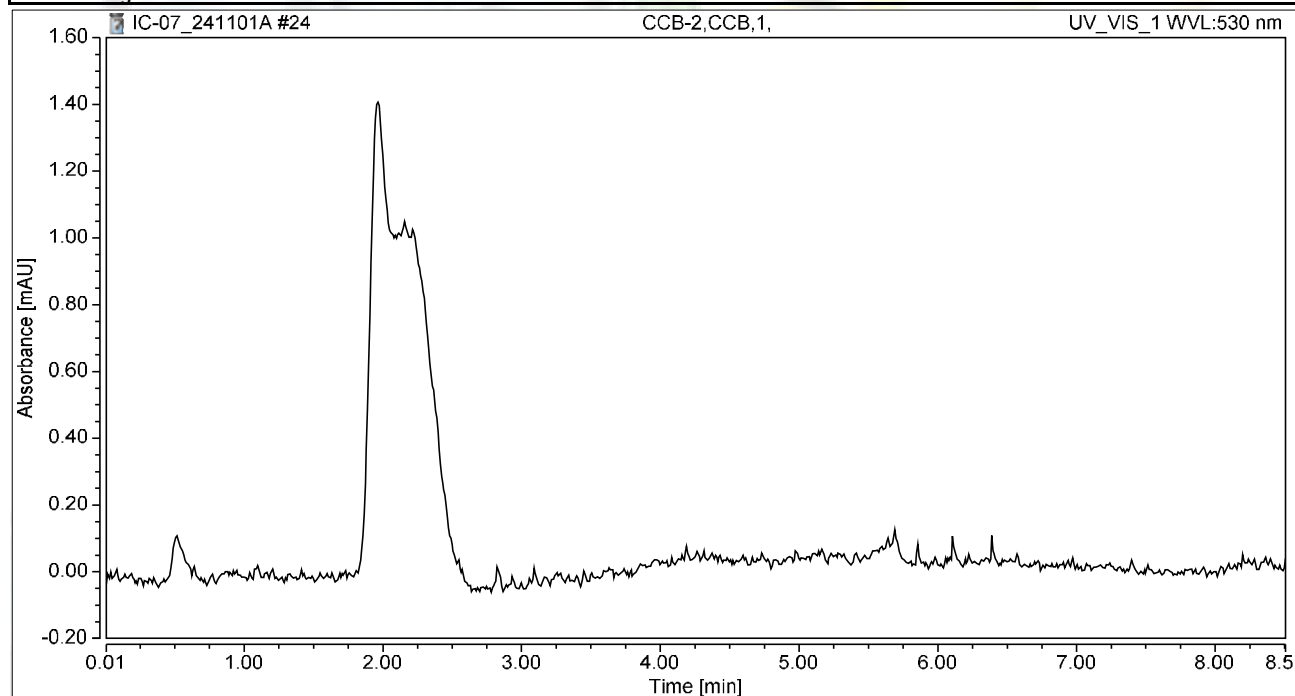
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	2.764	15.570	100.00	100.00	9.7401
Total:			2.764	15.570	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-2,CCB,1,	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 12:32	Sample Weight:	1.0000

Chromatogram



Integration Results

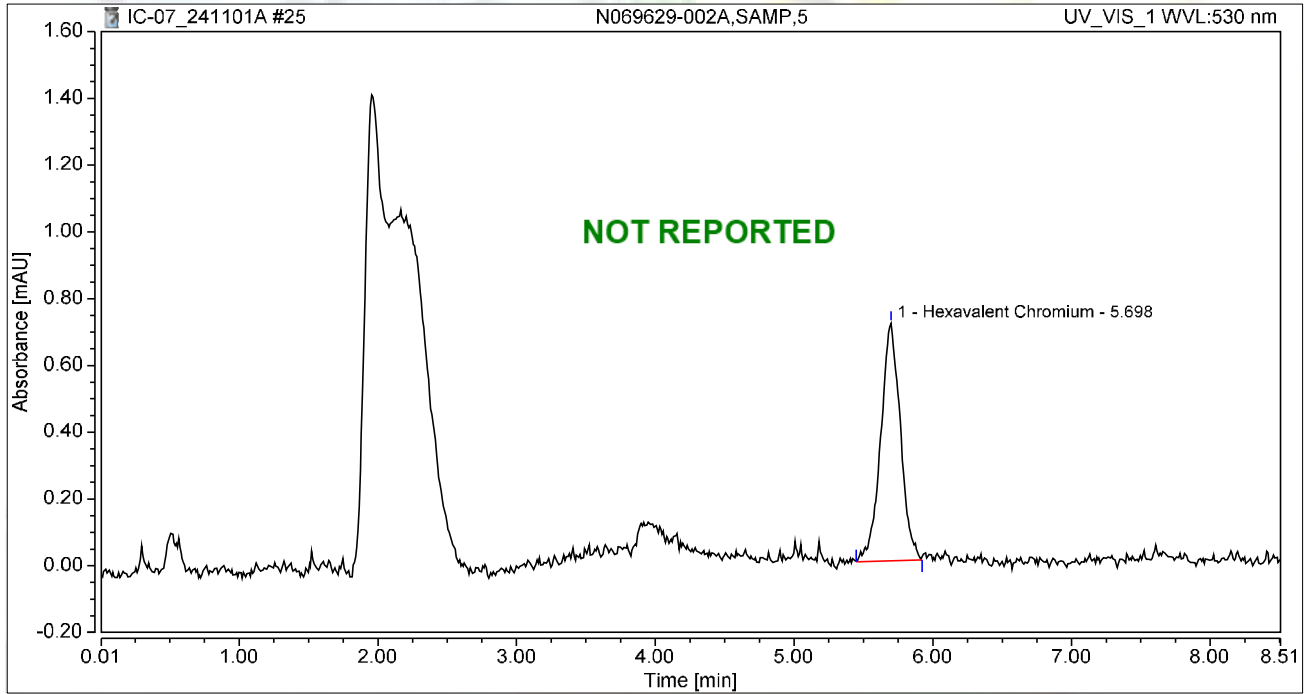
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069629-002A,SAMP,5	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 12:42	Sample Weight:	1.0000

Chromatogram



Integration Results

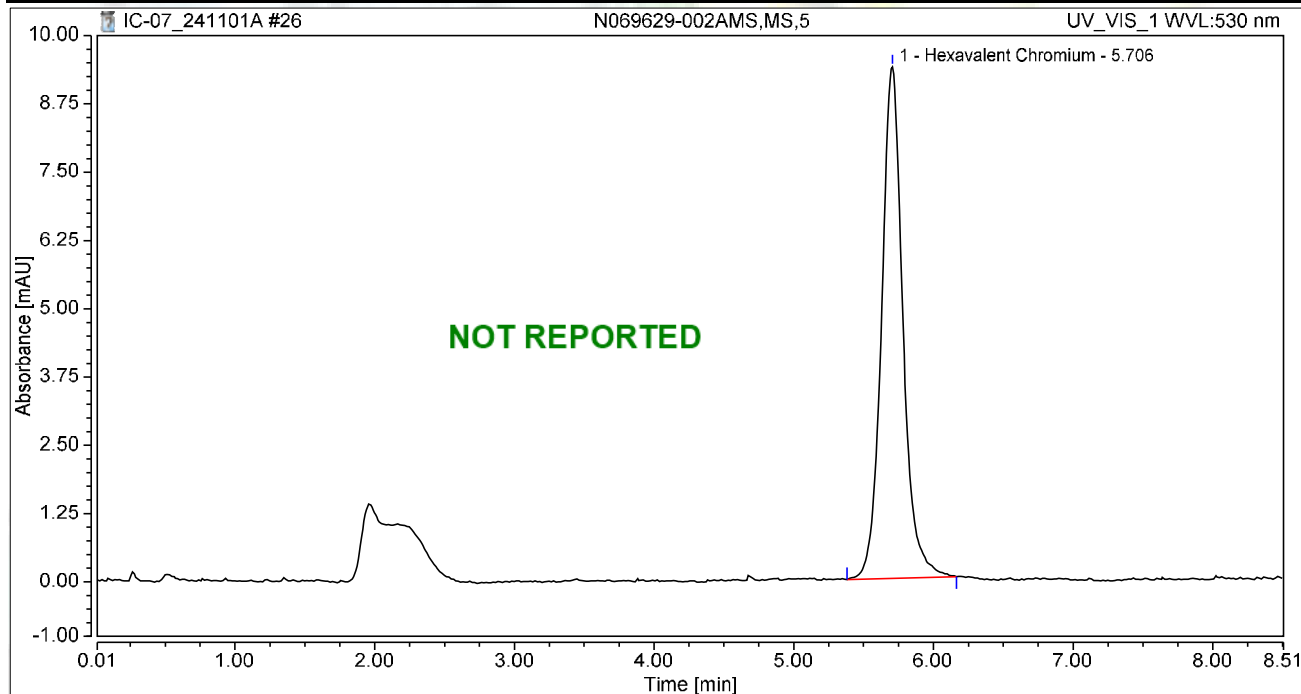
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	0.117	0.711	100.00	100.00	0.4124
Total:			0.117	0.711	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069629-002AMS,MS,5	Run Time (min):	8.49
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 12:51	Sample Weight:	1.0000

Chromatogram



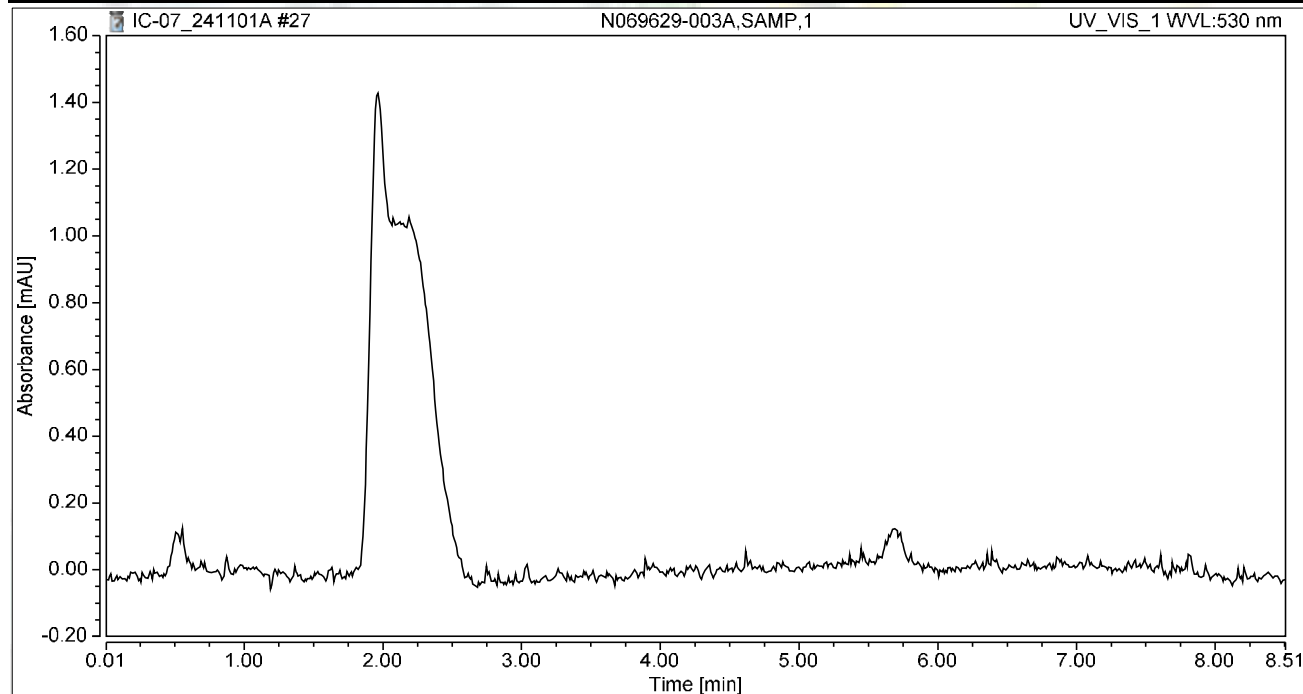
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	1.656	9.365	100.00	100.00	5.8369
Total:			1.656	9.365	100.00	100.00	

Chromatogram and Results

Injection Details			
Injection Name:	N069629-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 13:01	Sample Weight:	1.0000

Chromatogram



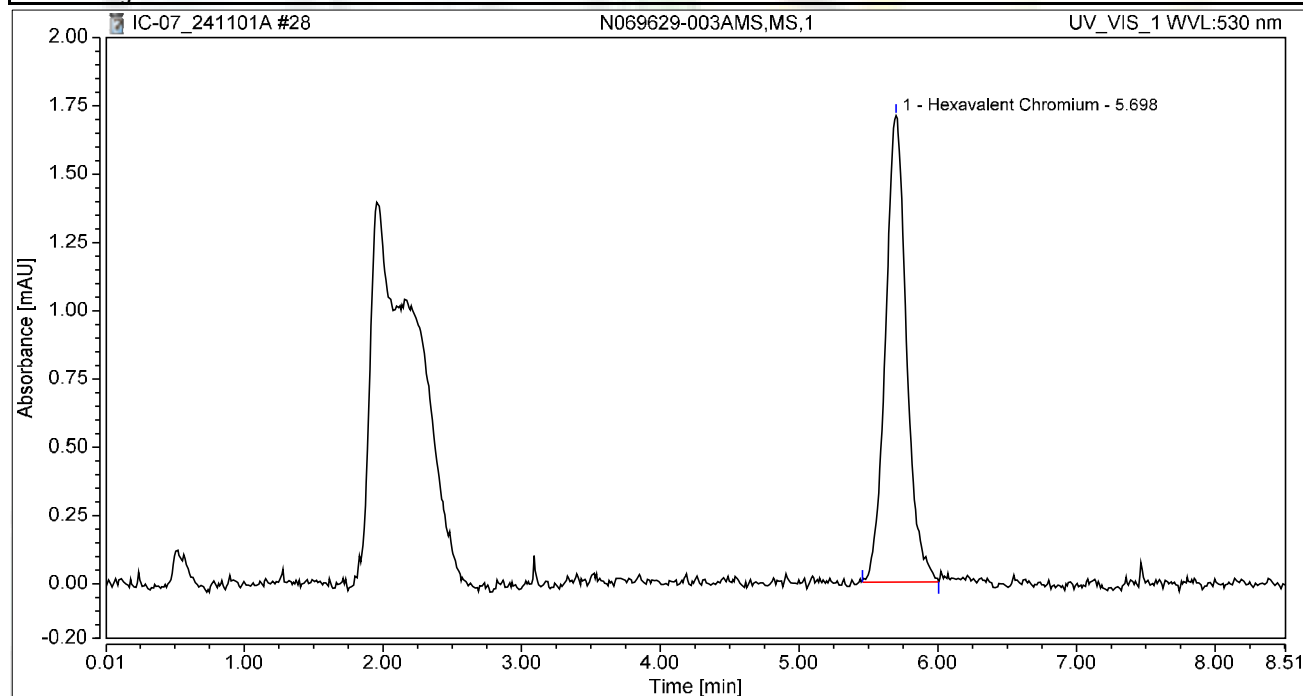
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069629-003AMS,MS,1	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 13:10	Sample Weight:	1.0000

Chromatogram



Integration Results

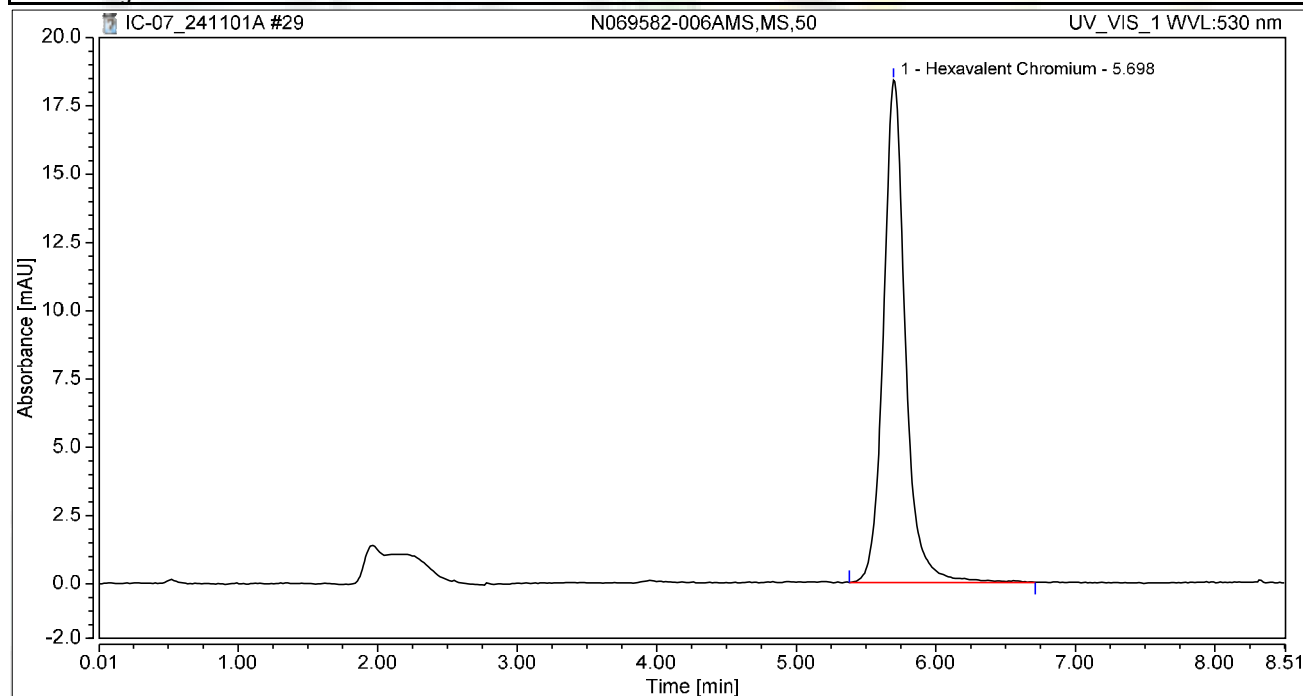
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	0.300	1.707	100.00	100.00	1.0573
Total:			0.300	1.707	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-006AMS,MS,50	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 13:19	Sample Weight:	1.0000

Chromatogram



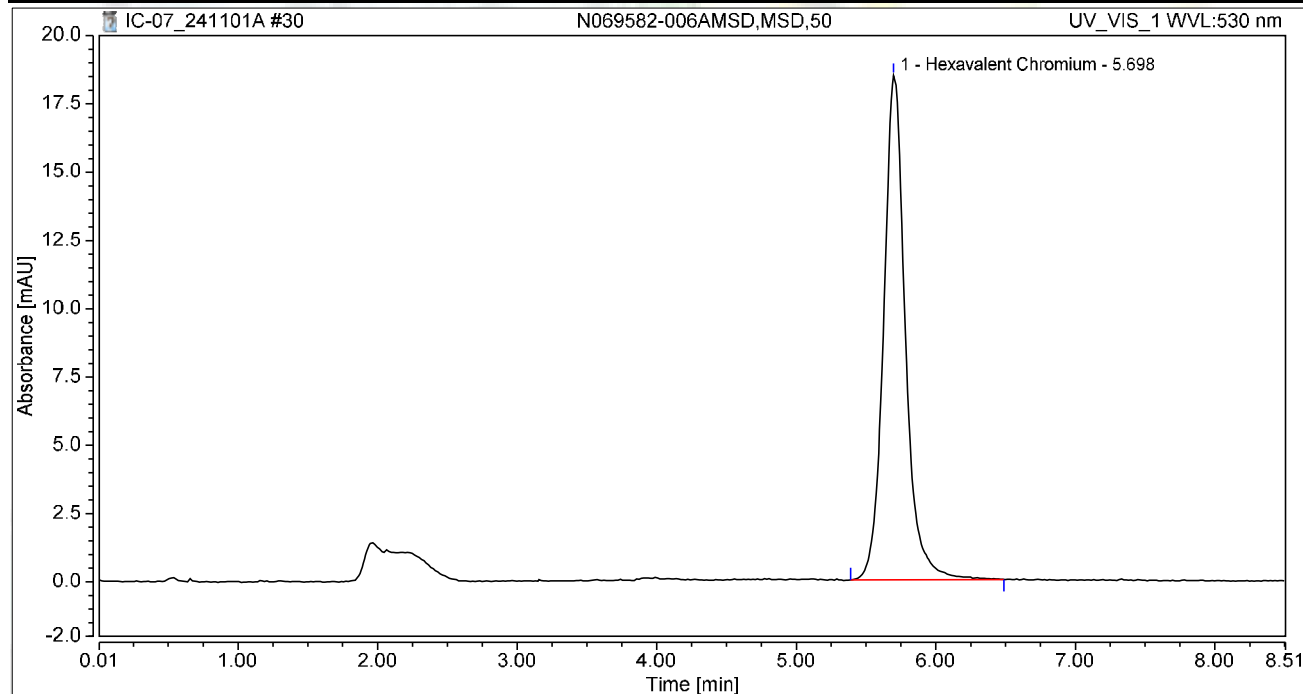
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	3.345	18.397	100.00	100.00	11.7877
Total:			3.345	18.397	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069582-006AMSD,MSD,50	Run Time (min): 8.50
Vial Number:	16	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	01/Nov/24 13:29	Sample Weight: 1.0000

Chromatogram



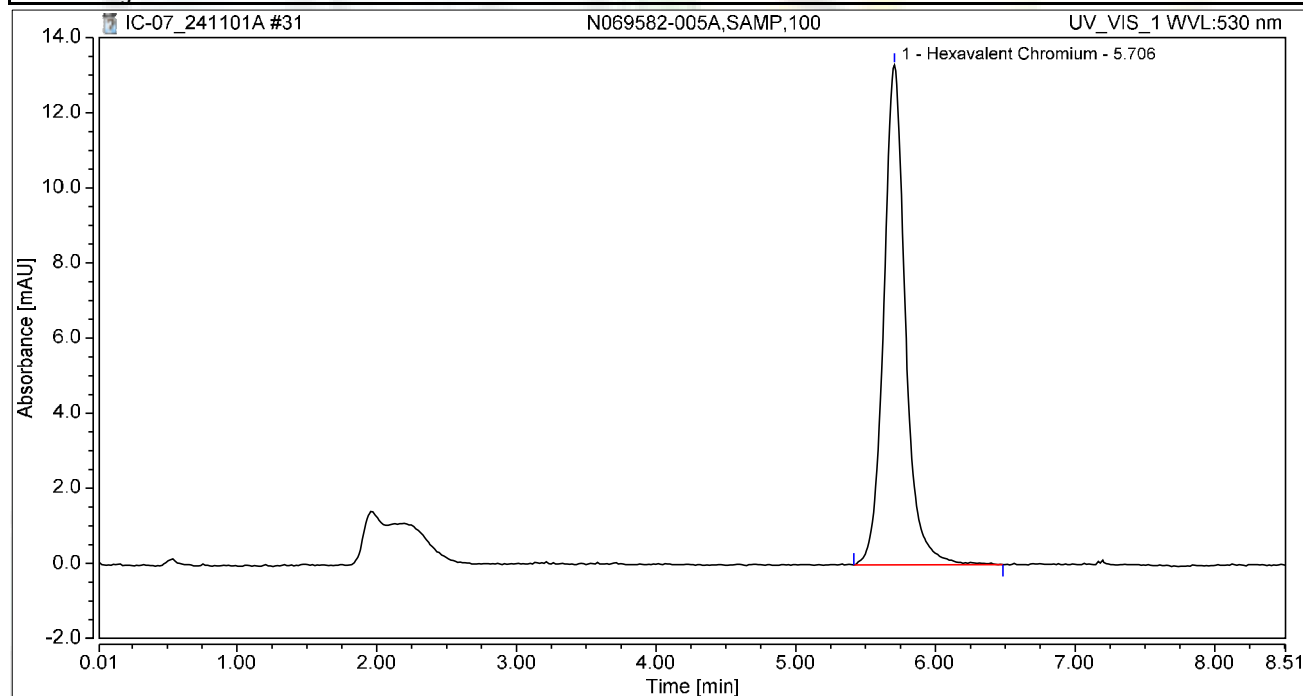
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	3.328	18.464	100.00	100.00	11.7285
Total:			3.328	18.464	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-005A,SAMP,100	Run Time (min):	8.49
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 13:38	Sample Weight:	1.0000

Chromatogram



Integration Results

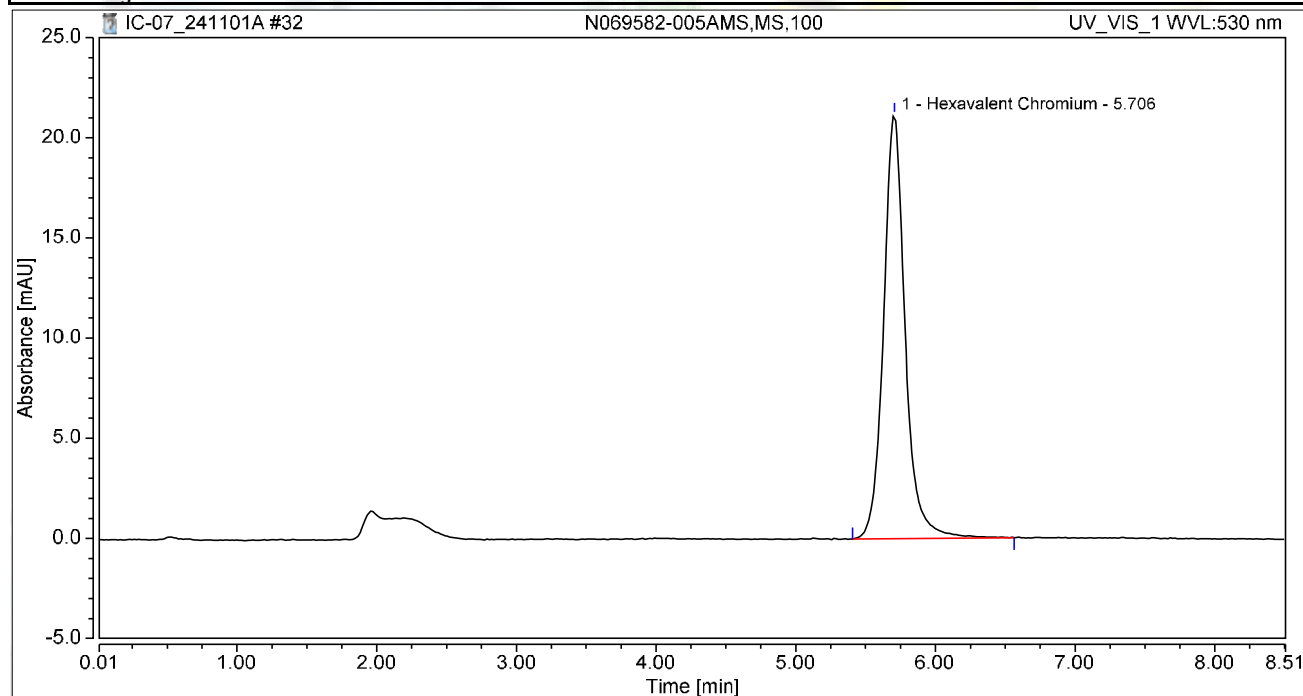
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	2.389	13.308	100.00	100.00	8.4207
Total:			2.389	13.308	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-005AMS,MS,100	Run Time (min):	8.49
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 13:48	Sample Weight:	1.0000

Chromatogram



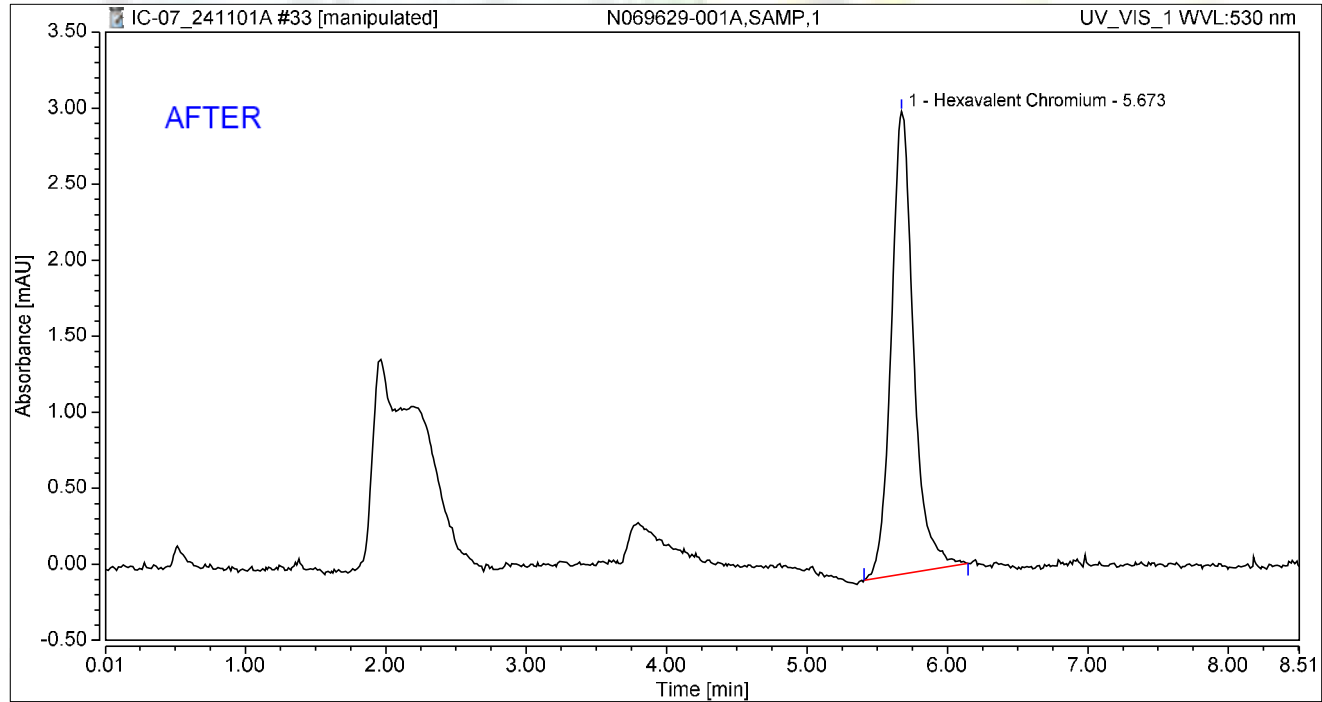
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	3.795	21.161	100.00	100.00	13.3733
Total:			3.795	21.161	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069629-001A,SAMP,1	Run Time (min): 8.50
Vial Number:	19	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	01/Nov/24 13:57	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.558	3.042	100.00	100.00	1.9660
Total:			0.558	3.042	100.00	100.00	

Reviewed by:

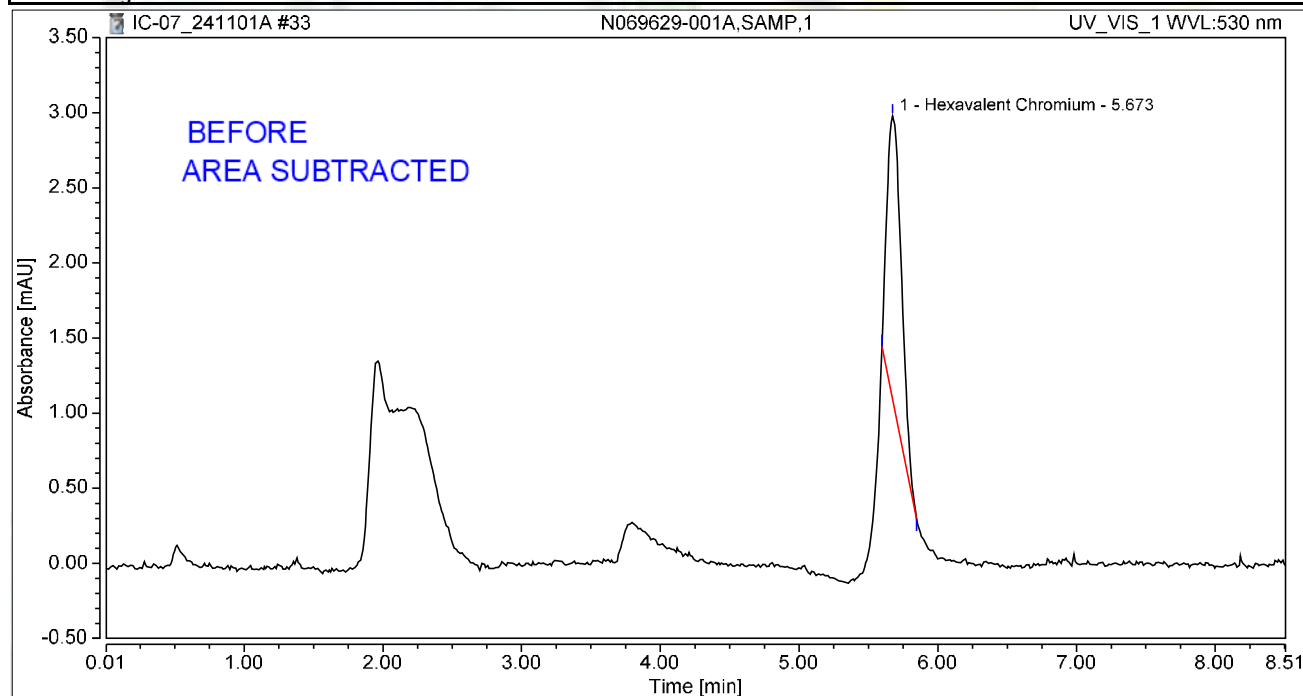
M. Rocha 11/7/2024

Chromatogram and Results

Injection Details

Injection Name:	N069629-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 13:57	Sample Weight:	1.0000

Chromatogram



Integration Results

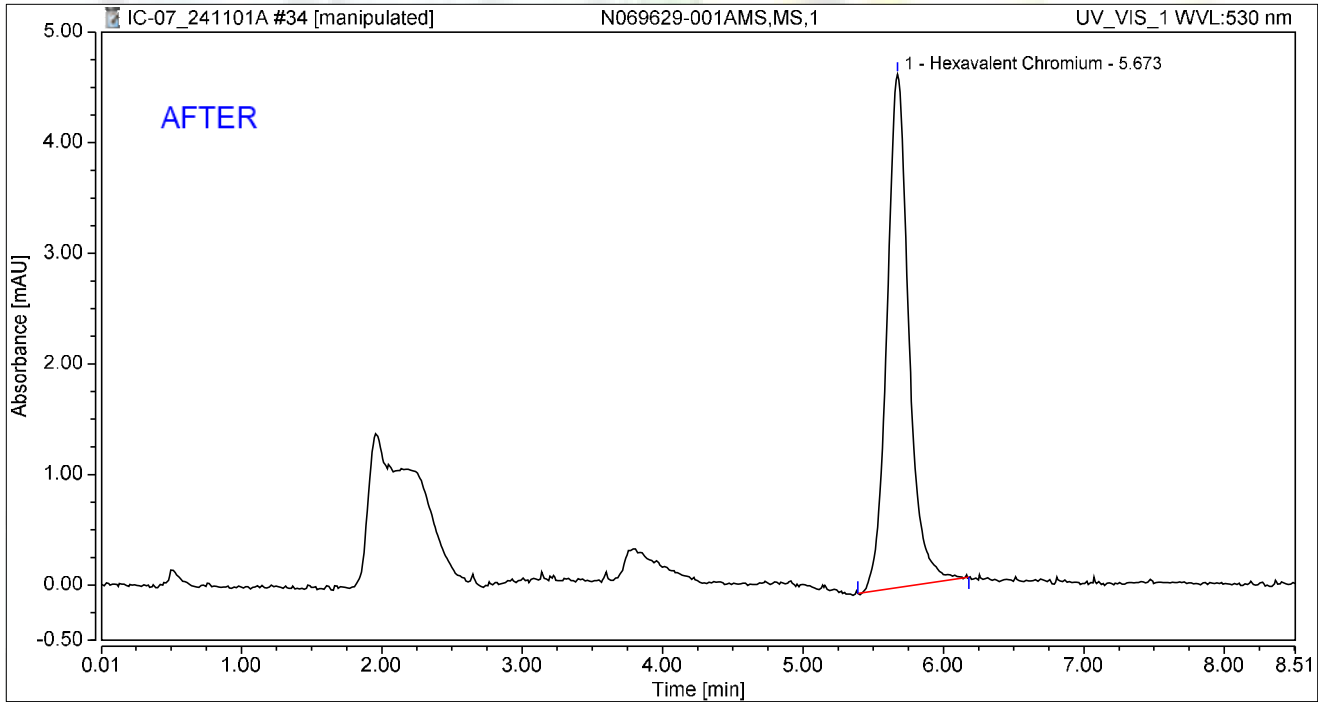
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.228	1.877	100.00	100.00	0.8051
Total:			0.228	1.877	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069629-001AMS,MS,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 14:07	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.834	4.640	100.00	100.00	2.9383
Total:			0.834	4.640	100.00	100.00	

Reviewed by:

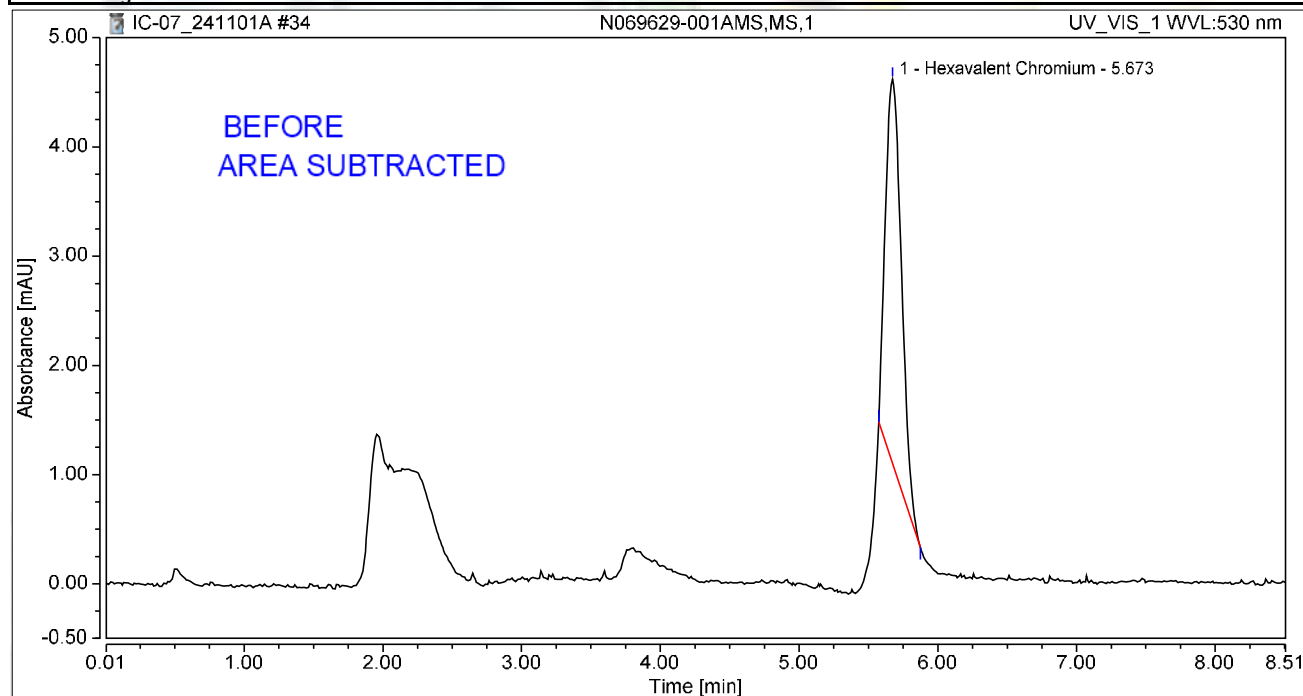
d/Rocha 11/7/2024

Chromatogram and Results

Injection Details

Injection Name:	N069629-001AMS,MS,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 14:07	Sample Weight:	1.0000

Chromatogram



Integration Results

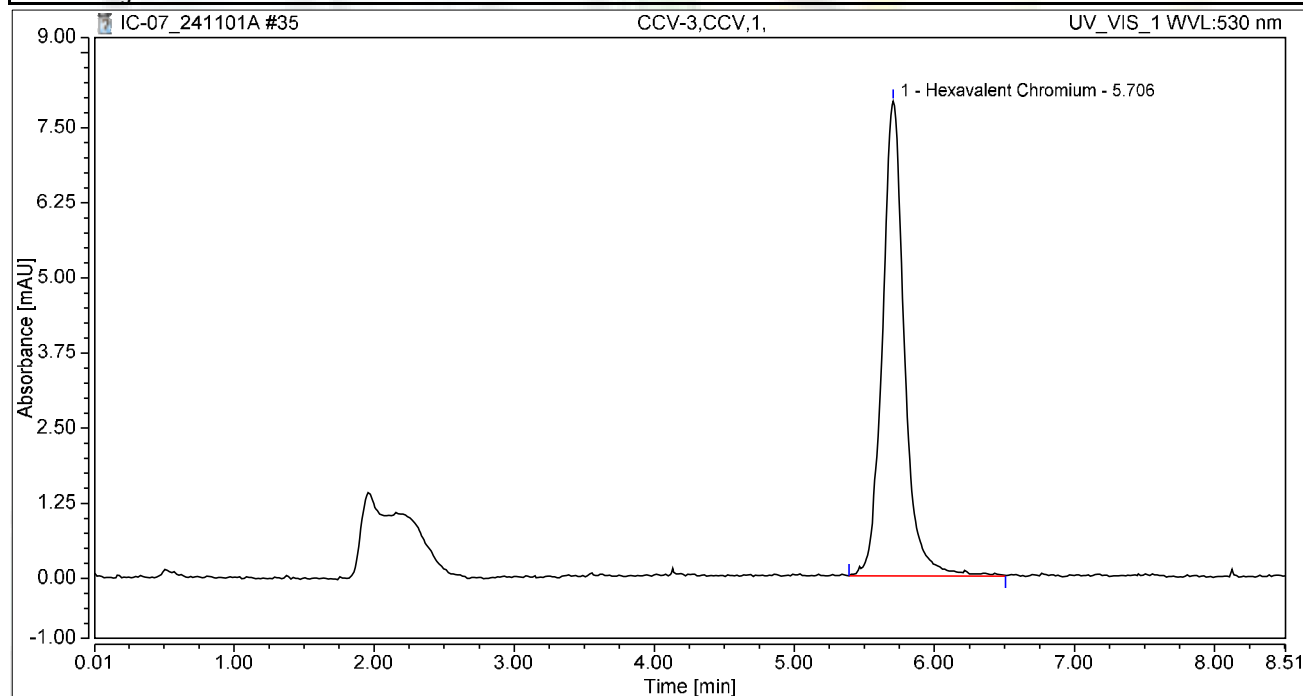
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.472	3.518	100.00	100.00	1.6639
Total:			0.472	3.518	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-3,CCV,1,	Run Time (min):	8.50
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 14:16	Sample Weight:	1.0000

Chromatogram



Integration Results

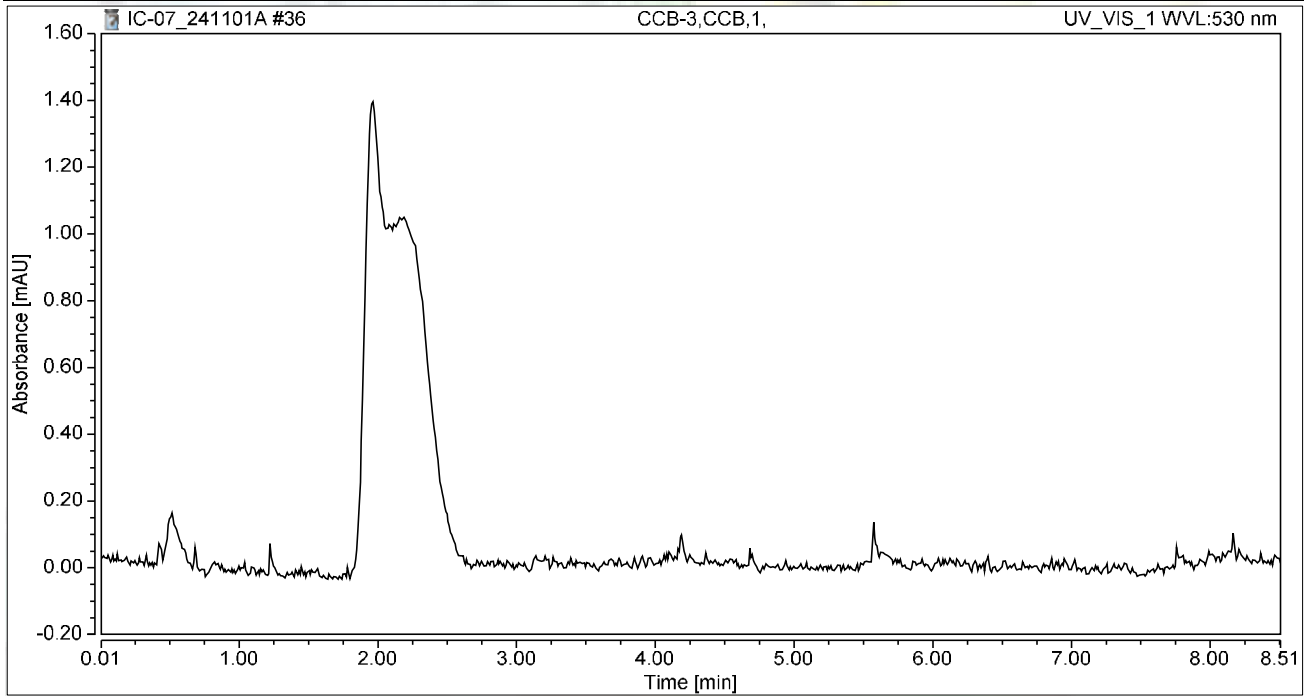
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	1.439	7.898	100.00	100.00	5.0721
Total:			1.439	7.898	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-3,CCB,1,	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 14:26	Sample Weight:	1.0000

Chromatogram



Integration Results

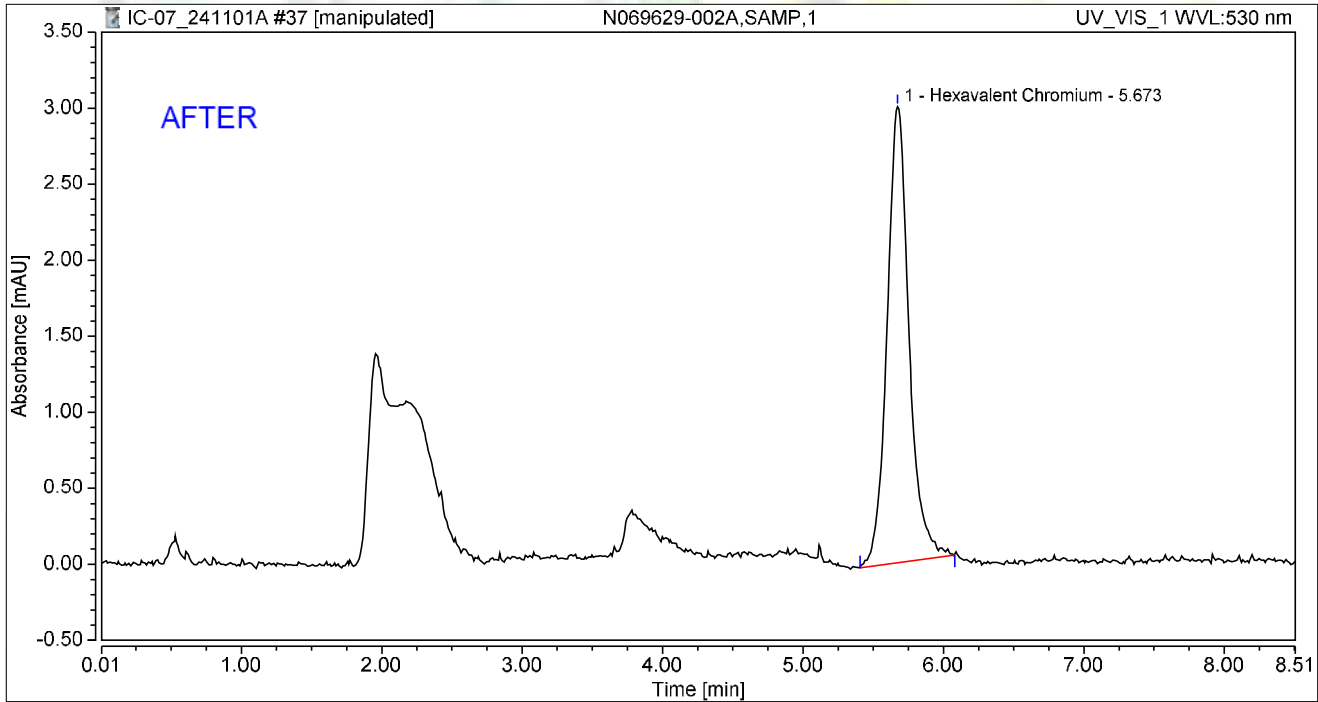
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069629-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 14:35	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.543	2.999	100.00	100.00	1.9154
Total:			0.543	2.999	100.00	100.00	

Reviewed by:

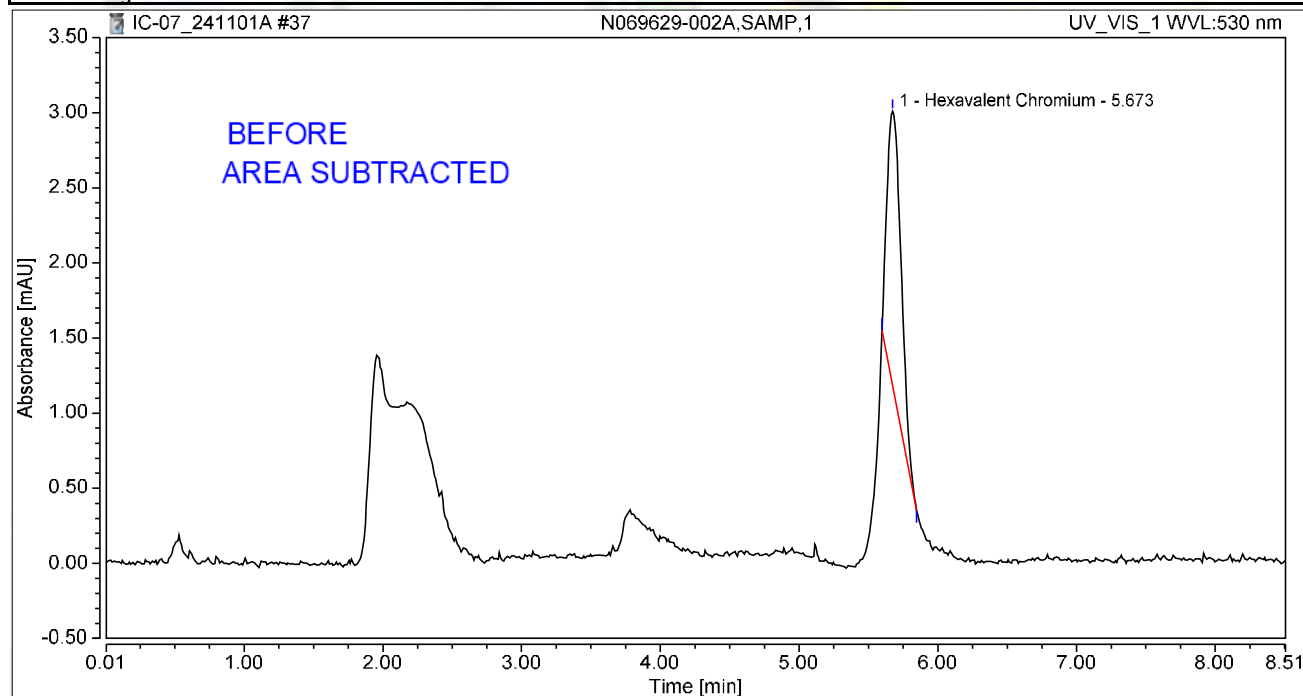
M. Rocha 11/7/2024

Chromatogram and Results

Injection Details

Injection Name:	N069629-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 14:35	Sample Weight:	1.0000

Chromatogram



Integration Results

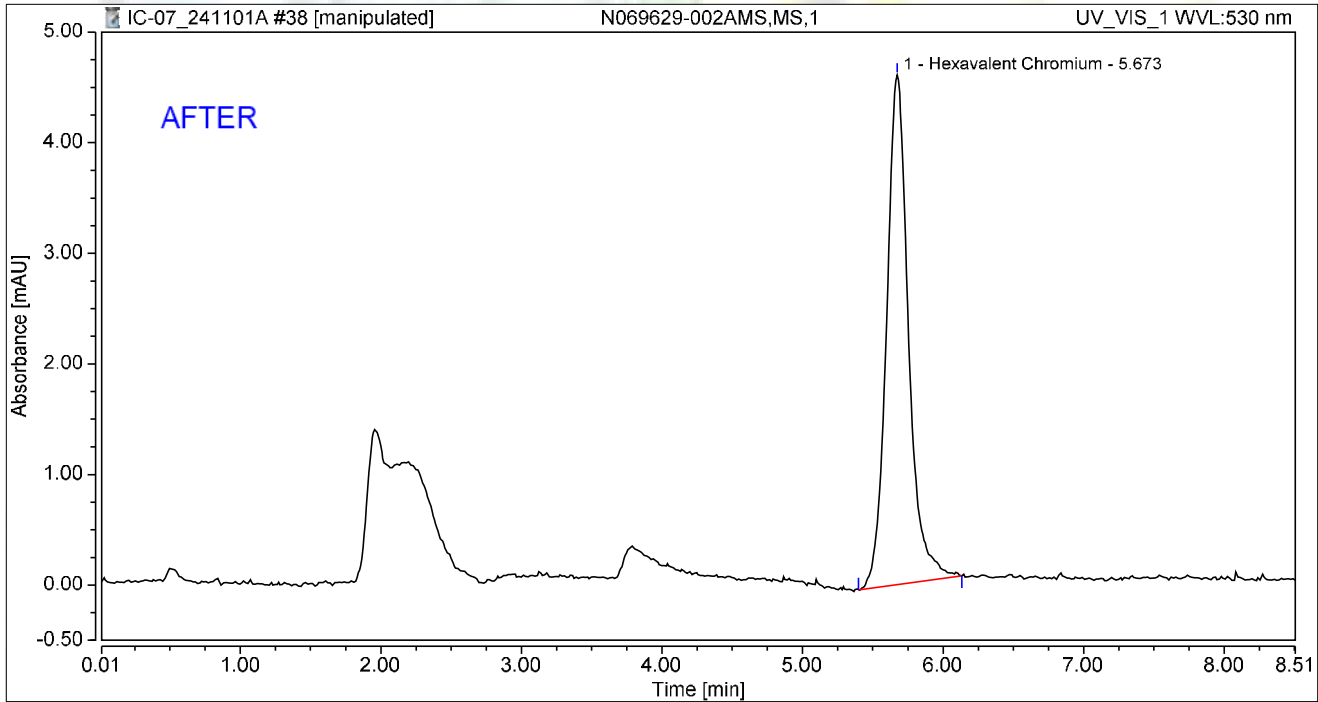
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.215	1.815	100.00	100.00	0.7594
Total:			0.215	1.815	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069629-002AMS,MS,1	Run Time (min):	8.49
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 14:45	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.831	4.607	100.00	100.00	2.9284
Total:			0.831	4.607	100.00	100.00	

Reviewed by:

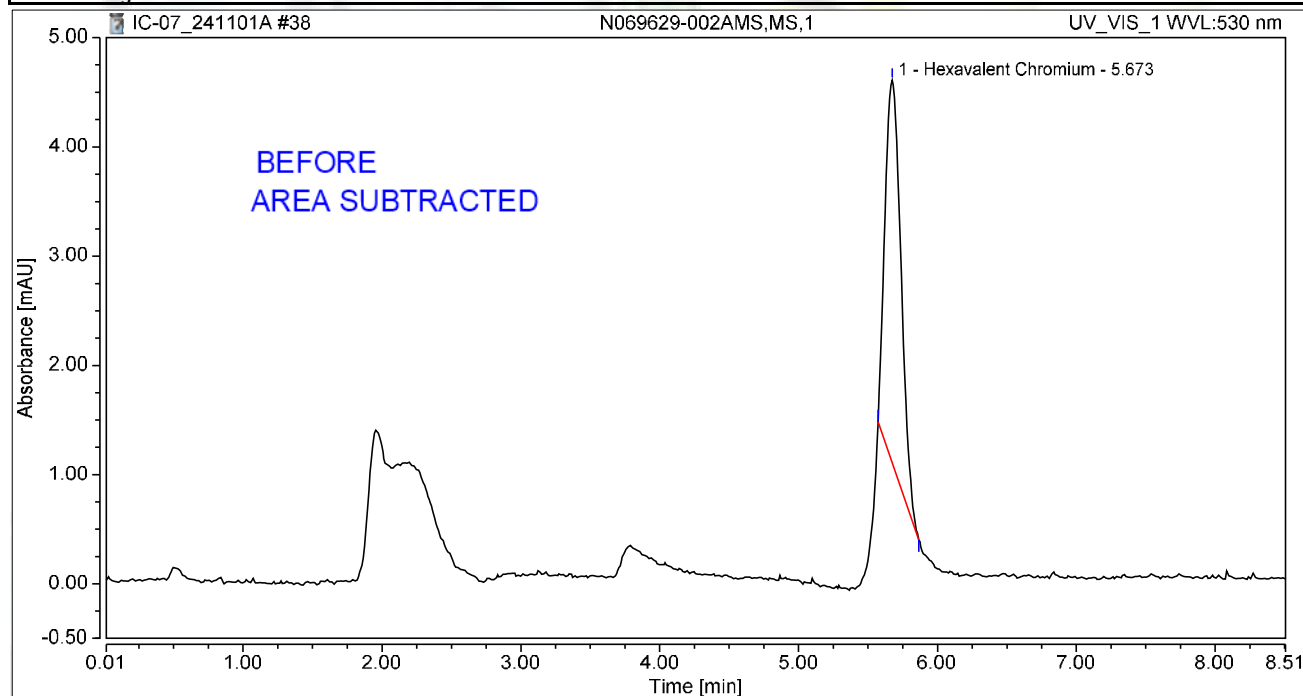
d/Rocha 11/7/2024

Chromatogram and Results

Injection Details

Injection Name:	N069629-002AMS,MS,1	Run Time (min):	8.49
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 14:45	Sample Weight:	1.0000

Chromatogram



Integration Results

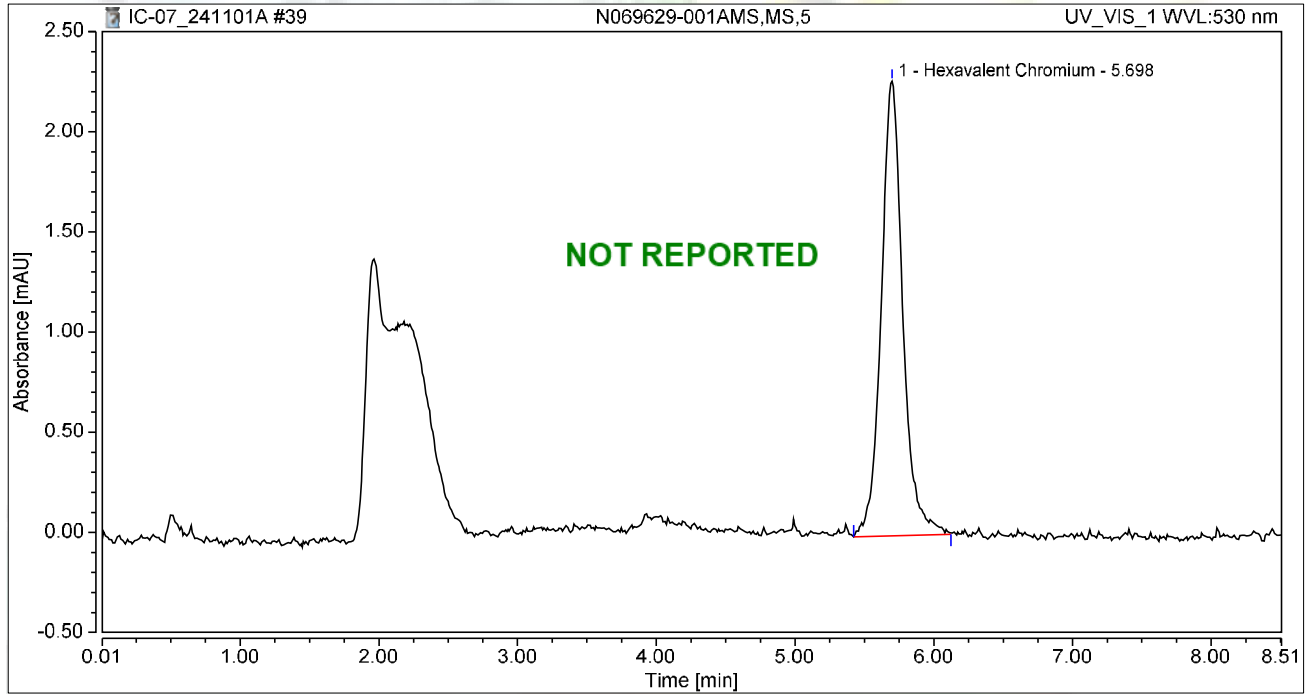
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.467	3.498	100.00	100.00	1.6475
Total:			0.467	3.498	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069629-001AMS,MS,5	Run Time (min):	8.50
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 14:54	Sample Weight:	1.0000

Chromatogram



Integration Results

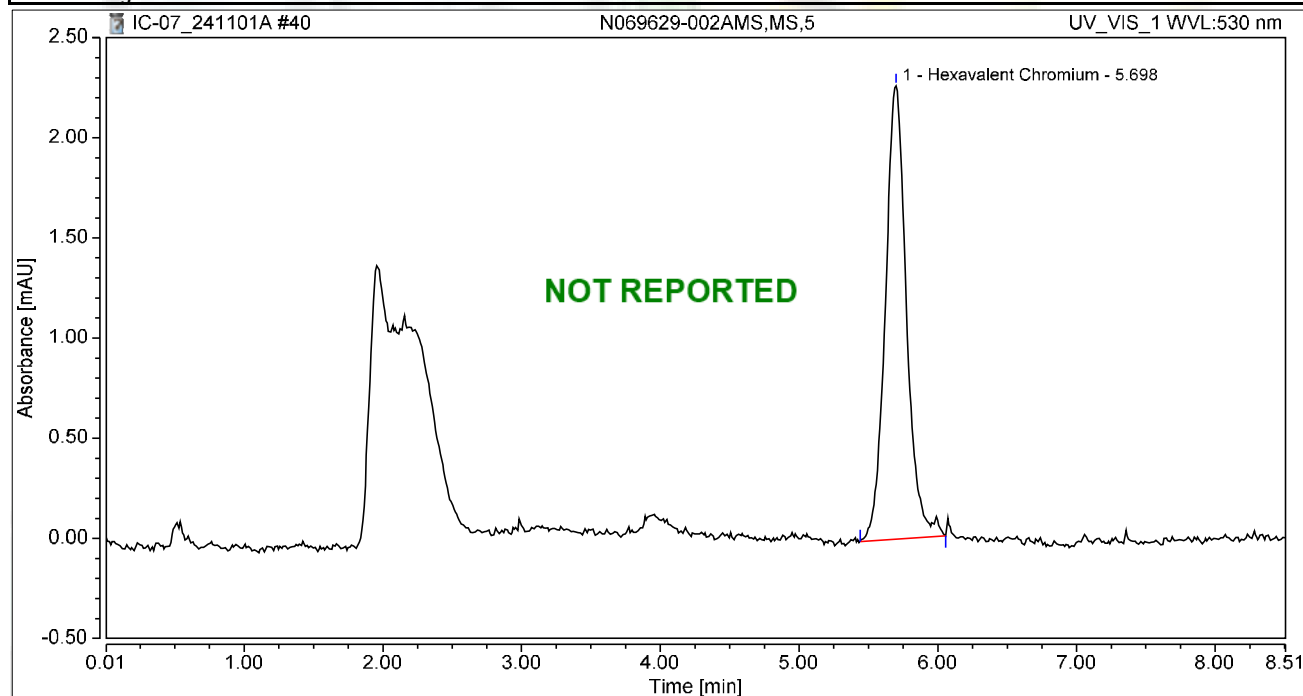
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	0.408	2.269	100.00	100.00	1.4388
Total:			0.408	2.269	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069629-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 15:03	Sample Weight:	1.0000

Chromatogram



Integration Results

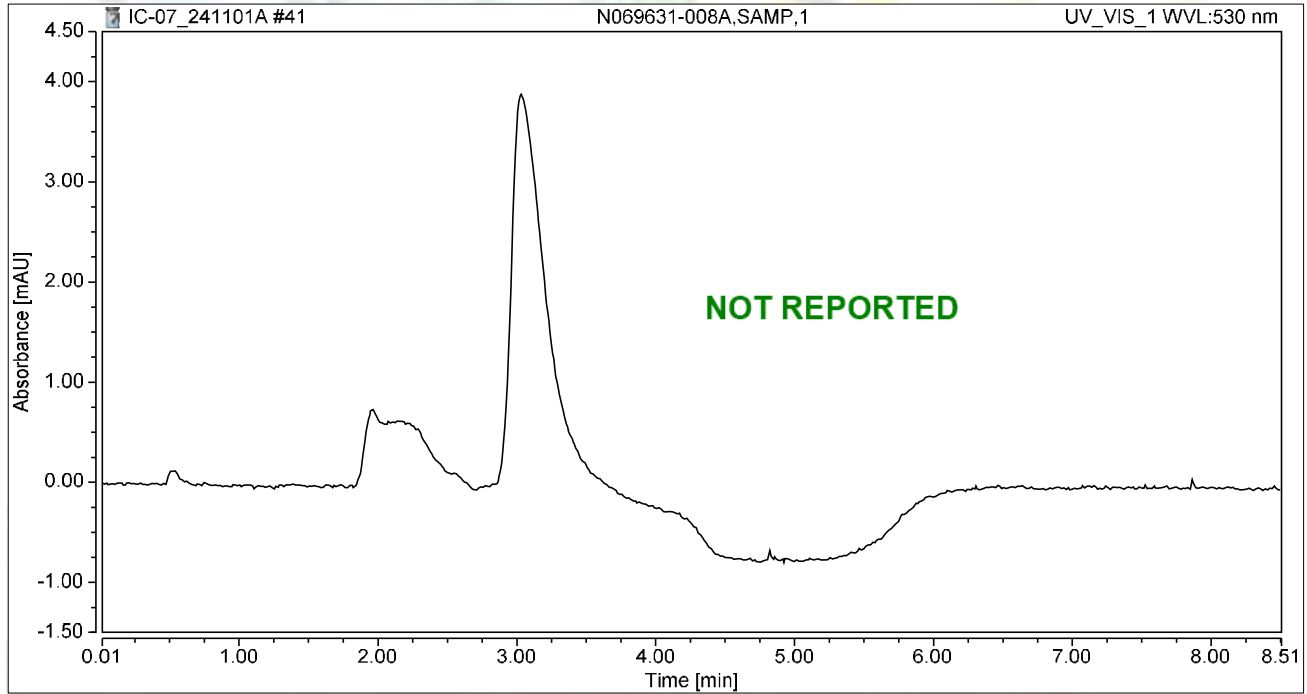
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	0.400	2.265	100.00	100.00	1.4087
Total:			0.400	2.265	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-008A,SAMP,1	Run Time (min):	8.49
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 15:13	Sample Weight:	1.0000

Chromatogram



Integration Results

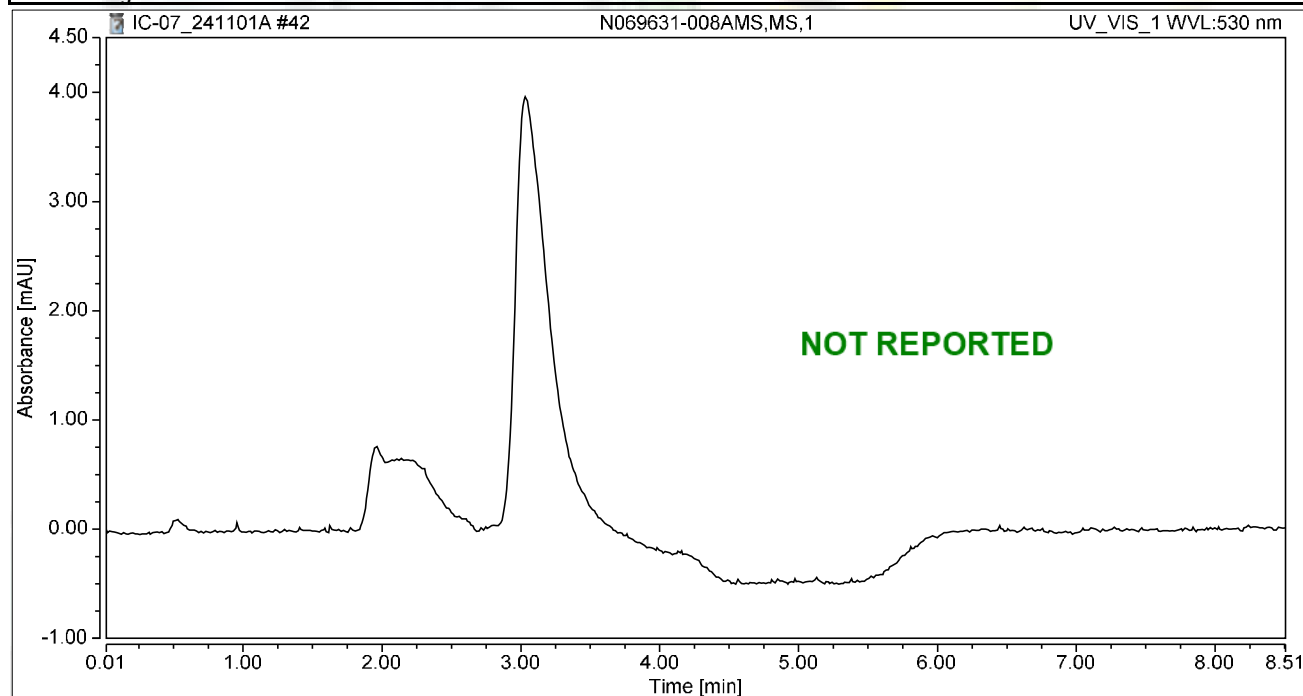
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-008AMS,MS,1	Run Time (min):	8.49
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 15:22	Sample Weight:	1.0000

Chromatogram



Integration Results

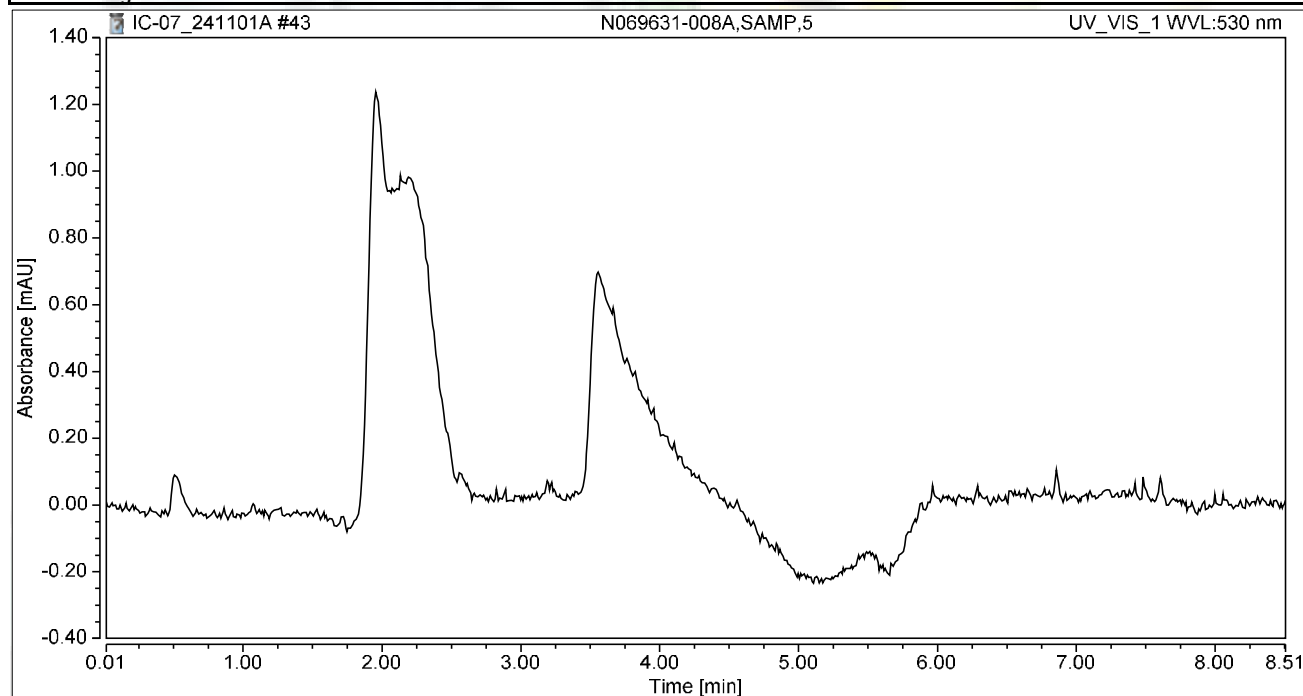
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-008A,SAMP,5	Run Time (min):	8.49
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 15:32	Sample Weight:	1.0000

Chromatogram



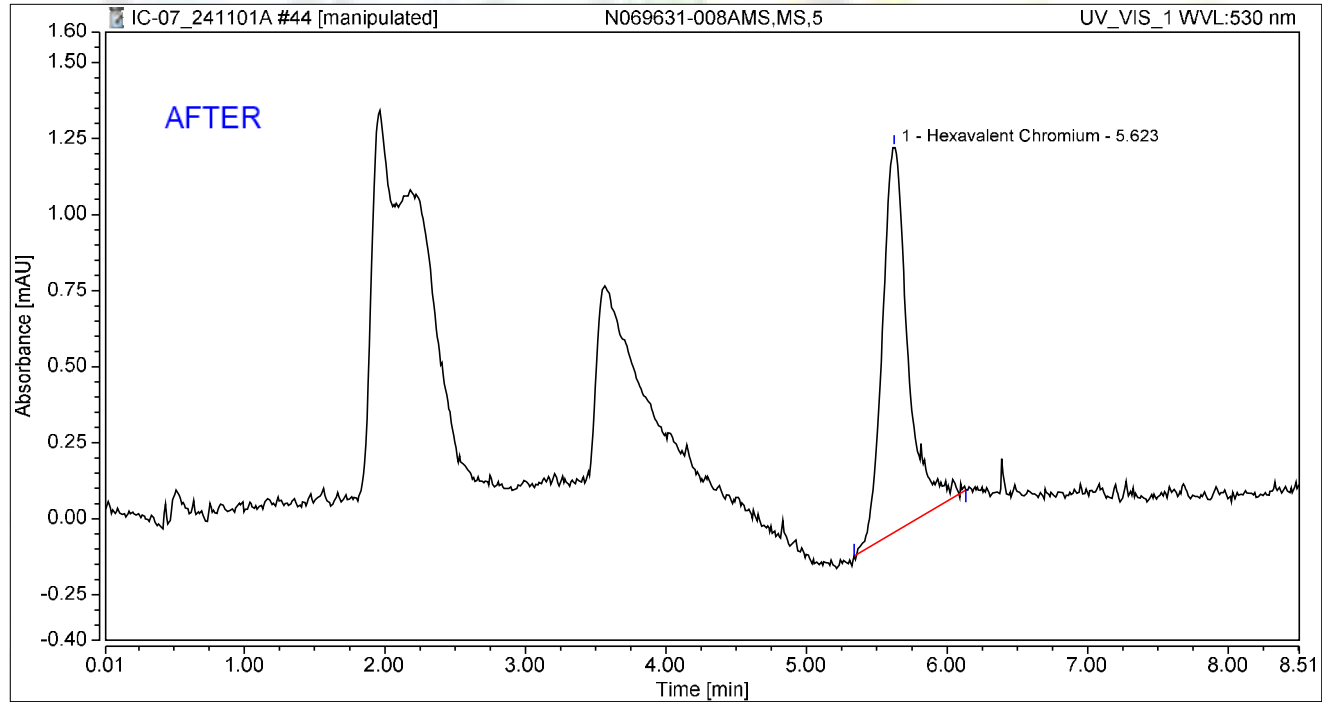
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069631-008AMS,MS,5	Run Time (min): 8.49
Vial Number:	30	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	01/Nov/24 15:41	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.623	0.269	1.267	100.00	100.00	0.9464
Total:			0.269	1.267	100.00	100.00	

Reviewed by:

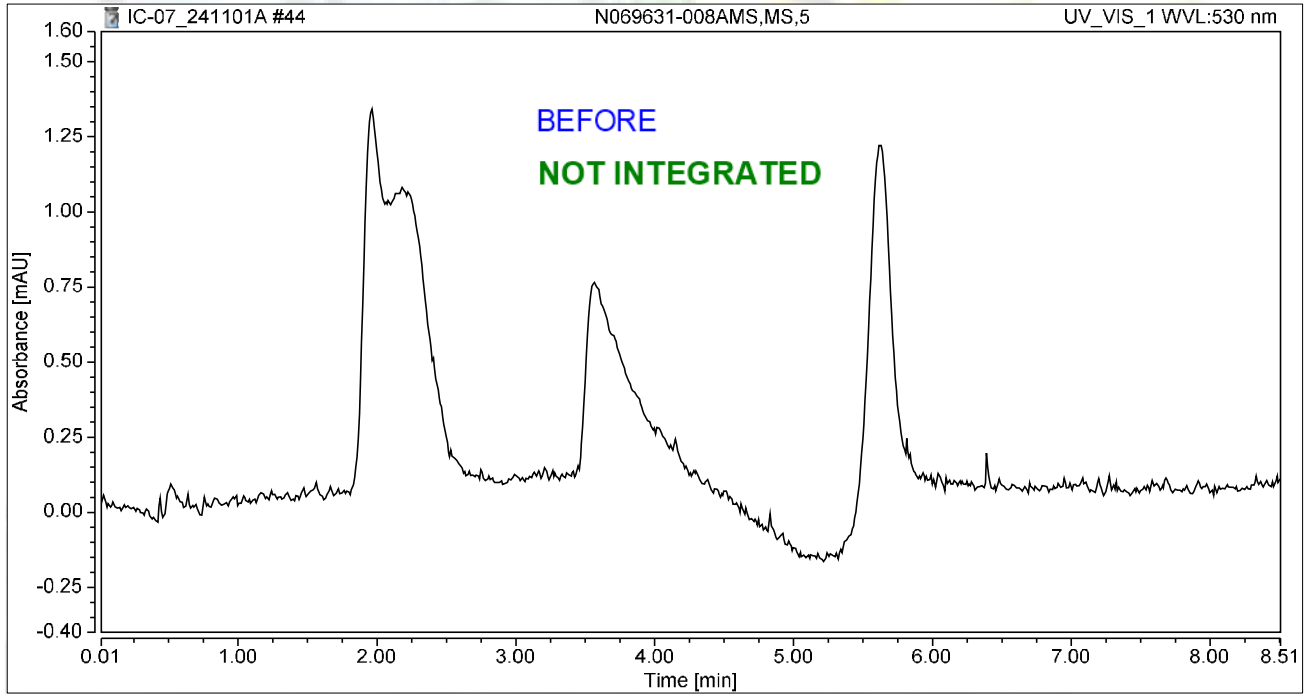
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Chromatogram and Results

Injection Details

Injection Name:	N069631-008AMS,MS,5	Run Time (min):	8.49
Vial Number:	30	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 15:41	Sample Weight:	1.0000

Chromatogram



Integration Results

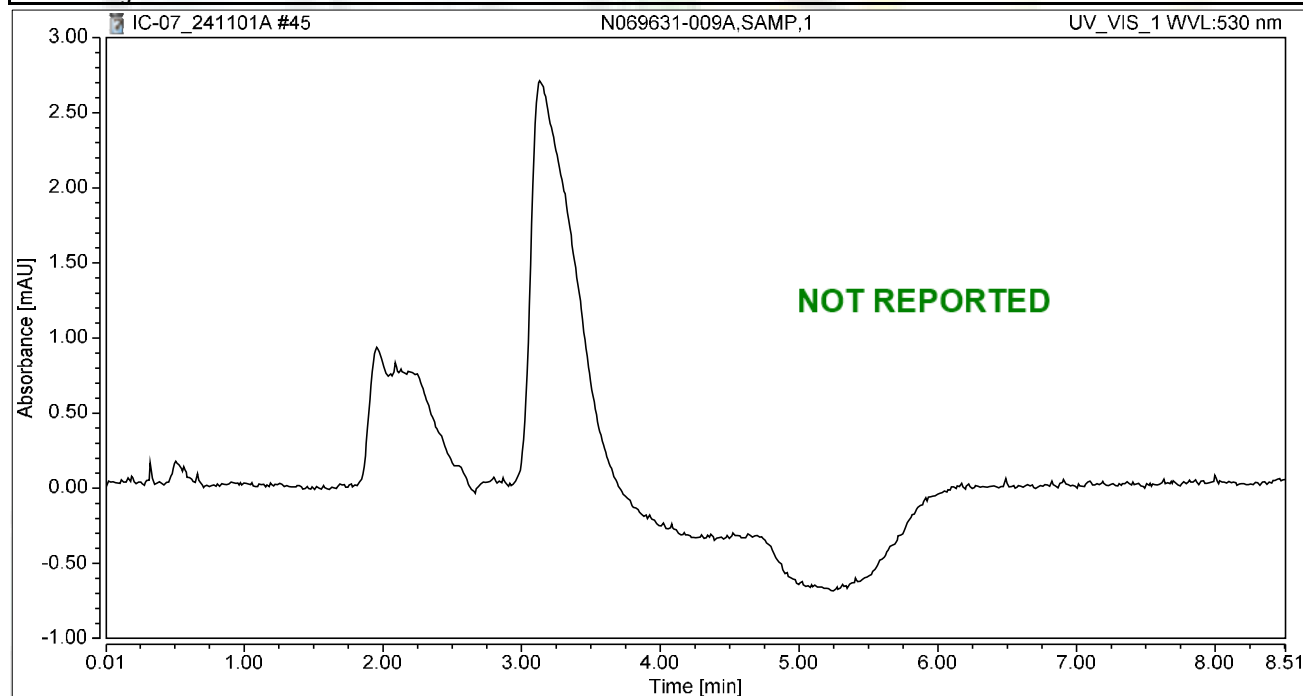
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-009A,SAMP,1	Run Time (min):	8.50
Vial Number:	31	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 15:51	Sample Weight:	1.0000

Chromatogram



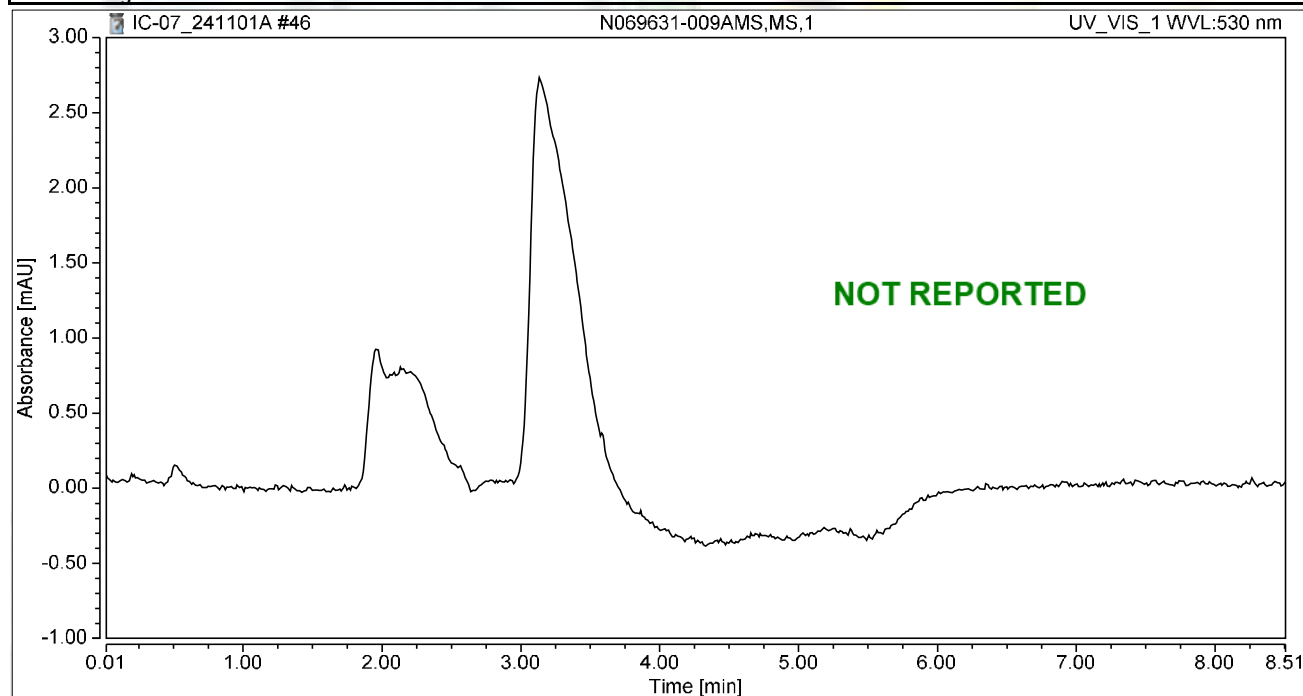
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069631-009AMS,MS,1	Run Time (min): 8.49
Vial Number:	32	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	01/Nov/24 16:00	Sample Weight: 1.0000

Chromatogram



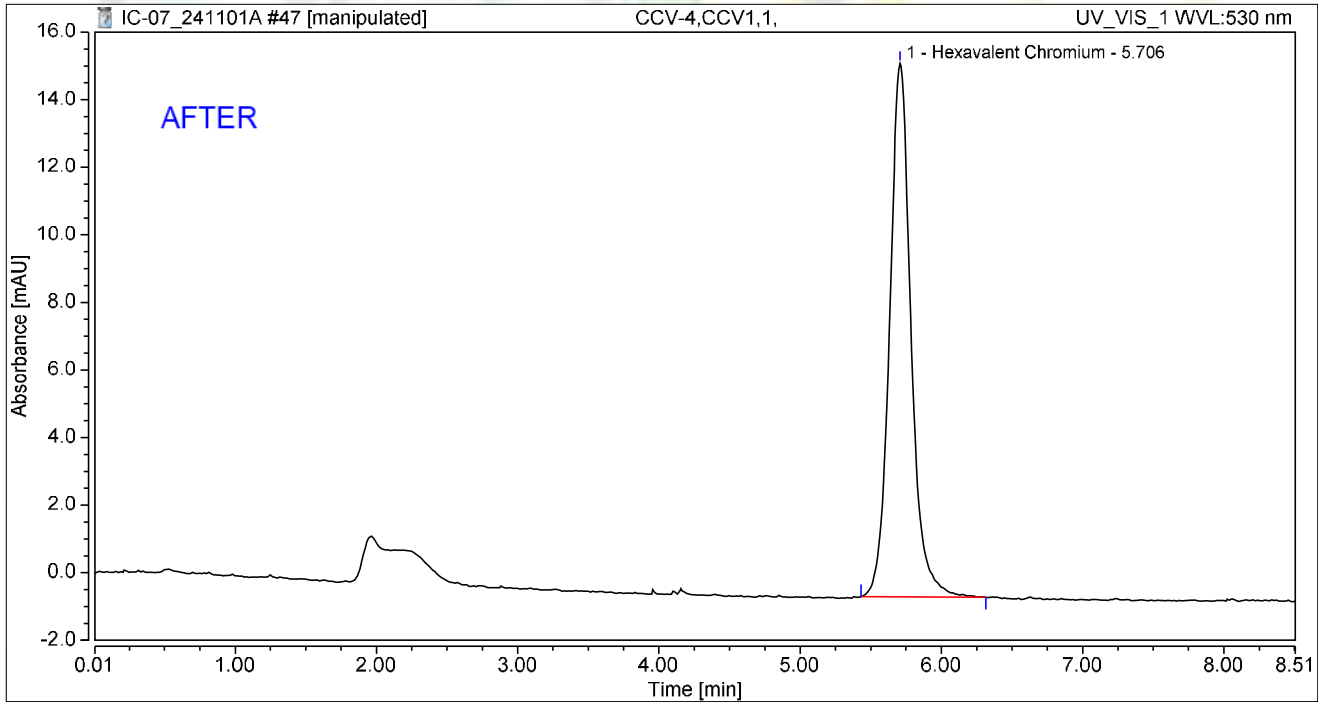
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-4,CCV1,1,	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 16:19	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	2.757	15.788	100.00	100.00	9.7164
Total:			2.757	15.788	100.00	100.00	

Reviewed by:

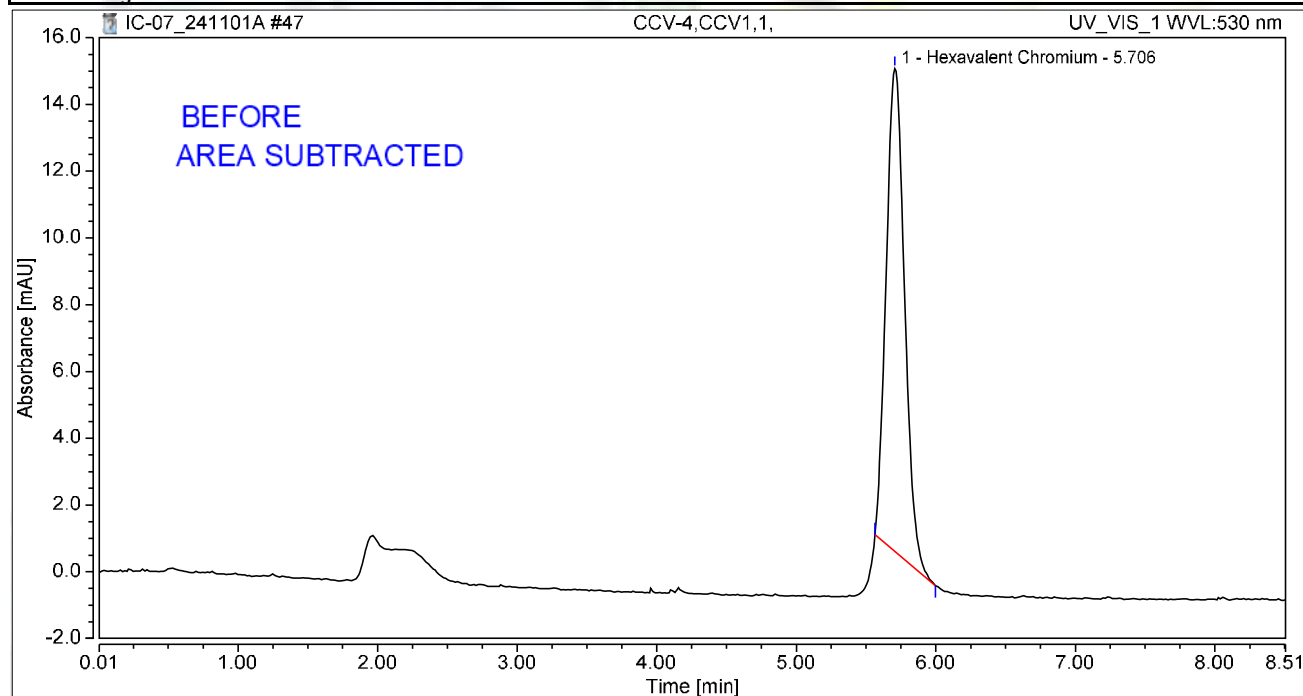
d/Recha 11/7/2024

Chromatogram and Results

Injection Details

Injection Name:	CCV-4,CCV1,1,	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 16:19	Sample Weight:	1.0000

Chromatogram



Integration Results

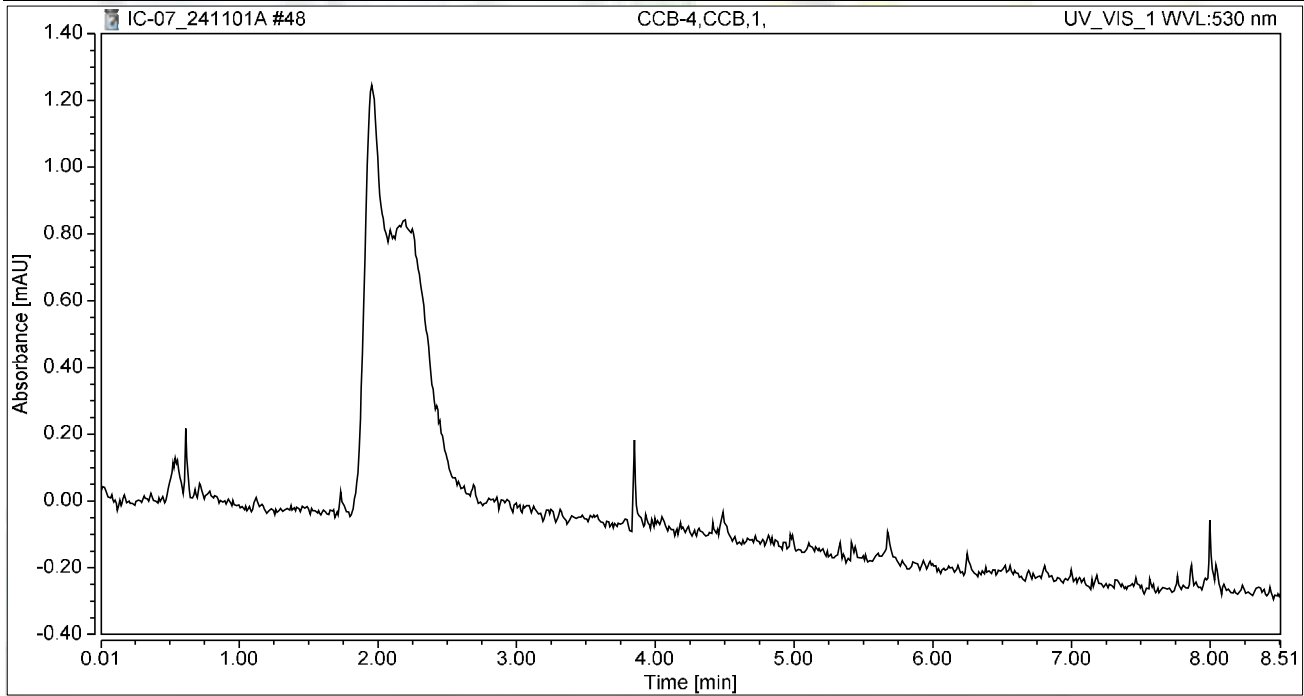
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	2.212	14.468	100.00	100.00	7.7946
Total:			2.212	14.468	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-4,CCB,1,	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 16:31	Sample Weight:	1.0000

Chromatogram



Integration Results

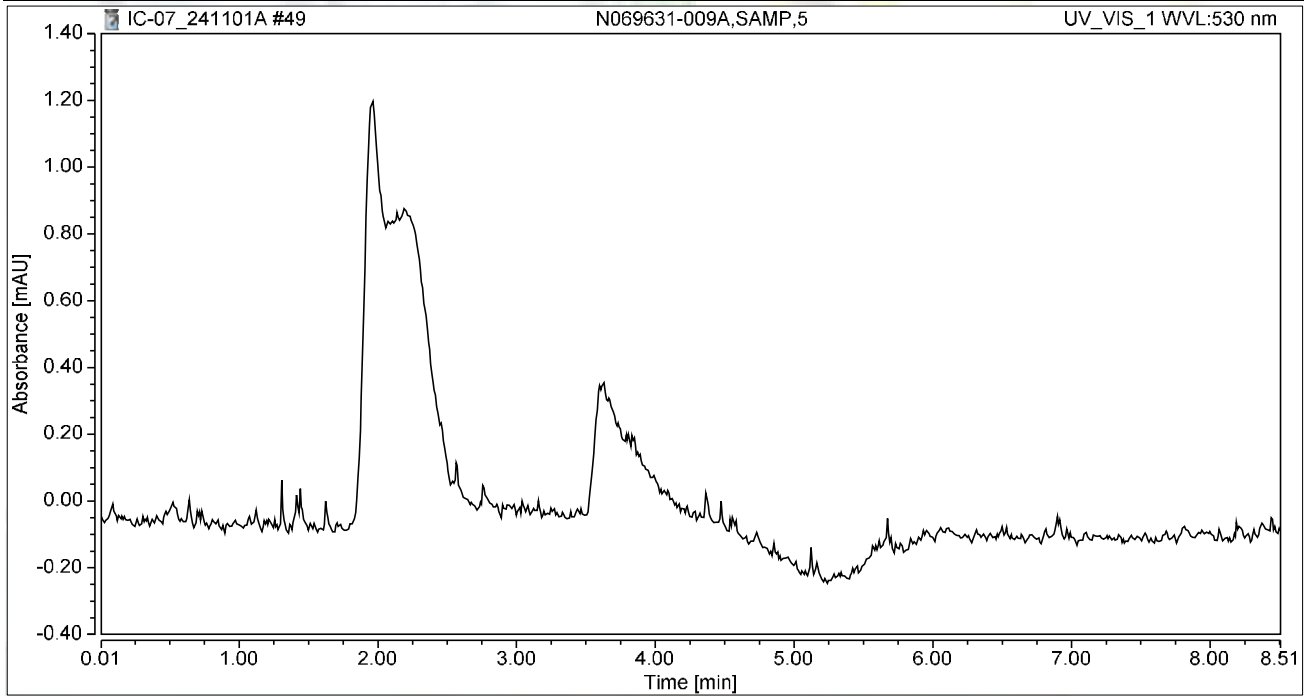
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-009A,SAMP,5	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 16:40	Sample Weight:	1.0000

Chromatogram



Integration Results

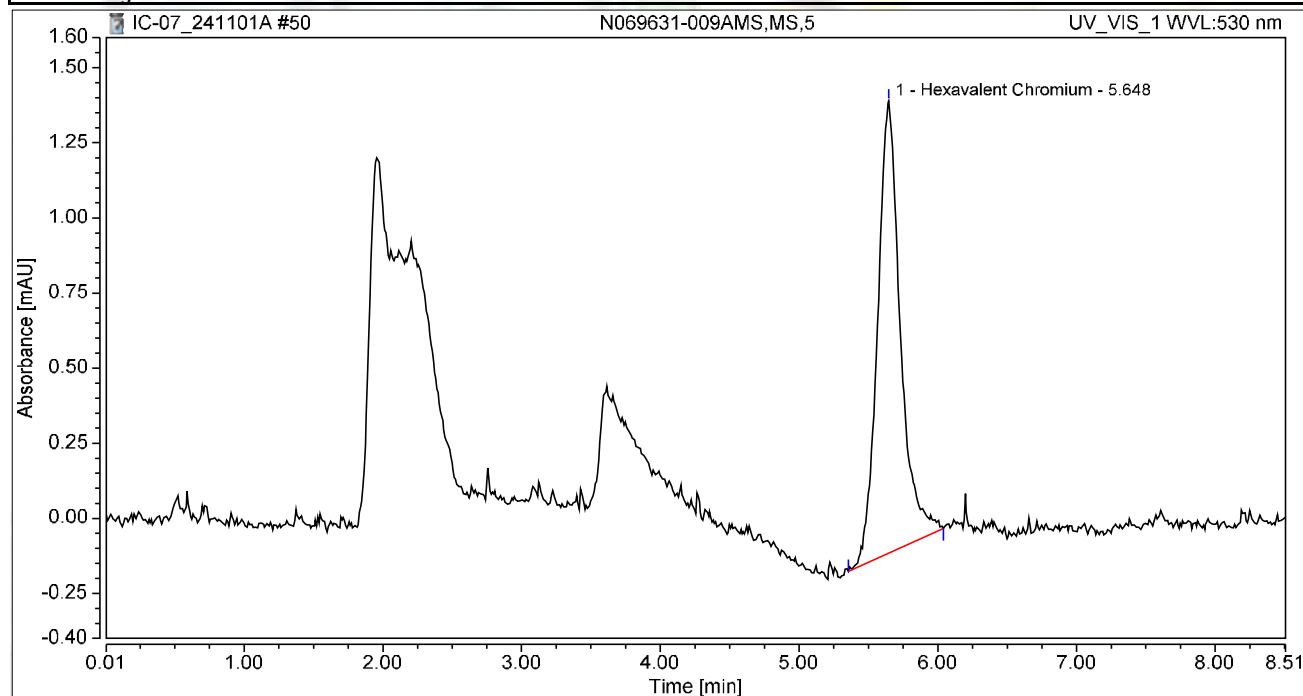
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-009AMS,MS,5	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 16:50	Sample Weight:	1.0000

Chromatogram



Integration Results

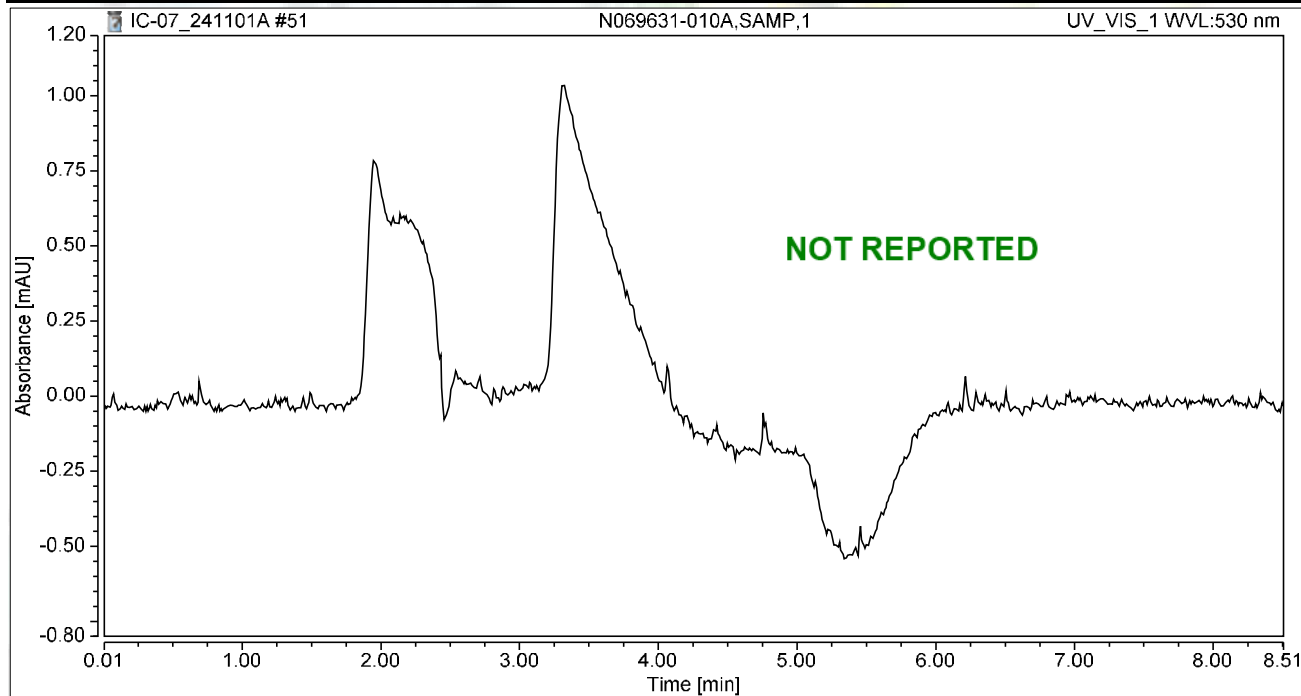
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.648	0.286	1.504	100.00	100.00	1.0088
Total:			0.286	1.504	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-010A,SAMP,1	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 16:59	Sample Weight:	1.0000

Chromatogram



Integration Results

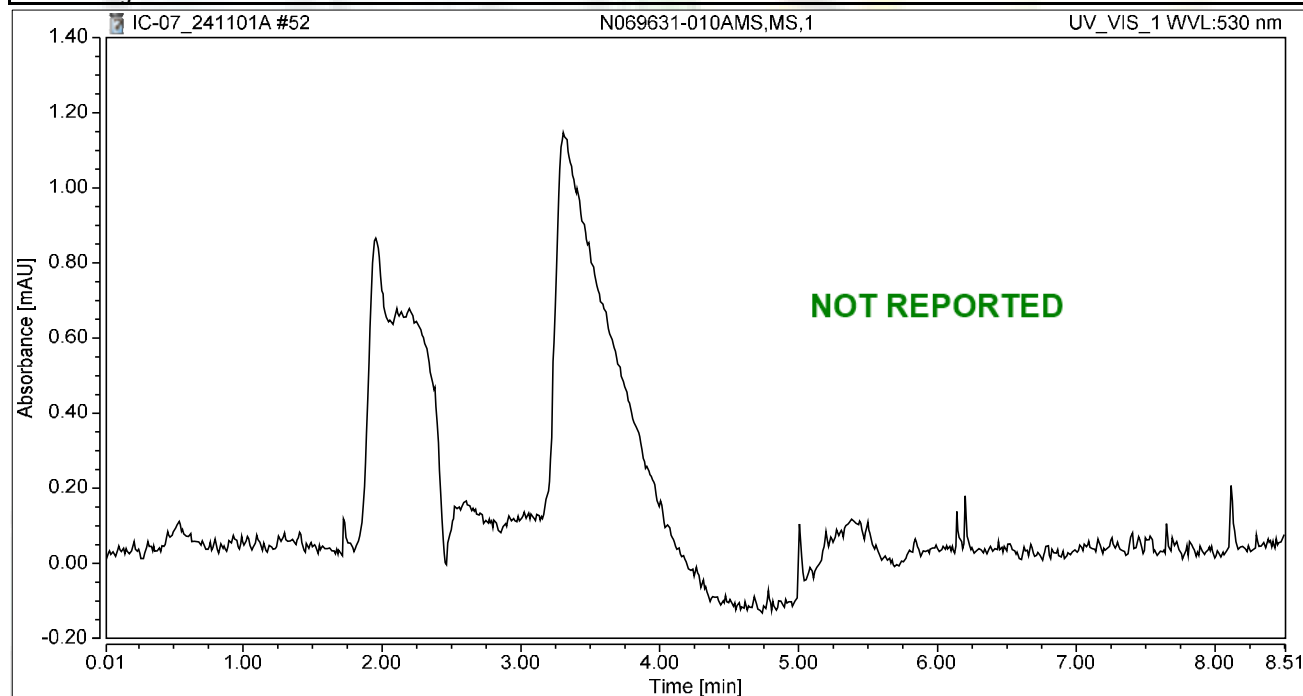
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-010AMS,MS,1	Run Time (min):	8.49
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 17:08	Sample Weight:	1.0000

Chromatogram



Integration Results

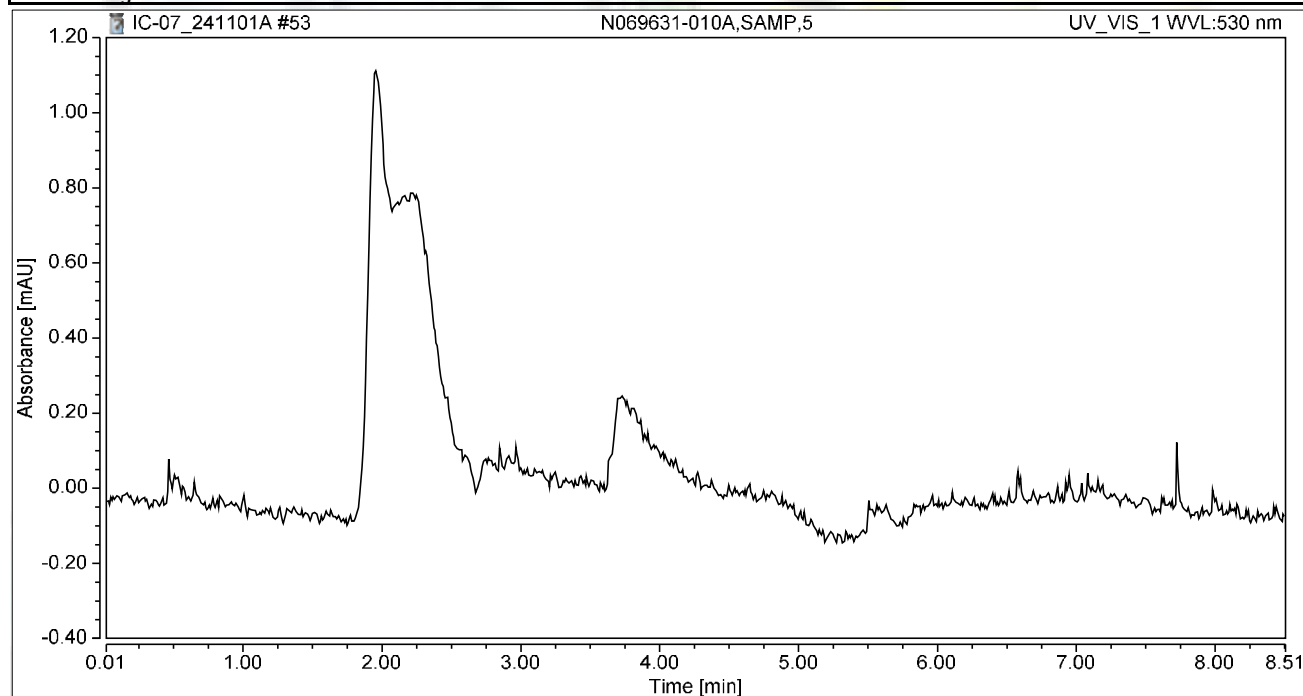
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-010A,SAMP,5	Run Time (min):	8.49
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 17:18	Sample Weight:	1.0000

Chromatogram



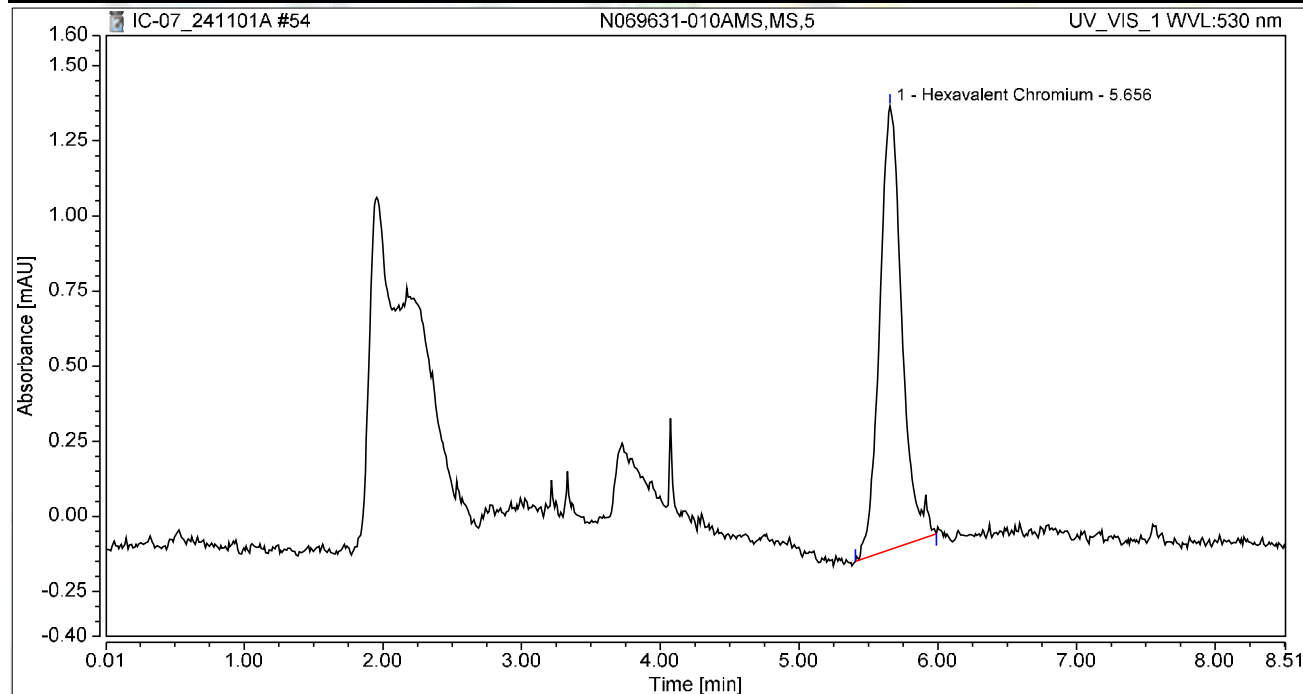
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069631-010AMS,MS,5	Run Time (min): 8.50
Vial Number:	8	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	01/Nov/24 17:27	Sample Weight: 1.0000

Chromatogram



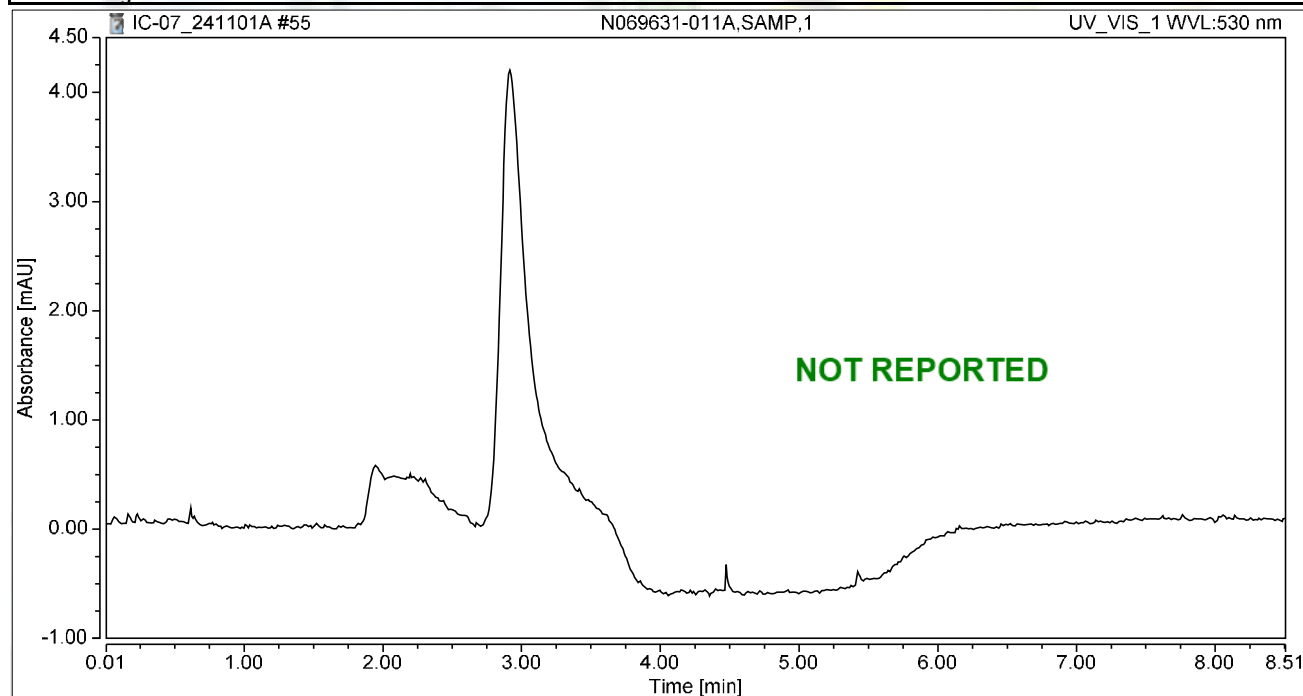
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.656	0.274	1.476	100.00	100.00	0.9668
Total:			0.274	1.476	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-011A,SAMP,1	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 17:37	Sample Weight:	1.0000

Chromatogram



Integration Results

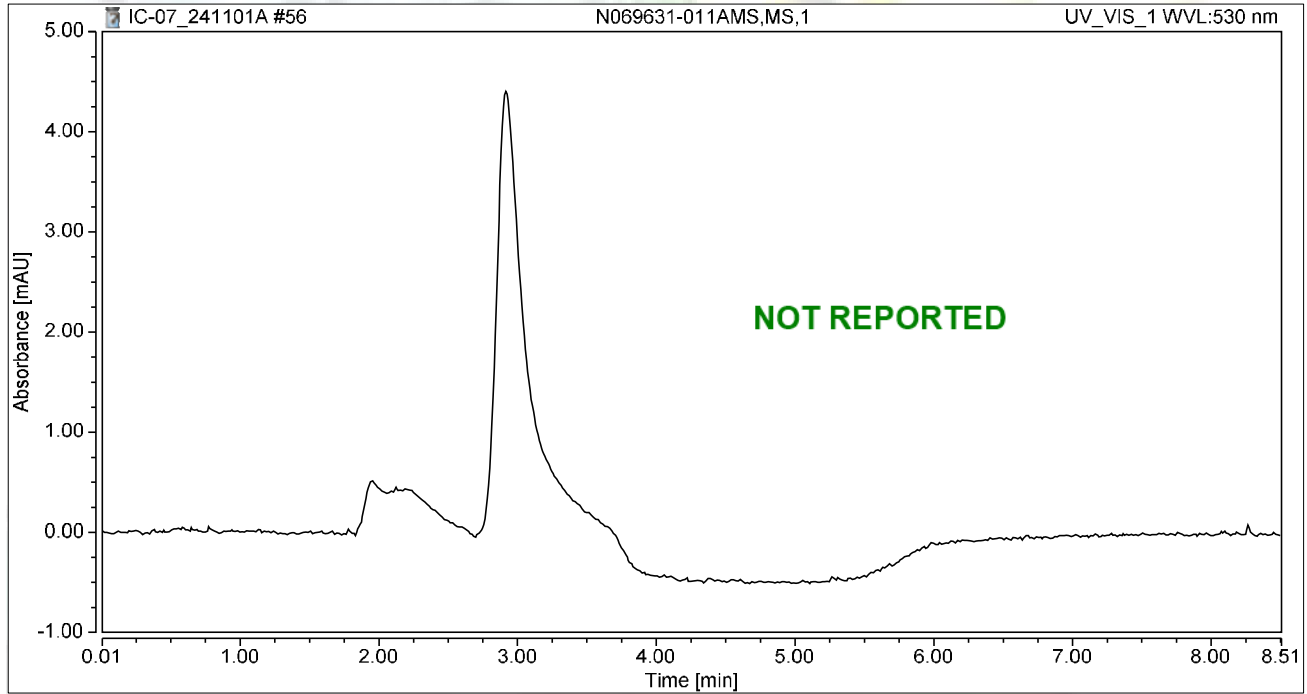
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-011AMS,MS,1	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 17:46	Sample Weight:	1.0000

Chromatogram



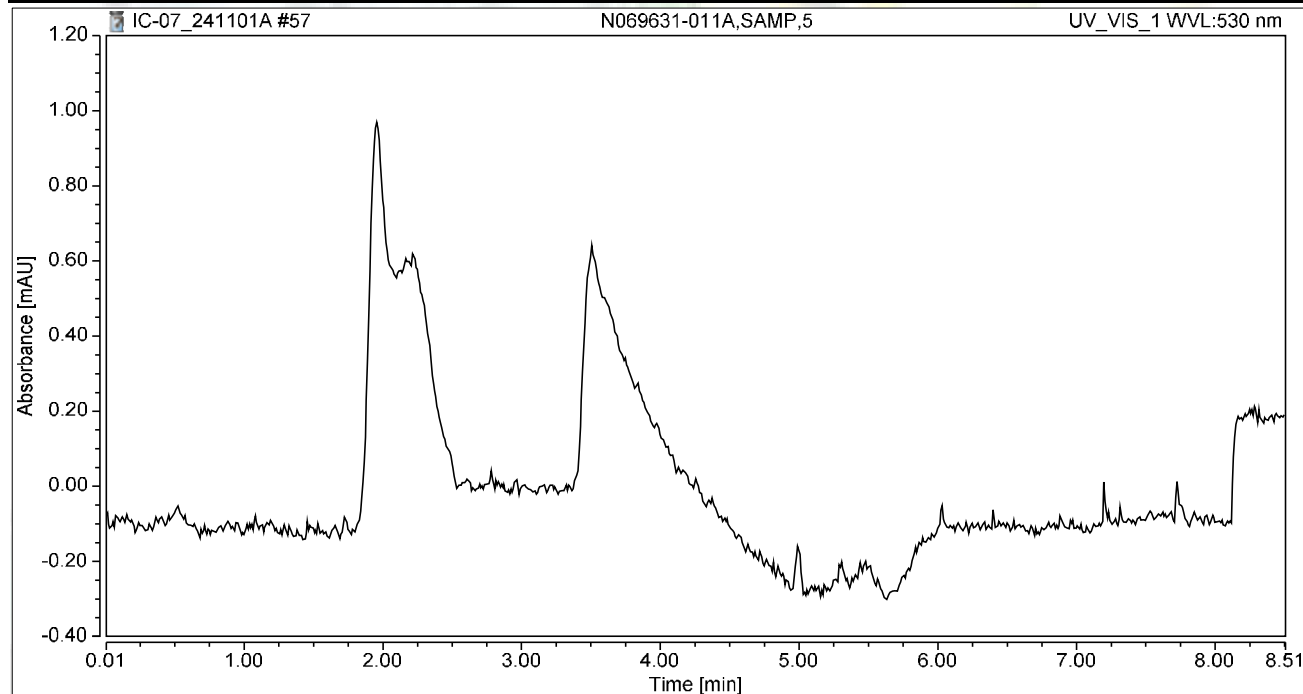
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069631-011A,SAMP,5	Run Time (min): 8.50
Vial Number:	11	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	01/Nov/24 17:56	Sample Weight: 1.0000

Chromatogram



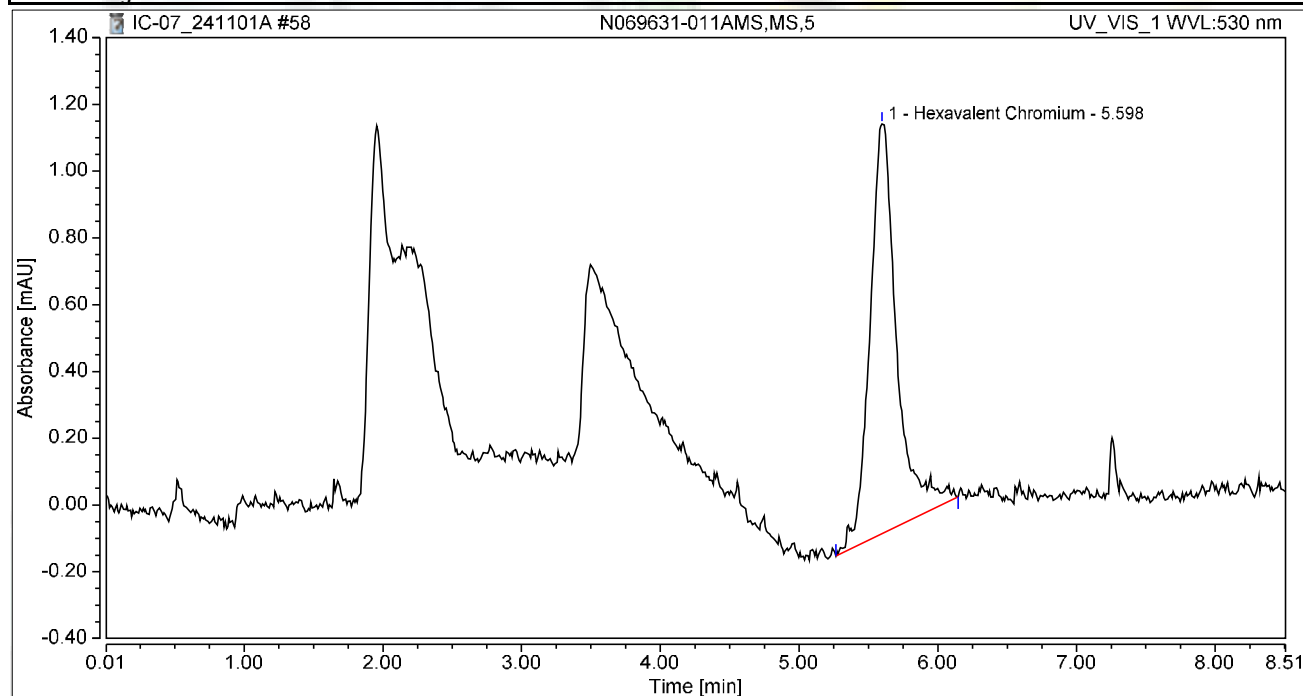
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-011AMS,MS,5	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 18:05	Sample Weight:	1.0000

Chromatogram



Integration Results

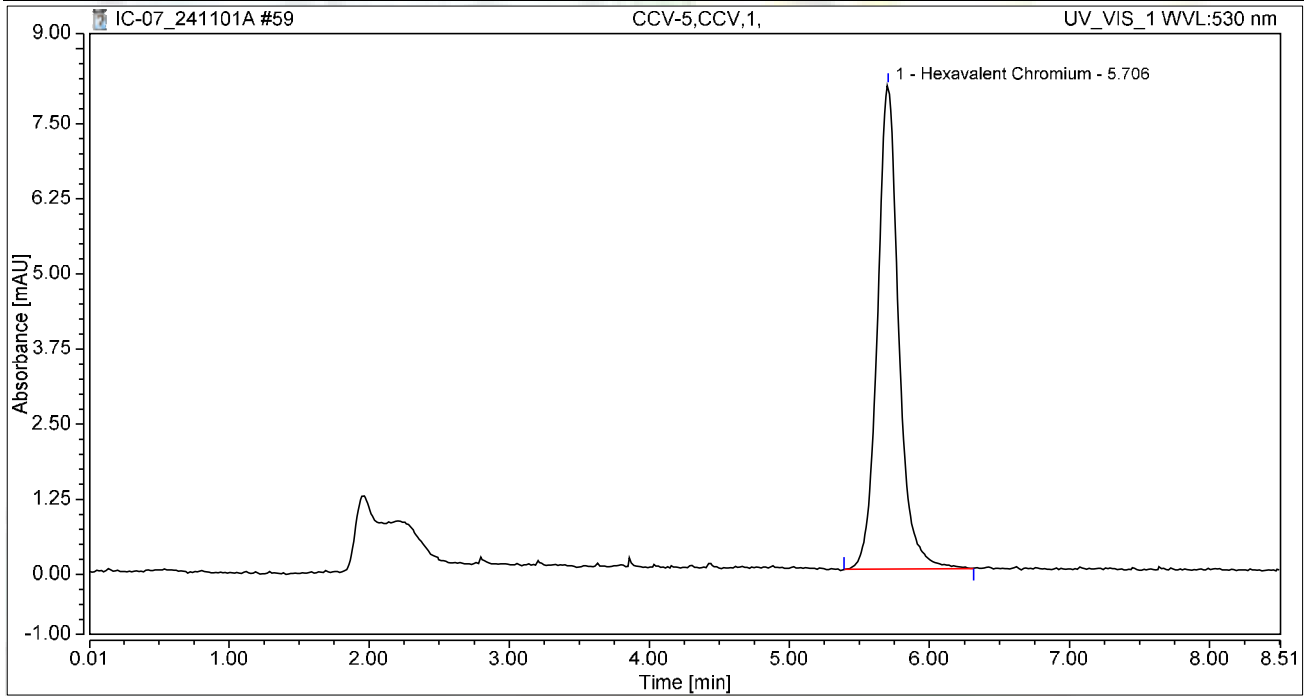
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.598	0.275	1.227	100.00	100.00	0.9703
Total:			0.275	1.227	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 18:15	Sample Weight:	1.0000

Chromatogram



Integration Results

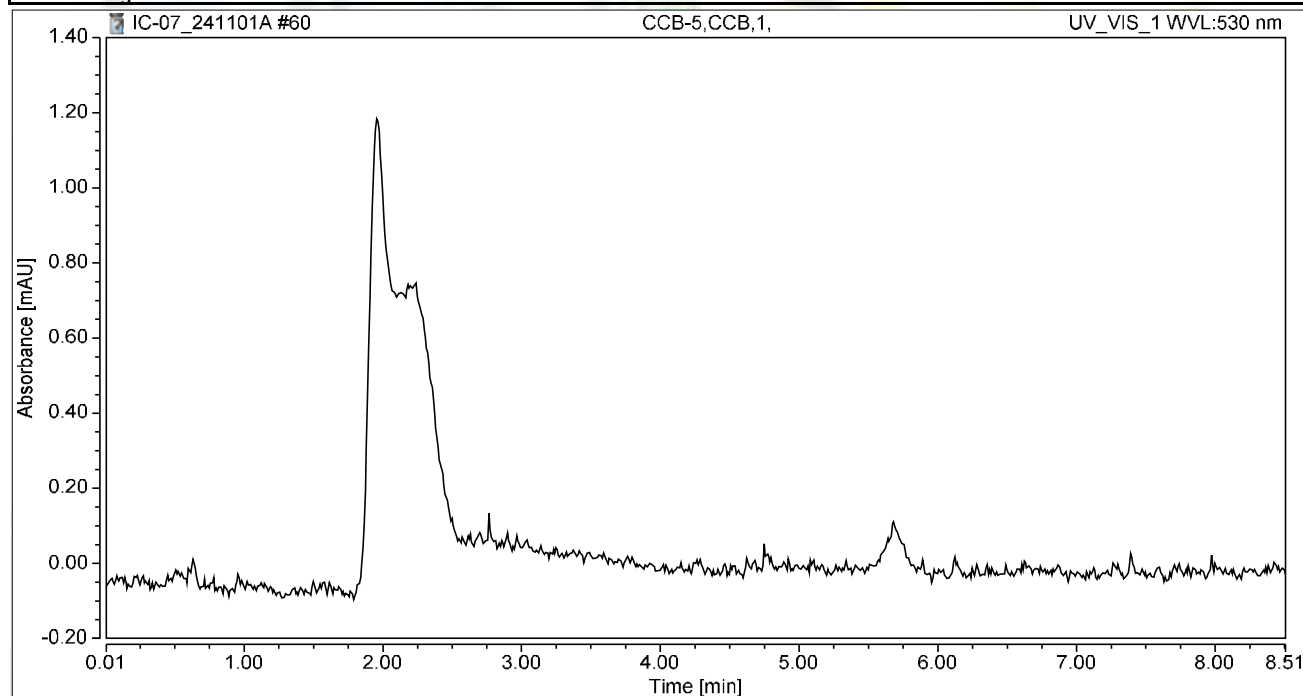
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	1.419	8.050	100.00	100.00	4.9996
Total:			1.419	8.050	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 18:24	Sample Weight:	1.0000

Chromatogram



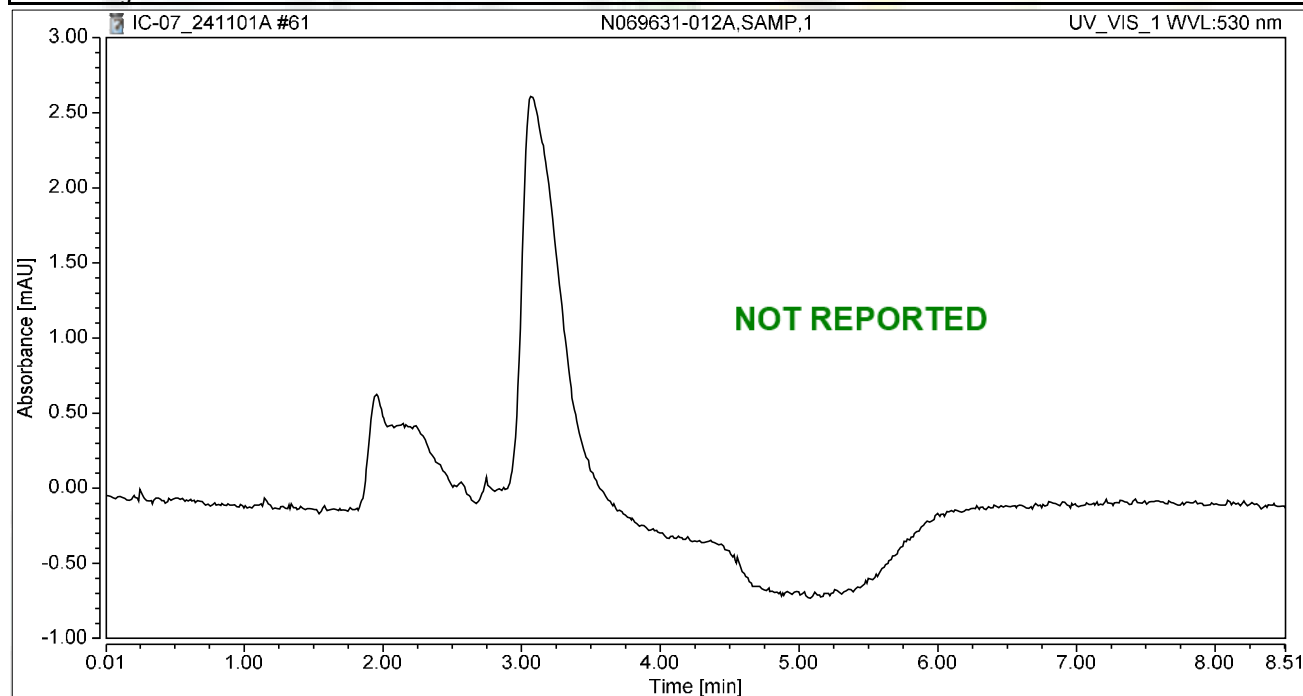
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069631-012A,SAMP,1	Run Time (min): 8.50
Vial Number:	15	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	01/Nov/24 18:34	Sample Weight: 1.0000

Chromatogram



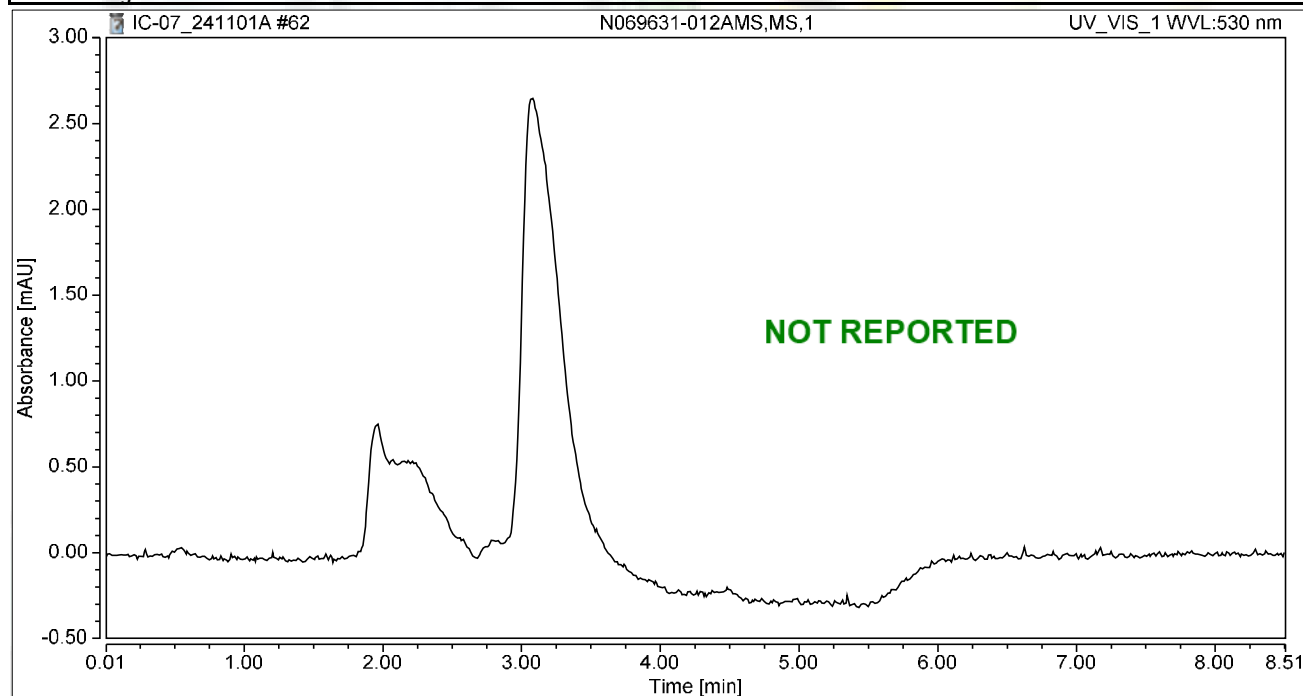
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-012AMS,MS,1	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 18:43	Sample Weight:	1.0000

Chromatogram



Integration Results

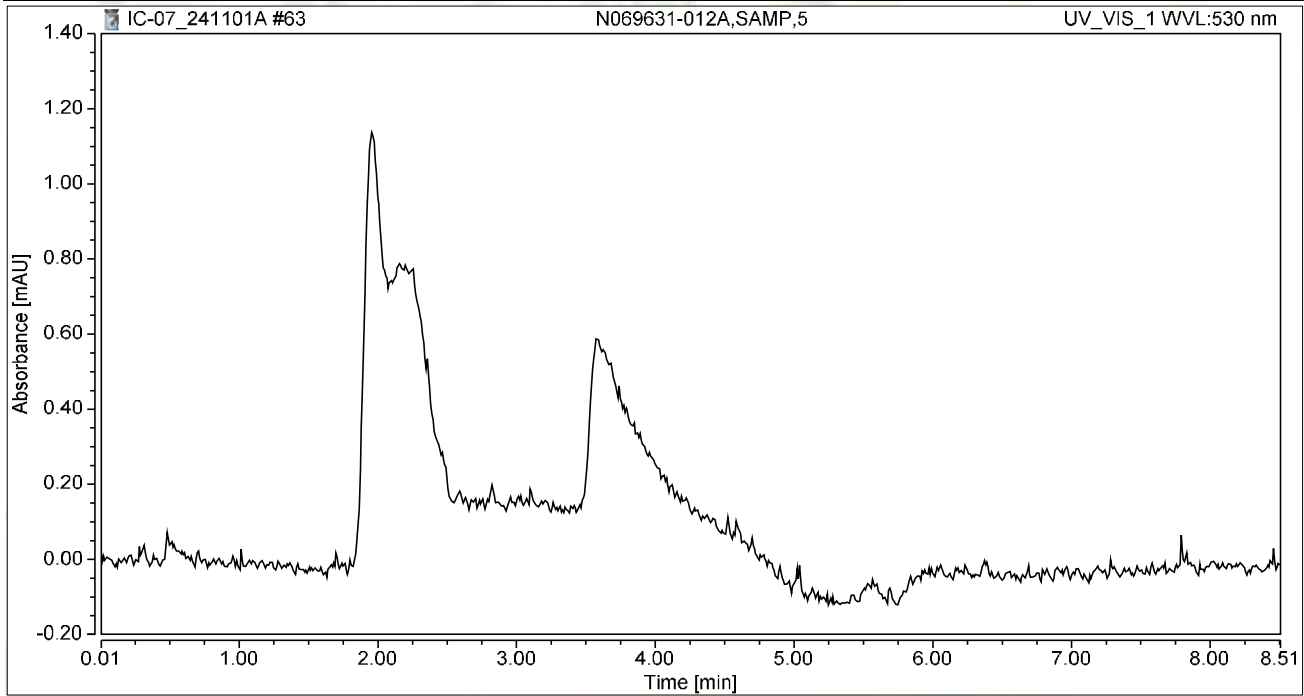
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-012A,SAMP,5	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 18:52	Sample Weight:	1.0000

Chromatogram



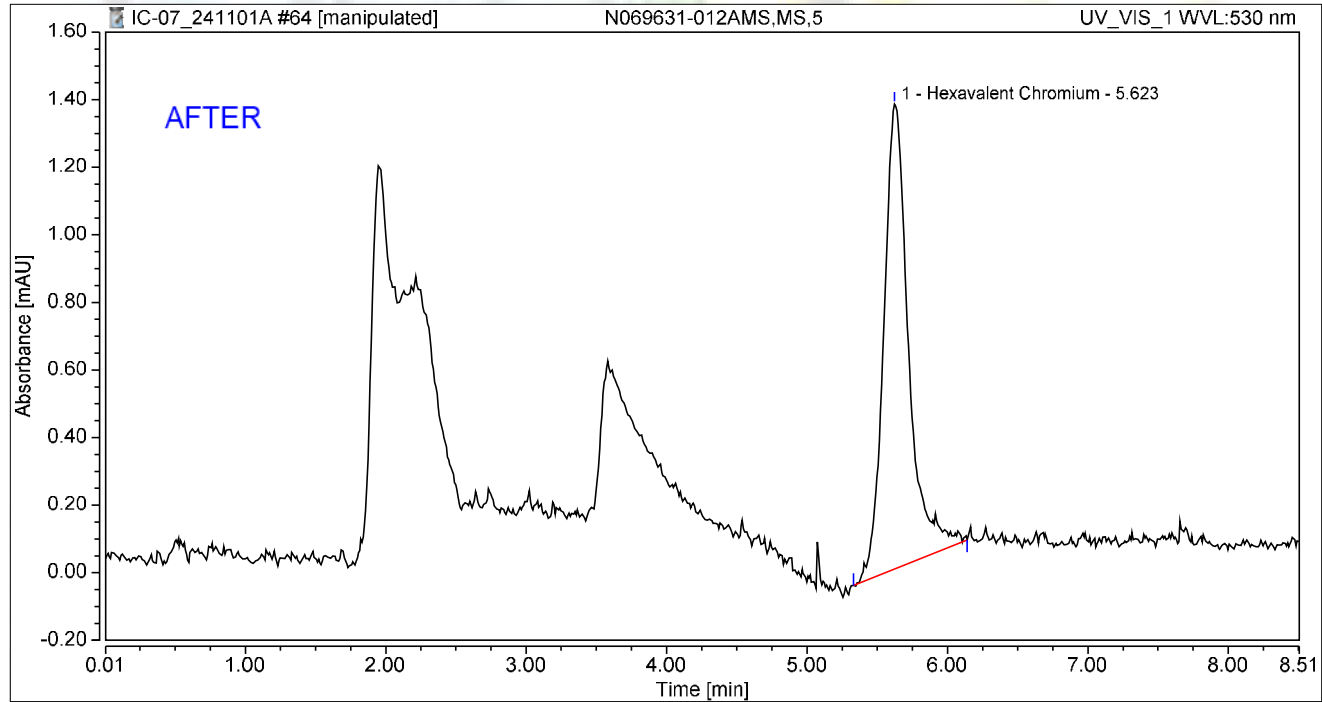
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069631-012AMS,MS,5	Run Time (min): 8.50
Vial Number:	18	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	01/Nov/24 19:02	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.623	0.282	1.375	100.00	100.00	0.9937
Total:			0.282	1.375	100.00	100.00	

Reviewed by:

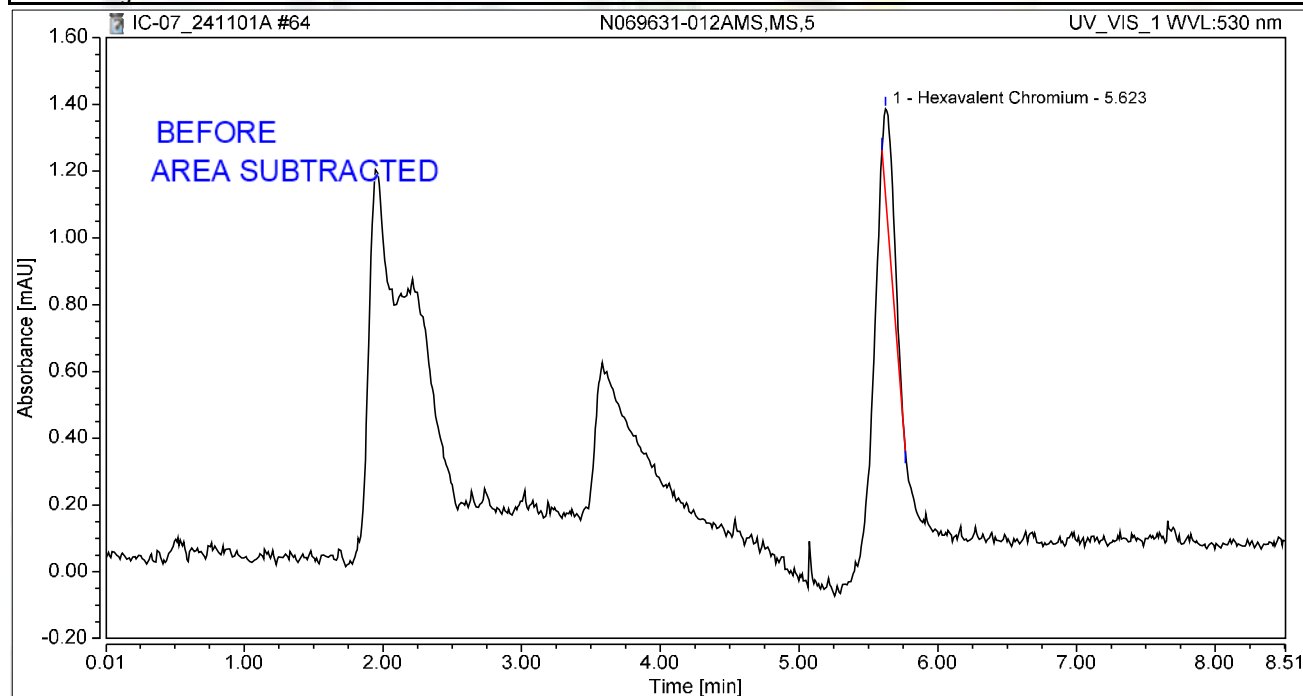
MRecha 11/7/2024

Chromatogram and Results

Injection Details

Injection Name:	N069631-012AMS,MS,5	Run Time (min):	8.50
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 19:02	Sample Weight:	1.0000

Chromatogram



Integration Results

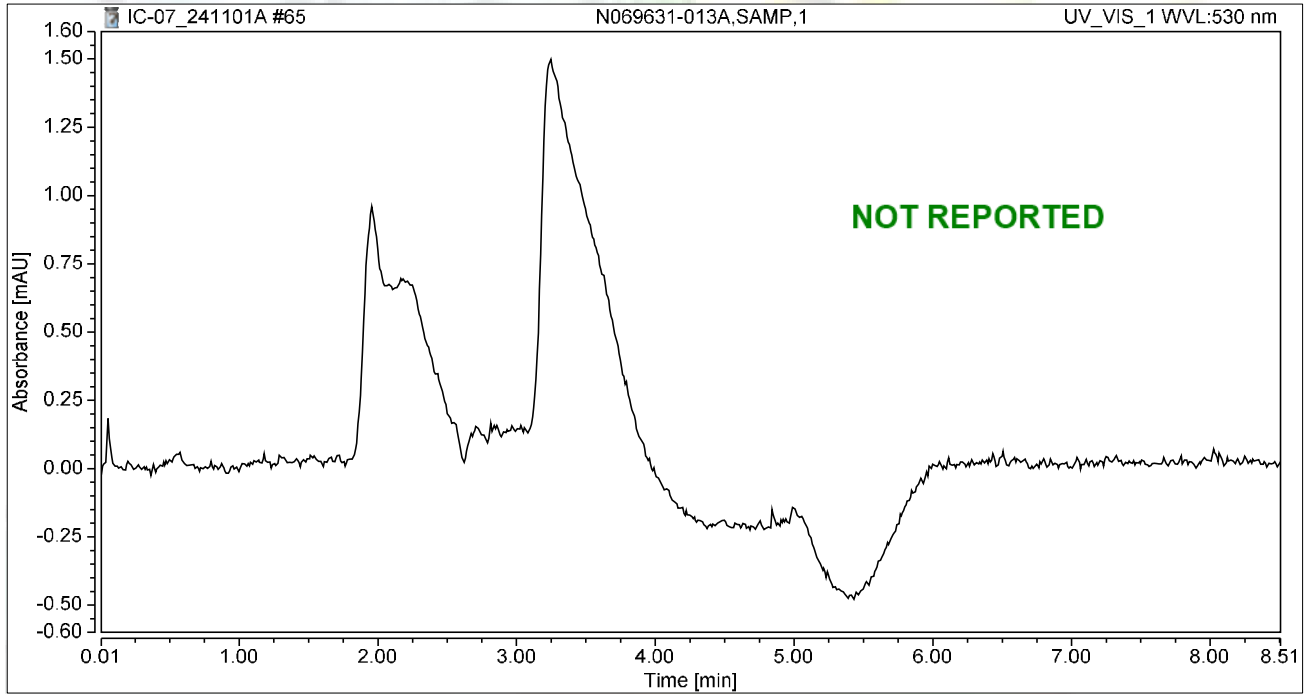
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.623	0.029	0.258	100.00	100.00	0.1031
Total:			0.029	0.258	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-013A,SAMP,1	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 19:11	Sample Weight:	1.0000

Chromatogram



Integration Results

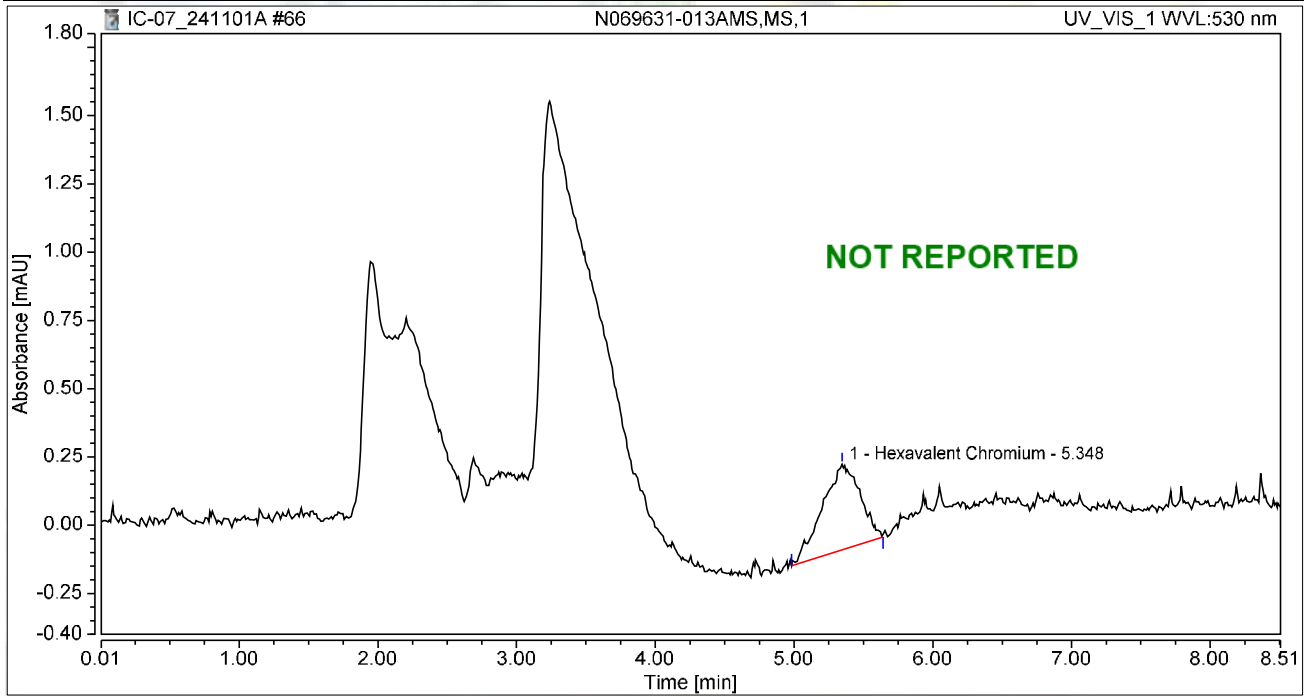
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-013AMS,MS,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 19:21	Sample Weight:	1.0000

Chromatogram



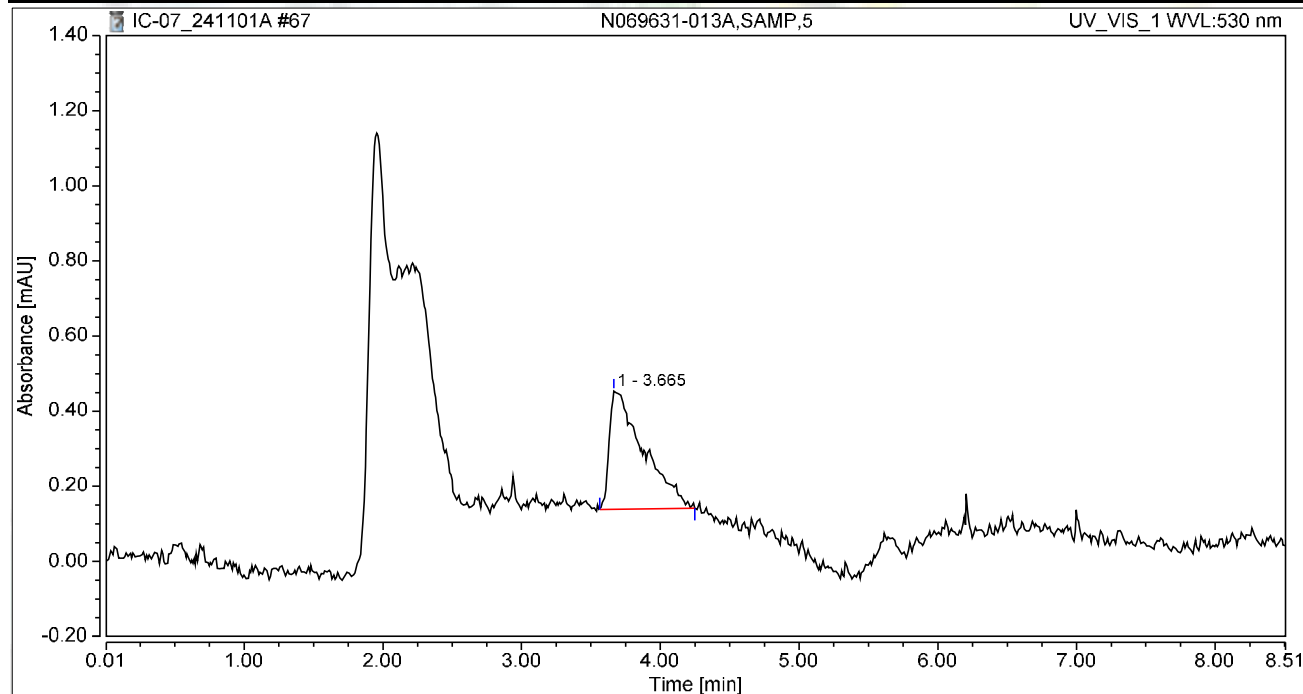
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.348	0.098	0.311	100.00	100.00	0.3454
Total:			0.098	0.311	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069631-013A,SAMP,5	Run Time (min): 8.50
Vial Number:	21	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	01/Nov/24 19:30	Sample Weight: 1.0000

Chromatogram

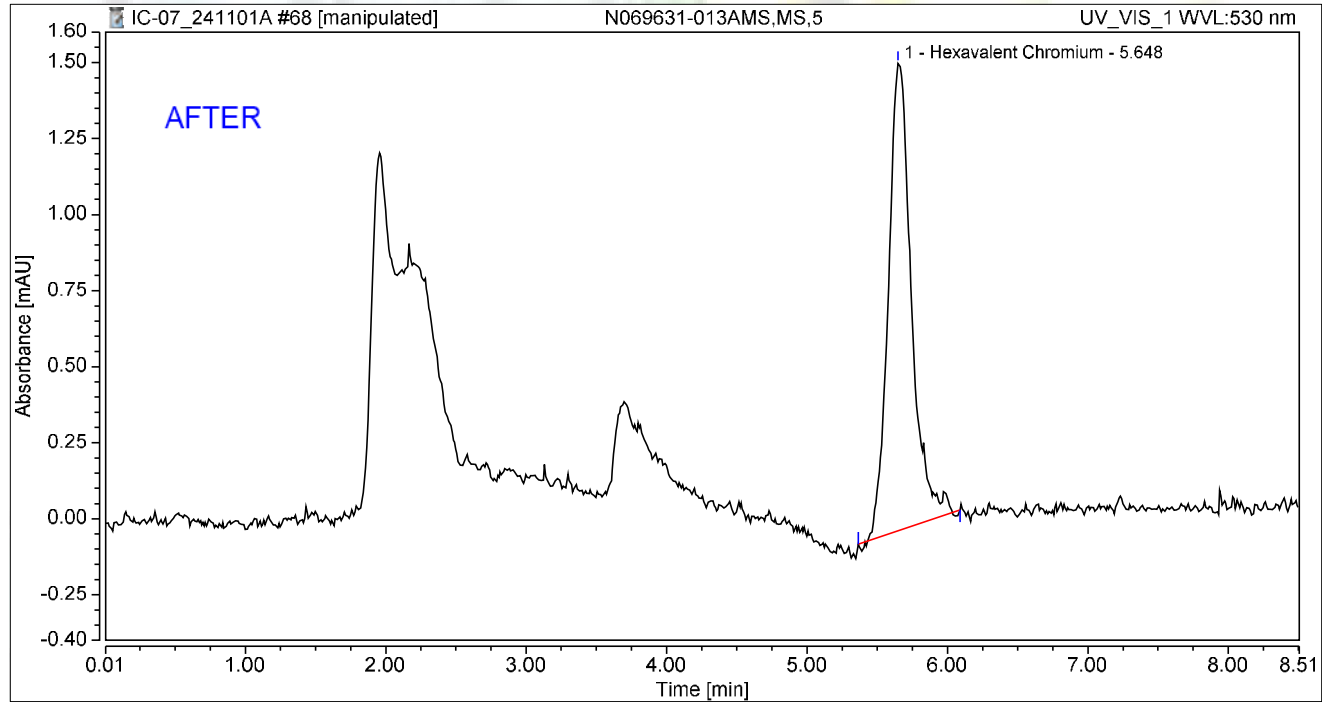


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.665	0.090	0.315	100.00	100.00	n.a.
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.090	0.315	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069631-013AMS,MS,5	Run Time (min): 8.50
Vial Number:	22	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	01/Nov/24 19:40	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.648	0.291	1.538	100.00	100.00	1.0262
Total:			0.291	1.538	100.00	100.00	

Reviewed by:

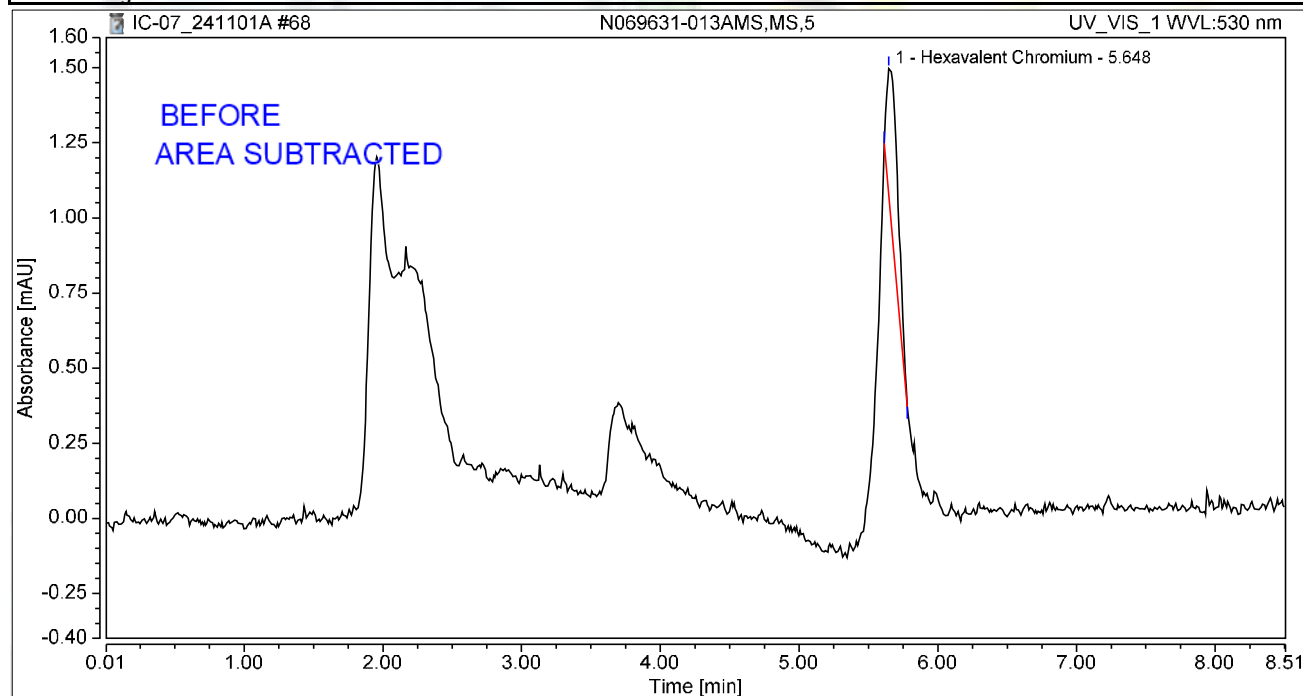
d/Rocha 11/7/2024

Chromatogram and Results

Injection Details

Injection Name:	N069631-013AMS,MS,5	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 19:40	Sample Weight:	1.0000

Chromatogram



Integration Results

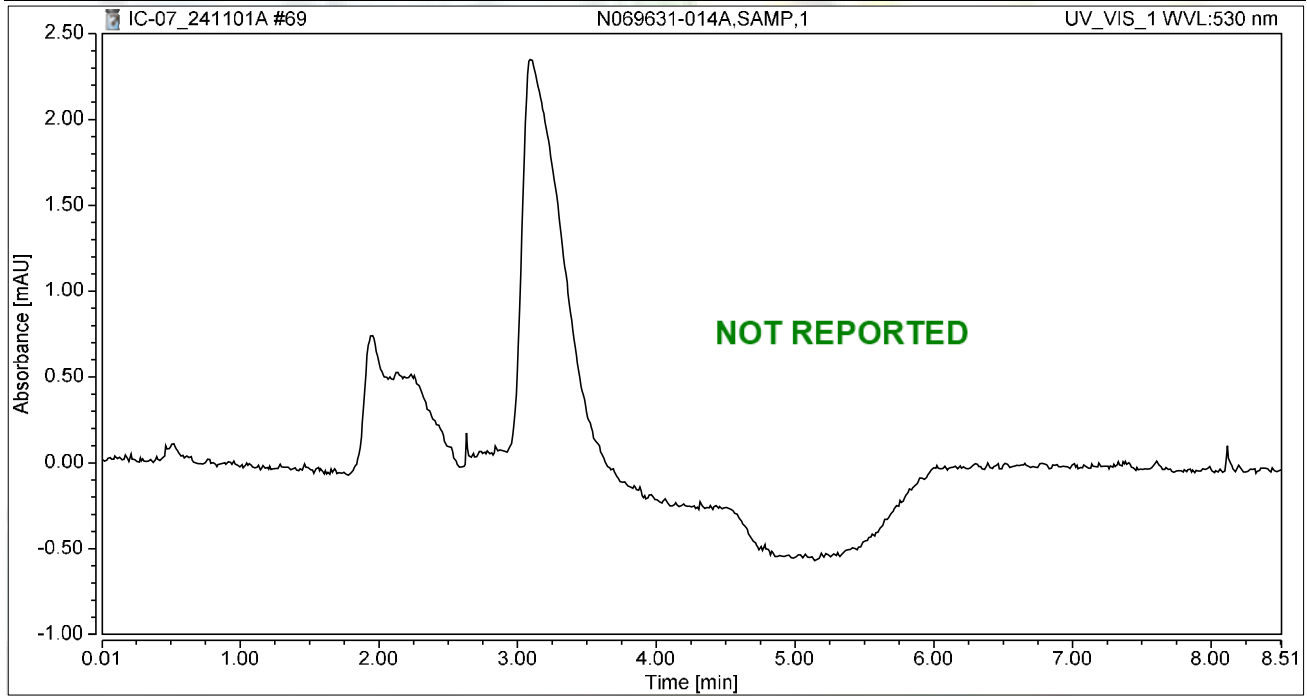
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.648	0.047	0.425	100.00	100.00	0.1671
Total:			0.047	0.425	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-014A,SAMP,1	Run Time (min):	8.50
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 19:49	Sample Weight:	1.0000

Chromatogram



Integration Results

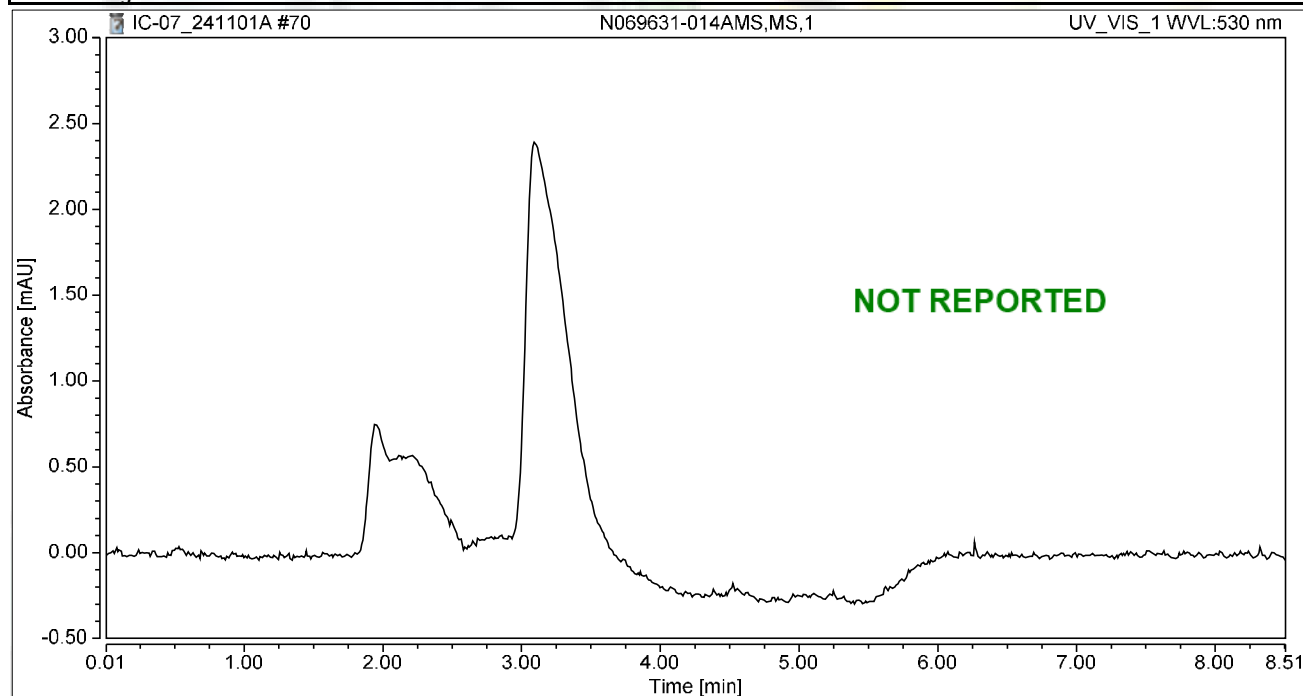
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-014AMS,MS,1	Run Time (min):	8.50
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 19:59	Sample Weight:	1.0000

Chromatogram



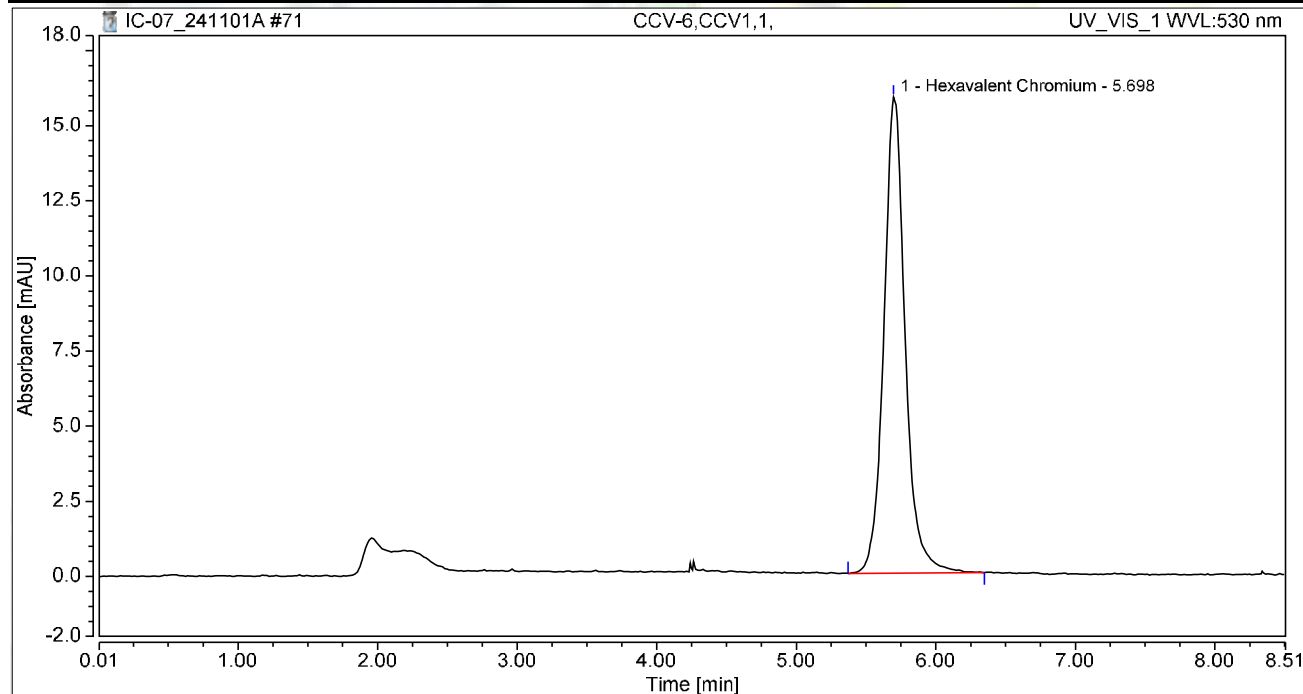
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	CCV-6,CCV1,1,	Run Time (min): 8.50
Vial Number:	25	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	01/Nov/24 20:08	Sample Weight: 1.0000

Chromatogram



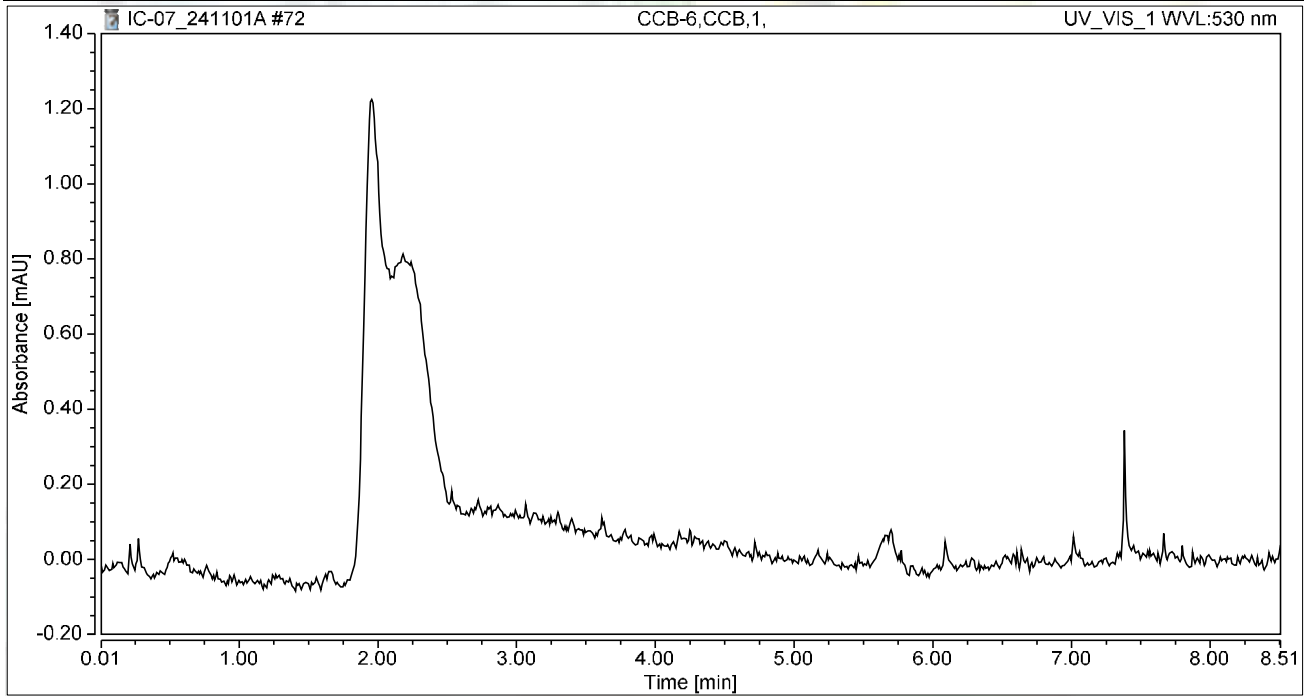
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	2.802	15.855	100.00	100.00	9.8744
Total:			2.802	15.855	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-6,CCB,1,	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 20:18	Sample Weight:	1.0000

Chromatogram



Integration Results

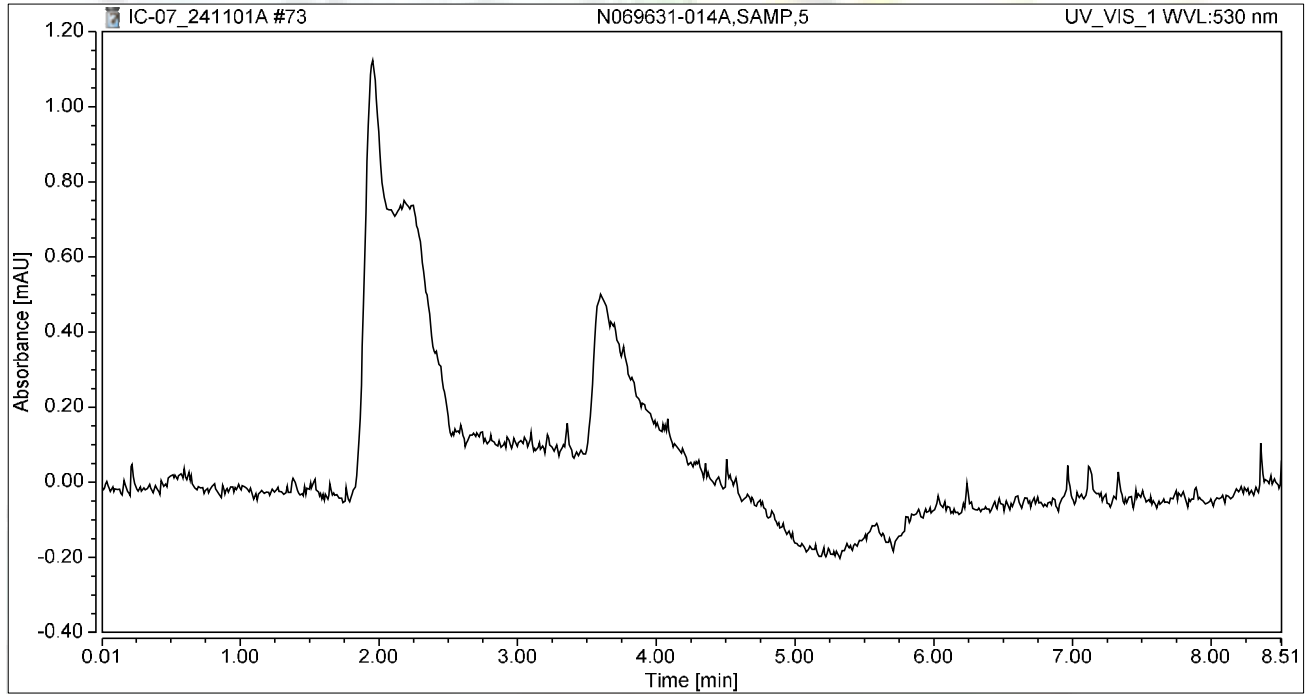
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-014A,SAMP,5	Run Time (min):	8.50
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 20:27	Sample Weight:	1.0000

Chromatogram



Integration Results

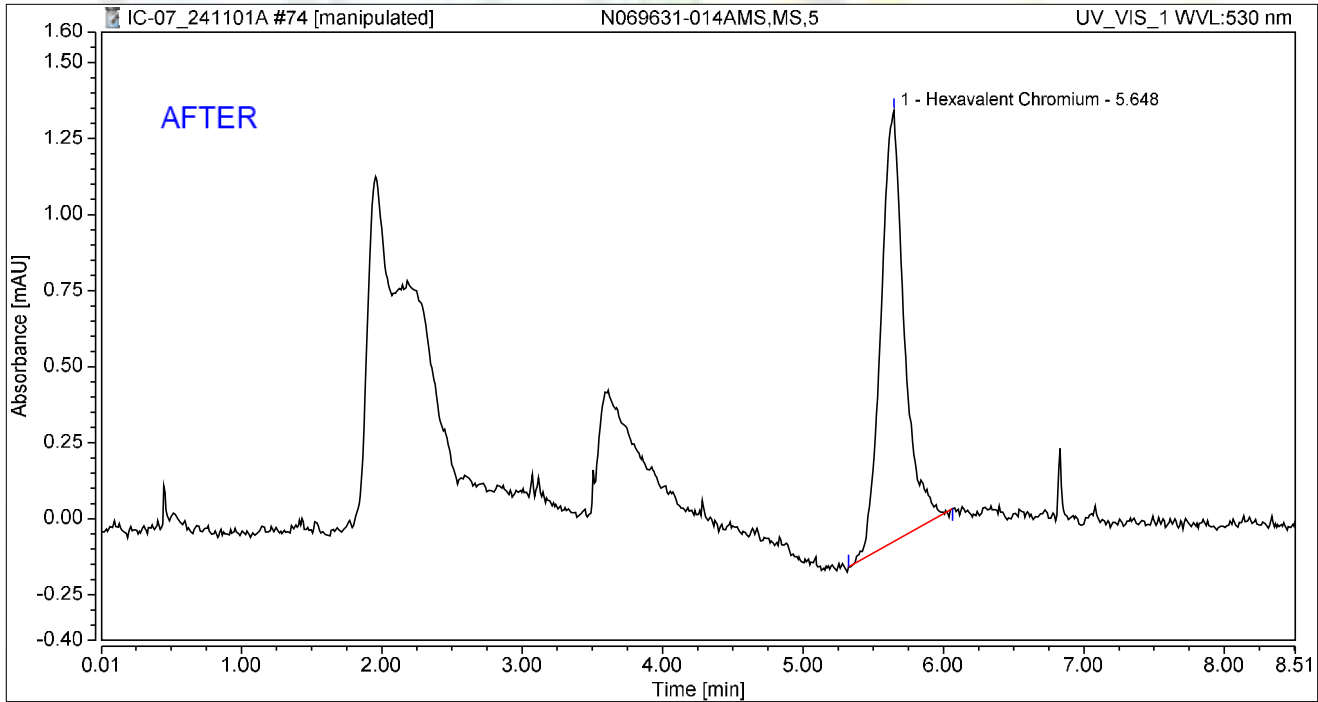
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-014AMS,MS,5	Run Time (min):	8.50
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 20:36	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.648	0.274	1.417	100.00	100.00	0.9659
Total:			0.274	1.417	100.00	100.00	

Reviewed by:

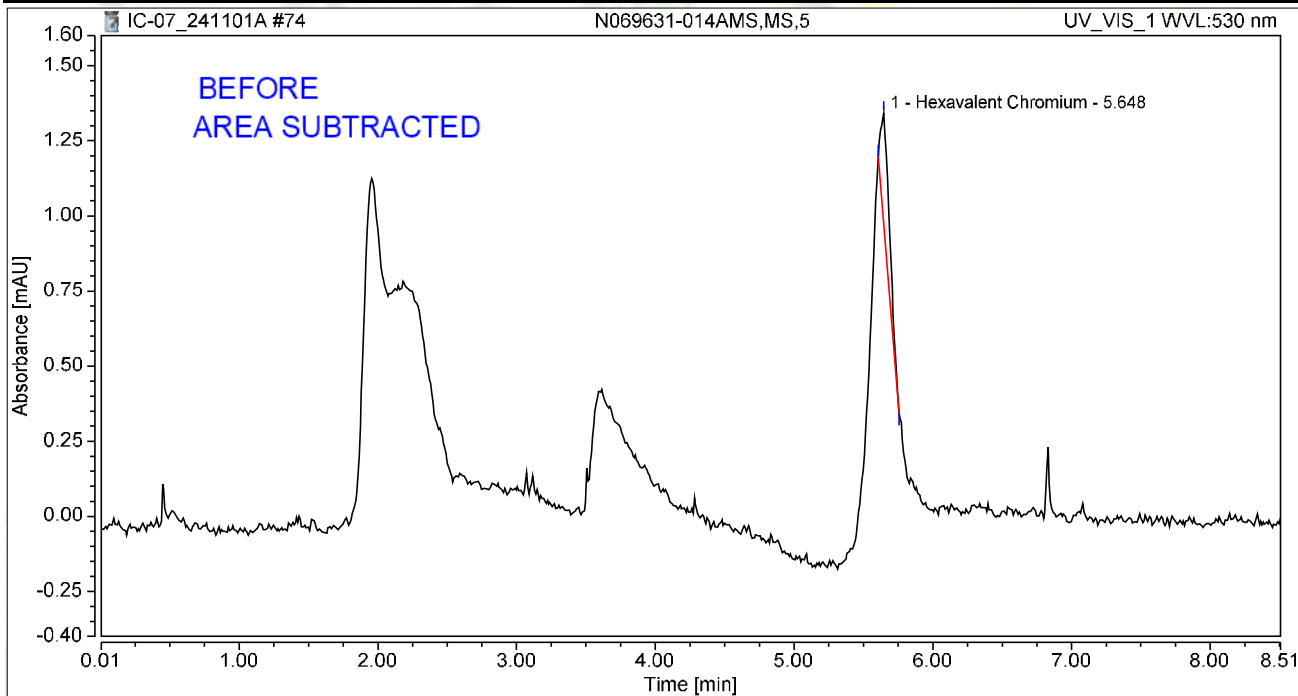
M. Rocha 11/7/2024

Chromatogram and Results

Injection Details

Injection Name:	N069631-014AMS,MS,5	Run Time (min):	8.50
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 20:36	Sample Weight:	1.0000

Chromatogram



Integration Results

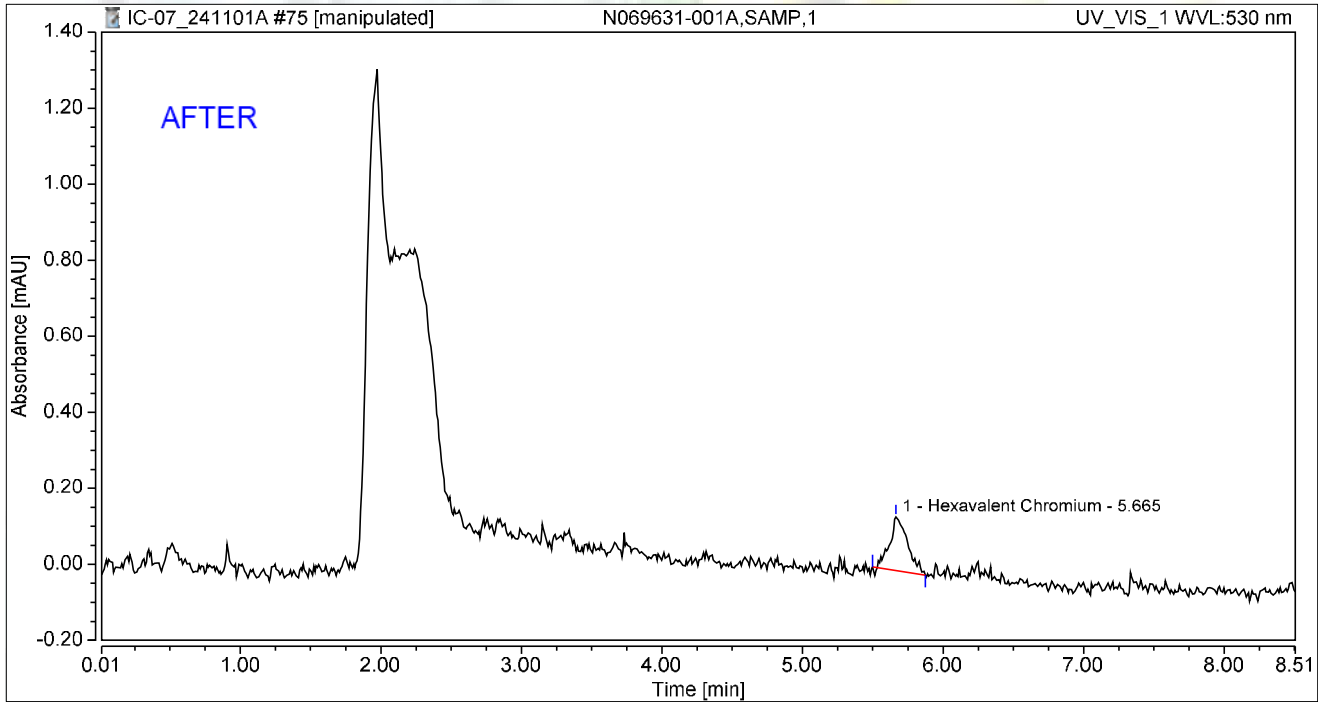
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.648	0.027	0.382	100.00	100.00	0.0955
Total:			0.027	0.382	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-001A,SAMP,1	Run Time (min):	8.49
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 20:46	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.021	0.141	100.00	100.00	0.0728
Total:			0.021	0.141	100.00	100.00	

Reviewed by:

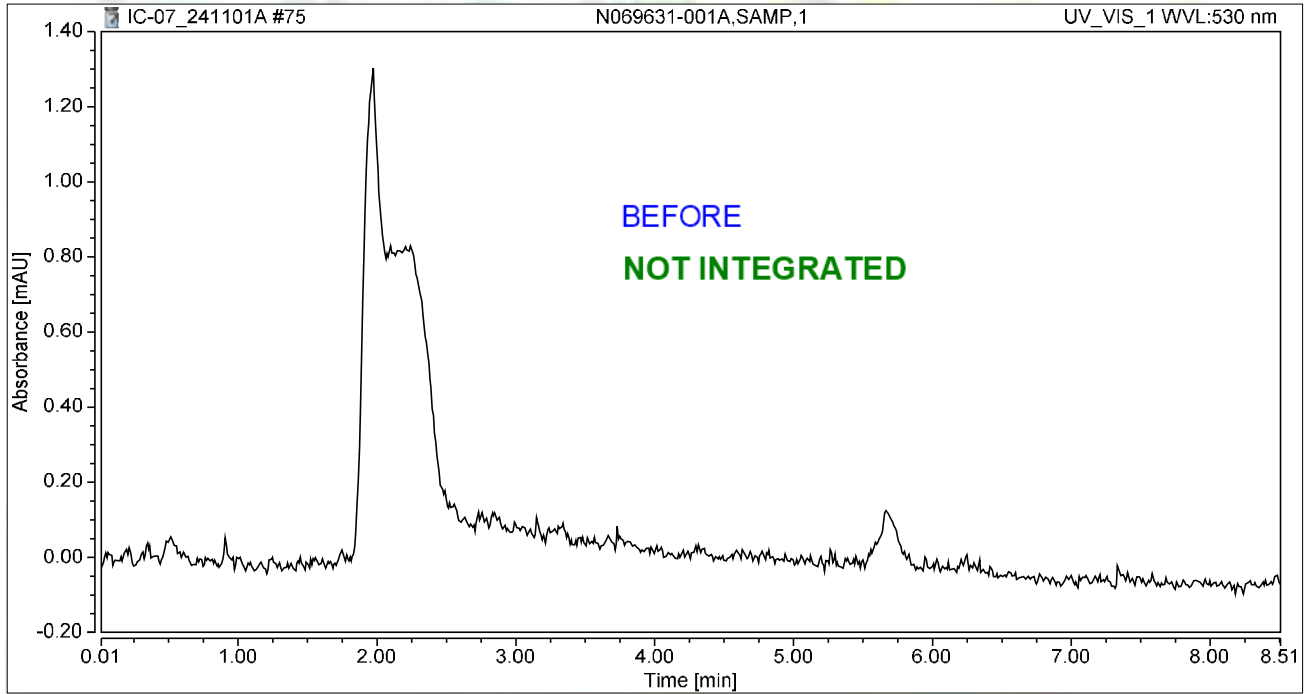
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Chromatogram and Results

Injection Details

Injection Name:	N069631-001A,SAMP,1	Run Time (min):	8.49
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 20:46	Sample Weight:	1.0000

Chromatogram



Integration Results

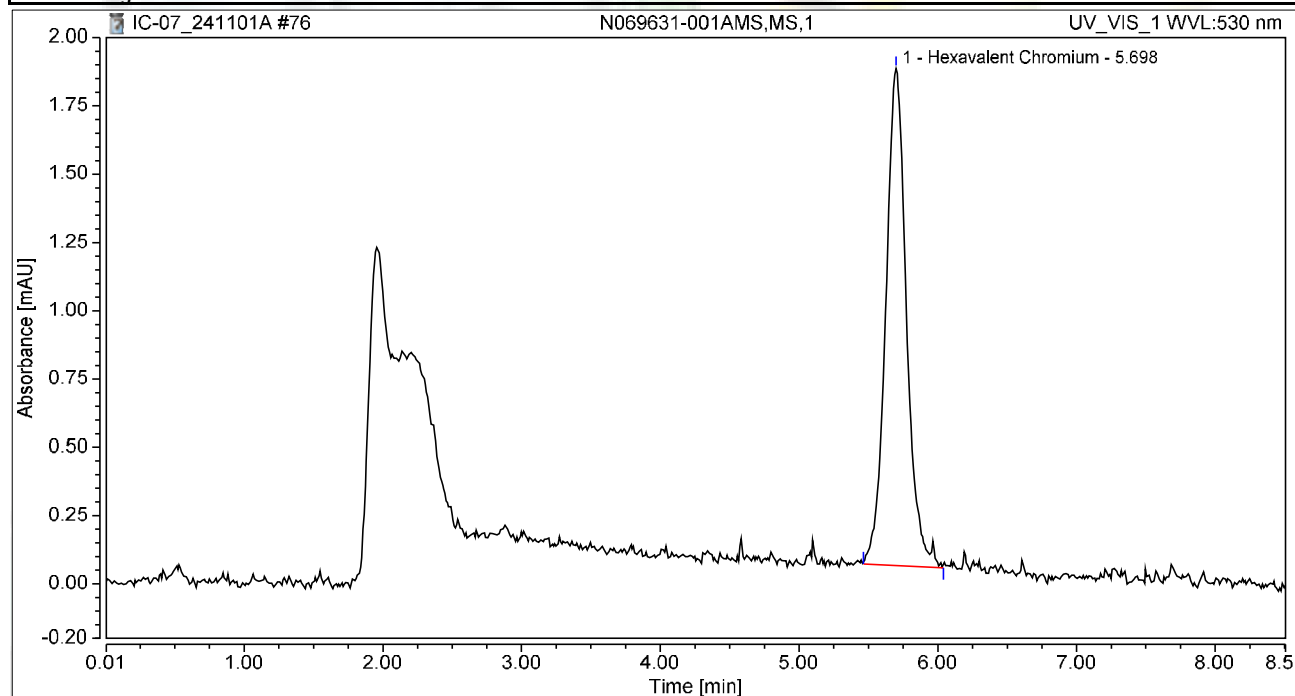
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-001AMS,MS,1	Run Time (min):	8.50
Vial Number:	30	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 20:55	Sample Weight:	1.0000

Chromatogram



Integration Results

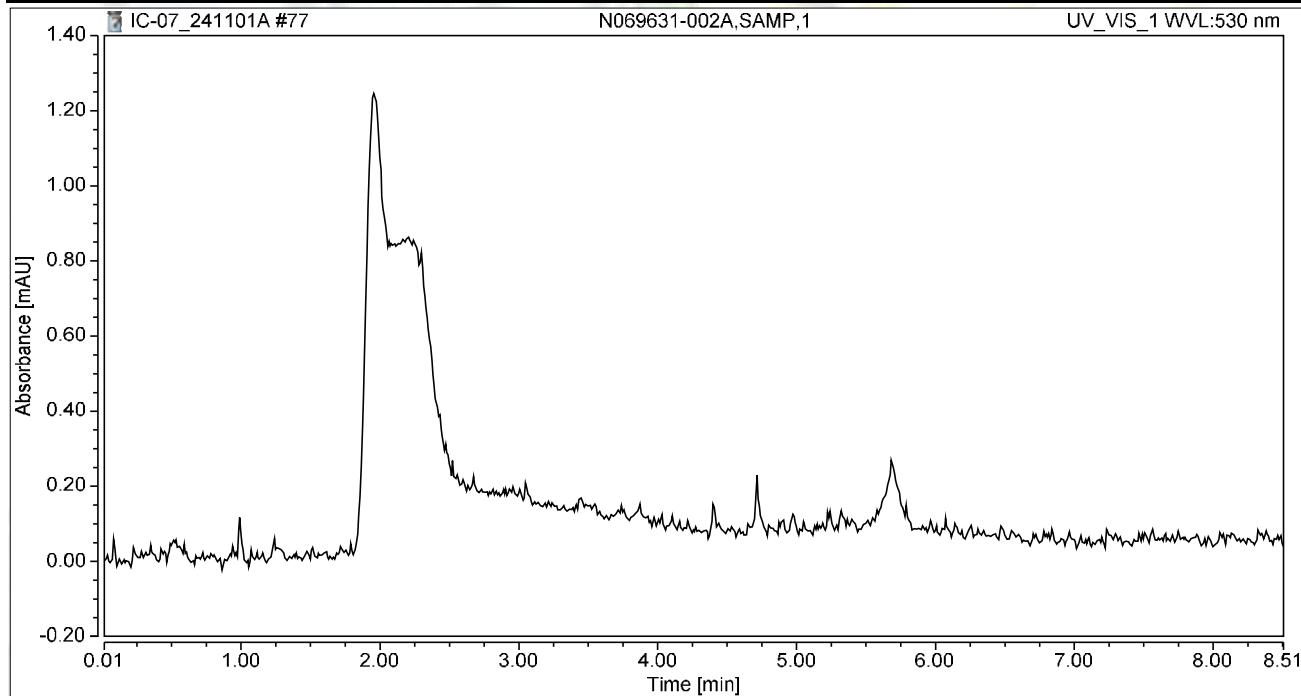
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	0.314	1.820	100.00	100.00	1.1067
Total:			0.314	1.820	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-002A,SAMP,1	Run Time (min):	8.49
Vial Number:	31	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 21:05	Sample Weight:	1.0000

Chromatogram



Integration Results

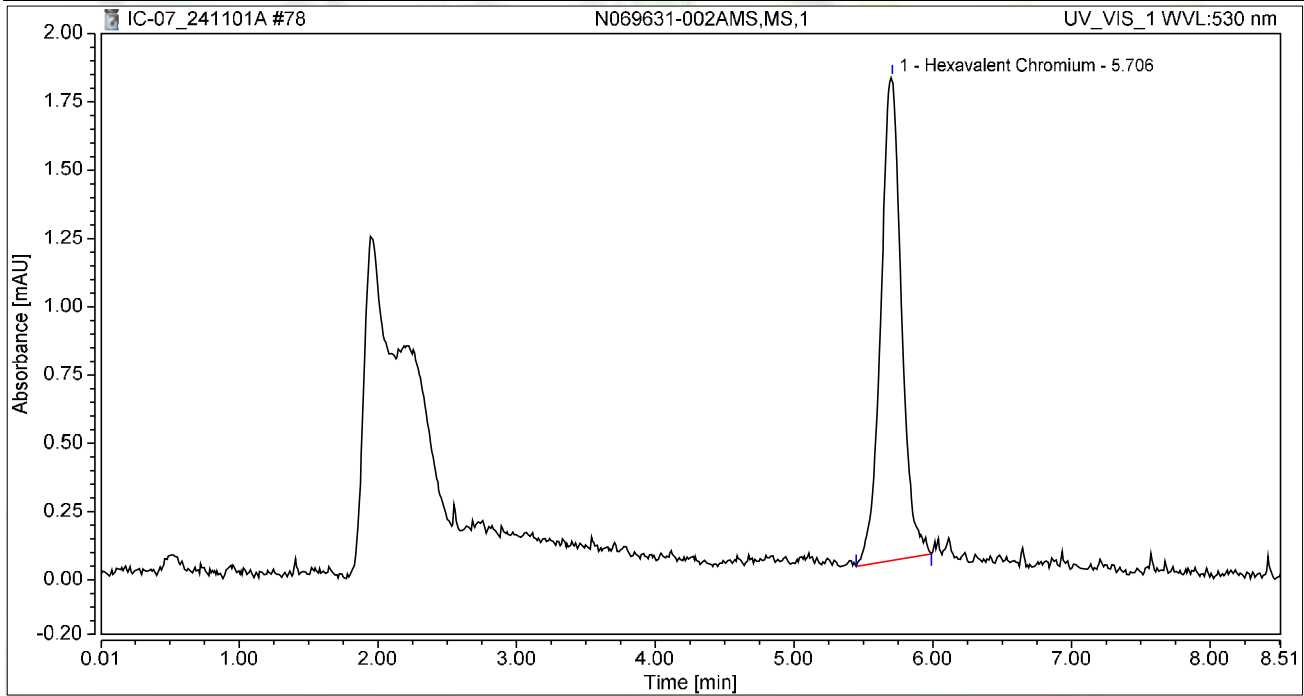
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	32	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 21:14	Sample Weight:	1.0000

Chromatogram



Integration Results

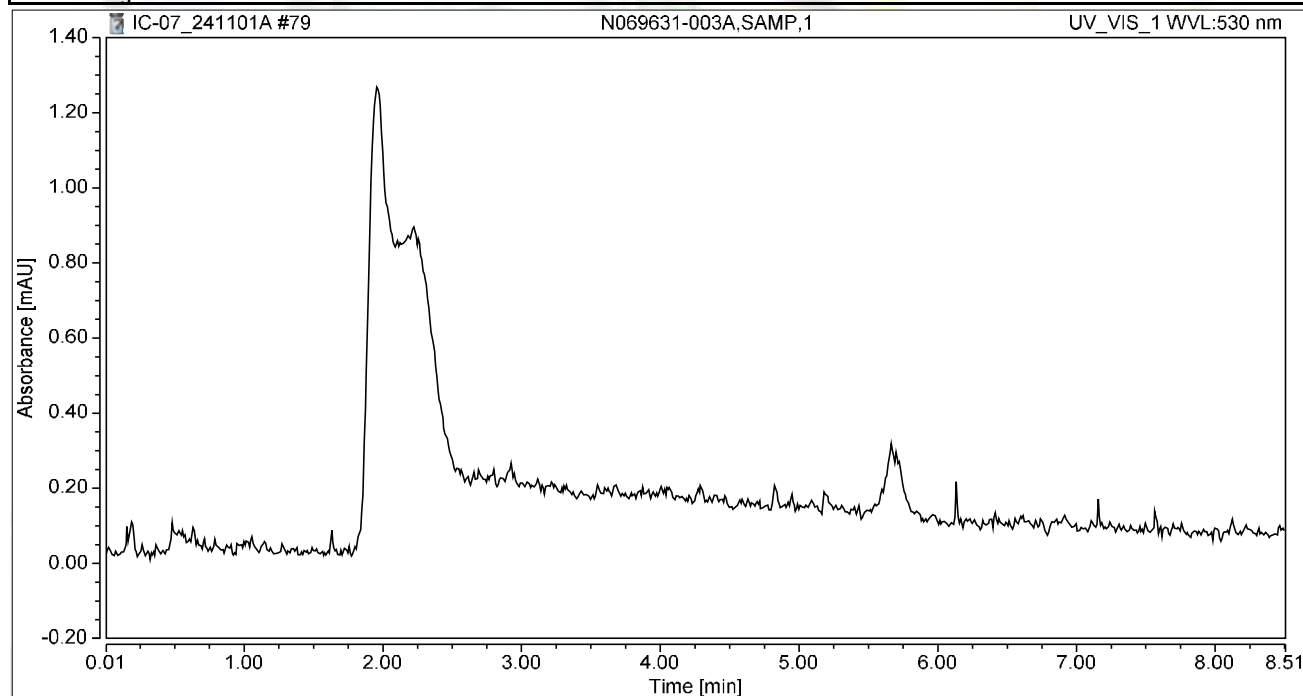
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	0.306	1.771	100.00	100.00	1.0772
Total:			0.306	1.771	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	33	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 21:24	Sample Weight:	1.0000

Chromatogram



Integration Results

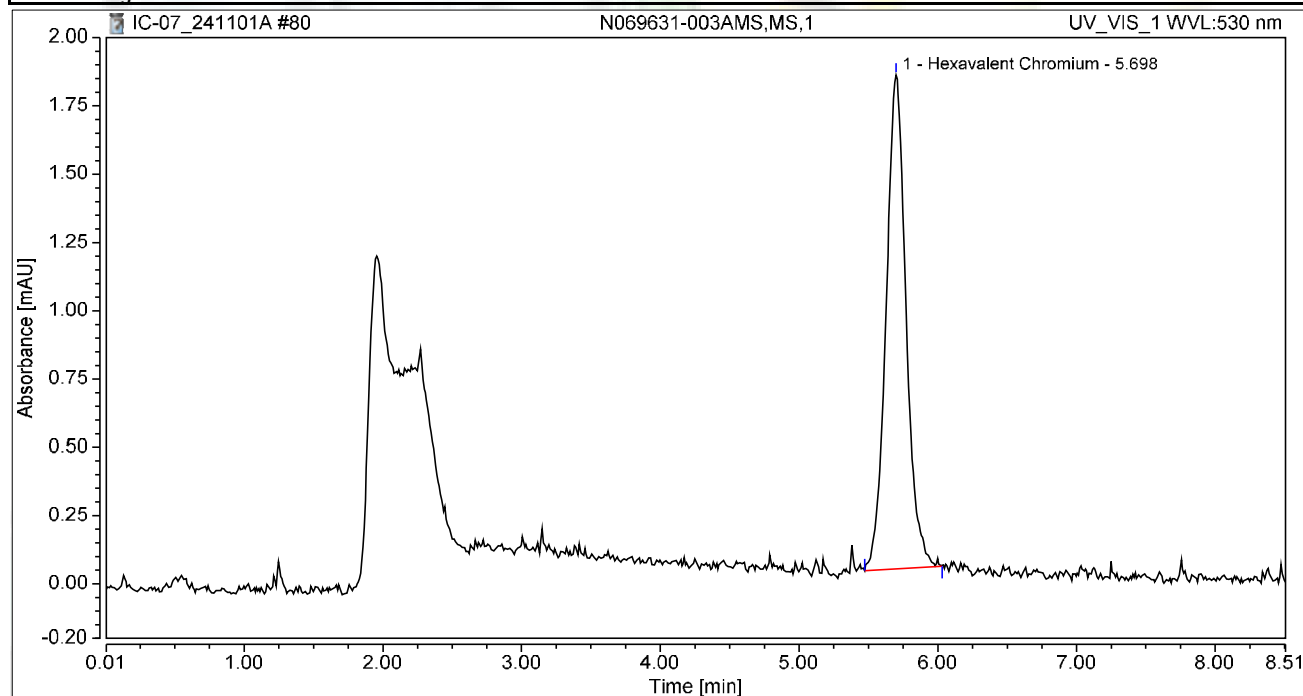
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-003AMS,MS,1	Run Time (min):	8.50
Vial Number:	34	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 21:33	Sample Weight:	1.0000

Chromatogram



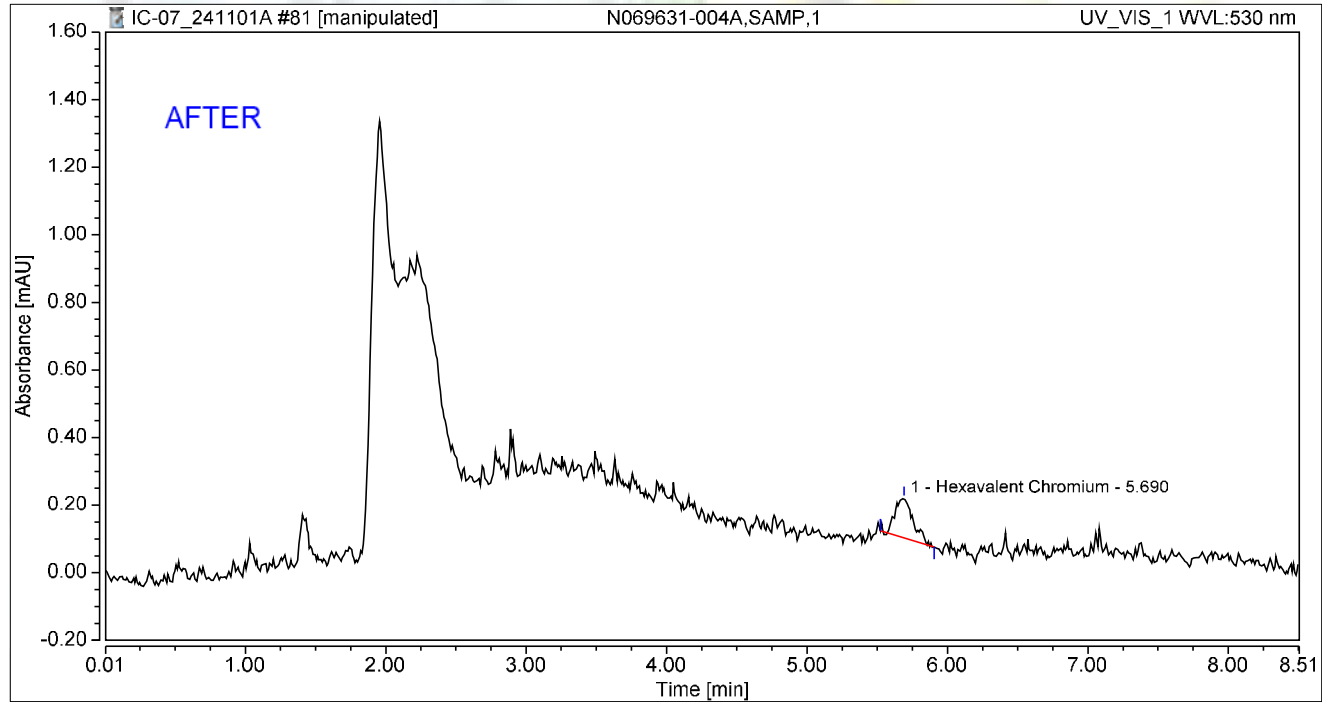
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	0.301	1.808	100.00	100.00	1.0609
Total:			0.301	1.808	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069631-004A,SAMP,1	Run Time (min): 8.50
Vial Number:	35	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	01/Nov/24 21:43	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.017	0.117	100.00	100.00	0.0617
Total:			0.017	0.117	100.00	100.00	

Reviewed by:

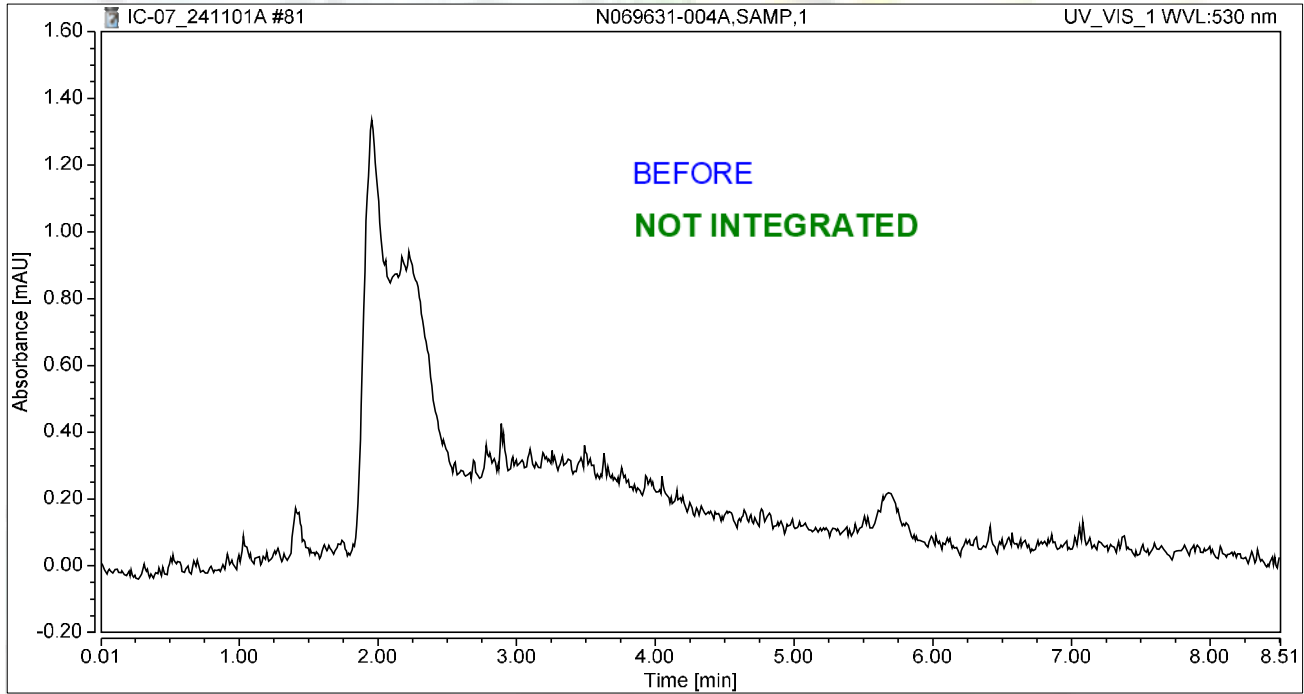
d/Rocha 11/7/2024

Chromatogram and Results

Injection Details

Injection Name:	N069631-004A,SAMP,1	Run Time (min):	8.50
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 21:43	Sample Weight:	1.0000

Chromatogram



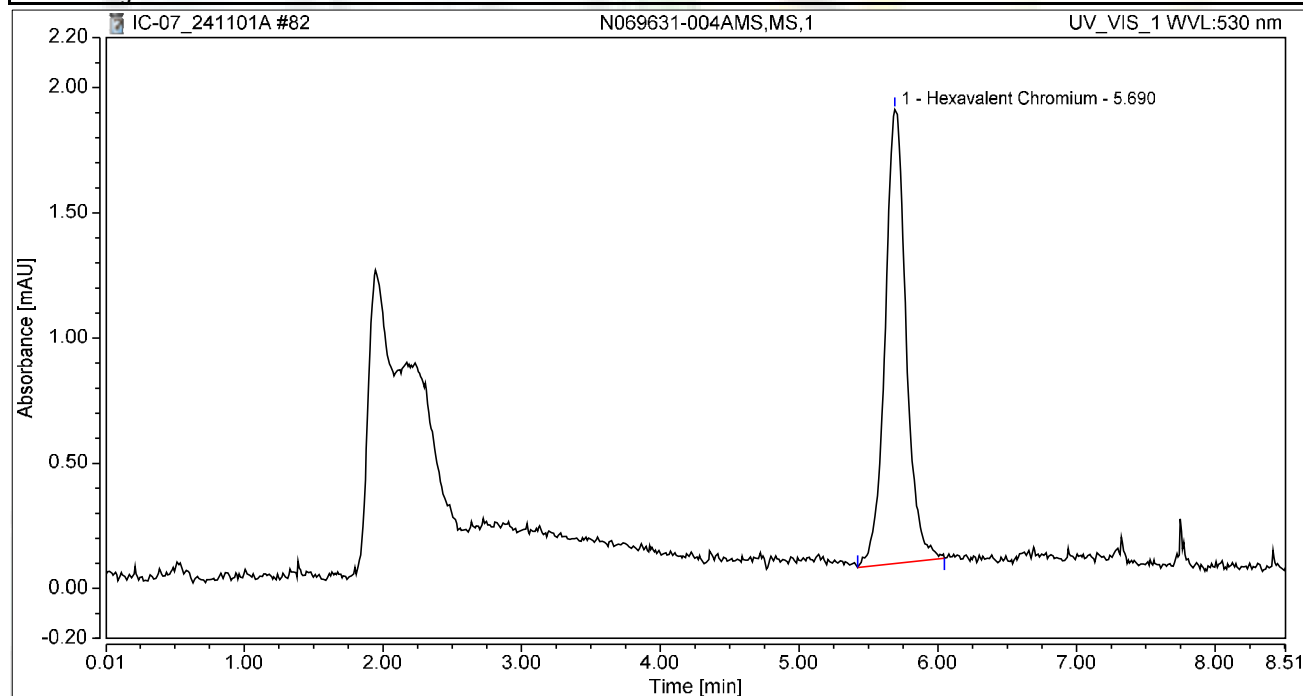
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069631-004AMS,MS,1	Run Time (min): 8.50
Vial Number:	36	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	01/Nov/24 21:52	Sample Weight: 1.0000

Chromatogram



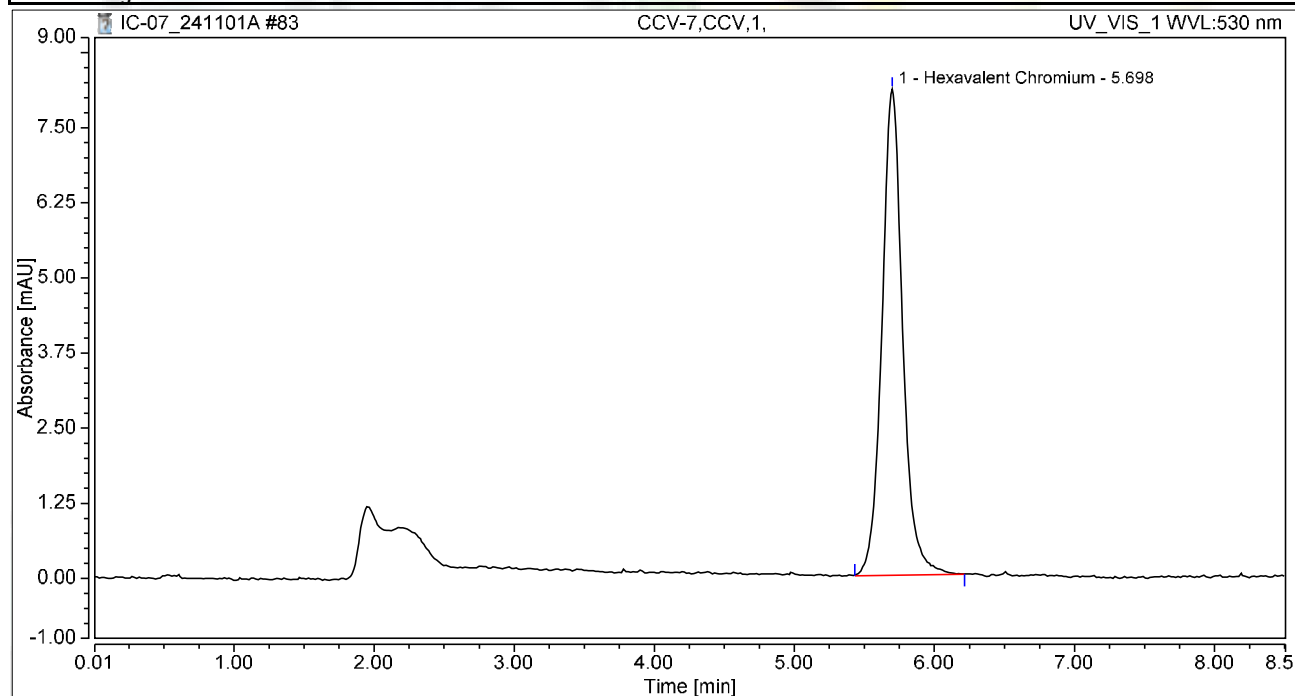
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.317	1.813	100.00	100.00	1.1185
Total:			0.317	1.813	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-7,CCV,1,	Run Time (min):	8.50
Vial Number:	37	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 22:02	Sample Weight:	1.0000

Chromatogram



Integration Results

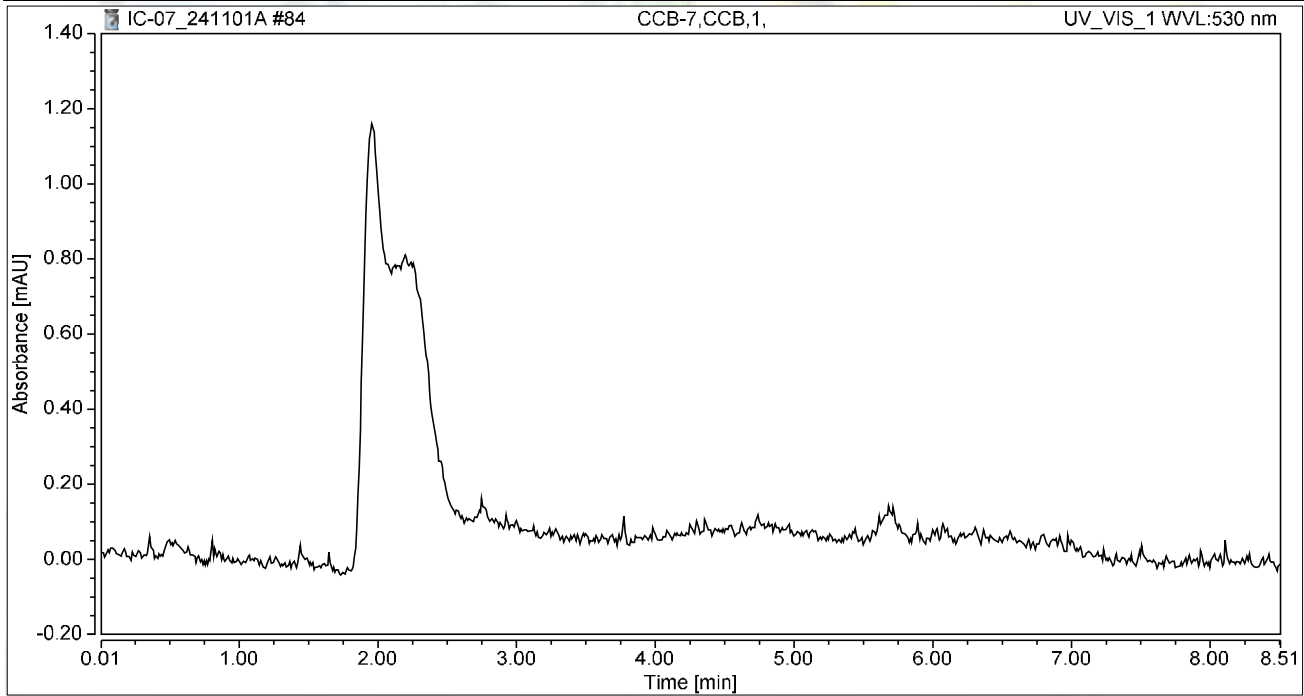
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	1.388	8.092	100.00	100.00	4.8920
Total:			1.388	8.092	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-7,CCB,1,	Run Time (min):	8.50
Vial Number:	38	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 22:11	Sample Weight:	1.0000

Chromatogram



Integration Results

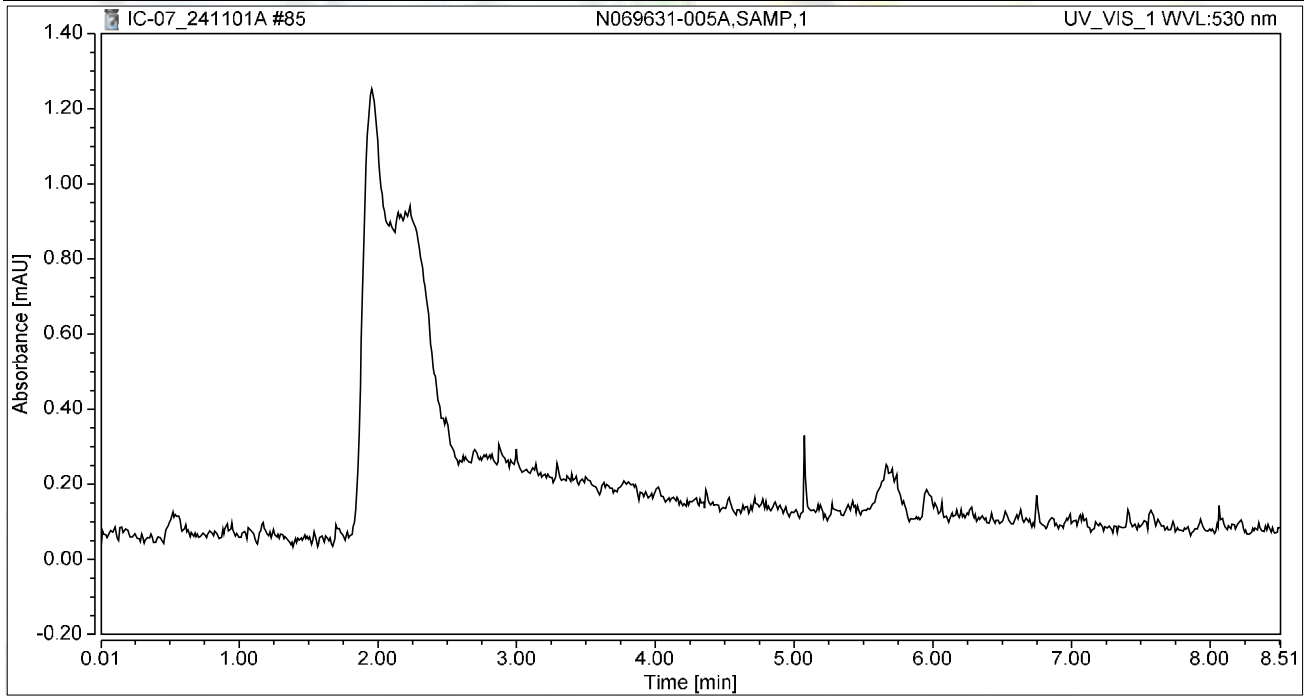
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	39	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 22:20	Sample Weight:	1.0000

Chromatogram



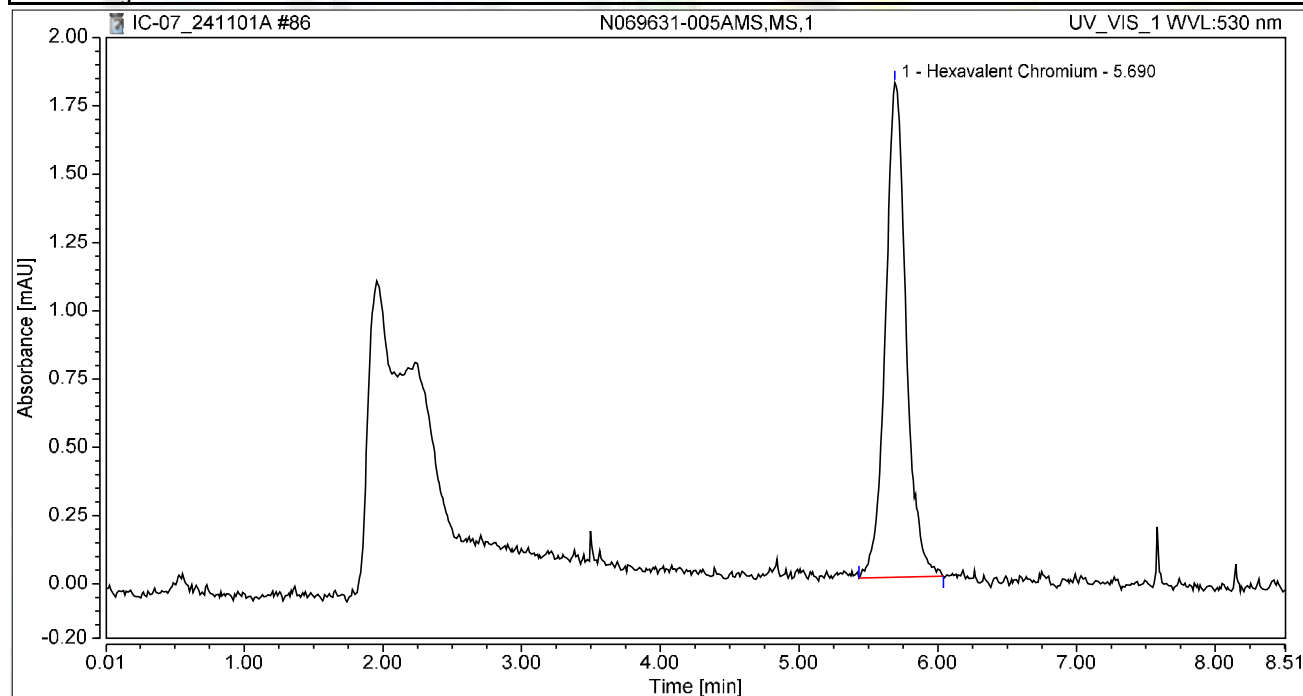
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069631-005AMS,MS,1	Run Time (min): 8.50
Vial Number:	40	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	01/Nov/24 22:30	Sample Weight: 1.0000

Chromatogram



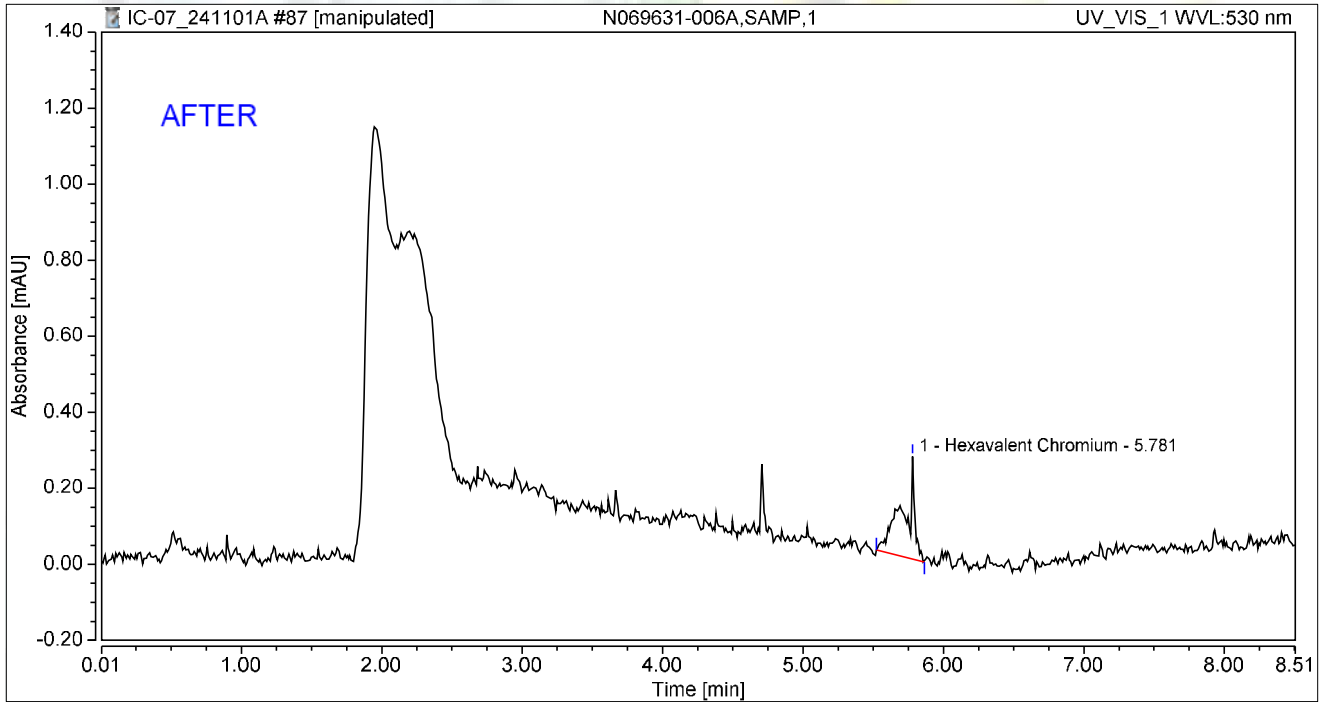
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.312	1.810	100.00	100.00	1.0994
Total:			0.312	1.810	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-006A,SAMP,1	Run Time (min):	8.50
Vial Number:	41	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 22:39	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.781	0.025	0.270	100.00	100.00	0.0895
Total:			0.025	0.270	100.00	100.00	

Reviewed by:

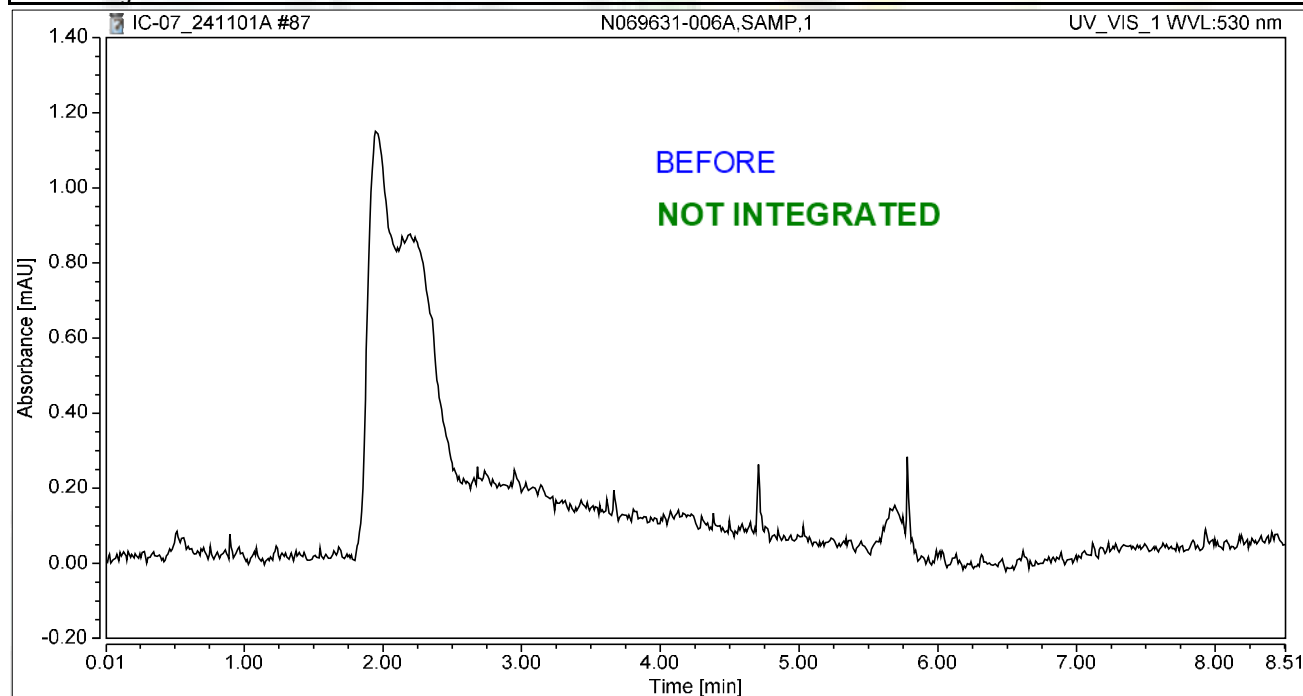
M. Rocha 11/7/2024

Chromatogram and Results

Injection Details

Injection Name:	N069631-006A,SAMP,1	Run Time (min):	8.50
Vial Number:	41	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 22:39	Sample Weight:	1.0000

Chromatogram



Integration Results

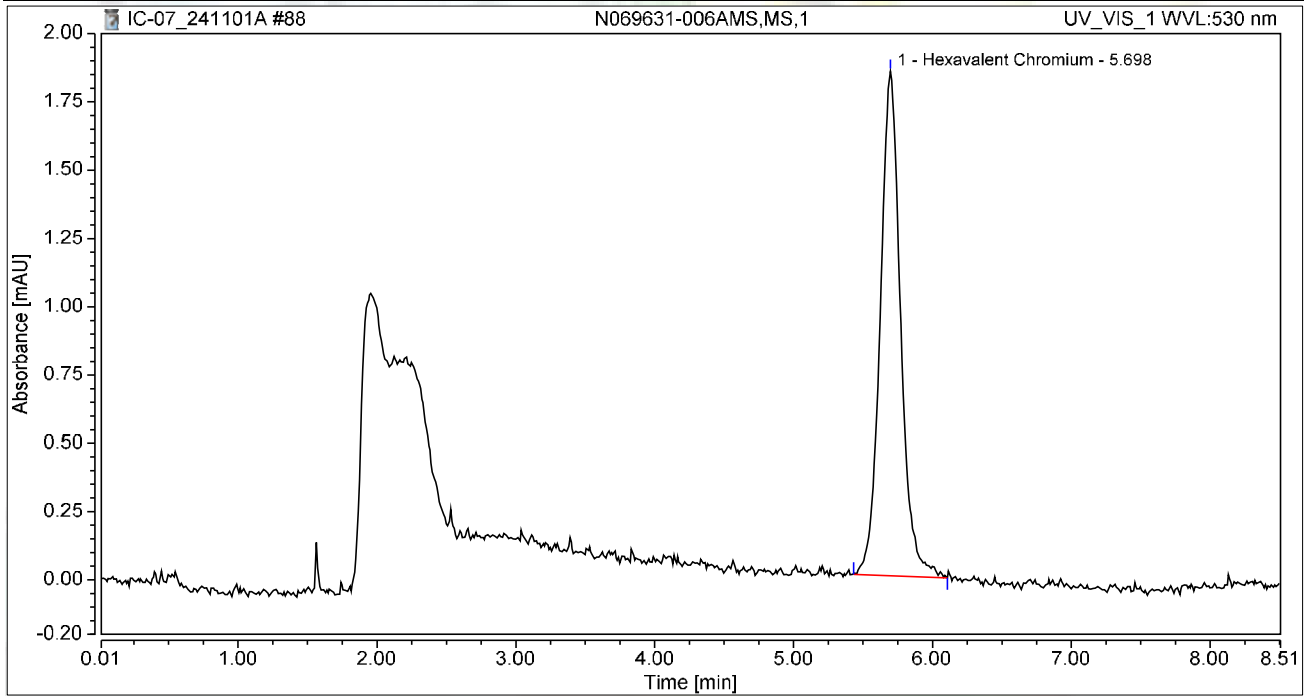
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-006AMS,MS,1	Run Time (min):	8.49
Vial Number:	42	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 22:49	Sample Weight:	1.0000

Chromatogram



Integration Results

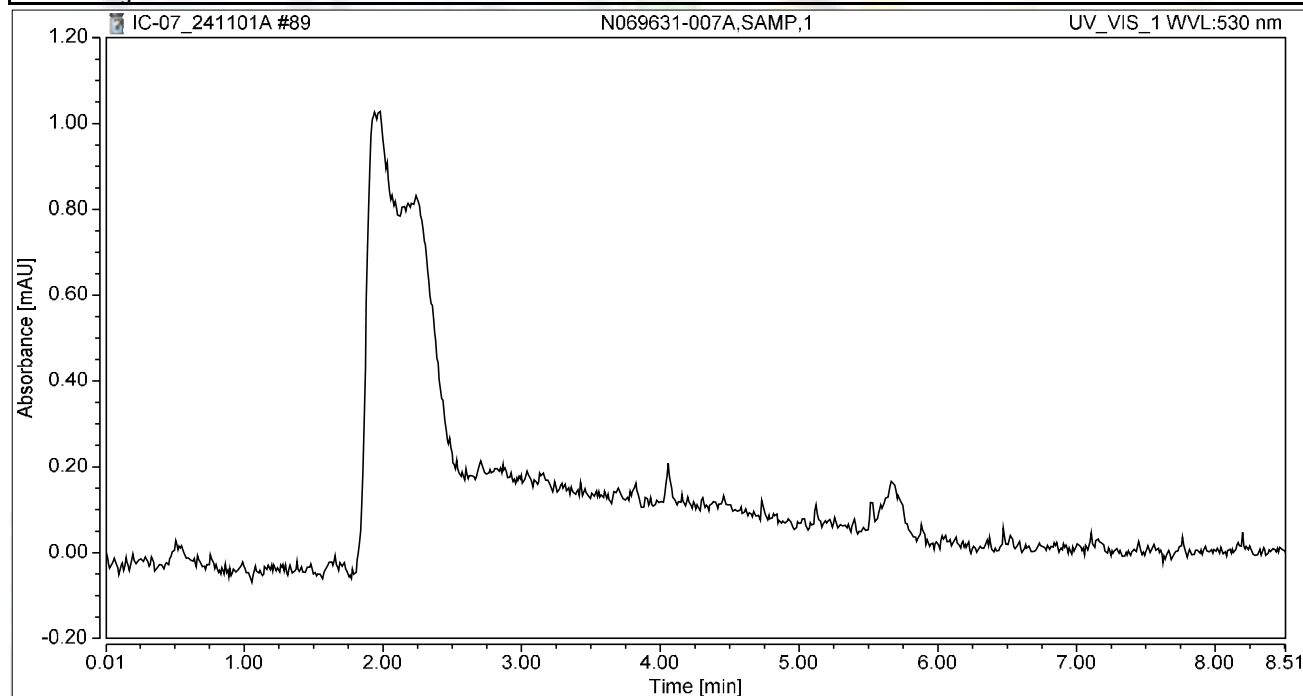
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	0.314	1.847	100.00	100.00	1.1050
Total:			0.314	1.847	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-007A,SAMP,1	Run Time (min):	8.50
Vial Number:	43	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 22:58	Sample Weight:	1.0000

Chromatogram



Integration Results

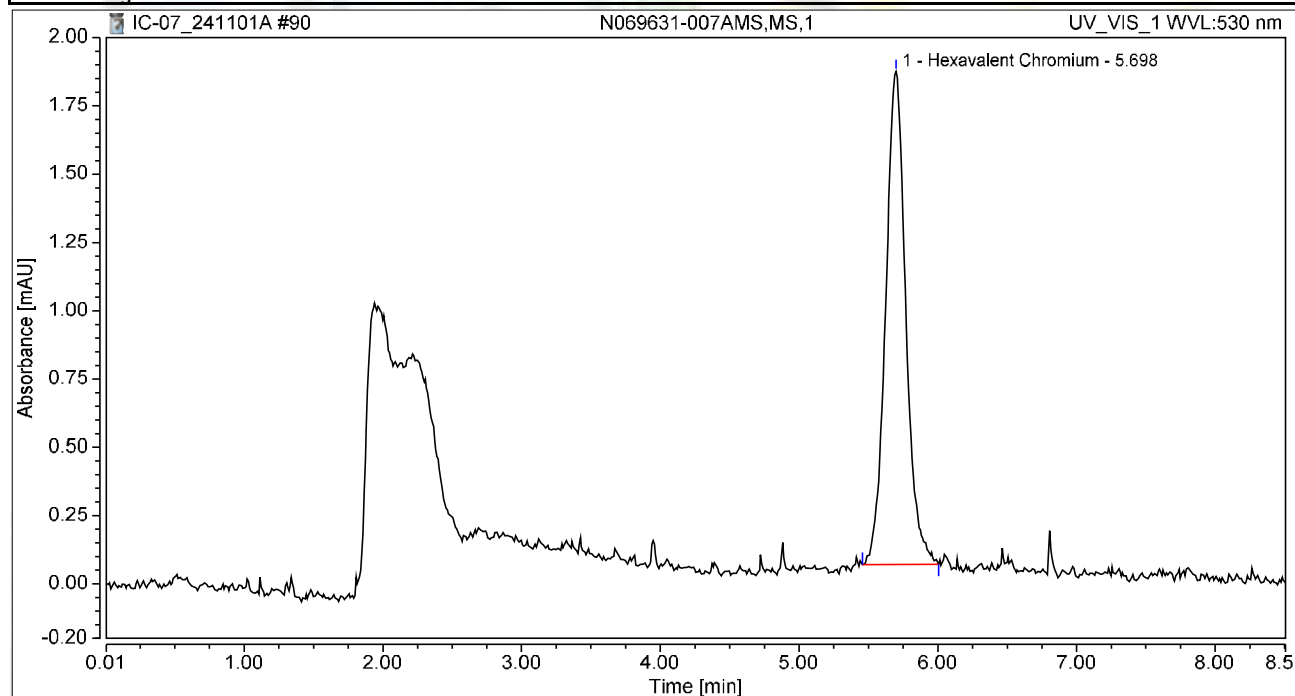
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-007AMS,MS,1	Run Time (min):	8.50
Vial Number:	44	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 23:08	Sample Weight:	1.0000

Chromatogram



Integration Results

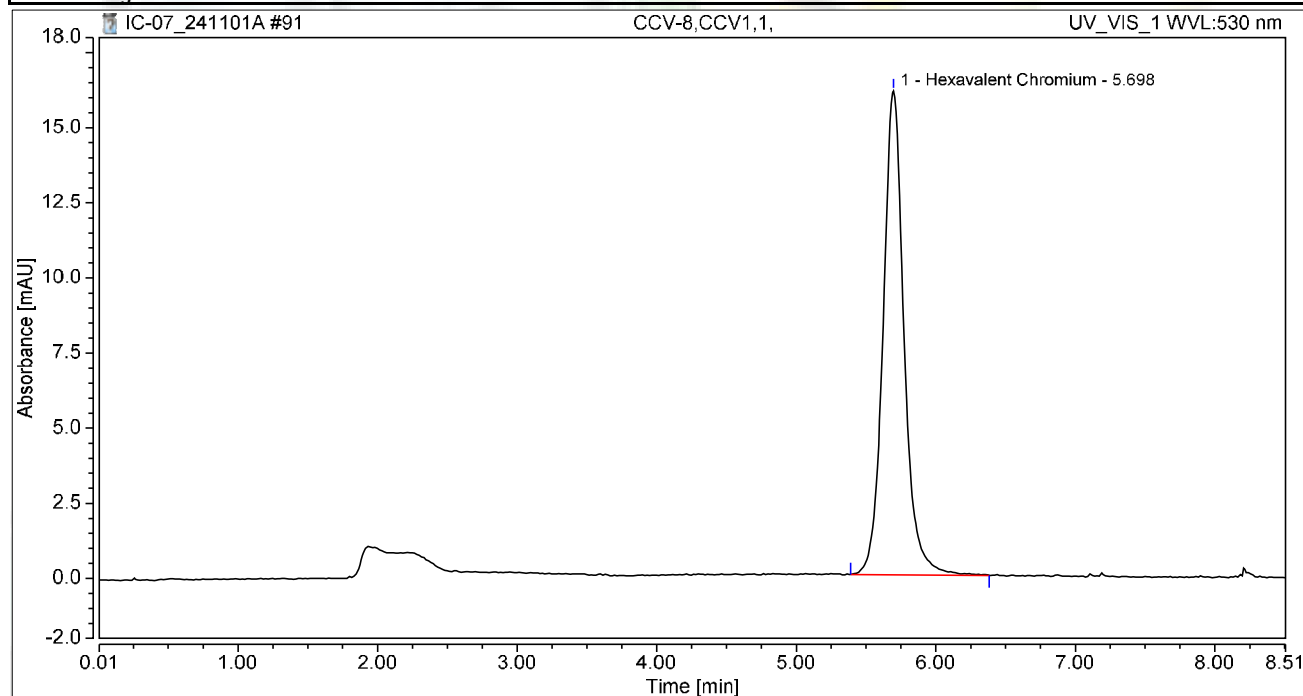
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	0.303	1.805	100.00	100.00	1.0684
Total:			0.303	1.805	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-8,CCV1,1,	Run Time (min):	8.50
Vial Number:	45	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 23:17	Sample Weight:	1.0000

Chromatogram



Integration Results

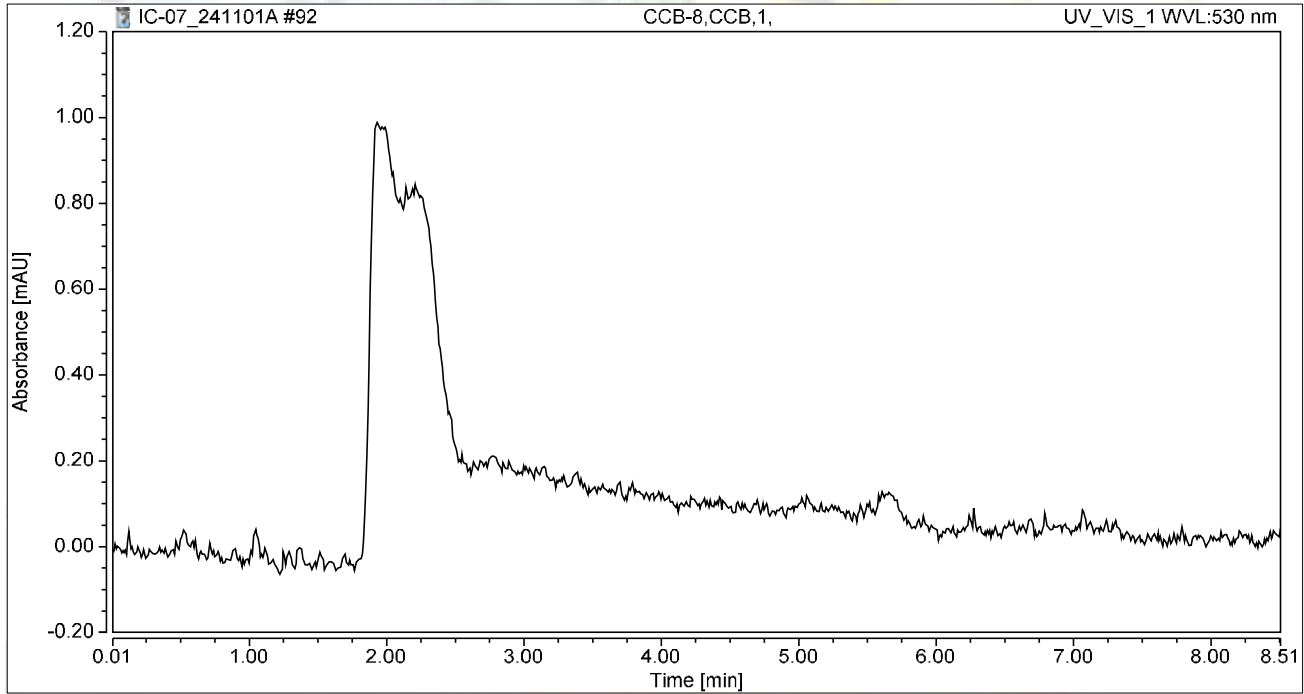
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	2.800	16.110	100.00	100.00	9.8684
Total:			2.800	16.110	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-8,CCB,1,	Run Time (min):	8.50
Vial Number:	46	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 23:27	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

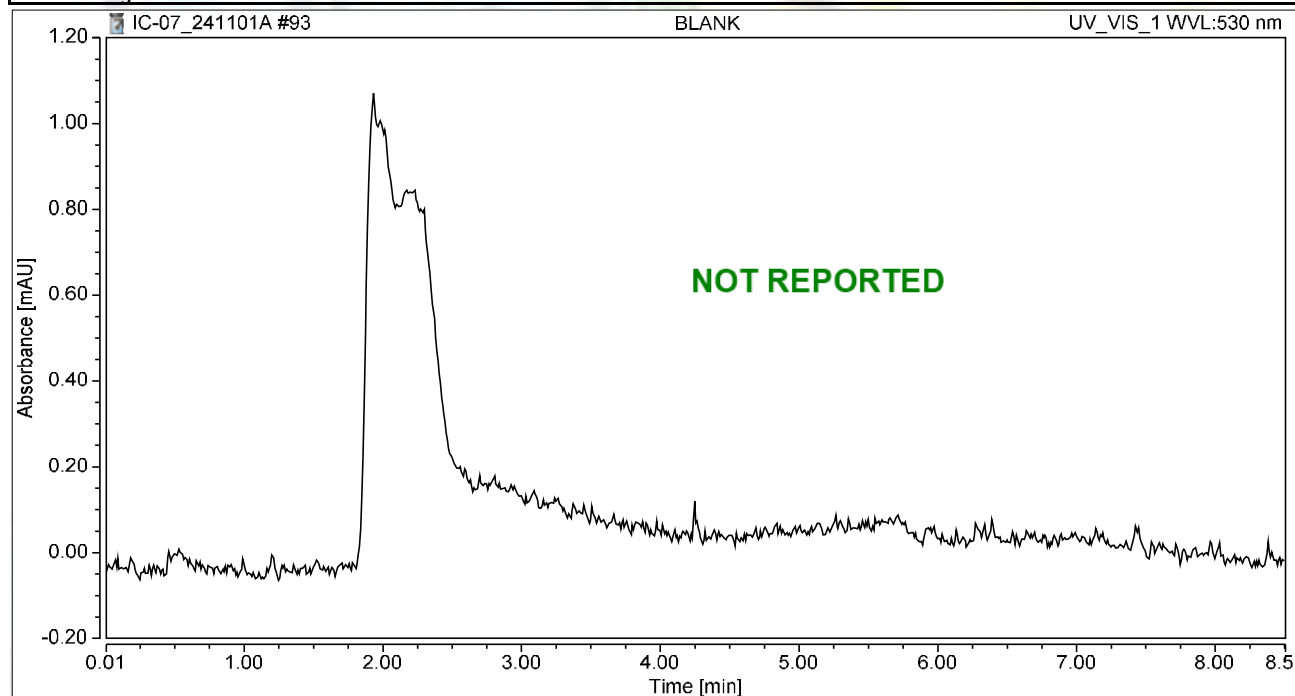


Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	47	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 23:36	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

EPA 300.0



ASSET LABORATORIES
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IC Technical Batch Review Checklist (ARCUS02)

IC ARCUS
REV 2.0
011416

ASSET LABORATORIES - LAS VEGAS

QC Batch Number: R195037
ASSET # N069582 / N069583 / N069585

Instrument ID: NV00922-IC9
Analyst: RBA
Date Analyzed: 10/31/2024

Method:

- EPA 300.0
- EPA 7199

- EPA 218.6/EPA 218.7
- EPA 218.6/EPA 218.7 LL
- Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria ?(r = 0.995, r =0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)			X			X
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?			X			X
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?			X			X
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
14. For Hinkley DOM samples, matrix spike protocol performed on all samples ? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed ?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)			X			X
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments: **Please see CAR 8236**

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA

Date: _____

2nd Level Reviewer jrb 11/5/2024

Date: _____

SAMPLE CALCULATION



ASSET LABORATORIES
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

Sample Calculation

METHOD: EPA 300
TEST NAME: INORGANIC ANIONS BY IC
MATRIX: GROUNDWATER

FORMULA:

Calculate the Nitrate concentration, in mg/L, in the original sample as follows:

$$\text{Nitrate, mg/L} = A * DF$$

where:

A = mg/L, IC calculated concentration
DF = dilution factor

For **N069582-003C** concentration in mg/L is calculated as follows:

$$\begin{aligned}\text{Nitrate, mg/L} &= 0.662 * 10 \\ &= 6.62\end{aligned}$$

Reporting result in two significant figures,

$$\text{Nitrate, mg/L} = \mathbf{6.6}$$

Reviewed by:

d/Rocha 12/1/2024

ANALYSIS RUN LOG



ASSET LABORATORIES
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NEVADA
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"Serving Clients with Passion and Professionalism"


Sequence: IC-09_241028A
Operator: IC-05

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 9

Created: 10/28/2024 9:32:32 AM by IC-05
Last Update: 10/28/2024 12:46:27 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions_Default	EPA 300_0_240928A	Finished
2	Std - 0	Standard	2	1000.0	Anions_Default	EPA 300_0_240928A	Finished
3	Std - 1	Standard	4	1000.0	Anions_Default	EPA 300_0_240928A	Finished
4	Std - 2	Standard	5	1000.0	Anions_Default	EPA 300_0_240928A	Finished
5	Std - 3	Standard	6	1000.0	Anions_Default	EPA 300_0_240928A	Finished
6	Std - 4	Standard	7	1000.0	Anions_Default	EPA 300_0_240928A	Finished
7	Std - 5	Standard	8	1000.0	Anions_Default	EPA 300_0_240928A	Finished
8	ICV,ICV,1	Unknown	9	1000.0	Anions_Default	EPA 300_0_240928A	Finished
9	ICB,ICB,1	Unknown	10	1000.0	Anions_Default	EPA 300_0_240928A	Finished


EPA 300.0_0_241028A

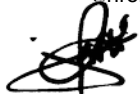
 11/18/2024
for RBA

Note: Method name typographical error. Calibration standard files confirmed with 10/28/2024 analysis dates.

Reviewed by:

Processed by:

 11/5/2024



10/29/2024

NV00922-IC9 RBA 10/29/2024 1:11:12 AM

317

Sequence: IC-09_241028A
Operator: IC-05

Page 2 of 2
Printed: 10/29/2024 1:07:03 AM

Title:

Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 9

Created: 10/28/2024 9:32:32 AM by IC-05
Last Update: 10/28/2024 12:46:27 PM by IC-05


No.	Name	Inj. Date/Time	Comment
1	BLANK	10/28/2024 9:39:25 AM	BLANK
2	Std - 0	10/28/2024 9:54:44 AM	IBLANK
3	Std - 1	10/28/2024 10:10:40 AM	STD-LOW
4	Std - 2	10/28/2024 10:26:36 AM	STD
5	Std - 3	10/28/2024 10:42:31 AM	STD
6	Std - 4	10/28/2024 10:58:27 AM	STD
7	Std - 5	10/28/2024 11:14:23 AM	STD-HIGH
8	ICV,ICV,1	10/28/2024 11:36:10 AM	ICV, IWST-241023B
9	ICB,ICB,1	10/28/2024 11:52:05 AM	ICB

Sequence: IC-09_241031A
Operator: IC-05

Title:
Datatype: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 34

Created: 10/30/2024 10:53:12 AM by IC-05
Last Update: 10/31/2024 11:26:04 AM by IC-05

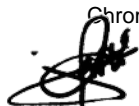
No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions_Default	EPA 300_0_240928A	Finished
2	Std - 0	Standard	2	1000.0	Anions_Default	EPA 300_0_240928A	Finished
3	Std - 1	Standard	4	1000.0	Anions_Default	EPA 300_0_240928A	Finished
4	Std - 2	Standard	5	1000.0	Anions_Default	EPA 300_0_240928A	Finished
5	Std - 3	Standard	6	1000.0	Anions_Default	EPA 300_0_240928A	Finished
6	Std - 4	Standard	7	1000.0	Anions_Default	EPA 300_0_240928A	Finished
7	Std - 5	Standard	8	1000.0	Anions_Default	EPA 300_0_240928A	Finished
8	BLANK	Unknown	1	1000.0	Anions_Default	EPA 300_0_240928A	Finished
9	CCV-1,CCV,1	Unknown	2	1000.0	Anions_Default	EPA 300_0_240928A	Finished
10	CCB-1,CCB,1	Unknown	3	1000.0	Anions_Default	EPA 300_0_240928A	Finished
11	MB-H2O,MBLK,1	Unknown	4	1000.0	Anions_Default	EPA 300_0_240928A	Finished
12	LCS-H2O,LCS,1	Unknown	5	1000.0	Anions_Default	EPA 300_0_240928A	Finished
13	N069585-001C,SAMP,10	Unknown	1	1000.0	Anions_Default	EPA 300_0_240928A	Finished
14	N069583-003C,SAMP,10	Unknown	2	1000.0	Anions_Default	EPA 300_0_240928A	Finished
15	N069582-002C,SAMP,10	Unknown	3	1000.0	Anions_Default	EPA 300_0_240928A	Finished
16	N069583-001C,SAMP,5	Unknown	4	1000.0	Anions_Default	EPA 300_0_240928A	Finished
17	N069583-002C,SAMP,5	Unknown	5	1000.0	Anions_Default	EPA 300_0_240928A	Finished
18	N069583-004C,SAMP,10	Unknown	6	1000.0	Anions_Default	EPA 300_0_240928A	Finished
19	N069583-006C,SAMP,5	Unknown	7	1000.0	Anions_Default	EPA 300_0_240928A	Finished
20	N069583-008C,SAMP,5	Unknown	8	1000.0	Anions_Default	EPA 300_0_240928A	Finished
21	CCV-2,CCV,1	Unknown	9	1000.0	Anions_Default	EPA 300_0_240928A	Finished
22	CCB-2,CCB,1	Unknown	10	1000.0	Anions_Default	EPA 300_0_240928A	Finished
23	N069583-009C,SAMP,10	Unknown	11	1000.0	Anions_Default	EPA 300_0_240928A	Finished
24	N069583-010C,SAMP,10	Unknown	12	1000.0	Anions_Default	EPA 300_0_240928A	Finished
25	N069582-006C,SAMP,10	Unknown	13	1000.0	Anions_Default	EPA 300_0_240928A	Finished
26	N069582-003C,SAMP,10	Unknown	14	1000.0	Anions_Default	EPA 300_0_240928A	Finished
27	N069582-004C,SAMP,20	Unknown	15	1000.0	Anions_Default	EPA 300_0_240928A	Finished
28	N069582-005C,SAMP,10	Unknown	16	1000.0	Anions_Default	EPA 300_0_240928A	Finished
29	N069583-003CMS,MS,10	Unknown	17	1000.0	Anions_Default	EPA 300_0_240928A	Finished
30	N069583-003CMSD,MSD,10	Unknown	18	1000.0	Anions_Default	EPA 300_0_240928A	Finished
31	N069582-006CDUP,DUP,10	Unknown	19	1000.0	Anions_Default	EPA 300_0_240928A	Finished
32	N069583-006CMS,MS,10	Unknown	20	1000.0	Anions_Default	EPA 300_0_240928A	Finished
33	CCV-3,CCV,1	Unknown	21	1000.0	Anions_Default	EPA 300_0_240928A	Finished
34	CCB-3,CCB,1	Unknown	22	1000.0	Anions_Default	EPA 300_0_240928A	Finished

 11/25/2024

For RBA

Note: Method name typographical error. Calibration standard files confirmed with 10/28/2024 analysis dates.

Processed by:



Sequence: IC-09_241031A
Operator: IC-05

Page 2 of 2
Printed: 10/31/2024 6:13:36 PM

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 34
Created: 10/30/2024 10:53:12 AM by IC-05
Last Update: 10/31/2024 11:26:04 AM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	10/28/2024 9:39:25 AM	BLANK
2	Std - 0	10/28/2024 9:54:44 AM	IBLANK
3	Std - 1	10/28/2024 10:10:40 AM	STD-LOW
4	Std - 2	10/28/2024 10:26:36 AM	STD
5	Std - 3	10/28/2024 10:42:31 AM	STD
6	Std - 4	10/28/2024 10:58:27 AM	STD
7	Std - 5	10/28/2024 11:14:23 AM	STD-HIGH
8	BLANK	10/31/2024 9:49:11 AM	BLANK
9	CCV-1,CCV,1	10/31/2024 10:04:30 AM	CCV, IWST-241031A
10	CCB-1,CCB,1	10/31/2024 10:20:25 AM	CCB
11	MB-H2O,MBLK,1	10/31/2024 10:36:20 AM	MB
12	LCS-H2O,LCS,1	10/31/2024 10:52:16 AM	LCS, IWST-241031B
13	N069585-001C,SAMP,10	10/31/2024 11:19:44 AM	SAMP,1>10mL,
14	N069583-003C,SAMP,10	10/31/2024 11:35:12 AM	SAMP,1>10mL,
15	N069582-002C,SAMP,10	10/31/2024 11:51:07 AM	SAMP,1>10mL,
16	N069583-001C,SAMP,5	10/31/2024 12:07:02 PM	SAMP,2>10mL,
17	N069583-002C,SAMP,5	10/31/2024 12:22:57 PM	SAMP,2>10mL,
18	N069583-004C,SAMP,10	10/31/2024 12:38:53 PM	SAMP,1>10mL,
19	N069583-006C,SAMP,5	10/31/2024 12:54:49 PM	SAMP,2>10mL,
20	N069583-008C,SAMP,5	10/31/2024 1:10:44 PM	SAMP,2>10mL,
21	CCV-2,CCV,1	10/31/2024 1:26:40 PM	CCV, IWST-241031A
22	CCB-2,CCB,1	10/31/2024 1:42:35 PM	CCB
23	N069583-009C,SAMP,10	10/31/2024 1:58:31 PM	SAMP,1>10mL,
24	N069583-010C,SAMP,10	10/31/2024 2:14:27 PM	SAMP,1>10mL,
25	N069582-006C,SAMP,10	10/31/2024 2:30:23 PM	SAMP,1>10mL,
26	N069582-003C,SAMP,10	10/31/2024 2:46:19 PM	SAMP,1>10mL,
27	N069582-004C,SAMP,20	10/31/2024 3:02:14 PM	SAMP,0.5>10mL,
28	N069582-005C,SAMP,10	10/31/2024 3:18:09 PM	SAMP,1>10mL,
29	N069583-003CMS,MS,10	10/31/2024 3:34:05 PM	MS,1>10mL,
30	N069583-003CMSD,MSD,10	10/31/2024 3:50:01 PM	MSD,1>10mL,
31	N069582-006CDUP,DUP,10	10/31/2024 4:05:56 PM	DUP,1>10mL,
32	N069583-006CMS,MS,10	10/31/2024 4:21:52 PM	MS,1>10mL,
33	CCV-3,CCV,1	10/31/2024 4:37:47 PM	CCV, IWST-241031A
34	CCB-3,CCB,1	10/31/2024 4:53:43 PM	CCB

INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
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NEVADA
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"Serving Clients with Passion and Professionalism"

(EPA 300) - INITIAL CALIBRATION

Instrument ID: NV00922-IC9

Date Calibrated: 10/28/2024

Initial Calibration:

Nitrate	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in mg/L	0	0.05	0.25	0.5	1.25	2.5	R ²
Area,mAU*min	0.0000	0.0196	0.0913	0.1839	0.4636	0.9621	1.000
Measured, in mg/L	0.000000	0.067100	0.253300	0.493900	1.220400	2.515400	
Relative Error (%RE)		34.2%		-1.2%			

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST-240705D

Calibration Acceptance Criteria: > 0.995 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
INTEGRATION • INNOVATION • IMPROVEMENT • INSIGHT

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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID ICV	SampType: ICV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195037						
Client ID: ICV	Batch ID: R195037	TestNo: EPA 300.0		Analysis Date: 10/28/2024	SeqNo: 6277707						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.328	0.050	1.250	0	106	90	110				

Sample ID CCV-1	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195037						
Client ID: CCV	Batch ID: R195037	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6277709						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.320	0.050	1.250	0	106	90	110				

Sample ID CCV-2	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195037						
Client ID: CCV	Batch ID: R195037	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6277721						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.286	0.050	1.250	0	103	90	110				

Sample ID CCV-3	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195037						
Client ID: CCV	Batch ID: R195037	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6277733						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.341	0.050	1.250	0	107	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
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3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID ICB	SampType: ICB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195037						
Client ID: ICB	Batch ID: R195037	TestNo: EPA 300.0		Analysis Date: 10/28/2024	SeqNo: 6277708						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID CCB-1	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195037						
Client ID: CCB	Batch ID: R195037	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6277710						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID CCB-2	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195037						
Client ID: CCB	Batch ID: R195037	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6277722						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID CCB-3	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195037						
Client ID: CCB	Batch ID: R195037	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6277734						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

RETENTION TIME SUMMARY



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL TECHNOLOGIES

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"Serving Clients with Passion and Professionalism"

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC9

Analytical Sequence

Date Analyzed: 10/31/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Nitrate 6.721	
CCV-1	Nitrate 6.717	
CCV-2	Nitrate 6.764	
CCV-3	Nitrate 6.801	

Average 6.761
Applied RT Window 6.561 - 6.961

MB-R195037_NO3	Nitrate	N.A.	N.A.
LCS-R195037_NO3	Nitrate	6.771	PASS
N069582-002C	Nitrate	6.734	PASS
N069582-006C	Nitrate	6.764	PASS
N069582-003C	Nitrate	6.774	PASS
N069582-004C	Nitrate	6.784	PASS
N069582-005C	Nitrate	6.774	PASS
N069583-003CMS	Nitrate	6.781	PASS
N069583-003CMSD	Nitrate	6.774	PASS
N069582-006CDUP	Nitrate	6.757	PASS
N069583-006CMS	Nitrate	6.784	PASS

Reviewed by:

MRecha 12/1/2024

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CORRECTIVE ACTION DOCUMENTATION



ASSET LABORATORIES
ANALYTICAL SERVICES FOR ENVIRONMENTAL INDUSTRIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

ASSET Laboratories
Corrective Action Report (CAR)

Date Initiated: 02-Dec-24
Initiated By: Ria Abes

Corrective Action Report ID: 8236
Department: II-2(Anions&Per)

Corrective Action Description

CAR Summary: Method name error in anions

Description of Nonconformance: Typographical error in method name was committed when calibration performed 10/28/2024 was named EPA 300_0_240928A instead of 300_0_241028A. However, calibration standard files confirmed with 10/28/2024 analysis dates.

Description of Corrective Action: Ensuring that all entries in the sequence are correct is a must during analysis.

Performed By: Ria Abes

Completion Date: 02-Dec-24

Client Notification

Client Notification Required: No

Notified By:

Comment:

Quality Assurance Review

Corrective Action: Deficiency


Further Action required by QA:

Approval and Closure

CAR Closed By: _____

Close Date: _____

QA Reviewed By: _____

 12/2/2024

QA Date: _____

MDL STUDY



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METHOD DETECTION LIMIT (Spiked)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): 10/5/2022, 12/14/2022, 3/22/2023, 7/10/2023; 10/3/2023 & 11/14/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: mg/L

Instrument Name: **IC-08 & IC-09**

Datafile IC-08 221005A #24 IC-08 221214A #30 IC-08 230322A #35 IC-08 230710A #13 IC-09 231003A #14 IC-08 231114A #24 IC-09 231114A #19

Analyte	#1	#2	#3	#4	#5	#6	#7	Spike Conc., mg/L	SD	t _(n-1) value	MDLs	MDL	PQL
Fluoride	0.100	0.103	0.108	0.118	0.110	0.098	0.126	0.10	0.0101	3.143	0.0318	0.0318	0.10
Chloride	0.480	0.418	0.472	0.653	0.624	0.587	0.622	0.50	0.0922	3.143	0.2898	0.2898	0.50
Nitrite	0.068	0.061	0.060	0.071	0.063	0.061	0.070	0.05	0.0047	3.143	0.0149	0.0149	0.05
Bromide	0.526	0.502	0.509	0.522	0.536	0.527	0.520	0.50	0.0116	3.143	0.0364	0.0364	0.50
Nitrate	0.073	0.058	0.059	0.073	0.074	0.068	0.073	0.05	0.0068	3.143	0.0215	0.0240	0.05
Phosphate	0.112	0.096	0.114	0.120	0.130	0.093	0.124	0.10	0.0138	3.143	0.0433	0.0433	0.10
Sulfate	0.501	0.609	0.638	0.401	0.704	0.620	0.697	0.50	0.1092	3.143	0.3432	0.3432	0.50

METHOD DETECTION LIMIT (Blanks)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Analyte	MDLb	# of Records
Fluoride	0	63
Chloride	0.1456	80
Nitrite	0.0147	64
Bromide	0	18
Nitrate	0.0240	132
Phosphate	0.0237	34
Sulfate	0.2579	107

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

EPA 6020 Dissolved



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
 REV 2.1
 072018

FIRST LEVEL REVIEW:

QC Batch Number: 113746
 ASSET #: N069582

Instrument ID: NV00922-ICP8
 Analyst: DBJ

Method:
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 11/1/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?		X			X	
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.		X			X	
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)		X			X	
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits		X			X	
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

%Rec of Se in N069583-003B-PS/MS/MSD failed, low bias. However, LCS passed criteria.
 %Rec of As in CCV7 and CCV8 failed, low bias. For rerun.
 %RSD of Se in N069582-003B, N069583-003BMSD failed. For rerun.
 Mn is OLR in N069583-003B (SampRef), PS, MS and MSD. For dilution.
 Cr is OLR in N069582-004B, 005B and 006B. For dilution.

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer NS 11/12/2024

Date: _____
 Date: _____



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 113746
ASSET #: N069582

Instrument ID: NV00922-ICP8
Analyst: DBJ

Method:

EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 11/3/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ?(r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MMS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.		X			X	
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)		X			X	
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?	X		X	X		X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

As and Se rerun
% RSD of As in N069582-002B/ N069583-003B (sample ref), failed. For rerun
Cr is OLR in N069582-004B/005B/006B. For dilution.

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
2nd Level Reviewer NS 11/12/2024

Date: _____
Date: _____



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 113746
ASSET #: N069582

Instrument ID: NV00922-ICP8
Analyst: DBJ

Method:
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 11/5/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MMS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?	X		X	X		X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.			X			X
24. LCS compounds within control limits.			X			X
25. MS/MSD, RPD's are within control limits			X			X
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:
 As and Cr rerun.

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer NS 11/12/2024

Date: _____
 Date: _____

SAMPLE CALCULATION



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SAMPLE CALCULATION

METHOD: EPA 6020
TEST NAME: Heavy Metals by ICP-MS
MATRIX: Groundwater

FORMULA:

Calculate the Selenium concentration, in ug/L in the original sample as follows:

$$\text{Selenium, ug/L} = A * DF * PF$$

where:

A = ug/L, calculated concentration
DF = Dilution Factor
PF = Final Volume of Digestate, mL / Amount of Sample, mL

For Sample **N069582-003B**, the concentration in ug/L is calculated as follows:


$$\text{Selenium, ug/L} = 4.41411 * 1 * (25 / 25)$$

$$\text{Selenium, ug/L} = 4.414111$$

Reporting results in two significant figures,

$$\text{Selenium, ug/L} = 4.4$$

Reviewed by:

 12/8/2024

% RSD SUMMARY



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PERCENT RSD SUMMARY: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	52 Cr [2]				55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.09	22.391	15	<PQL	0.1	31.174	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.48	3.967	15	PASS	0.42	10.345	15	PASS
Std3-5/50 ppb	ICAL	1	4.65	3.476	15	PASS	4.83	1.702	15	PASS
Std4-10/100 ppb	ICAL	1	9.36	3.708	15	PASS	9.4	3.522	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	18.47	1.601	15	PASS	19.36	1.207	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	37.68	2.102	15	PASS	38.07	1.716	15	PASS
Std7-100/1000 ppb	ICAL	1	98.85	0.823	15	PASS	98.77	1.248	15	PASS
Std8-200/2000 ppb	ICAL	1	201.23	0.396	15	PASS	201.1	0.23	15	PASS
ICV	ICV	1	9.79	1.295	15	PASS	96.81	1.325	15	PASS
ICB	ICB	1	0	569.601	15	<PQL	0	357.537	15	<PQL
LLCCV1	CCV1	1	0.09	21.034	20	<PQL	0.1	11.035	20	PASS
LLCCV1	CCV1	1	0.97	2.498	20	PASS	0.5	9.122	20	PASS
MLCCV1	CCV	1	18.99	2.161	15	PASS	20.05	1.961	15	PASS
ICSA1	ICSA	1	0.1	12.889	15	PASS	0.27	10.484	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	0.01	85.215	15	<PQL
ICSAB1	ICSAB	1	19.02	2.019	15	PASS	19.11	2.113	15	PASS
CCV1	CCV	1	18.77	1.142	15	PASS	19.53	1.345	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL	0	535.825	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	0.01	21.988	15	<PQL
ICSAB2	ICSAB	1	19.58	2.103	15	PASS	19.44	1.35	15	PASS
CCV2	CCV	1	18.89	1.663	15	PASS	19.4	1.359	15	PASS
CCB2	CCB	1	0.01	379.958	15	<PQL	0.01	76.12	15	<PQL
CCV3	CCV	1	18.51	0.622	15	PASS	19.46	1.714	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL	0	84.421	15	<PQL
CCV4	CCV	1	18.92	1.056	15	PASS	19.28	1.343	15	PASS
CCB4	CCB	1	0.01	105.878	15	<PQL	0.01	25.723	15	<PQL
CCV5	CCV	1	18.64	1.536	15	PASS	19.15	1.761	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL	0.02	44.792	15	<PQL
CCV6	CCV	1	18.6	1.552	15	PASS	19.27	2.379	15	PASS
CCB6	CCB	1	<0.000	N/A	15	<PQL	0.02	51.034	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	0.03	22.433	15	<PQL
ICSAB3	ICSAB	1	19.01	0.72	15	PASS	19.03	0.43	15	PASS
MB-113746	MBLK	1	<0.000	N/A	15	<PQL	0.01	10.984	15	PASS
LCS-113746	LCS	1	9.71	2.675	15	PASS	92.18	1.154	15	PASS
N069542-001B	SAMP	1	0.28	4.963	15	PASS	327.61	0.521	15	PASS
N069542-002B	SAMP	1	0.42	12.938	15	PASS	400.98	0.611	15	PASS
N069542-003B	SAMP	1	0.35	13.705	15	PASS	385.9	1.648	15	PASS
N069582-002B	SAMP	1	20.97	0.715	15	PASS	11.92	0.745	15	PASS
N069582-003B	SAMP	1	37.38	1.476	15	PASS	0.54	10.078	15	PASS
N069582-004B	SAMP	1	445.72	1.555	15	PASS	0.89	10.063	15	PASS

PERCENT RSD SUMMARY: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	52 Cr [2]				55 Mn [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N069582-005B	SAMP	1	803.61	2.263	15	PASS	1.36	3.932	15	PASS
CCV7	CCV	1	18.72	0.783	15	PASS	19.17	1.232	15	PASS
CCB7	CCB	1	0.01	116.349	15	<PQL	0	162.806	15	<PQL
N069582-006B	SAMP	1	318.65	1.193	15	PASS	34.57	1.435	15	PASS
N069583-001B	SAMP	1	0.43	5.016	15	PASS	108.63	2.187	15	PASS
N069583-002B	SAMP	1	0.05	12.456	15	PASS	243.13	0.841	15	PASS
N069583-003B	SAMP	1	0.09	39.625	15	<PQL	431.31	2.397	15	PASS
N069583-003B	SAMP	5	<0.000	N/A	15	<PQL	91.45	1.608	15	PASS
N069583-003B-PS	PS	1	9.07	2.798	15	PASS	522.35	0.701	15	PASS
N069583-003BMS	MS	1	8.83	1.914	15	PASS	508.59	0.72	15	PASS
N069583-003BMSD	MSD	1	8.75	2.774	15	PASS	515.13	1.162	15	PASS
N069583-004B	SAMP	1	0.14	15.939	15	<PQL	922.69	1.61	15	PASS
CCV8	CCV	1	18.74	1.495	15	PASS	19.06	2.704	15	PASS
CCB8	CCB	1	0.02	13.762	15	PASS	0.03	48.398	15	<PQL
N069583-006B	SAMP	1	0.04	9.906	15	PASS	5.65	3.309	15	PASS
N069583-008B	SAMP	1	1.34	2.715	15	PASS	343.09	1.167	15	PASS
N069583-009B	SAMP	1	0.45	4.49	15	PASS	424.26	1.539	15	PASS
N069583-010B	SAMP	1	0.13	15.018	15	<PQL	2227.56	2.478	15	PASS
N069585-001B	SAMP	1	25.51	1.829	15	PASS	1.54	8.232	15	PASS
CCV9	CCV	1	18.57	0.178	15	PASS	19.34	1.622	15	PASS
CCB9	CCB	1	<0.000	N/A	15	<PQL	0.02	35.663	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL	0.03	3.057	15	PASS
ICSAB4	ICSAB	1	19.05	2.318	15	PASS	18.79	1.351	15	PASS

PERCENT RSD SUMMARY: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	75 As [2]				78 Se [1]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.07	31.267	15	<PQL	0.08	36.466	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.49	18.652	15	FAIL	0.39	19.134	15	<PQL
Std3-5/50 ppb	ICAL	1	4.98	5.725	15	PASS	4.57	0.724	15	PASS
Std4-10/100 ppb	ICAL	1	9.44	7.267	15	PASS	9.06	5.089	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	18.8	4.353	15	PASS	18.35	2.233	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.94	4.285	15	PASS	38.66	3.275	15	PASS
Std7-100/1000 ppb	ICAL	1	95.88	2.592	15	PASS	96.18	0.94	15	PASS
Std8-200/2000 ppb	ICAL	1	202.22	1.143	15	PASS	202.4	1.077	15	PASS
ICV	ICV	1	9.84	0.64	15	PASS	10.08	6.658	15	PASS
ICB	ICB	1	<0.000	N/A	15	<PQL	0.01	171.077	15	<PQL
LLCCV1	CCV1	1	0.1	60.127	20	FAIL	0.07	39.213	20	<PQL
LLCCV1	CCV1	1	0.12	32.98	20	FAIL	0.43	22.564	20	<PQL
MLCCV1	CCV	1	19.62	1.385	15	PASS	19.48	4.03	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	0.06	63.549	15	<PQL
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	0.01	177.885	15	<PQL
ICSAB1	ICSAB	1	19.31	0.281	15	PASS	19.33	6.385	15	PASS
CCV1	CCV	1	18.85	5.053	15	PASS	18.09	1.667	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL	0	5178.335	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	<0.000	0	15	PASS
ICSAB2	ICSAB	1	19.12	2.83	15	PASS	19.28	1.063	15	PASS
CCV2	CCV	1	18.75	1.13	15	PASS	18.69	6.822	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL	0.04	118.513	15	<PQL
CCV3	CCV	1	17.97	0.752	15	PASS	19.33	0.588	15	PASS
CCB3	CCB	1	0.02	213.997	15	<PQL	0.01	171.851	15	<PQL
CCV4	CCV	1	18.35	6.145	15	PASS	18.93	4.464	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL	0.03	42.02	15	<PQL
CCV5	CCV	1	17.78	4.976	15	PASS	19.06	4.562	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL	0.02	55.817	15	<PQL
CCV6	CCV	1	18.6	5.378	15	PASS	19.18	3.356	15	PASS
CCB6	CCB	1	<0.000	N/A	15	<PQL	0.04	156.706	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	<0.000	0	15	PASS
ICSAB3	ICSAB	1	18.38	5.411	15	PASS	19.72	1.733	15	PASS
MB-113746	MBLK	1	<0.000	N/A	15	<PQL	0.04	157.125	15	<PQL
LCS-113746	LCS	1	9.51	2.615	15	PASS	9.79	2.618	15	PASS
N069542-001B	SAMP	1	5.01	5.513	15	PASS	1.53	9.595	15	PASS
N069542-002B	SAMP	1	4.96	5.418	15	PASS	0.91	9.776	15	PASS
N069542-003B	SAMP	1	6.31	3.562	15	PASS	1.35	8.268	15	PASS
N069582-002B	SAMP	1	4.8	4.125	15	PASS	0.3	7.685	15	PASS
N069582-003B	SAMP	1	4.61	4.756	15	PASS	4.86	15.532	15	NR!
N069582-004B	SAMP	1	1.11	3.025	15	PASS	9.1	3.364	15	PASS

PERCENT RSD SUMMARY: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	75 As [2]				78 Se [1]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N069582-005B	SAMP	1	3.07	5.293	15	PASS	6	11.659	15	PASS
CCV7	CCV	1	17.87	0.863	15	PASS	19.79	3.314	15	PASS
CCB7	CCB	1	<0.000	N/A	15	<PQL	0.02	140.907	15	<PQL
N069582-006B	SAMP	1	3.27	2.244	15	PASS	2.82	8.855	15	PASS
N069583-001B	SAMP	1	7.69	3.294	15	PASS	0.25	27.667	15	<PQL
N069583-002B	SAMP	1	0.84	13.156	15	PASS	0.05	2.367	15	PASS
N069583-003B	SAMP	1	1.21	3.969	15	PASS	0.04	53.994	15	<PQL
N069583-003B	SAMP	5	0.25	7.821	15	PASS	0.01	141.933	15	<PQL
N069583-003B-PS	PS	1	10.88	6.298	15	PASS	6.44	4.867	15	PASS
N069583-003BMS	MS	1	10.54	1.966	15	PASS	5.92	3.506	15	PASS
N069583-003BMSD	MSD	1	10.33	3.459	15	PASS	6.04	15.44	15	NR!
N069583-004B	SAMP	1	0.49	3.345	15	PASS	0.07	26.379	15	<PQL
CCV8	CCV	1	17.32	3.38	15	PASS	18.75	3.762	15	PASS
CCB8	CCB	1	<0.000	N/A	15	<PQL	0.04	59.778	15	<PQL
N069583-006B	SAMP	1	1.12	7.441	15	PASS	0.2	55.648	15	<PQL
N069583-008B	SAMP	1	0.67	19.706	15	NR!	0.06	56.724	15	<PQL
N069583-009B	SAMP	1	6.89	4.01	15	PASS	0.45	23.251	15	<PQL
N069583-010B	SAMP	1	18.54	3.745	15	PASS	0.25	24.35	15	<PQL
N069585-001B	SAMP	1	5.07	7.002	15	PASS	1.25	5.795	15	PASS
CCV9	CCV	1	18.45	2.617	15	PASS	18.93	3.16	15	PASS
CCB9	CCB	1	<0.000	N/A	15	<PQL	0.01	156.136	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL	0.02	142.725	15	<PQL
ICSAB4	ICSAB	1	18.57	1.167	15	PASS	19.45	1.26	15	PASS

PERCENT RSD SUMMARY: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	95 Mo [2]			
			Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.11	6.486	15	PASS
Std2-0.5/5 ppb	ICAL	1	0.43	4.104	15	PASS
Std3-5/50 ppb	ICAL	1	4.59	2.195	15	PASS
Std4-10/100 ppb	ICAL	1	9.3	0.699	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	18.65	0.586	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	38.23	0.465	15	PASS
Std7-100/1000 ppb	ICAL	1	96.12	1.213	15	PASS
Std8-200/2000 ppb	ICAL	1	202.47	0.578	15	PASS
ICV	ICV	1	9.53	1.069	15	PASS
ICB	ICB	1	0.06	16.138	15	<PQL
LLCCV1	CCV1	1	0.12	16.519	20	PASS
LLCCV1	CCV1	1	0.49	1.449	20	PASS
MLCCV1	CCV	1	18.76	2.068	15	PASS
ICSA1	ICSA	1	0.08	16.277	15	<PQL
ICSA1	ICSA	1	0.01	10.798	15	PASS
ICSAB1	ICSAB	1	19.05	1.983	15	PASS
CCV1	CCV	1	18.5	1.373	15	PASS
CCB1	CCB	1	0.06	21.708	15	<PQL
ICSA2	ICSA	1	0.01	114.039	15	<PQL
ICSAB2	ICSAB	1	18.91	0.65	15	PASS
CCV2	CCV	1	18.12	0.769	15	PASS
CCB2	CCB	1	0.04	12.433	15	PASS
CCV3	CCV	1	18.72	2.299	15	PASS
CCB3	CCB	1	0.05	18.686	15	<PQL
CCV4	CCV	1	18.84	0.619	15	PASS
CCB4	CCB	1	0.05	20.27	15	<PQL
CCV5	CCV	1	18.9	1.534	15	PASS
CCB5	CCB	1	0.07	9.999	15	PASS
CCV6	CCV	1	18.83	2.557	15	PASS
CCB6	CCB	1	0.06	8.168	15	PASS
ICSA3	ICSA	1	0.03	52.149	15	<PQL
ICSAB3	ICSAB	1	19.13	2.814	15	PASS
MB-113746	MBLK	1	0.05	18.363	15	<PQL
LCS-113746	LCS	1	9.77	1.508	15	PASS
N069542-001B	SAMP	1	18.43	1.343	15	PASS
N069542-002B	SAMP	1	13.94	0.852	15	PASS
N069542-003B	SAMP	1	20.4	1.596	15	PASS
N069582-002B	SAMP	1	51.23	0.816	15	PASS
N069582-003B	SAMP	1	8.84	2.617	15	PASS
N069582-004B	SAMP	1	2.72	0.937	15	PASS

PERCENT RSD SUMMARY: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	95 Mo [2]			
			Conc. [ppb]	RSD	Criteria	Comment
N069582-005B	SAMP	1	43.01	0.637	15	PASS
CCV7	CCV	1	18.9	2.313	15	PASS
CCB7	CCB	1	0.06	18.345	15	<PQL
N069582-006B	SAMP	1	75.81	1.101	15	PASS
N069583-001B	SAMP	1	14.51	1.329	15	PASS
N069583-002B	SAMP	1	8.51	1.666	15	PASS
N069583-003B	SAMP	1	3.69	3.556	15	PASS
N069583-003B	SAMP	5	0.81	3.117	15	PASS
N069583-003B-PS	PS	1	14.04	2.849	15	PASS
N069583-003BMS	MS	1	14.1	0.981	15	PASS
N069583-003BMSD	MSD	1	14.24	2.366	15	PASS
N069583-004B	SAMP	1	13.59	2.213	15	PASS
CCV8	CCV	1	18.87	1.655	15	PASS
CCB8	CCB	1	0.07	20.847	15	<PQL
N069583-006B	SAMP	1	4.37	3.137	15	PASS
N069583-008B	SAMP	1	22.24	0.675	15	PASS
N069583-009B	SAMP	1	8.18	0.878	15	PASS
N069583-010B	SAMP	1	56.38	2.177	15	PASS
N069585-001B	SAMP	1	5.86	2.648	15	PASS
CCV9	CCV	1	18.8	1.632	15	PASS
CCB9	CCB	1	0.04	23.71	15	<PQL
ICSA4	ICSA	1	0.01	129.738	15	<PQL
ICSAB4	ICSAB	1	19.35	1.428	15	PASS

PERCENT RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	52 Cr [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.1	2.746	15	PASS	0.13	42.953	15	FAIL
Std2-0.5/5 ppb	ICAL	1	0.48	3.48	15	PASS	0.54	10.145	15	PASS
Std3-5/50 ppb	ICAL	1	4.73	2.948	15	PASS	4.51	6.574	15	PASS
Std4-10/100 ppb	ICAL	1	9.49	1.571	15	PASS	9.64	2.92	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	18.91	2.242	15	PASS	18.81	0.85	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	38.49	0.946	15	PASS	38.2	4.623	15	PASS
Std7-100/1000 ppb	ICAL	1	97.48	1.076	15	PASS	98.44	4.1	15	PASS
Std8-200/2000 ppb	ICAL	1	201.7	2.211	15	PASS	201.29	1.784	15	PASS
ICV	ICV	1	9.77	1.476	15	PASS	9.65	4.812	15	PASS
ICB	ICB	1	<0.000	N/A	15	<PQL	0.01	326.628	15	<PQL
LLCCV1	CCV1	1	0.07	24.333	20	<PQL	0.08	49.159	20	<PQL
LLCCV2	CCV1	1	0.98	3.403	20	PASS	0.12	51.25	20	FAIL
MLCCV1	CCV	1	19.22	1.057	15	PASS	18.69	3.354	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	0.02	86.414	15	<PQL
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	0.02	42.121	15	<PQL
ICSAB1	ICSAB	1	19.5	3.261	15	PASS	19.26	5.434	15	PASS
CCV1	CCV	1	19.38	1.356	15	PASS	18.22	3.511	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL	0.01	149.398	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	0.02	42.695	15	<PQL
ICSAB2	ICSAB	1	19.36	1.169	15	PASS	19.19	2.139	15	PASS
CCV2	CCV	1	18.61	1.401	15	PASS	18.56	3.978	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL	0.01	159.22	15	<PQL
CCV3	CCV	1	18.5	1.936	15	PASS	18.43	4.538	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL	0.04	112.271	15	<PQL
CCV4	CCV	1	18.54	0.977	15	PASS	19.23	2.918	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL	0.01	159.18	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	0.02	158.939	15	<PQL
ICSAB3	ICSAB	1	18.57	1.492	15	PASS	17.98	3.367	15	PASS
MB-113746	MBLK	1	<0.000	N/A	15	<PQL	0.03	76.964	15	<PQL
LCS-113746	LCS	1	9.64	1.1	15	PASS	9.12	7.088	15	PASS
N069542-001B	SAMP	10	0	481.633	15	<PQL	0.6	6.717	15	PASS
N069542-002B	SAMP	10	0.02	56.48	15	<PQL	0.55	18.867	15	NR!
N069542-003B	SAMP	10	0.04	48.967	15	<PQL	0.97	12.179	15	PASS
N069582-002B	SAMP	1	21.25	1.032	15	PASS	4.96	16.586	15	NR!
N069582-003B	SAMP	1	37.34	0.479	15	PASS	4.95	2.639	15	PASS
N069582-004B	SAMP	1	451.7	0.662	15	PASS	1.06	11.98	15	PASS
N069582-005B	SAMP	1	804.52	1.121	15	PASS	3.47	5.041	15	PASS
CCV4	CCV	1	19.12	1.362	15	PASS	19.12	3.351	15	PASS
CCB4	CCB	1	0.01	167.893	15	<PQL	0.03	162.345	15	<PQL
N069582-006B	SAMP	1	319.24	3.023	15	PASS	3.51	4.277	15	PASS

PERCENT RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	52 Cr [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N069583-001B	SAMP	1	0.45	5.863	15	PASS	8.14	3.011	15	PASS
N069583-001B	SAMP	10	0.04	47.583	15	<PQL	0.91	9.498	15	PASS
N069583-002B	SAMP	1	0.04	30.054	15	<PQL	1.21	7.839	15	PASS
N069583-002B	SAMP	10	0	270.711	15	<PQL	0.17	28.237	15	NR!
N069583-003B	SAMP	1	0.11	22.728	15	<PQL	1.26	18.025	15	NR!
N069583-003B	SAMP	5	<0.000	N/A	15	<PQL	0.23	18.397	15	NR!
N069583-003B	SAMP	10	0.01	98.316	15	<PQL	0.13	64.792	15	NR!
N069583-003B	SAMP	50	<0.000	N/A	15	<PQL	0.07	36.586	15	<PQL
CCV5	CCV	1	18.91	1.153	15	PASS	18.71	5.814	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL	0	46824.375	15	<PQL
N069583-003B-PS	PS	1	9.17	0.759	15	PASS	10.54	2.466	15	PASS
N069583-003B-PS	PS	10	9.1	0.53	15	PASS	10.08	4.608	15	PASS
N069583-003BMS	MS	1	9.09	1.641	15	PASS	11.46	5.206	15	PASS
N069583-003BMS	MS	10	0.92	1.396	15	PASS	1	9.894	15	PASS
N069583-003BMSD	MSD	1	9.07	1.371	15	PASS	11.31	3.723	15	PASS
N069583-003BMSD	MSD	10	0.93	6.521	15	PASS	1.13	15.152	15	NR!
N069583-004B	SAMP	1	0.15	13.08	15	PASS	0.5	14.524	15	PASS
N069583-004B	SAMP	10	<0.000	N/A	15	<PQL	0.07	20.551	15	<PQL
N069583-006B	SAMP	1	0.02	63.886	15	<PQL	1.02	3.088	15	PASS
CCV6	CCV	1	19.01	2.242	15	PASS	19.26	2.211	15	PASS
CCB6	CCB	1	0	8628.481	15	<PQL	0.03	73.995	15	<PQL
N069583-008B	SAMP	1	1.31	6.415	15	PASS	0.72	8.883	15	PASS
N069583-008B	SAMP	10	0.11	4.415	15	PASS	0.11	13.476	15	PASS
N069583-009B	SAMP	1	0.44	9.361	15	PASS	6.98	9.069	15	PASS
N069583-009B	SAMP	10	0.04	98.258	15	<PQL	0.68	7.049	15	PASS
N069583-010B	SAMP	1	0.09	21.007	15	<PQL	19.27	1.696	15	PASS
N069583-010B	SAMP	100	<0.000	N/A	15	<PQL	0.25	14.055	15	PASS
N069585-001B	SAMP	1	25.5	0.526	15	PASS	4.97	5.371	15	PASS
CCV7	CCV	1	19.22	2.191	15	PASS	18.84	2.852	15	PASS
CCB7	CCB	1	<0.000	N/A	15	<PQL	0.01	151.109	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL	0.04	67.415	15	<PQL
ICSAB4	ICSAB	1	18.6	1.753	15	PASS	18.65	3.86	15	PASS
CCV8	CCV	1	19.14	0.962	15	PASS	19.62	1.057	15	PASS
CCB8	CCB	1	<0.000	N/A	15	<PQL	0.03	106.449	15	<PQL
CCV9	CCV	1	18.39	1.827	15	PASS	19.46	0.822	15	PASS
CCB9	CCB	1	<0.000	N/A	15	<PQL	0.03	125.315	15	<PQL
CCV10	CCV	1	19.14	1.887	15	PASS	18.78	1.152	15	PASS
CCB10	CCB	1	<0.000	N/A	15	<PQL	0.02	60.37	15	<PQL
CCV11	CCV	1	18.69	2.273	15	PASS	18.2	2.781	15	PASS
CCB11	CCB	1	<0.000	N/A	15	<PQL	0.01	171.917	15	<PQL
ICSA5	ICSA	1	<0.000	N/A	15	<PQL	0.01	146.87	15	<PQL

PERCENT RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	52 Cr [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
ICSAB5	ICSAB	1	18.87	0.732	15	PASS	18.73	4.101	15	PASS

PERCENT RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	78 Se [1]			
			Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.11	68.579	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.5	8.352	15	PASS
Std3-5/50 ppb	ICAL	1	4.79	6.677	15	PASS
Std4-10/100 ppb	ICAL	1	9.33	7.346	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	18.43	1.905	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	38.34	1.105	15	PASS
Std7-100/1000 ppb	ICAL	1	96.14	1.504	15	PASS
Std8-200/2000 ppb	ICAL	1	202.46	1.198	15	PASS
ICV	ICV	1	9.68	2.456	15	PASS
ICB	ICB	1	0.02	173.205	15	<PQL
LLCCV1	CCV1	1	0.13	71.188	20	<PQL
LLCCV2	CCV1	1	0.53	32.46	20	FAIL
MLCCV1	CCV	1	18.78	3.912	15	PASS
ICSA1	ICSA	1	0.01	173.205	15	<PQL
ICSA1	ICSA	1	0.01	173.205	15	<PQL
ICSAB1	ICSAB	1	18.98	0.502	15	PASS
CCV1	CCV	1	18.79	2.414	15	PASS
CCB1	CCB	1	0.04	91.329	15	<PQL
ICSA2	ICSA	1	0.04	92.053	15	<PQL
ICSAB2	ICSAB	1	18.99	3.292	15	PASS
CCV2	CCV	1	19.05	4.52	15	PASS
CCB2	CCB	1	0.01	173.205	15	<PQL
CCV3	CCV	1	18.01	3.075	15	PASS
CCB3	CCB	1	0	N/A	15	<PQL
CCV4	CCV	1	18.28	4.138	15	PASS
CCB4	CCB	1	0.03	115.342	15	<PQL
ICSA3	ICSA	1	0.02	99.399	15	<PQL
ICSAB3	ICSAB	1	18.43	1.617	15	PASS
MB-113746	MBLK	1	0.02	97.932	15	<PQL
LCS-113746	LCS	1	9.09	4.418	15	PASS
N069542-001B	SAMP	10	0.19	26.477	15	<PQL
N069542-002B	SAMP	10	0.1	43.199	15	<PQL
N069542-003B	SAMP	10	0.2	32.733	15	<PQL
N069582-002B	SAMP	1	0.16	69.164	15	<PQL
N069582-003B	SAMP	1	4.41	6.65	15	PASS
N069582-004B	SAMP	1	8.54	3.322	15	PASS
N069582-005B	SAMP	1	5.12	7.765	15	PASS
CCV4	CCV	1	18.29	2.82	15	PASS
CCB4	CCB	1	0	N/A	15	<PQL
N069582-006B	SAMP	1	2.51	6.16	15	PASS

PERCENT RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	78 Se [1]			
			Conc. [ppb]	RSD	Criteria	Comment
N069583-001B	SAMP	1	0.22	76.016	15	<PQL
N069583-001B	SAMP	10	0.03	44.209	15	<PQL
N069583-002B	SAMP	1	0.09	58.39	15	<PQL
N069583-002B	SAMP	10	0.03	43.086	15	<PQL
N069583-003B	SAMP	1	0.07	99.861	15	<PQL
N069583-003B	SAMP	5	0.02	86.603	15	<PQL
N069583-003B	SAMP	10	0.01	173.205	15	<PQL
N069583-003B	SAMP	50	0.03	173.205	15	<PQL
CCV5	CCV	1	19.35	2.551	15	PASS
CCB5	CCB	1	0.02	100.254	15	<PQL
N069583-003B-PS	PS	1	6.03	5.857	15	PASS
N069583-003B-PS	PS	10	8.96	10.307	15	PASS
N069583-003BMS	MS	1	5.85	1.397	15	PASS
N069583-003BMS	MS	10	0.74	24.502	15	NR!
N069583-003BMSD	MSD	1	5.9	10.449	15	PASS
N069583-003BMSD	MSD	10	0.8	15.036	15	NR!
N069583-004B	SAMP	1	0.05	36.148	15	<PQL
N069583-004B	SAMP	10	0.02	86.615	15	<PQL
N069583-006B	SAMP	1	0.12	33.936	15	<PQL
CCV6	CCV	1	18.44	1.185	15	PASS
CCB6	CCB	1	0.02	173.205	15	<PQL
N069583-008B	SAMP	1	0.06	50.272	15	<PQL
N069583-008B	SAMP	10	0.02	86.625	15	<PQL
N069583-009B	SAMP	1	0.45	14.24	15	PASS
N069583-009B	SAMP	10	0.04	92.311	15	<PQL
N069583-010B	SAMP	1	0.25	30.365	15	<PQL
N069583-010B	SAMP	100	0	N/A	15	<PQL
N069585-001B	SAMP	1	1.11	11.397	15	PASS
CCV7	CCV	1	19.05	3.495	15	PASS
CCB7	CCB	1	0.02	100.758	15	<PQL
ICSA4	ICSA	1	0.02	86.623	15	<PQL
ICSAB4	ICSAB	1	18.37	3.681	15	PASS
CCV8	CCV	1	18.78	3.906	15	PASS
CCB8	CCB	1	0.02	86.615	15	<PQL
CCV9	CCV	1	18.59	2.96	15	PASS
CCB9	CCB	1	0.02	86.627	15	<PQL
CCV10	CCV	1	19.42	3.947	15	PASS
CCB10	CCB	1	0.03	42.921	15	<PQL
CCV11	CCV	1	19.08	2.878	15	PASS
CCB11	CCB	1	0.02	173.205	15	<PQL
ICSA5	ICSA	1	0.02	86.604	15	<PQL

PERCENT RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	78 Se [1]			
			Conc. [ppb]	RSD	Criteria	Comment
ICSAB5	ICSAB	1	19.51	1.622	15	PASS

PERCENT RSD SUMMARY: 241105B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	52 Cr [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.09	19.693	15	<PQL	0.06	73.782	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.43	8.052	15	PASS	0.46	18.784	15	FAIL
Std3-5/50 ppb	ICAL	1	4.61	2.911	15	PASS	4.88	2.548	15	PASS
Std4-10/100 ppb	ICAL	1	9.49	3.034	15	PASS	9.38	5.875	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.59	1.343	15	PASS	20.16	0.849	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	37.97	1.306	15	PASS	39.04	2.941	15	PASS
Std7-100/1000 ppb	ICAL	1	98.15	0.888	15	PASS	98.47	2.217	15	PASS
Std8-200/2000 ppb	ICAL	1	201.41	0.549	15	PASS	200.98	2.799	15	PASS
ICV	ICV	1	9.99	1.14	15	PASS	9.9	4.718	15	PASS
ICB	ICB	1	0	672.564	15	<PQL	0.05	49.366	15	<PQL
LLCCV1	CCV1	1	0.07	13.636	20	PASS	0.07	49.079	20	<PQL
LLCCV2	CCV1	1	1.03	2.81	20	PASS	0.09	33.099	20	<PQL
MLCCV1	CCV	1	19.58	1.69	15	PASS	19.47	4.523	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	0.03	57.68	15	<PQL
ICSAB1	ICSAB	1	19.36	3.295	15	PASS	19.51	2.889	15	PASS
CCV1	CCV	1	19.54	0.728	15	PASS	19.27	1.81	15	PASS
CCB1	CCB	1	0	255.655	15	<PQL	0.01	363.462	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	19.81	2.011	15	PASS	19.2	2.624	15	PASS
CCV2	CCV	1	19.21	2.042	15	PASS	20.05	4.527	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV3	CCV	1	19.36	1.008	15	PASS	19.61	1.135	15	PASS
CCB3	CCB	1	0.01	326.719	15	<PQL	0.01	244.122	15	<PQL
CCV4	CCV	1	19.08	1.295	15	PASS	19.36	3.637	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL	0.03	116.713	15	<PQL
CCV5	CCV	1	19.28	0.176	15	PASS	19.36	8.309	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV6	CCV	1	19.56	1.563	15	PASS	19.56	2.656	15	PASS
CCB6	CCB	1	0.01	159.747	15	<PQL	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	19.43	2.012	15	PASS	20.4	2.403	15	PASS
N069582-002B	SAMP	1	21.63	0.974	15	PASS	5.41	5.556	15	PASS
N069582-002B	SAMP	1	21.93	1.962	15	PASS	5.3	2.972	15	PASS
N069582-002B	SAMP	1	21.5	2.338	15	PASS	4.97	4.03	15	PASS
N069582-004B	SAMP	10	47.34	0.079	15	PASS	0.19	16.507	15	NR!
N069582-005B	SAMP	10	87.1	1.239	15	PASS	0.31	20.429	15	NR!
N069582-006B	SAMP	10	34.24	0.96	15	PASS	0.42	24.762	15	NR!
N069583-003B	SAMP	1	0.12	4.335	15	PASS	1.29	13.887	15	PASS
N069583-003B	SAMP	1	0.11	6.108	15	PASS	1.21	8.587	15	PASS
N069583-003B	SAMP	1	0.1	16.084	15	<PQL	1.34	12.252	15	PASS

PERCENT RSD SUMMARY: 241105B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	52 Cr [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
CCV7	CCV	1	18.7	1.748	15	PASS	19.54	0.574	15	PASS
CCB7	CCB	1	0	369.262	15	<PQL	0.02	152.548	15	<PQL
CCV8	CCV	1	19.06	1.091	15	PASS	19.6	2.322	15	PASS
CCB8	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV9	CCV	1	18.84	2.04	15	PASS	18.83	4.194	15	PASS
CCB9	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL	0.04	28.68	15	<PQL
ICSAB4	ICSAB	1	19.29	2.258	15	PASS	18.84	3.808	15	PASS

ANALYSIS RUN LOG



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INJECTION LOG: 241101C

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1101001.d	RINSE	ICAL	1	11/01/24 8:03 PM
B1101002.d	RINSE	ICAL	1	11/01/24 8:09 PM
B1101003.d	RINSE	ICAL	1	11/01/24 8:14 PM
B1101004.d	Cal Blk	IBLK	1	11/01/24 8:20 PM
B1101005.d	Std1-0.1/1 ppb	ICAL	1	11/01/24 8:26 PM
B1101006.d	Std2-0.5/5 ppb	ICAL	1	11/01/24 8:32 PM
B1101007.d	Std3-5/50 ppb	ICAL	1	11/01/24 8:39 PM
B1101008.d	Std4-10/100 ppb	ICAL	1	11/01/24 8:45 PM
B1101009.d	Std5-4.0/20/200 ppb	ICAL	1	11/01/24 8:51 PM
B1101010.d	Std6-8.0/40/400 ppb	ICAL	1	11/01/24 8:57 PM
B1101011.d	Std7-100/1000 ppb	ICAL	1	11/01/24 9:03 PM
B1101012.d	Std8-200/2000 ppb	ICAL	1	11/01/24 9:09 PM
B1101013.d	ICV	ICV	1	11/01/24 9:33 PM
B1101014.d	ICB	ICB	1	11/01/24 9:39 PM
B1101015.d	LLCCV1	CCV1	1	11/01/24 9:45 PM
B1101016.d	LLCCV1	CCV1	1	11/01/24 9:51 PM
B1101017.d	MLCCV1	CCV	1	11/01/24 9:57 PM
B1101018.d	ICSA1	ICSA	1	11/01/24 10:03 PM
B1101019.d	ICSA1	ICSA	1	11/01/24 10:08 PM
B1101020.d	ICSAB1	ICSAB	1	11/01/24 10:14 PM
B1101022.d	N069234-002A	SAMP	1	11/01/24 10:20 PM
B1101023.d	N069234-002D	SAMP	1	11/01/24 10:26 PM
B1101024.d	N069234-007A	SAMP	1	11/01/24 10:32 PM
B1101025.d	N069234-007D	SAMP	1	11/01/24 10:38 PM
B1101026.d	N069234-016A	SAMP	1	11/01/24 10:44 PM
B1101027.d	N069234-016D	SAMP	1	11/01/24 10:50 PM
B1101028.d	RINSE	ICAL	1	11/01/24 10:56 PM
B1101029.d	CCV1	CCV	1	11/01/24 11:01 PM
B1101030.d	CCB1	CCB	1	11/01/24 11:07 PM
B1101031.d	ICSA2	ICSA	1	11/01/24 11:13 PM
B1101032.d	ICSAB2	ICSAB	1	11/01/24 11:19 PM
B1101033.d	N069263-001B	SAMP	1	11/01/24 11:25 PM
B1101034.d	N069498-003B	SAMP	1	11/01/24 11:31 PM
B1101035.d	N069498-006B	SAMP	1	11/01/24 11:37 PM
B1101036.d	N069498-008B	SAMP	1	11/01/24 11:43 PM
B1101037.d	CCV2	CCV	1	11/02/24 1:01 AM
B1101038.d	CCB2	CCB	1	11/02/24 1:07 AM
B1101039.d	MB-113718	MBLK	1	11/02/24 1:13 AM
B1101040.d	LCS-113718	LCS	1	11/02/24 1:19 AM
B1101041.d	N069543-001B	SAMP	1	11/02/24 1:25 AM
B1101042.d	N069543-002B	SAMP	1	11/02/24 1:31 AM
B1101043.d	N069543-002B	SAMP	5	11/02/24 1:37 AM

INJECTION LOG: 241101C

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1101044.d	N069543-002B	SAMP	10	11/02/24 1:43 AM
B1101045.d	N069543-002B	SAMP	50	11/02/24 1:49 AM
B1101046.d	N069543-002B-PS	PS	1	11/02/24 1:54 AM
B1101047.d	N069543-002B-PS	PS	10	11/02/24 2:00 AM
B1101048.d	CCV3	CCV	1	11/02/24 2:06 AM
B1101049.d	CCB3	CCB	1	11/02/24 2:12 AM
B1101050.d	N069543-002B-MS	MS	1	11/02/24 2:18 AM
B1101051.d	N069543-002B-MS	MS	10	11/02/24 2:24 AM
B1101052.d	N069543-002B-MSD	MSD	1	11/02/24 2:30 AM
B1101053.d	N069543-002B-MSD	MSD	10	11/02/24 2:36 AM
B1101054.d	N069543-003B	SAMP	1	11/02/24 2:42 AM
B1101055.d	N069543-003B	SAMP	10	11/02/24 2:48 AM
B1101056.d	N069543-004B	SAMP	1	11/02/24 2:54 AM
B1101057.d	N069543-005B	SAMP	1	11/02/24 3:00 AM
B1101058.d	N069543-006B	SAMP	1	11/02/24 3:06 AM
B1101059.d	RINSE	ICAL	1	11/02/24 3:12 AM
B1101060.d	CCV4	CCV	1	11/02/24 3:17 AM
B1101061.d	CCB4	CCB	1	11/02/24 3:23 AM
B1101062.d	N069543-007B	SAMP	1	11/02/24 3:29 AM
B1101063.d	N069543-008B	SAMP	1	11/02/24 3:35 AM
B1101064.d	N069543-009B	SAMP	1	11/02/24 3:41 AM
B1101065.d	N069543-010B	SAMP	1	11/02/24 3:47 AM
B1101066.d	N069543-011B	SAMP	1	11/02/24 3:53 AM
B1101067.d	N069543-012B	SAMP	1	11/02/24 3:59 AM
B1101068.d	N069543-013B	SAMP	1	11/02/24 4:05 AM
B1101069.d	N069543-014B	SAMP	1	11/02/24 4:11 AM
B1101070.d	N069543-015B	SAMP	1	11/02/24 4:17 AM
B1101071.d	RINSE	ICAL	1	11/02/24 4:23 AM
B1101072.d	CCV5	CCV	1	11/02/24 4:29 AM
B1101073.d	CCB5	CCB	1	11/02/24 4:35 AM
B1101074.d	N069543-016B	SAMP	1	11/02/24 4:40 AM
B1101075.d	N069543-017B	SAMP	1	11/02/24 4:46 AM
B1101076.d	N069543-019B	SAMP	1	11/02/24 4:52 AM
B1101077.d	N069543-020B	SAMP	1	11/02/24 4:58 AM
B1101078.d	RINSE	ICAL	1	11/02/24 5:04 AM
B1101079.d	CCV6	CCV	1	11/02/24 5:10 AM
B1101080.d	CCB6	CCB	1	11/02/24 5:16 AM
B1101081.d	ICSA3	ICSA	1	11/02/24 5:22 AM
B1101082.d	ICSAB3	ICSAB	1	11/02/24 5:28 AM
B1101083.d	MB-113746	MBLK	1	11/02/24 5:34 AM
B1101084.d	LCS-113746	LCS	1	11/02/24 5:39 AM
B1101085.d	N069542-001B	SAMP	1	11/02/24 5:45 AM

INJECTION LOG: 241101C

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1101086.d	N069542-002B	SAMP	1	11/02/24 5:51 AM
B1101087.d	N069542-003B	SAMP	1	11/02/24 5:57 AM
B1101088.d	N069582-002B	SAMP	1	11/02/24 6:03 AM
B1101089.d	N069582-003B	SAMP	1	11/02/24 6:09 AM
B1101090.d	N069582-004B	SAMP	1	11/02/24 6:15 AM
B1101091.d	N069582-005B	SAMP	1	11/02/24 6:21 AM
B1101092.d	RINSE	ICAL	1	11/02/24 6:27 AM
B1101093.d	CCV7	CCV	1	11/02/24 6:33 AM
B1101094.d	CCB7	CCB	1	11/02/24 6:39 AM
B1101095.d	N069582-006B	SAMP	1	11/02/24 6:44 AM
B1101096.d	N069583-001B	SAMP	1	11/02/24 6:50 AM
B1101097.d	N069583-002B	SAMP	1	11/02/24 6:56 AM
B1101098.d	N069583-003B	SAMP	1	11/02/24 7:02 AM
B1101099.d	N069583-003B	SAMP	5	11/02/24 7:08 AM
B1101100.d	N069583-003B-PS	PS	1	11/02/24 7:14 AM
B1101101.d	N069583-003BMS	MS	1	11/02/24 7:20 AM
B1101102.d	N069583-003BMSD	MSD	1	11/02/24 7:26 AM
B1101103.d	N069583-004B	SAMP	1	11/02/24 7:32 AM
B1101104.d	RINSE	ICAL	1	11/02/24 7:38 AM
B1101105.d	CCV8	CCV	1	11/02/24 7:44 AM
B1101106.d	CCB8	CCB	1	11/02/24 7:49 AM
B1101107.d	N069583-006B	SAMP	1	11/02/24 7:55 AM
B1101108.d	N069583-008B	SAMP	1	11/02/24 8:01 AM
B1101109.d	N069583-009B	SAMP	1	11/02/24 8:07 AM
B1101110.d	N069583-010B	SAMP	1	11/02/24 8:13 AM
B1101111.d	N069585-001B	SAMP	1	11/02/24 8:19 AM
B1101112.d	RINSE	ICAL	1	11/02/24 8:25 AM
B1101113.d	CCV9	CCV	1	11/02/24 8:31 AM
B1101114.d	CCB9	CCB	1	11/02/24 8:37 AM
B1101115.d	ICSA4	ICSA	1	11/02/24 8:42 AM
B1101116.d	ICSAB4	ICSAB	1	11/02/24 8:48 AM
B1101117.d	RINSE	ICAL	1	11/02/24 8:54 AM
B1101118.d	RINSE	ICAL	1	11/02/24 9:00 AM
B1101119.d	RINSE	ICAL	1	11/02/24 9:06 AM

INJECTION LOG: 241103B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1103001.d	RINSE	ICAL	1	11/03/24 10:21 PM
A1103002.d	RINSE	ICAL	1	11/03/24 10:27 PM
A1103003.d	RINSE	ICAL	1	11/03/24 10:33 PM
A1103004.d	Cal Blk	IBLK	1	11/03/24 10:39 PM
A1103005.d	Std1-0.1/1 ppb	ICAL	1	11/03/24 10:45 PM
A1103006.d	Std2-0.5/5 ppb	ICAL	1	11/03/24 10:51 PM
A1103007.d	Std3-5/50 ppb	ICAL	1	11/03/24 10:57 PM
A1103008.d	Std4-10/100 ppb	ICAL	1	11/03/24 11:03 PM
A1103009.d	Std5-4.0/20/200 ppb	ICAL	1	11/03/24 11:09 PM
A1103010.d	Std6-8.0/40/400 ppb	ICAL	1	11/03/24 11:15 PM
A1103011.d	Std7-100/1000 ppb	ICAL	1	11/03/24 11:21 PM
A1103012.d	Std8-200/2000 ppb	ICAL	1	11/03/24 11:27 PM
A1103013.d	ICV	ICV	1	11/03/24 11:53 PM
A1103014.d	ICB	ICB	1	11/03/24 11:59 PM
A1103015.d	LLCCV1	CCV1	1	11/04/24 12:05 AM
A1103016.d	LLCCV2	CCV1	1	11/04/24 12:11 AM
A1103017.d	MLCCV1	CCV	1	11/04/24 12:17 AM
A1103018.d	ICSA1	ICSA	1	11/04/24 12:22 AM
A1103019.d	ICSA1	ICSA	1	11/04/24 12:28 AM
A1103020.d	ICSAB1	ICSAB	1	11/04/24 12:34 AM
A1103021.d	N069306-004A	SAMP	1	11/04/24 12:40 AM
A1103022.d	N069306-004D	SAMP	1	11/04/24 12:46 AM
A1103023.d	N069306-005A	SAMP	1	11/04/24 12:52 AM
A1103024.d	N069306-005D	SAMP	1	11/04/24 12:57 AM
A1103025.d	N069306-008A	SAMP	1	11/04/24 1:03 AM
A1103026.d	N069306-008D	SAMP	1	11/04/24 1:09 AM
A1103027.d	RINSE	ICAL	1	11/04/24 1:15 AM
A1103028.d	CCV1	CCV	1	11/04/24 1:21 AM
A1103029.d	CCB1	CCB	1	11/04/24 1:27 AM
A1103030.d	ICSA2	ICSA	1	11/04/24 1:33 AM
A1103031.d	ICSAB2	ICSAB	1	11/04/24 1:39 AM
A1103032.d	MB-113718	MBLK	1	11/04/24 1:44 AM
A1103033.d	LCS-113718	LCS	1	11/04/24 1:50 AM
A1103034.d	N069543-001B	SAMP	1	11/04/24 1:56 AM
A1103035.d	N069543-002B	SAMP	1	11/04/24 2:02 AM
A1103036.d	N069543-002B	SAMP	5	11/04/24 2:08 AM
A1103037.d	N069543-002B-PS	PS	1	11/04/24 2:14 AM
A1103038.d	N069543-002B-MS	MS	1	11/04/24 2:20 AM
A1103039.d	N069543-002B-MSD	MSD	1	11/04/24 2:26 AM
A1103040.d	N069543-003B	SAMP	1	11/04/24 2:32 AM
A1103041.d	RINSE	ICAL	1	11/04/24 2:38 AM
A1103042.d	CCV2	CCV	1	11/04/24 2:44 AM

INJECTION LOG: 241103B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1103043.d	CCB2	CCB	1	11/04/24 2:50 AM
A1103044.d	N069543-004B	SAMP	1	11/04/24 2:55 AM
A1103045.d	N069543-005B	SAMP	1	11/04/24 3:01 AM
A1103046.d	N069543-006B	SAMP	1	11/04/24 3:07 AM
A1103047.d	N069543-007B	SAMP	1	11/04/24 3:13 AM
A1103048.d	N069543-008B	SAMP	1	11/04/24 3:19 AM
A1103049.d	N069543-009B	SAMP	1	11/04/24 3:25 AM
A1103050.d	N069543-010B	SAMP	1	11/04/24 3:31 AM
A1103051.d	N069543-011B	SAMP	1	11/04/24 3:37 AM
A1103052.d	N069543-012B	SAMP	1	11/04/24 3:43 AM
A1103053.d	RINSE	ICAL	1	11/04/24 3:49 AM
A1103054.d	CCV3	CCV	1	11/04/24 3:55 AM
A1103055.d	CCB3	CCB	1	11/04/24 4:01 AM
A1103056.d	N069543-013B	SAMP	1	11/04/24 4:07 AM
A1103057.d	N069543-014B	SAMP	1	11/04/24 4:13 AM
A1103058.d	N069543-015B	SAMP	1	11/04/24 4:19 AM
A1103059.d	N069543-016B	SAMP	1	11/04/24 4:25 AM
A1103060.d	N069543-017B	SAMP	1	11/04/24 4:30 AM
A1103061.d	N069543-019B	SAMP	1	11/04/24 4:36 AM
A1103062.d	N069543-020B	SAMP	1	11/04/24 4:42 AM
A1103063.d	N069543-005B	SAMP	1	11/04/24 4:48 AM
A1103064.d	N069543-006B	SAMP	1	11/04/24 4:54 AM
A1103065.d	N069543-005B	SAMP	1	11/04/24 5:00 AM
A1103066.d	CCV4	CCV	1	11/04/24 5:09 AM
A1103067.d	CCB4	CCB	1	11/04/24 5:15 AM
A1103068.d	ICSA3	ICSA	1	11/04/24 5:21 AM
A1103069.d	ICSAB3	ICSAB	1	11/04/24 5:27 AM
A1103070.d	MB-113746	MBLK	1	11/04/24 5:32 AM
A1103071.d	LCS-113746	LCS	1	11/04/24 5:38 AM
A1103072.d	N069542-001B	SAMP	10	11/04/24 5:44 AM
A1103073.d	N069542-002B	SAMP	10	11/04/24 5:50 AM
A1103074.d	N069542-003B	SAMP	10	11/04/24 5:56 AM
A1103075.d	N069582-002B	SAMP	1	11/04/24 6:02 AM
A1103076.d	N069582-003B	SAMP	1	11/04/24 6:08 AM
A1103077.d	N069582-004B	SAMP	1	11/04/24 6:14 AM
A1103078.d	N069582-005B	SAMP	1	11/04/24 6:19 AM
A1103079.d	RINSE	ICAL	1	11/04/24 6:25 AM
A1103080.d	CCV4	CCV	1	11/04/24 6:31 AM
A1103081.d	CCB4	CCB	1	11/04/24 6:37 AM
A1103082.d	N069582-006B	SAMP	1	11/04/24 6:43 AM
A1103083.d	N069583-001B	SAMP	1	11/04/24 6:49 AM
A1103084.d	N069583-001B	SAMP	10	11/04/24 6:55 AM

INJECTION LOG: 241103B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1103085.d	N069583-002B	SAMP	1	11/04/24 7:01 AM
A1103086.d	N069583-002B	SAMP	10	11/04/24 7:07 AM
A1103087.d	N069583-003B	SAMP	1	11/04/24 7:12 AM
A1103088.d	N069583-003B	SAMP	5	11/04/24 7:18 AM
A1103089.d	N069583-003B	SAMP	10	11/04/24 7:24 AM
A1103090.d	N069583-003B	SAMP	50	11/04/24 7:30 AM
A1103091.d	CCV5	CCV	1	11/04/24 7:36 AM
A1103092.d	CCB5	CCB	1	11/04/24 7:42 AM
A1103093.d	N069583-003B-PS	PS	1	11/04/24 7:48 AM
A1103094.d	N069583-003B-PS	PS	10	11/04/24 7:54 AM
A1103095.d	N069583-003BMS	MS	1	11/04/24 8:00 AM
A1103096.d	N069583-003BMS	MS	10	11/04/24 8:05 AM
A1103097.d	N069583-003BMSD	MSD	1	11/04/24 8:11 AM
A1103098.d	N069583-003BMSD	MSD	10	11/04/24 8:17 AM
A1103099.d	N069583-004B	SAMP	1	11/04/24 8:23 AM
A1103100.d	N069583-004B	SAMP	10	11/04/24 8:29 AM
A1103101.d	N069583-006B	SAMP	1	11/04/24 8:35 AM
A1103102.d	RINSE	ICAL	1	11/04/24 8:41 AM
A1103103.d	CCV6	CCV	1	11/04/24 8:47 AM
A1103104.d	CCB6	CCB	1	11/04/24 8:53 AM
A1103105.d	N069583-008B	SAMP	1	11/04/24 8:58 AM
A1103106.d	N069583-008B	SAMP	10	11/04/24 9:04 AM
A1103107.d	N069583-009B	SAMP	1	11/04/24 9:10 AM
A1103108.d	N069583-009B	SAMP	10	11/04/24 9:16 AM
A1103109.d	N069583-010B	SAMP	1	11/04/24 9:22 AM
A1103110.d	N069583-010B	SAMP	100	11/04/24 9:28 AM
A1103111.d	N069585-001B	SAMP	1	11/04/24 9:34 AM
A1103112.d	RINSE	ICAL	1	11/04/24 9:40 AM
A1103113.d	CCV7	CCV	1	11/04/24 9:46 AM
A1103114.d	CCB7	CCB	1	11/04/24 9:52 AM
A1103115.d	ICSA4	ICSA	1	11/04/24 9:57 AM
A1103116.d	ICSAB4	ICSAB	1	11/04/24 10:03 AM
A1103117.d	MB-113831	MBLK	1	11/04/24 10:09 AM
A1103118.d	LCS-113831	LCS	1	11/04/24 10:15 AM
A1103119.d	N069629-001B	SAMP	1	11/04/24 10:21 AM
A1103120.d	N069629-001B	SAMP	5	11/04/24 10:27 AM
A1103121.d	N069629-001B-PS	PS	1	11/04/24 10:33 AM
A1103122.d	N069629-001B-MS	MS	1	11/04/24 10:39 AM
A1103123.d	N069629-001B-MSD	MSD	1	11/04/24 10:45 AM
A1103124.d	N069629-002B	SAMP	1	11/04/24 10:50 AM
A1103125.d	N069631-008B	SAMP	1	11/04/24 10:56 AM
A1103126.d	RINSE	ICAL	1	11/04/24 11:02 AM

INJECTION LOG: 241103B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1103127.d	CCV8	CCV	1	11/04/24 11:08 AM
A1103128.d	CCB8	CCB	1	11/04/24 11:14 AM
A1103129.d	N069631-009B	SAMP	1	11/04/24 11:20 AM
A1103130.d	N069631-010B	SAMP	1	11/04/24 11:26 AM
A1103131.d	N069631-011B	SAMP	1	11/04/24 11:32 AM
A1103132.d	N069631-012B	SAMP	1	11/04/24 11:38 AM
A1103133.d	N069631-013B	SAMP	1	11/04/24 11:44 AM
A1103134.d	N069631-014B	SAMP	1	11/04/24 11:50 AM
A1103135.d	N069638-001B	SAMP	1	11/04/24 11:56 AM
A1103136.d	N069638-002B	SAMP	1	11/04/24 12:02 PM
A1103137.d	N069638-003B	SAMP	1	11/04/24 12:08 PM
A1103138.d	RINSE	ICAL	1	11/04/24 12:14 PM
A1103139.d	CCV9	CCV	1	11/04/24 12:20 PM
A1103140.d	CCB9	CCB	1	11/04/24 12:25 PM
A1103141.d	N069638-007B	SAMP	1	11/04/24 12:31 PM
A1103142.d	N069638-008B	SAMP	1	11/04/24 12:37 PM
A1103143.d	N069638-009B	SAMP	1	11/04/24 12:43 PM
A1103144.d	RINSE	ICAL	1	11/04/24 12:49 PM
A1103145.d	CCV10	CCV	1	11/04/24 12:55 PM
A1103146.d	CCB10	CCB	1	11/04/24 1:01 PM
A1103147.d	MB-113832	MBLK	1	11/04/24 1:07 PM
A1103148.d	LCS-113832	LCS	1	11/04/24 1:12 PM
A1103149.d	N069542-001C	SAMP	1	11/04/24 1:18 PM
A1103150.d	N069542-001C	SAMP	5	11/04/24 1:24 PM
A1103151.d	N069542-001C-PS	PS	1	11/04/24 1:30 PM
A1103152.d	N069542-001C-MS	MS	1	11/04/24 1:36 PM
A1103153.d	N069542-001C-MSD	MSD	1	11/04/24 1:42 PM
A1103154.d	N069542-002C	SAMP	1	11/04/24 1:48 PM
A1103155.d	N069542-003C	SAMP	1	11/04/24 1:54 PM
A1103156.d	RINSE	ICAL	1	11/04/24 2:00 PM
A1103157.d	CCV11	CCV	1	11/04/24 2:06 PM
A1103158.d	CCB11	CCB	1	11/04/24 2:12 PM
A1103159.d	ICSA5	ICSA	1	11/04/24 2:17 PM
A1103160.d	ICSAB5	ICSAB	1	11/04/24 2:23 PM
A1103161.d	RINSE	ICAL	1	11/04/24 2:29 PM
A1103162.d	RINSE	ICAL	1	11/04/24 2:35 PM

INJECTION LOG: 241105B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1105001.d	RINSE	ICAL	1	11/05/24 4:12 PM
B1105002.d	RINSE	ICAL	1	11/05/24 4:18 PM
B1105003.d	Cal Blk	IBLK	1	11/05/24 4:24 PM
B1105004.d	Std1-0.1/1 ppb	ICAL	1	11/05/24 4:30 PM
B1105005.d	Std2-0.5/5 ppb	ICAL	1	11/05/24 4:36 PM
B1105006.d	Std3-5/50 ppb	ICAL	1	11/05/24 4:42 PM
B1105007.d	Std4-10/100 ppb	ICAL	1	11/05/24 4:48 PM
B1105008.d	Std5-4.0/20/200 ppb	ICAL	1	11/05/24 4:54 PM
B1105009.d	Std6-8.0/40/400 ppb	ICAL	1	11/05/24 5:00 PM
B1105010.d	Std7-100/1000 ppb	ICAL	1	11/05/24 5:06 PM
B1105011.d	Std8-200/2000 ppb	ICAL	1	11/05/24 5:12 PM
B1105012.d	ICV	ICV	1	11/05/24 5:20 PM
B1105013.d	ICB	ICB	1	11/05/24 5:26 PM
B1105014.d	LLCCV1	CCV1	1	11/05/24 5:32 PM
B1105015.d	LLCCV2	CCV1	1	11/05/24 5:38 PM
B1105016.d	MLCCV1	CCV	1	11/05/24 5:44 PM
B1105017.d	ICSA1	ICSA	1	11/05/24 5:50 PM
B1105018.d	ICSAB1	ICSAB	1	11/05/24 5:56 PM
B1105019.d	MB-113875	MBLK	1	11/05/24 6:01 PM
B1105020.d	LCS-113875	LCS	1	11/05/24 6:07 PM
B1105021.d	N069694-003B	SAMP	1	11/05/24 6:13 PM
B1105022.d	N069694-003B	SAMP	5	11/05/24 6:19 PM
B1105023.d	N069694-003B-PS	PS	1	11/05/24 6:25 PM
B1105024.d	N069694-003B-MS	MS	1	11/05/24 6:31 PM
B1105025.d	N069694-003B-MSD	MSD	1	11/05/24 6:37 PM
B1105026.d	RINSE	ICAL	1	11/05/24 6:43 PM
B1105027.d	CCV1	CCV	1	11/05/24 6:48 PM
B1105028.d	CCB1	CCB	1	11/05/24 6:54 PM
B1105029.d	ICSA2	ICSA	1	11/05/24 7:00 PM
B1105030.d	ICSAB2	ICSAB	1	11/05/24 7:06 PM
B1105031.d	MB-113874	MBLK	1	11/05/24 7:12 PM
B1105032.d	LCS-113874	LCS	1	11/05/24 7:18 PM
B1105033.d	N069234-016D	SAMP	1	11/05/24 7:23 PM
B1105034.d	N069234-016D	SAMP	5	11/05/24 7:29 PM
B1105035.d	N069234-016D-PS	PS	1	11/05/24 7:35 PM
B1105036.d	N069234-016D-MS	MS	1	11/05/24 7:41 PM
B1105037.d	N069234-016D-MSD	MSD	1	11/05/24 7:47 PM
B1105038.d	RINSE	ICAL	1	11/05/24 7:53 PM
B1105039.d	CCV2	CCV	1	11/05/24 7:59 PM
B1105040.d	CCB2	CCB	1	11/05/24 8:04 PM
B1105041.d	MB-113864	MBLK	1	11/05/24 8:10 PM
B1105042.d	LCS-113864	LCS	1	11/05/24 8:16 PM

INJECTION LOG: 241105B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1105043.d	N069694-001B	SAMP	1	11/05/24 8:22 PM
B1105044.d	N069694-002B	SAMP	1	11/05/24 8:28 PM
B1105045.d	N069694-003B	SAMP	1	11/05/24 8:34 PM
B1105046.d	N069694-004B	SAMP	1	11/05/24 8:40 PM
B1105047.d	N069695-001B	SAMP	1	11/05/24 8:45 PM
B1105048.d	N069695-001B	SAMP	5	11/05/24 8:51 PM
B1105049.d	N069695-001B-PS	PS	1	11/05/24 8:57 PM
B1105050.d	RINSE	ICAL	1	11/05/24 9:03 PM
B1105051.d	CCV3	CCV	1	11/05/24 9:09 PM
B1105052.d	CCB3	CCB	1	11/05/24 9:15 PM
B1105053.d	N069695-001BMS	MS	1	11/05/24 9:21 PM
B1105054.d	N069695-001BMSD	MSD	1	11/05/24 9:26 PM
B1105055.d	N069695-002B	SAMP	1	11/05/24 9:32 PM
B1105056.d	N069695-003B	SAMP	1	11/05/24 9:38 PM
B1105057.d	N069695-003B	SAMP	5	11/05/24 9:44 PM
B1105058.d	N069695-003B-PS	PS	1	11/05/24 9:50 PM
B1105059.d	N069695-003BMS	MS	1	11/05/24 9:56 PM
B1105060.d	N069695-003BMSD	MSD	1	11/05/24 10:02 PM
B1105061.d	N069697-001B	SAMP	1	11/05/24 10:08 PM
B1105062.d	RINSE	ICAL	1	11/05/24 10:13 PM
B1105063.d	CCV4	CCV	1	11/05/24 10:19 PM
B1105064.d	CCB4	CCB	1	11/05/24 10:25 PM
B1105065.d	N069697-002B	SAMP	1	11/05/24 10:31 PM
B1105066.d	N069697-003B	SAMP	1	11/05/24 10:37 PM
B1105067.d	N069697-004B	SAMP	1	11/05/24 10:43 PM
B1105068.d	N069697-005B	SAMP	1	11/05/24 10:49 PM
B1105069.d	N069697-006B	SAMP	1	11/05/24 10:54 PM
B1105070.d	N069697-007B	SAMP	1	11/05/24 11:00 PM
B1105071.d	N069697-008B	SAMP	1	11/05/24 11:06 PM
B1105072.d	N069697-009B	SAMP	1	11/05/24 11:12 PM
B1105073.d	N069697-010D	SAMP	1	11/05/24 11:18 PM
B1105074.d	RINSE	ICAL	1	11/05/24 11:24 PM
B1105075.d	CCV5	CCV	1	11/05/24 11:30 PM
B1105076.d	CCB5	CCB	1	11/05/24 11:36 PM
B1105077.d	N069697-011D	SAMP	1	11/05/24 11:41 PM
B1105078.d	N069697-012D	SAMP	1	11/05/24 11:48 PM
B1105079.d	N069697-013D	SAMP	1	11/05/24 11:54 PM
B1105080.d	RINSE	ICAL	1	11/06/24 12:00 AM
B1105081.d	CCV6	CCV	1	11/06/24 12:06 AM
B1105082.d	CCB6	CCB	1	11/06/24 12:11 AM
B1105083.d	ICSA3	ICSA	1	11/06/24 12:17 AM
B1105084.d	ICSAB3	ICSAB	1	11/06/24 12:23 AM

INJECTION LOG: 241105B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1105085.d	N069582-002B	SAMP	1	11/06/24 12:29 AM
B1105086.d	N069582-002B	SAMP	1	11/06/24 12:35 AM
B1105087.d	N069582-002B	SAMP	1	11/06/24 12:41 AM
B1105088.d	N069582-004B	SAMP	10	11/06/24 12:47 AM
B1105089.d	N069582-005B	SAMP	10	11/06/24 12:53 AM
B1105090.d	N069582-006B	SAMP	10	11/06/24 12:59 AM
B1105091.d	N069583-003B	SAMP	1	11/06/24 1:05 AM
B1105092.d	N069583-003B	SAMP	1	11/06/24 1:10 AM
B1105093.d	N069583-003B	SAMP	1	11/06/24 1:16 AM
B1105094.d	RINSE	ICAL	1	11/06/24 1:22 AM
B1105095.d	CCV7	CCV	1	11/06/24 1:28 AM
B1105096.d	CCB7	CCB	1	11/06/24 1:34 AM
B1105097.d	N069629-001B	SAMP	1	11/06/24 1:40 AM
B1105098.d	N069631-008B	SAMP	10	11/06/24 1:46 AM
B1105099.d	N069631-009B	SAMP	1	11/06/24 1:52 AM
B1105100.d	N069631-010B	SAMP	1	11/06/24 1:58 AM
B1105101.d	N069631-010B	SAMP	10	11/06/24 2:04 AM
B1105102.d	N069631-011B	SAMP	10	11/06/24 2:10 AM
B1105103.d	N069631-012B	SAMP	10	11/06/24 2:16 AM
B1105104.d	N069631-013B	SAMP	10	11/06/24 2:22 AM
B1105105.d	N069631-014B	SAMP	10	11/06/24 2:28 AM
B1105106.d	N069638-001B	SAMP	10	11/06/24 2:33 AM
B1105107.d	CCV8	CCV	1	11/06/24 2:39 AM
B1105108.d	CCB8	CCB	1	11/06/24 2:45 AM
B1105109.d	N069638-007B	SAMP	1	11/06/24 2:51 AM
B1105110.d	N069629-001B	SAMP	1	11/06/24 2:57 AM
B1105111.d	N069631-009B	SAMP	1	11/06/24 3:03 AM
B1105112.d	N069631-010B	SAMP	1	11/06/24 3:09 AM
B1105113.d	N069629-001B	SAMP	1	11/06/24 3:15 AM
B1105114.d	N069631-009B	SAMP	1	11/06/24 3:21 AM
B1105115.d	N069631-010B	SAMP	1	11/06/24 3:27 AM
B1105116.d	N069638-007B	SAMP	1	11/06/24 3:33 AM
B1105117.d	N069638-008B	SAMP	10	11/06/24 3:39 AM
B1105118.d	N069638-009B	SAMP	100	11/06/24 3:45 AM
B1105119.d	CCV9	CCV	1	11/06/24 3:50 AM
B1105120.d	CCB9	CCB	1	11/06/24 3:56 AM
B1105121.d	ICSA4	ICSA	1	11/06/24 4:02 AM
B1105122.d	ICSAB4	ICSAB	1	11/06/24 4:08 AM
B1105123.d	RINSE	ICAL	1	11/06/24 4:14 AM
B1105124.d	RINSE	ICAL	1	11/06/24 4:20 AM
B1105125.d	RINSE	ICAL	1	11/06/24 4:26 AM

SAMPLE PREPARATION LOG



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P: 702.307.2659 F: 702.307.2691

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365

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 10/31/2024 9:01:04 AM
 Prep End Date: 10/31/2024 12:45:00 PM

Reviewed/ Date: *JRB* 11/14/2024

Page: 1 of 2

Prep Batch 113746 Prep Code: 3010_W_MSDISS_TPK

Initials/ Date: for _____
 Technician: Diane Jetajobe

Prep Factor Units Temp. (°C): Location:
 mL / mL 95 DB-4-38

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-113746 50ML LOT# J96406-5447	Aqueous		25	<input type="checkbox"/>	25	1.000		
MB-113746 THERMOMETER ID: DIGESTION 7	Aqueous		25	<input type="checkbox"/>	25	1.000		
N069542-001B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069542-002B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069542-003B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069582-002B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069582-003B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069582-004B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069582-005B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069582-006B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-002B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-003B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17140	NITRIC ACID
17147	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-240815C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-240815D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-240815E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-240815F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 10/31/2024 9:01:04 AM
 Prep End Date: 10/31/2024 12:45:00 PM

Reviewed/ Date: *JRB* 11/14/2024

Page: 2 of 2

Initials/ Date: for _____

Prep Factor Units Temp. (°C): Location:
 mL / mL 95 DB-4-38

Prep Batch 113746 Prep Code: 3010_W_MSDISS_TPK

Technician: Diane Jetajobe

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N069583-003BMS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-003BMSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-004B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-006B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-008B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-009B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-010B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069585-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17140	NITRIC ACID
17147	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-240815C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-240815D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-240815E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-240815F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

INSTRUMENT TUNING CHECK



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\241031A2.b
Acq. Date-Time 2024-11-01 08:40:26
Report Comment ---
Instrument Name G8421A SG19193757

[No Gas]

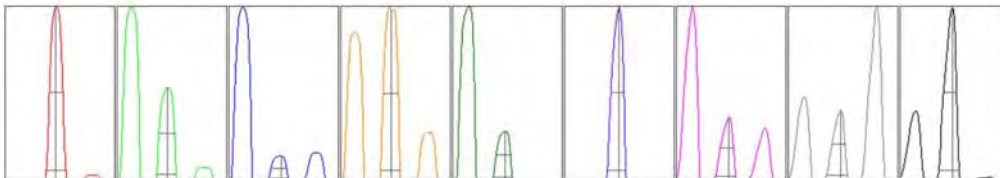
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	7356	73559.99	500.00		2.032	5.000
24	10.00	20517	205168.32	500.00		2.486	5.000
25	10.00	2713	27133.34	500.00		3.226	5.000
26	10.00	3106	31059.03	500.00		2.715	5.000
59	10.00	30751	307510.11	500.00		3.166	5.000
115	10.00	39048	390475.77	500.00		1.887	5.000
206	10.00	8592	85918.90	500.00		1.818	5.000
207	10.00	6781	67813.70	500.00		1.630	5.000
208	10.00	16982	169817.76	500.00		1.559	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.370 %
Doubly Charged 70 / 140 0.996 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	7530.09	8.90	8.90 - 9.10	
24	20369.50	23.90	23.90 - 24.10	
25	2614.33	24.95	24.90 - 25.10	
26	3048.83	25.90	25.90 - 26.10	
59	29609.26	58.95	58.90 - 59.10	
115	37460.70	115.00	114.90 - 115.10	
206	8565.55	205.95	205.90 - 206.10	
207	7135.03	206.95	206.90 - 207.10	
208	17872.34	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.38	0.526	0.900	
24	0.43	0.539	0.900	
25	0.43	0.533	0.900	
26	0.42	0.537	0.900	
59	0.40	0.498	0.900	
115	0.37	0.490	0.900	
206	0.37	0.559	0.900	
207	0.36	0.582	0.900	
208	0.36	0.573	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.2 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2635 V Pulse HV 1863 V

[H2]

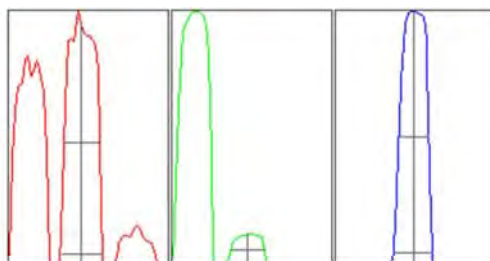
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		163	1628.88			9.264	
59		3302	33015.53			3.035	
115		32124	321242.76			1.905	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.266 %
 Doubly Charged 70 / 140 0.332 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	160.26	25.90	25.90 - 26.10	
59	3418.62	58.95	58.90 - 59.10	
115	33020.69	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.67	0.788	0.900	
59	0.63	0.738	0.900	
115	0.57	0.732	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0003	QP Bias	-15.0 V
Mass Offset	126	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2635 V	Pulse HV	1863 V
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[He]

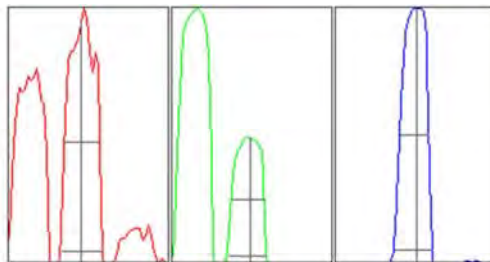
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		68	684.01			14.980	
59		5890	58899.04			2.185	
115		5350	53501.17			2.585	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.114 %
Doubly Charged	70 / 140 1.167 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	72.75	25.90	25.90 - 26.10	
59	6029.36	59.00	58.90 - 59.10	
115	5411.85	115.05	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.66	0.790	0.900	
59	0.62	0.740	0.900	
115	0.56	0.730	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0003	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2635 V	Pulse HV	1863 V
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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\241101C.b
Acq. Date-Time 2024-11-03 22:07:00
Report Comment ---
Instrument Name G8421A SG19193757

[No Gas]

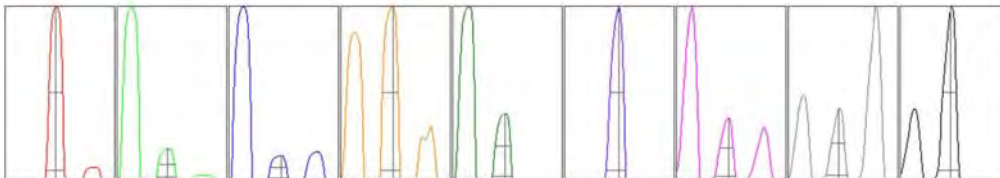
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	5417	54171.13	500.00		3.895	5.000
24	10.00	18113	181134.68	500.00		3.162	5.000
25	10.00	2399	23988.24	500.00		3.991	5.000
26	10.00	2740	27402.98	500.00		3.005	5.000
59	10.00	27813	278128.90	500.00		2.762	5.000
115	10.00	37760	377603.09	500.00		2.136	5.000
206	10.00	7957	79573.41	500.00		2.578	5.000
207	10.00	6230	62297.19	500.00		2.171	5.000
208	10.00	15627	156271.60	500.00		1.981	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.488 %
Doubly Charged 70 / 140 0.858 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	5382.53	8.90	8.90 - 9.10	
24	18039.81	23.90	23.90 - 24.10	
25	2372.48	24.95	24.90 - 25.10	
26	2782.62	25.95	25.90 - 26.10	
59	27056.27	58.95	58.90 - 59.10	
115	37443.11	115.00	114.90 - 115.10	
206	8208.37	205.95	205.90 - 206.10	
207	6843.19	206.90	206.90 - 207.10	
208	16836.48	207.90	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.38	0.490	0.900	
24	0.45	0.541	0.900	
25	0.45	0.548	0.900	
26	0.44	0.542	0.900	
59	0.42	0.538	0.900	
115	0.39	0.531	0.900	
206	0.37	0.582	0.900	
207	0.36	0.606	0.900	
208	0.38	0.594	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.1 mm
---------	--------	---------	--------

US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2640 V Pulse HV 1872 V

[H2]

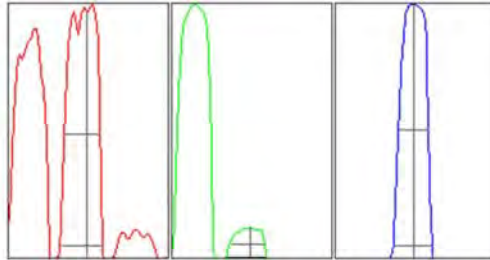
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		161	1614.68			6.992	
59		2324	23240.02			3.102	
115		32900	328995.40			2.512	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.408 %
 Doubly Charged 70 / 140 0.277 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	161.26	26.00	25.90 - 26.10	
59	2408.83	59.00	58.90 - 59.10	
115	34382.52	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.68	0.792	0.900	
59	0.65	0.743	0.900	
115	0.57	0.732	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	132	Axis Gain	1.0001	QP Bias	-15.0 V
Mass Offset	126	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.1 mm
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EM

Discriminator	4.5 mV	Analog HV	2640 V	Pulse HV	1872 V
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[He]

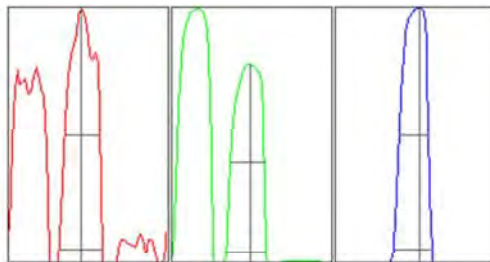
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		70	703.81			10.429	
59		6107	61071.23			1.630	
115		5125	51248.17			1.987	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.177 %
Doubly Charged	70 / 140 1.101 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	73.25	25.90	25.90 - 26.10	
59	6259.21	59.00	58.90 - 59.10	
115	5150.25	115.10	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.67	0.821	0.900	
59	0.64	0.742	0.900	
115	0.56	0.729	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	132	Axis Gain	1.0001	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.1 mm
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EM

Discriminator	4.5 mV	Analog HV	2640 V	Pulse HV	1872 V
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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\241103A.b
Acq. Date-Time 2024-11-05 11:29:09
Report Comment —
Instrument Name G8421A SG19193757

[No Gas]

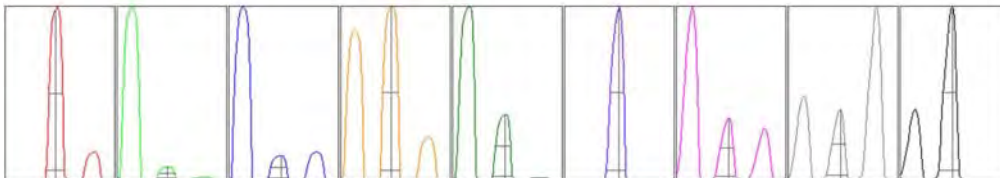
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	4888	48879.00	500.00		3.959	5.000
24	10.00	19646	196455.35	500.00		3.227	5.000
25	10.00	2583	25831.32	500.00		3.555	5.000
26	10.00	2951	29510.30	500.00		3.669	5.000
59	10.00	27289	272887.21	500.00		3.534	5.000
115	10.00	39232	392321.11	500.00		2.442	5.000
206	10.00	8820	88200.38	500.00		2.327	5.000
207	10.00	6890	68901.30	500.00		2.386	5.000
208	10.00	17379	173789.93	500.00		1.774	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.544 %
Doubly Charged 70 / 140 0.797 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	4794.02	8.90	8.90 - 9.10	
24	19543.03	23.90	23.90 - 24.10	
25	2564.02	24.95	24.90 - 25.10	
26	2983.95	25.90	25.90 - 26.10	
59	26620.55	58.95	58.90 - 59.10	
115	38574.62	115.00	114.90 - 115.10	
206	8742.39	205.95	205.90 - 206.10	
207	7306.93	206.95	206.90 - 207.10	
208	18171.35	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.38	0.489	0.900	
24	0.44	0.541	0.900	
25	0.44	0.543	0.900	
26	0.43	0.540	0.900	
59	0.41	0.536	0.900	
115	0.38	0.527	0.900	
206	0.37	0.580	0.900	
207	0.36	0.598	0.900	
208	0.37	0.582	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.2 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2642 V Pulse HV 1876 V

[H2]

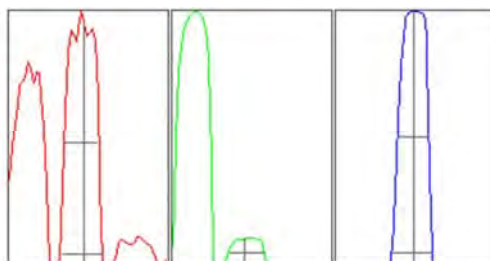
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		159	1586.87			8.791	
59		1988	19877.87			3.412	
115		32511	325106.03			2.213	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.449 %
 Doubly Charged 70 / 140 0.256 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	167.51	25.95	25.90 - 26.10	
59	2044.08	58.90	58.90 - 59.10	
115	33309.86	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.65	0.788	0.900	
59	0.66	0.782	0.900	
115	0.59	0.767	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0004	QP Bias	-15.0 V
Mass Offset	126	Axis Offset	-0.04		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2642 V	Pulse HV	1876 V
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[He]

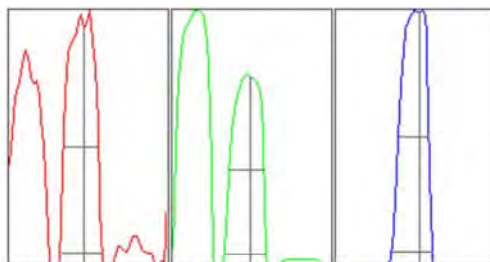
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		74	743.02			13.233	
59		5859	58589.96			2.236	
115		4989	49891.29			2.303	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.178 %
Doubly Charged	70 / 140 1.034 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	73.50	25.95	25.90 - 26.10	
59	5880.57	59.00	58.90 - 59.10	
115	5058.67	115.10	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.65	0.787	0.900	
59	0.65	0.785	0.900	
115	0.58	0.764	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0004	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	-0.04		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2642 V	Pulse HV	1876 V
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INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INITIAL CALIBRATION SUMMARY: 241101C

Instrument ID: NV00922-ICP8

Analyte	Data File	B1101004.d	B1101005.d	B1101006.d	B1101007.d	B1101008.d	B1101009.d	B1101010.d	B1101011.d	B1101012.d	R
	Acq. Date-Time	11/01/2024 08:20 PM	11/01/2024 08:26 PM	11/01/2024 08:32 PM	11/01/2024 08:39 PM	11/01/2024 08:45 PM	11/01/2024 08:51 PM	11/01/2024 08:57 PM	11/01/2024 09:03 PM	11/01/2024 09:09 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
	Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	
45 Sc (ISTD) [2]	CPS	30750.5		30119.4	30091.5	29964.6	30468.9	30167.2	28974	28449.8	
55 Mn [2]	CPS	10		490	5495.4	10636.8	22279.4	43357.7	108019.2	215945.1	0.9999
52 Cr [2]	CPS	184.4		1235.6	10339.9	20532.7	41047.2	82708.9	208144.8	415878.9	0.9999
72 Ge (ISTD) [1]	CPS	62044.8		61219.4	61029.9	61363.3	61225.1	60591.6	58450.6	56620.9	
78 Se [1]	CPS	1.1		63.3	720	1432.3	2895.8	6034.5	14479.8	29513.4	0.9997
72 Ge (ISTD) [2]	CPS	17199.1	17383.7	17099	17053.4	16748.6	16859.8	16586.2	16517.2	15996.8	
75 As [2]	CPS	8.9	25.6	126.7	1202.3	2231.3	4457.3	9311.6	22255.2	45449.7	0.9997
103 Rh (ISTD) [2]	CPS	473624.3		467022.8	467887.7	464006	463543.8	458018	452543.8	436771.3	
95 Mo [2]	CPS	17.8		534.5	5553.2	11140.6	22302.2	45149.8	112136.8	227941.3	0.9997

Standard Code
ICAL: 2MSST-240311B
ICAL: 2MSST-240311C
ICAL: 2MWST-240815K
ICV: 2MWST-240815G
LLICV: 2MWST-240815J
IS Mix: 2MWST-240815A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Analyte	Data File	A1103004.d	A1103005.d	A1103006.d	A1103007.d	A1103008.d	A1103009.d	A1103010.d	A1103011.d	A1103012.d	R
	Acq. Date-Time	11/03/2024 10:39 PM	11/03/2024 10:45 PM	11/03/2024 10:51 PM	11/03/2024 10:57 PM	11/03/2024 11:03 PM	11/03/2024 11:09 PM	11/03/2024 11:15 PM	11/03/2024 11:21 PM	11/03/2024 11:27 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L		
45 Sc (ISTD) [2]	CPS	26765.9		26996.3	27130.9	26916.1	27340.1	26553.3	25875.6	25225.7	
52 Cr [2]	CPS	157.8		1127.8	9755.1	19275.7	38840.8	76616.9	188873.7	380687.2	0.9999
72 Ge (ISTD) [1]	CPS	53422.4		53060.1	52838.3	53216.2	53129.2	52707.8	51282.2	49004.1	
78 Se [1]	CPS	0		71.1	674.5	1323.4	2610.2	5387.6	13143.1	26450.4	0.9997
72 Ge (ISTD) [2]	CPS	16330.4	16444.9	16499.4	16386	16102.4	16486.1	15896.7	15498.5	15186	
75 As [2]	CPS	1.1	30	123.3	1025.6	2151.3	4301.7	8412.2	21140.4	42362.5	0.9999

Standard Code
ICAL: 2MSST-240311B
ICAL: 2MSST-240311C
ICAL: 2MWST-240815K
ICV: 2MWST-240815G
LLICV: 2MWST-240815J
IS Mix: 2MWST-240815A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION SUMMARY: 241105B

Instrument ID: NV00922-ICP8

Analyte	Data File	B1105003.d	B1105004.d	B1105005.d	B1105006.d	B1105007.d	B1105008.d	B1105009.d	B1105010.d	B1105011.d	R
	Acq. Date-Time	11/05/2024 04:24 PM	11/05/2024 04:30 PM	11/05/2024 04:36 PM	11/05/2024 04:42 PM	11/05/2024 04:48 PM	11/05/2024 04:54 PM	11/05/2024 05:00 PM	11/05/2024 05:06 PM	11/05/2024 05:12 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
	Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	
45 Sc (ISTD) [2]	CPS	25659.7		25364.8	25241.3	25394.8	25467.2	25517.3	24560.3	23953.9	
52 Cr [2]	CPS	126.7		921.1	8651.2	17775.1	36681.5	71110.1	176731.2	353560.8	0.9999
72 Ge (ISTD) [2]	CPS	15888.9	15710.9	15716.5	15534.1	15756.5	15703.1	15547.4	15260.5	15210.4	
75 As [2]	CPS	4.4	17.8	102.2	1018.9	1984.6	4246.1	8139.8	20142.4	40958.9	0.9999

Standard Code
ICAL: 2MSST-240311B
ICAL: 2MSST-240311C
ICAL: 2MWST-240815K
ICV: 2MWST-240815G
LLICV: 2MWST-240815J
IS Mix: 2MWST-240815A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
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"Serving Clients with Passion and Professionalism"

388

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ICV	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282936							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	9.839	0.10	10.00	0	98.4	90	110				
Manganese	96.812	0.50	100.0	0	96.8	90	110				
Molybdenum	9.526	0.50	10.00	0	95.3	90	110				
Selenium	10.076	0.50	10.00	0	101	90	110				

Sample ID LLCCV1	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ZZZZZZ	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282938							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.102	0.10	0.1000	0	102	80	120				
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Sample ID LLCCV2	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ZZZZZZ	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282939							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	0.499	0.50	0.5000	0	99.7	80	120				
Molybdenum	0.487	0.50	0.5000	0	97.4	80	120				
Selenium	0.432	0.50	0.5000	0	86.4	80	120				

Sample ID MLCCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282940							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.620	0.10	20.00	0	98.1	90	110				
Manganese	20.047	0.50	20.00	0	100	90	110				
Molybdenum	18.763	0.50	20.00	0	93.8	90	110				
Selenium	19.477	0.50	20.00	0	97.4	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
 Work Order: N069582
 Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020		Analysis Date: 11/1/2024	SeqNo: 6282950						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.848	0.10	20.00	0	94.2	90	110				
Manganese	19.526	0.50	20.00	0	97.6	90	110				
Molybdenum	18.498	0.50	20.00	0	92.5	90	110				
Selenium	18.094	0.50	20.00	0	90.5	90	110				

Sample ID CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020		Analysis Date: 11/2/2024	SeqNo: 6282958						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.754	0.10	20.00	0	93.8	90	110				
Manganese	19.397	0.50	20.00	0	97.0	90	110				
Molybdenum	18.124	0.50	20.00	0	90.6	90	110				
Selenium	18.689	0.50	20.00	0	93.4	90	110				

Sample ID CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020		Analysis Date: 11/2/2024	SeqNo: 6282969						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	17.972	0.10	20.00	0	89.9	90	110				S
Manganese	19.458	0.50	20.00	0	97.3	90	110				
Molybdenum	18.722	0.50	20.00	0	93.6	90	110				
Selenium	19.333	0.50	20.00	0	96.7	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020		Analysis Date: 11/2/2024	SeqNo: 6282980						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.346	0.10	20.00	0	91.7	90	110				
Manganese	19.280	0.50	20.00	0	96.4	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

% Rec of As in several IQCS failed. However, As is reported at run number 195177 and 195287

[Signature] 12/3/2024

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282980							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	18.837	0.50	20.00	0	94.2	90	110				
Selenium	18.927	0.50	20.00	0	94.6	90	110				

Sample ID CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282991							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	17.778	0.10	20.00	0	88.9	90	110				S
Manganese	19.155	0.50	20.00	0	95.8	90	110				
Molybdenum	18.902	0.50	20.00	0	94.5	90	110				
Selenium	19.058	0.50	20.00	0	95.3	90	110				

Sample ID CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282997							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.605	0.10	20.00	0	93.0	90	110				
Manganese	19.265	0.50	20.00	0	96.3	90	110				
Molybdenum	18.826	0.50	20.00	0	94.1	90	110				
Selenium	19.176	0.50	20.00	0	95.9	90	110				

Sample ID CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6283010							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	17.866	0.10	20.00	0	89.3	90	110				S
Manganese	19.172	0.50	20.00	0	95.9	90	110				
Molybdenum	18.900	0.50	20.00	0	94.5	90	110				
Selenium	19.791	0.50	20.00	0	99.0	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV8	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6283021							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	17.322	0.10	20.00	0	86.6	90	110				S
Manganese	19.055	0.50	20.00	0	95.3	90	110				
Molybdenum	18.872	0.50	20.00	0	94.4	90	110				
Selenium	18.755	0.50	20.00	0	93.8	90	110				

Sample ID CCV9	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6283028							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.453	0.10	20.00	0	92.3	90	110				
Manganese	19.344	0.50	20.00	0	96.7	90	110				
Molybdenum	18.798	0.50	20.00	0	94.0	90	110				
Selenium	18.928	0.50	20.00	0	94.6	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/3/2024	SeqNo: 6285974							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.646	0.10	10.00	0	96.5	90	110				
Manganese	95.762	0.50	100.0	0	95.8	90	110				
Molybdenum	9.511	0.50	10.00	0	95.1	90	110				
Selenium	9.675	0.50	10.00	0	96.8	90	110				

Sample ID LLCCV2	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ZZZZZ	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285974							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.118	0.10	0.1000	0	118	80	120				
Manganese	0.521	0.50	0.5000	0	104	80	120				
Molybdenum	0.474	0.50	0.5000	0	94.8	80	120				
Selenium	0.532	0.50	0.5000	0	106	80	120				

Sample ID MLCCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285978							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.692	0.10	20.00	0	93.5	90	110				
Manganese	20.181	0.50	20.00	0	101	90	110				
Molybdenum	18.482	0.50	20.00	0	92.4	90	110				
Selenium	18.785	0.50	20.00	0	93.9	90	110				

Sample ID CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285988							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.225	0.10	20.00	0	91.1	90	110				
Manganese	19.677	0.50	20.00	0	98.4	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285988							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	18.394	0.50	20.00	0	92.0	90	110				
Selenium	18.785	0.50	20.00	0	93.9	90	110				

Sample ID CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286001							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.563	0.10	20.00	0	92.8	90	110				
Manganese	19.361	0.50	20.00	0	96.8	90	110				
Molybdenum	19.358	0.50	20.00	0	96.8	90	110				
Selenium	19.054	0.50	20.00	0	95.3	90	110				

Sample ID CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286012							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.431	0.10	20.00	0	92.2	90	110				
Manganese	19.116	0.50	20.00	0	95.6	90	110				
Molybdenum	19.177	0.50	20.00	0	95.9	90	110				
Selenium	18.005	0.50	20.00	0	90.0	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286024							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.233	0.10	20.00	0	96.2	90	110				
Manganese	18.981	0.50	20.00	0	94.9	90	110				
Molybdenum	19.434	0.50	20.00	0	97.2	90	110				
Selenium	18.278	0.50	20.00	0	91.4	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286037							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.118	0.10	20.00	0	95.6	90	110				
Manganese	19.540	0.50	20.00	0	97.7	90	110				
Molybdenum	19.403	0.50	20.00	0	97.0	90	110				
Selenium	18.290	0.50	20.00	0	91.4	90	110				

Sample ID CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286048							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.712	0.10	20.00	0	93.6	90	110				
Manganese	19.301	0.50	20.00	0	96.5	90	110				
Molybdenum	19.474	0.50	20.00	0	97.4	90	110				
Selenium	19.351	0.50	20.00	0	96.8	90	110				

Sample ID CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286059							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.263	0.10	20.00	0	96.3	90	110				
Manganese	19.240	0.50	20.00	0	96.2	90	110				
Molybdenum	19.180	0.50	20.00	0	95.9	90	110				
Selenium	18.437	0.50	20.00	0	92.2	90	110				

Sample ID CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286068							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.836	0.10	20.00	0	94.2	90	110				
Manganese	19.354	0.50	20.00	0	96.8	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286068							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	19.434	0.50	20.00	0	97.2	90	110				
Selenium	19.051	0.50	20.00	0	95.3	90	110				

Sample ID CCV8	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286081							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.621	0.10	20.00	0	98.1	90	110				
Manganese	19.331	0.50	20.00	0	96.7	90	110				
Molybdenum	19.364	0.50	20.00	0	96.8	90	110				
Selenium	18.775	0.50	20.00	0	93.9	90	110				

Sample ID CCV9	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286092							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.463	0.10	20.00	0	97.3	90	110				
Manganese	18.952	0.50	20.00	0	94.8	90	110				
Molybdenum	19.617	0.50	20.00	0	98.1	90	110				
Selenium	18.590	0.50	20.00	0	93.0	90	110				

Sample ID CCV10	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286097							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.781	0.10	20.00	0	93.9	90	110				
Manganese	19.204	0.50	20.00	0	96.0	90	110				
Molybdenum	19.533	0.50	20.00	0	97.7	90	110				
Selenium	19.420	0.50	20.00	0	97.1	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV11	SampType: CCV	TestCode: 6020_DIS_TP Units: µg/L				Prep Date:			RunNo: 195177		
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020				Analysis Date: 11/4/2024			SeqNo: 6286108		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.199	0.10	20.00	0	91.0	90	110				
Manganese	18.873	0.50	20.00	0	94.4	90	110				
Molybdenum	19.438	0.50	20.00	0	97.2	90	110				
Selenium	19.082	0.50	20.00	0	95.4	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ICV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293418							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.899	0.10	10.00	0	99.0	90	110				
Manganese	97.561	0.50	100.0	0	97.6	90	110				

Sample ID LLCCV2	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ZZZZZ	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293421							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.086	0.10	0.1000	0	86.5	80	120				
Manganese	0.533	0.50	0.5000	0	107	80	120				

Sample ID MLCCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293422							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.468	0.10	20.00	0	97.3	90	110				
Manganese	19.463	0.50	20.00	0	97.3	90	110				

Sample ID CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293432							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.267	0.10	20.00	0	96.3	90	110				
Manganese	19.436	0.50	20.00	0	97.2	90	110				

Sample ID CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293443							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.047	0.10	20.00	0	100	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293443							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	19.182	0.50	20.00	0	95.9	90	110				
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Sample ID CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293454							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.611	0.10	20.00	0	98.1	90	110				
Manganese	19.356	0.50	20.00	0	96.8	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293465							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.357	0.10	20.00	0	96.8	90	110				
Manganese	19.396	0.50	20.00	0	97.0	90	110				

Sample ID CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293476							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.359	0.10	20.00	0	96.8	90	110				
Manganese	19.330	0.50	20.00	0	96.6	90	110				

Sample ID CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293481							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.564	0.10	20.00	0	97.8	90	110				
Manganese	20.089	0.50	20.00	0	100	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293494							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.544	0.10	20.00	0	97.7	90	110				
Manganese	18.960	0.50	20.00	0	94.8	90	110				

Sample ID CCV8	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293506							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.604	0.10	20.00	0	98.0	90	110				
Manganese	19.183	0.50	20.00	0	95.9	90	110				

Sample ID CCV9	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293518							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.830	0.10	20.00	0	94.1	90	110				
Manganese	19.544	0.50	20.00	0	97.7	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ICV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/3/2024	SeqNo: 6286829							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.773	1.0	10.00	0	97.7	90	110				

Sample ID LLCCV2	SampType: CCV1	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ZZZZZ	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286832							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	0.978	1.0	1.000	0	97.8	80	120				

Sample ID MLCCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286833							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.221	1.0	20.00	0	96.1	90	110				

Sample ID CCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286843							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.377	1.0	20.00	0	96.9	90	110				

Sample ID CCV2	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286856							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.614	1.0	20.00	0	93.1	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCV3	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286867							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.501	1.0	20.00	0	92.5	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286879							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.540	1.0	20.00	0	92.7	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286892							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.121	1.0	20.00	0	95.6	90	110				

Sample ID CCV5	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286903							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.914	1.0	20.00	0	94.6	90	110				

Sample ID CCV6	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286914							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.013	1.0	20.00	0	95.1	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCV7	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286923							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.225	1.0	20.00	0	96.1	90	110				

Sample ID CCV8	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286936							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.138	1.0	20.00	0	95.7	90	110				

Sample ID CCV9	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286947							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.393	1.0	20.00	0	92.0	90	110				

Sample ID CCV10	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286952							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.142	1.0	20.00	0	95.7	90	110				

Sample ID CCV11	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286963							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.693	1.0	20.00	0	93.5	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195298
Client ID: ICV	Batch ID: R195298	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6294163	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	9.991	1.0	10.00	0	99.9 90 110

Sample ID LLCCV2	SampType: CCV1	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195298
Client ID: ZZZZZ	Batch ID: R195298	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6294166	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	1.032	1.0	1.000	0	103 80 120

Sample ID MLCCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195298
Client ID: CCV	Batch ID: R195298	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6294167	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	19.581	1.0	20.00	0	97.9 90 110

Sample ID CCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195298
Client ID: CCV	Batch ID: R195298	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6294177	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	19.544	1.0	20.00	0	97.7 90 110

Sample ID CCV2	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195298
Client ID: CCV	Batch ID: R195298	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6294188	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	19.209	1.0	20.00	0	96.0 90 110

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCV3	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195298						
Client ID: CCV	Batch ID: R195298	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6294199							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.355	1.0	20.00	0	96.8	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195298						
Client ID: CCV	Batch ID: R195298	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6294210							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.075	1.0	20.00	0	95.4	90	110				

Sample ID CCV5	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195298						
Client ID: CCV	Batch ID: R195298	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6294221							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.276	1.0	20.00	0	96.4	90	110				

Sample ID CCV6	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195298						
Client ID: CCV	Batch ID: R195298	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6294226							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.556	1.0	20.00	0	97.8	90	110				

Sample ID CCV7	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195298						
Client ID: CCV	Batch ID: R195298	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6294239							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.698	1.0	20.00	0	93.5	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCV8	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195298						
Client ID: CCV	Batch ID: R195298	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6294251							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.055	1.0	20.00	0	95.3	90	110				

Sample ID CCV9	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195298						
Client ID: CCV	Batch ID: R195298	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6294263							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.844	1.0	20.00	0	94.2	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133
Client ID: ICB	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282937	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10			
Manganese	ND	0.50			
Molybdenum	ND	0.50			
Selenium	ND	0.50			

Sample ID CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133
Client ID: CCB	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282951	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10			
Manganese	ND	0.50			
Molybdenum	ND	0.50			
Selenium	ND	0.50			

Sample ID CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133
Client ID: CCB	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282959	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10			
Manganese	ND	0.50			
Molybdenum	ND	0.50			
Selenium	ND	0.50			

Sample ID CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133
Client ID: CCB	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282970	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10			
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCB	Batch ID: R195133	TestNo: EPA 6020		Analysis Date: 11/2/2024	SeqNo: 6282970						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCB	Batch ID: R195133	TestNo: EPA 6020		Analysis Date: 11/2/2024	SeqNo: 6282981						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCB	Batch ID: R195133	TestNo: EPA 6020		Analysis Date: 11/2/2024	SeqNo: 6282992						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	0.066	0.50									
Selenium	ND	0.50									

Sample ID CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCB	Batch ID: R195133	TestNo: EPA 6020		Analysis Date: 11/2/2024	SeqNo: 6282998						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCB	Batch ID: R195133	TestNo: EPA 6020		Analysis Date: 11/2/2024	SeqNo: 6282998						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Selenium	ND	0.50									
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Sample ID CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCB	Batch ID: R195133	TestNo: EPA 6020		Analysis Date: 11/2/2024	SeqNo: 6283011						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCB	Batch ID: R195133	TestNo: EPA 6020		Analysis Date: 11/2/2024	SeqNo: 6283022						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	0.068	0.50									
Selenium	ND	0.50									

Sample ID CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCB	Batch ID: R195133	TestNo: EPA 6020		Analysis Date: 11/2/2024	SeqNo: 6283029						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177
Client ID: ICB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/3/2024	SeqNo: 6285975	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Manganese	ND	0.50			
Molybdenum	ND	0.50			
Selenium	ND	0.50			

Sample ID CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285989	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Manganese	ND	0.50			
Molybdenum	ND	0.50			
Selenium	ND	0.50			

Sample ID CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286002	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Manganese	ND	0.50			
Molybdenum	ND	0.50			
Selenium	ND	0.50			

Sample ID CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286013	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Manganese	ND	0.50			

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286013	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Molybdenum	ND	0.50			
Selenium	ND	0.50			

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286025	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Manganese	ND	0.50			
Molybdenum	ND	0.50			
Selenium	ND	0.50			

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286038	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Manganese	ND	0.50			
Molybdenum	ND	0.50			
Selenium	ND	0.50			

Sample ID CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286049	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Manganese	ND	0.50			
Molybdenum	ND	0.50			
Selenium	ND	0.50			

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286060						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286069						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286082						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286093						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286093	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Molybdenum	ND	0.50			
Selenium	ND	0.50			

Sample ID CCB10	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286098	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Manganese	ND	0.50			
Molybdenum	ND	0.50			
Selenium	ND	0.50			

Sample ID CCB11	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286109	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Manganese	ND	0.50			
Molybdenum	ND	0.50			
Selenium	ND	0.50			

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: ICB	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293419	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic
Manganese

ND 0.10
ND 0.50

Sample ID CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293433	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic
Manganese

ND 0.10
ND 0.50

Sample ID CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293444	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic
Manganese

ND 0.10
ND 0.50

Sample ID CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293455	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic
Manganese

ND 0.10
ND 0.50

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293466	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic

ND 0.10

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293466	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese	ND	0.50									
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Sample ID CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293477	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293482	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293495	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293507	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/6/2024	SeqNo: 6293519						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020DIS_CrP Units: µg/L					Prep Date:	RunNo: 195188			
Client ID: ICB	Batch ID: R195188	TestNo: EPA 6020					Analysis Date: 11/3/2024	SeqNo: 6286830			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID CCB1	SampType: CCB	TestCode: 6020DIS_CrP Units: µg/L					Prep Date:	RunNo: 195188			
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020					Analysis Date: 11/4/2024	SeqNo: 6286844			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID CCB2	SampType: CCB	TestCode: 6020DIS_CrP Units: µg/L					Prep Date:	RunNo: 195188			
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020					Analysis Date: 11/4/2024	SeqNo: 6286857			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID CCB3	SampType: CCB	TestCode: 6020DIS_CrP Units: µg/L					Prep Date:	RunNo: 195188			
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020					Analysis Date: 11/4/2024	SeqNo: 6286868			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID CCB4	SampType: CCB	TestCode: 6020DIS_CrP Units: µg/L					Prep Date:	RunNo: 195188			
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020					Analysis Date: 11/4/2024	SeqNo: 6286880			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCB4	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286893	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	ND	1.0			

Sample ID CCB5	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286904	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	ND	1.0			

Sample ID CCB6	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286915	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	ND	1.0			

Sample ID CCB7	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286924	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	ND	1.0			

Sample ID CCB8	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286937	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	ND	1.0			

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCB9	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286948	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB10	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286953	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB11	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286964	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195298
Client ID: ICB	Batch ID: R195298	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6294164
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB1	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195298
Client ID: CCB	Batch ID: R195298	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6294178
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB2	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195298
Client ID: CCB	Batch ID: R195298	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6294189
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB3	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195298
Client ID: CCB	Batch ID: R195298	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6294200
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB4	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195298
Client ID: CCB	Batch ID: R195298	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6294211
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCB5	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195298
Client ID: CCB	Batch ID: R195298	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6294222
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB6	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195298
Client ID: CCB	Batch ID: R195298	TestNo: EPA 6020		Analysis Date: 11/6/2024	SeqNo: 6294227
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB7	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195298
Client ID: CCB	Batch ID: R195298	TestNo: EPA 6020		Analysis Date: 11/6/2024	SeqNo: 6294240
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB8	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195298
Client ID: CCB	Batch ID: R195298	TestNo: EPA 6020		Analysis Date: 11/6/2024	SeqNo: 6294252
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB9	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195298
Client ID: CCB	Batch ID: R195298	TestNo: EPA 6020		Analysis Date: 11/6/2024	SeqNo: 6294264
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



ASSET LABORATORIES
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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ICSA	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282942							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSA B1	SampType: ICSA B	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ICSA B	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282943							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.313	0.10	20.00	0	96.6	80	120				
Manganese	19.107	0.50	20.00	0	95.5	80	120				
Molybdenum	19.050	0.50	20.00	0	95.2	80	120				
Selenium	19.334	0.50	20.00	0	96.7	80	120				

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ICSA	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282952							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSA B2	SampType: ICSA B	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ICSA B	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282953							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.116	0.10	20.00	0	95.6	80	120				
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSAB2	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ICSAB	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282953							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	19.440	0.50	20.00	0	97.2	80	120				
Molybdenum	18.914	0.50	20.00	0	94.6	80	120				
Selenium	19.276	0.50	20.00	0	96.4	80	120				

Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ICSA	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282999							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSAB3	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ICSAB	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6283000							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.380	0.10	20.00	0	91.9	80	120				
Manganese	19.026	0.50	20.00	0	95.1	80	120				
Molybdenum	19.126	0.50	20.00	0	95.6	80	120				
Selenium	19.719	0.50	20.00	0	98.6	80	120				

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ICSA	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6283030							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ICSA	Batch ID: R195133	TestNo: EPA 6020		Analysis Date: 11/2/2024	SeqNo: 6283030						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Selenium	ND	0.50
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Sample ID ICSAB4	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ICSAB	Batch ID: R195133	TestNo: EPA 6020		Analysis Date: 11/2/2024	SeqNo: 6283031						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	18.565	0.10	20.00	0	92.8	80	120
Manganese	18.787	0.50	20.00	0	93.9	80	120
Molybdenum	19.354	0.50	20.00	0	96.8	80	120
Selenium	19.453	0.50	20.00	0	97.3	80	120

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285980							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285981							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.262	0.10	20.00	0	96.3	80	120				
Manganese	19.789	0.50	20.00	0	98.9	80	120				
Molybdenum	19.059	0.50	20.00	0	95.3	80	120				
Selenium	18.977	0.50	20.00	0	94.9	80	120				

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285990							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285991							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.187	0.10	20.00	0	95.9	80	120				
Manganese	19.169	0.50	20.00	0	95.8	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSAB2	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSAB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285991							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	19.160	0.50	20.00	0	95.8	80	120				
Selenium	18.989	0.50	20.00	0	94.9	80	120				

Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286026							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSAB3	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSAB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286027							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	17.976	0.10	20.00	0	89.9	80	120				
Manganese	19.029	0.50	20.00	0	95.1	80	120				
Molybdenum	19.078	0.50	20.00	0	95.4	80	120				
Selenium	18.431	0.50	20.00	0	92.2	80	120				

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286070							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSAB4	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSAB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286071							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.648	0.10	20.00	0	93.2	80	120				
Manganese	19.103	0.50	20.00	0	95.5	80	120				
Molybdenum	18.924	0.50	20.00	0	94.6	80	120				
Selenium	18.371	0.50	20.00	0	91.9	80	120				

Sample ID ICSA5	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286110							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSAB5	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSAB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286111							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.729	0.10	20.00	0	93.6	80	120				
Manganese	19.371	0.50	20.00	0	96.9	80	120				
Molybdenum	19.005	0.50	20.00	0	95.0	80	120				
Selenium	19.510	0.50	20.00	0	97.5	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293423	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10								
Manganese	ND	0.50								

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293423	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	19.505	0.10	20.00	0	97.5	80	120			
Manganese	19.812	0.50	20.00	0	99.1	80	120			

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293434	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10								
Manganese	ND	0.50								

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293435	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	19.198	0.10	20.00	0	96.0	80	120			
Manganese	19.720	0.50	20.00	0	98.6	80	120			

Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293483	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10								
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293483	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese	ND	0.50									
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Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293483	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	20.398	0.10	20.00	0	102	80	120				
Manganese	19.958	0.50	20.00	0	99.8	80	120				

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293520	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293521	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	18.844	0.10	20.00	0	94.2	80	120				
Manganese	19.951	0.50	20.00	0	99.8	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286835	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0									
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Sample ID ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286835	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	19.496	1.0	20.00	0	97.5	80	120				
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Sample ID ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286845	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0									
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Sample ID ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286846	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	19.363	1.0	20.00	0	96.8	80	120				
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Sample ID ICSA3	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286881	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICSAB3	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ICSAB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286882	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	18.565	1.0	20.00	0	92.8 80 120

Sample ID ICSA4	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286925	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	ND	1.0			

Sample ID ICSAB4	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ICSAB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286926	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	18.601	1.0	20.00	0	93.0 80 120

Sample ID ICSA5	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286965	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	ND	1.0			

Sample ID ICSAB5	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ICSAB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286966	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	18.868	1.0	20.00	0	94.3 80 120

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195298
Client ID: ICSA	Batch ID: R195298	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6294168	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0									
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Sample ID ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195298
Client ID: ICSA	Batch ID: R195298	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6294168	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	19.360	1.0	20.00	0	96.8	80	120				
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Sample ID ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195298
Client ID: ICSA	Batch ID: R195298	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6294179	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0									
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Sample ID ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195298
Client ID: ICSA	Batch ID: R195298	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6294180	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	19.807	1.0	20.00	0	99.0	80	120				
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Sample ID ICSA3	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195298
Client ID: ICSA	Batch ID: R195298	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6294228	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0									
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICSAB3	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195298						
Client ID: ICSAB	Batch ID: R195298	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6294229							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.434	1.0	20.00	0	97.2	80	120				

Sample ID ICSA4	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195298						
Client ID: ICSA	Batch ID: R195298	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6294265							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID ICSAB4	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195298						
Client ID: ICSAB	Batch ID: R195298	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6294266							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.293	1.0	20.00	0	96.5	80	120				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

INTERNAL STANDARD SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INTERNAL STANDARD: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	45 Sc (ISTD) [2]					72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	30750.5	30750.5	100	PASS	30-150	17199.1	17199.1	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	30550.1	30750.5	99.35	PASS	30-150	17383.7	17199.1	101.07	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	30119.4	30750.5	97.95	PASS	30-150	17099	17199.1	99.42	PASS	30-150
Std3-5/50 ppb	ICAL	1	30091.5	30750.5	97.86	PASS	30-150	17053.4	17199.1	99.15	PASS	30-150
Std4-10/100 ppb	ICAL	1	29964.6	30750.5	97.44	PASS	30-150	16748.6	17199.1	97.38	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	30468.9	30750.5	99.08	PASS	30-150	16859.8	17199.1	98.03	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	30167.2	30750.5	98.1	PASS	30-150	16586.2	17199.1	96.44	PASS	30-150
Std7-100/1000 ppb	ICAL	1	28974	30750.5	94.22	PASS	30-150	16517.2	17199.1	96.04	PASS	30-150
Std8-200/2000 ppb	ICAL	1	28449.8	30750.5	92.52	PASS	30-150	15996.8	17199.1	93.01	PASS	30-150
ICV	ICV	1	29290.1	30750.5	95.25	PASS	30-150	16673	17199.1	96.94	PASS	30-150
ICB	ICB	1	29825.5	30750.5	96.99	PASS	30-150	16804.2	17199.1	97.7	PASS	30-150
LLCCV1	CCV1	1	29663	30750.5	96.46	PASS	30-150	16598.4	17199.1	96.51	PASS	30-150
LLCCV1	CCV1	1	29506	30750.5	95.95	PASS	30-150	16759.7	17199.1	97.45	PASS	30-150
MLCCV1	CCV	1	29745.4	30750.5	96.73	PASS	30-150	16531.7	17199.1	96.12	PASS	30-150
ICSA1	ICSA	1	30173.9	30750.5	98.12	PASS	30-150	16271.5	17199.1	94.61	PASS	30-150
ICSA1	ICSA	1	31781.3	30750.5	103.35	PASS	30-150	17651.8	17199.1	102.63	PASS	30-150
ICSAB1	ICSAB	1	31837	30750.5	103.53	PASS	30-150	17605.1	17199.1	102.36	PASS	30-150
CCV1	CCV	1	29829.9	30750.5	97.01	PASS	30-150	17122.3	17199.1	99.55	PASS	30-150
CCB1	CCB	1	29388	30750.5	95.57	PASS	30-150	17002.2	17199.1	98.86	PASS	30-150
ICSA2	ICSA	1	29335.7	30750.5	95.4	PASS	30-150	16799.8	17199.1	97.68	PASS	30-150
ICSAB2	ICSAB	1	29310.2	30750.5	95.32	PASS	30-150	17048.9	17199.1	99.13	PASS	30-150
CCV2	CCV	1	28762.5	30750.5	93.54	PASS	30-150	16337.1	17199.1	94.99	PASS	30-150
CCB2	CCB	1	27768.7	30750.5	90.3	PASS	30-150	15821	17199.1	91.99	PASS	30-150
CCV3	CCV	1	32384.7	30750.5	105.31	PASS	30-150	18001	17199.1	104.66	PASS	30-150
CCB3	CCB	1	31519.7	30750.5	102.5	PASS	30-150	17885.4	17199.1	103.99	PASS	30-150
CCV4	CCV	1	30756.1	30750.5	100.02	PASS	30-150	17333.7	17199.1	100.78	PASS	30-150
CCB4	CCB	1	30394.3	30750.5	98.84	PASS	30-150	17205.7	17199.1	100.04	PASS	30-150
CCV5	CCV	1	31549.8	30750.5	102.6	PASS	30-150	17848.7	17199.1	103.78	PASS	30-150
CCB5	CCB	1	30885.2	30750.5	100.44	PASS	30-150	17832	17199.1	103.68	PASS	30-150
CCV6	CCV	1	30963.1	30750.5	100.69	PASS	30-150	17563.9	17199.1	102.12	PASS	30-150
CCB6	CCB	1	29991.3	30750.5	97.53	PASS	30-150	17032.2	17199.1	99.03	PASS	30-150
ICSA3	ICSA	1	30671.4	30750.5	99.74	PASS	30-150	17340.3	17199.1	100.82	PASS	30-150
ICSAB3	ICSAB	1	30025.8	30750.5	97.64	PASS	30-150	17185.7	17199.1	99.92	PASS	30-150
MB-113746	MBLK	1	28546.7	30750.5	92.83	PASS	30-150	16419.4	17199.1	95.47	PASS	30-150
LCS-113746	LCS	1	28741.4	30750.5	93.47	PASS	30-150	16548.4	17199.1	96.22	PASS	30-150
N069542-001B	SAMP	1	24462.4	30750.5	79.55	PASS	30-150	13782.5	17199.1	80.14	PASS	30-150
N069542-002B	SAMP	1	25182.4	30750.5	81.89	PASS	30-150	13828.1	17199.1	80.4	PASS	30-150
N069542-003B	SAMP	1	24515.8	30750.5	79.72	PASS	30-150	13780.3	17199.1	80.12	PASS	30-150
N069582-002B	SAMP	1	21997.8	30750.5	71.54	PASS	30-150	12136.8	17199.1	70.57	PASS	30-150
N069582-003B	SAMP	1	27391.4	30750.5	89.08	PASS	30-150	15290.5	17199.1	88.9	PASS	30-150
N069582-004B	SAMP	1	27238.9	30750.5	88.58	PASS	30-150	15313.9	17199.1	89.04	PASS	30-150

INTERNAL STANDARD: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	45 Sc (ISTD) [2]					72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
N069582-005B	SAMP	1	24685	30750.5	80.28	PASS	30-150	13594.6	17199.1	79.04	PASS	30-150
CCV7	CCV	1	28826	30750.5	93.74	PASS	30-150	16475	17199.1	95.79	PASS	30-150
CCB7	CCB	1	28323	30750.5	92.11	PASS	30-150	16328.2	17199.1	94.94	PASS	30-150
N069582-006B	SAMP	1	23515.5	30750.5	76.47	PASS	30-150	13179.8	17199.1	76.63	PASS	30-150
N069583-001B	SAMP	1	27363.5	30750.5	88.99	PASS	30-150	15535.2	17199.1	90.33	PASS	30-150
N069583-002B	SAMP	1	25213.5	30750.5	81.99	PASS	30-150	14351.9	17199.1	83.45	PASS	30-150
N069583-003B	SAMP	1	24123	30750.5	78.45	PASS	30-150	13446.7	17199.1	78.18	PASS	30-150
N069583-003B	SAMP	5	27386.9	30750.5	89.06	PASS	30-150	15537.4	17199.1	90.34	PASS	30-150
N069583-003B-PS	PS	1	24288.8	30750.5	78.99	PASS	30-150	13465.6	17199.1	78.29	PASS	30-150
N069583-003BMS	MS	1	25807.7	30750.5	83.93	PASS	30-150	14210.6	17199.1	82.62	PASS	30-150
N069583-003BMSD	MSD	1	25675.3	30750.5	83.5	PASS	30-150	13997.1	17199.1	81.38	PASS	30-150
N069583-004B	SAMP	1	24934.2	30750.5	81.09	PASS	30-150	13738	17199.1	79.88	PASS	30-150
CCV8	CCV	1	30013.6	30750.5	97.6	PASS	30-150	17446	17199.1	101.44	PASS	30-150
CCB8	CCB	1	29026.3	30750.5	94.39	PASS	30-150	16481.7	17199.1	95.83	PASS	30-150
N069583-006B	SAMP	1	26039.2	30750.5	84.68	PASS	30-150	15083.7	17199.1	87.7	PASS	30-150
N069583-008B	SAMP	1	23923.8	30750.5	77.8	PASS	30-150	13659.1	17199.1	79.42	PASS	30-150
N069583-009B	SAMP	1	22827.8	30750.5	74.24	PASS	30-150	12320.2	17199.1	71.63	PASS	30-150
N069583-010B	SAMP	1	20570.5	30750.5	66.89	PASS	30-150	11205	17199.1	65.15	PASS	30-150
N069585-001B	SAMP	1	28022.4	30750.5	91.13	PASS	30-150	16185.8	17199.1	94.11	PASS	30-150
CCV9	CCV	1	30059.2	30750.5	97.75	PASS	30-150	17117.9	17199.1	99.53	PASS	30-150
CCB9	CCB	1	29677.4	30750.5	96.51	PASS	30-150	17179.1	17199.1	99.88	PASS	30-150
ICSA4	ICSA	1	29351.3	30750.5	95.45	PASS	30-150	16805.3	17199.1	97.71	PASS	30-150
ICSAB4	ICSAB	1	29635.1	30750.5	96.37	PASS	30-150	16976.6	17199.1	98.71	PASS	30-150

INTERNAL STANDARD: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [1]					103 Rh (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	62044.8	62044.8	100	PASS	30-150	473624.3	473624.3	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	61865.3	62044.8	99.71	PASS	30-150	470369.7	473624.3	99.31	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	61219.4	62044.8	98.67	PASS	30-150	467022.8	473624.3	98.61	PASS	30-150
Std3-5/50 ppb	ICAL	1	61029.9	62044.8	98.36	PASS	30-150	467887.7	473624.3	98.79	PASS	30-150
Std4-10/100 ppb	ICAL	1	61363.3	62044.8	98.9	PASS	30-150	464006	473624.3	97.97	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	61225.1	62044.8	98.68	PASS	30-150	463543.8	473624.3	97.87	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	60591.6	62044.8	97.66	PASS	30-150	458018	473624.3	96.7	PASS	30-150
Std7-100/1000 ppb	ICAL	1	58450.6	62044.8	94.21	PASS	30-150	452543.8	473624.3	95.55	PASS	30-150
Std8-200/2000 ppb	ICAL	1	56620.9	62044.8	91.26	PASS	30-150	436771.3	473624.3	92.22	PASS	30-150
ICV	ICV	1	60744.4	62044.8	97.9	PASS	30-150	459583.3	473624.3	97.04	PASS	30-150
ICB	ICB	1	60794.5	62044.8	97.98	PASS	30-150	462442	473624.3	97.64	PASS	30-150
LLCCV1	CCV1	1	59880.2	62044.8	96.51	PASS	30-150	464288.9	473624.3	98.03	PASS	30-150
LLCCV1	CCV1	1	60161.2	62044.8	96.96	PASS	30-150	459609.1	473624.3	97.04	PASS	30-150
MLCCV1	CCV	1	60341.8	62044.8	97.26	PASS	30-150	461640.2	473624.3	97.47	PASS	30-150
ICSA1	ICSA	1	57259.7	62044.8	92.29	PASS	30-150	415090	473624.3	87.64	PASS	30-150
ICSA1	ICSA	1	63268.3	62044.8	101.97	PASS	30-150	478548	473624.3	101.04	PASS	30-150
ICSAB1	ICSAB	1	64087	62044.8	103.29	PASS	30-150	479430.7	473624.3	101.23	PASS	30-150
CCV1	CCV	1	60145.5	62044.8	96.94	PASS	30-150	465000.6	473624.3	98.18	PASS	30-150
CCB1	CCB	1	60414.3	62044.8	97.37	PASS	30-150	463639.6	473624.3	97.89	PASS	30-150
ICSA2	ICSA	1	59631.4	62044.8	96.11	PASS	30-150	464755.9	473624.3	98.13	PASS	30-150
ICSAB2	ICSAB	1	59723	62044.8	96.26	PASS	30-150	464970	473624.3	98.17	PASS	30-150
CCV2	CCV	1	55940.7	62044.8	90.16	PASS	30-150	443639.2	473624.3	93.67	PASS	30-150
CCB2	CCB	1	55526	62044.8	89.49	PASS	30-150	433984.3	473624.3	91.63	PASS	30-150
CCV3	CCV	1	62737.3	62044.8	101.12	PASS	30-150	459040.9	473624.3	96.92	PASS	30-150
CCB3	CCB	1	61750.2	62044.8	99.53	PASS	30-150	456800.9	473624.3	96.45	PASS	30-150
CCV4	CCV	1	59867.8	62044.8	96.49	PASS	30-150	434935.5	473624.3	91.83	PASS	30-150
CCB4	CCB	1	58661.3	62044.8	94.55	PASS	30-150	431058.1	473624.3	91.01	PASS	30-150
CCV5	CCV	1	60008.4	62044.8	96.72	PASS	30-150	442417	473624.3	93.41	PASS	30-150
CCB5	CCB	1	58796.2	62044.8	94.76	PASS	30-150	437725.4	473624.3	92.42	PASS	30-150
CCV6	CCV	1	59058.3	62044.8	95.19	PASS	30-150	434437.9	473624.3	91.73	PASS	30-150
CCB6	CCB	1	57459.3	62044.8	92.61	PASS	30-150	426394.3	473624.3	90.03	PASS	30-150
ICSA3	ICSA	1	57580.9	62044.8	92.81	PASS	30-150	438551	473624.3	92.59	PASS	30-150
ICSAB3	ICSAB	1	57266.5	62044.8	92.3	PASS	30-150	436002.4	473624.3	92.06	PASS	30-150
MB-113746	MBLK	1	55183.8	62044.8	88.94	PASS	30-150	414025.6	473624.3	87.42	PASS	30-150
LCS-113746	LCS	1	54057.8	62044.8	87.13	PASS	30-150	418417.7	473624.3	88.34	PASS	30-150
N069542-001B	SAMP	1	42330.2	62044.8	68.23	PASS	30-150	323509.3	473624.3	68.31	PASS	30-150
N069542-002B	SAMP	1	43039.8	62044.8	69.37	PASS	30-150	324890.9	473624.3	68.6	PASS	30-150
N069542-003B	SAMP	1	42528.4	62044.8	68.54	PASS	30-150	320433.7	473624.3	67.66	PASS	30-150
N069582-002B	SAMP	1	36231.1	62044.8	58.4	PASS	30-150	266974.8	473624.3	56.37	PASS	30-150
N069582-003B	SAMP	1	49453.3	62044.8	79.71	PASS	30-150	361524.8	473624.3	76.33	PASS	30-150
N069582-004B	SAMP	1	49813.3	62044.8	80.29	PASS	30-150	359890.6	473624.3	75.99	PASS	30-150

INTERNAL STANDARD: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [1]					103 Rh (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
N069582-005B	SAMP	1	42338	62044.8	68.24	PASS	30-150	315977.5	473624.3	66.71	PASS	30-150
CCV7	CCV	1	55052.2	62044.8	88.73	PASS	30-150	408934.4	473624.3	86.34	PASS	30-150
CCB7	CCB	1	53811.4	62044.8	86.73	PASS	30-150	409383.2	473624.3	86.44	PASS	30-150
N069582-006B	SAMP	1	38780.3	62044.8	62.5	PASS	30-150	297813.4	473624.3	62.88	PASS	30-150
N069583-001B	SAMP	1	50088.6	62044.8	80.73	PASS	30-150	374596.8	473624.3	79.09	PASS	30-150
N069583-002B	SAMP	1	44010.1	62044.8	70.93	PASS	30-150	327907.1	473624.3	69.23	PASS	30-150
N069583-003B	SAMP	1	41531.4	62044.8	66.94	PASS	30-150	309654.9	473624.3	65.38	PASS	30-150
N069583-003B	SAMP	5	48675.5	62044.8	78.45	PASS	30-150	364283.9	473624.3	76.91	PASS	30-150
N069583-003B-PS	PS	1	40992.3	62044.8	66.07	PASS	30-150	309293.4	473624.3	65.3	PASS	30-150
N069583-003BMS	MS	1	43877.5	62044.8	70.72	PASS	30-150	318899.4	473624.3	67.33	PASS	30-150
N069583-003BMSD	MSD	1	43064.2	62044.8	69.41	PASS	30-150	316795	473624.3	66.89	PASS	30-150
N069583-004B	SAMP	1	41757.5	62044.8	67.3	PASS	30-150	306589.7	473624.3	64.73	PASS	30-150
CCV8	CCV	1	56521.6	62044.8	91.1	PASS	30-150	416931.7	473624.3	88.03	PASS	30-150
CCB8	CCB	1	55135.8	62044.8	88.86	PASS	30-150	412229.6	473624.3	87.04	PASS	30-150
N069583-006B	SAMP	1	47454.1	62044.8	76.48	PASS	30-150	354868.5	473624.3	74.93	PASS	30-150
N069583-008B	SAMP	1	41657.3	62044.8	67.14	PASS	30-150	314968.1	473624.3	66.5	PASS	30-150
N069583-009B	SAMP	1	37269	62044.8	60.07	PASS	30-150	278278.3	473624.3	58.76	PASS	30-150
N069583-010B	SAMP	1	33096.8	62044.8	53.34	PASS	30-150	247054.2	473624.3	52.16	PASS	30-150
N069585-001B	SAMP	1	52016.8	62044.8	83.84	PASS	30-150	373125.7	473624.3	78.78	PASS	30-150
CCV9	CCV	1	57523.9	62044.8	92.71	PASS	30-150	424004.1	473624.3	89.52	PASS	30-150
CCB9	CCB	1	55618.6	62044.8	89.64	PASS	30-150	423989.8	473624.3	89.52	PASS	30-150
ICSA4	ICSA	1	55794.6	62044.8	89.93	PASS	30-150	420345.4	473624.3	88.75	PASS	30-150
ICSAB4	ICSAB	1	55699.9	62044.8	89.77	PASS	30-150	427899.1	473624.3	90.35	PASS	30-150

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	45 Sc (ISTD) [2]					72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	26765.9	26765.9	100	PASS	30-150	16330.4	16330.4	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	27294.5	26765.9	101.97	PASS	30-150	16444.9	16330.4	100.7	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	26996.3	26765.9	100.86	PASS	30-150	16499.4	16330.4	101.04	PASS	30-150
Std3-5/50 ppb	ICAL	1	27130.9	26765.9	101.36	PASS	30-150	16386	16330.4	100.34	PASS	30-150
Std4-10/100 ppb	ICAL	1	26916.1	26765.9	100.56	PASS	30-150	16102.4	16330.4	98.6	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	27340.1	26765.9	102.15	PASS	30-150	16486.1	16330.4	100.95	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	26553.3	26765.9	99.21	PASS	30-150	15896.7	16330.4	97.34	PASS	30-150
Std7-100/1000 ppb	ICAL	1	25875.6	26765.9	96.67	PASS	30-150	15498.5	16330.4	94.91	PASS	30-150
Std8-200/2000 ppb	ICAL	1	25225.7	26765.9	94.25	PASS	30-150	15186	16330.4	92.99	PASS	30-150
ICV	ICV	1	25439.4	26765.9	95.04	PASS	30-150	15547.4	16330.4	95.21	PASS	30-150
ICB	ICB	1	24627.1	26765.9	92.01	PASS	30-150	14906.8	16330.4	91.28	PASS	30-150
LLCCV1	CCV1	1	26190.5	26765.9	97.85	PASS	30-150	15984.5	16330.4	97.88	PASS	30-150
LLCCV2	CCV1	1	26673.5	26765.9	99.65	PASS	30-150	16202.5	16330.4	99.22	PASS	30-150
MLCCV1	CCV	1	26586.7	26765.9	99.33	PASS	30-150	16255.9	16330.4	99.54	PASS	30-150
ICSA1	ICSA	1	26764.8	26765.9	100	PASS	30-150	16071.3	16330.4	98.41	PASS	30-150
ICSA1	ICSA	1	26869.4	26765.9	100.39	PASS	30-150	16109.1	16330.4	98.64	PASS	30-150
ICSAB1	ICSAB	1	26735.9	26765.9	99.89	PASS	30-150	15932.2	16330.4	97.56	PASS	30-150
CCV1	CCV	1	26644.6	26765.9	99.55	PASS	30-150	16217	16330.4	99.31	PASS	30-150
CCB1	CCB	1	26461	26765.9	98.86	PASS	30-150	16017.9	16330.4	98.09	PASS	30-150
ICSA2	ICSA	1	26772.6	26765.9	100.03	PASS	30-150	16200.3	16330.4	99.2	PASS	30-150
ICSAB2	ICSAB	1	27142	26765.9	101.41	PASS	30-150	16095.7	16330.4	98.56	PASS	30-150
CCV2	CCV	1	31141.2	26765.9	116.35	PASS	30-150	18084.5	16330.4	110.74	PASS	30-150
CCB2	CCB	1	30647	26765.9	114.5	PASS	30-150	17948.8	16330.4	109.91	PASS	30-150
CCV3	CCV	1	30123.8	26765.9	112.55	PASS	30-150	17583.9	16330.4	107.68	PASS	30-150
CCB3	CCB	1	29699.7	26765.9	110.96	PASS	30-150	17972.1	16330.4	110.05	PASS	30-150
CCV4	CCV	1	31815.8	26765.9	118.87	PASS	30-150	18471.6	16330.4	113.11	PASS	30-150
CCB4	CCB	1	30662.5	26765.9	114.56	PASS	30-150	17793	16330.4	108.96	PASS	30-150
ICSA3	ICSA	1	30348.7	26765.9	113.39	PASS	30-150	17878.7	16330.4	109.48	PASS	30-150
ICSAB3	ICSAB	1	29474.9	26765.9	110.12	PASS	30-150	17414.9	16330.4	106.64	PASS	30-150
MB-113746	MBLK	1	28344	26765.9	105.9	PASS	30-150	17080	16330.4	104.59	PASS	30-150
LCS-113746	LCS	1	28873.9	26765.9	107.88	PASS	30-150	17393.8	16330.4	106.51	PASS	30-150
N069542-001B	SAMP	10	26632.4	26765.9	99.5	PASS	30-150	15766.5	16330.4	96.55	PASS	30-150
N069542-002B	SAMP	10	26493.2	26765.9	98.98	PASS	30-150	15812.1	16330.4	96.83	PASS	30-150
N069542-003B	SAMP	10	26264	26765.9	98.12	PASS	30-150	15762.1	16330.4	96.52	PASS	30-150
N069582-002B	SAMP	1	22441.8	26765.9	83.84	PASS	30-150	13145.3	16330.4	80.5	PASS	30-150
N069582-003B	SAMP	1	27262.3	26765.9	101.85	PASS	30-150	15906.7	16330.4	97.41	PASS	30-150
N069582-004B	SAMP	1	26730.3	26765.9	99.87	PASS	30-150	15796.6	16330.4	96.73	PASS	30-150
N069582-005B	SAMP	1	24669.4	26765.9	92.17	PASS	30-150	14209.5	16330.4	87.01	PASS	30-150
CCV4	CCV	1	28705.8	26765.9	107.25	PASS	30-150	17409.3	16330.4	106.61	PASS	30-150
CCB4	CCB	1	27766.4	26765.9	103.74	PASS	30-150	16869.8	16330.4	103.3	PASS	30-150
N069582-006B	SAMP	1	23301.9	26765.9	87.06	PASS	30-150	13691.3	16330.4	83.84	PASS	30-150

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	45 Sc (ISTD) [2]					72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
N069583-001B	SAMP	1	27068.6	26765.9	101.13	PASS	30-150	15710.9	16330.4	96.21	PASS	30-150
N069583-001B	SAMP	10	26950.6	26765.9	100.69	PASS	30-150	15940	16330.4	97.61	PASS	30-150
N069583-002B	SAMP	1	24474.6	26765.9	91.44	PASS	30-150	14195.1	16330.4	86.92	PASS	30-150
N069583-002B	SAMP	10	26385.3	26765.9	98.58	PASS	30-150	15798.8	16330.4	96.74	PASS	30-150
N069583-003B	SAMP	1	23392	26765.9	87.39	PASS	30-150	13640.2	16330.4	83.53	PASS	30-150
N069583-003B	SAMP	5	26834.9	26765.9	100.26	PASS	30-150	15243.8	16330.4	93.35	PASS	30-150
N069583-003B	SAMP	10	26443.1	26765.9	98.79	PASS	30-150	15505.2	16330.4	94.95	PASS	30-150
N069583-003B	SAMP	50	26402	26765.9	98.64	PASS	30-150	15891.1	16330.4	97.31	PASS	30-150
CCV5	CCV	1	27696.3	26765.9	103.48	PASS	30-150	16845.4	16330.4	103.15	PASS	30-150
CCB5	CCB	1	26584.5	26765.9	99.32	PASS	30-150	16214.7	16330.4	99.29	PASS	30-150
N069583-003B-PS	PS	1	22727.7	26765.9	84.91	PASS	30-150	13257.6	16330.4	81.18	PASS	30-150
N069583-003B-PS	PS	10	25917.9	26765.9	96.83	PASS	30-150	15466.2	16330.4	94.71	PASS	30-150
N069583-003BMS	MS	1	23613.3	26765.9	88.22	PASS	30-150	13589	16330.4	83.21	PASS	30-150
N069583-003BMS	MS	10	26488.8	26765.9	98.96	PASS	30-150	15922.2	16330.4	97.5	PASS	30-150
N069583-003BMSD	MSD	1	23989.5	26765.9	89.63	PASS	30-150	13590.1	16330.4	83.22	PASS	30-150
N069583-003BMSD	MSD	10	26974	26765.9	100.78	PASS	30-150	15921.1	16330.4	97.49	PASS	30-150
N069583-004B	SAMP	1	23405.3	26765.9	87.44	PASS	30-150	13495.6	16330.4	82.64	PASS	30-150
N069583-004B	SAMP	10	26481	26765.9	98.94	PASS	30-150	15764.3	16330.4	96.53	PASS	30-150
N069583-006B	SAMP	1	25490.6	26765.9	95.24	PASS	30-150	14819	16330.4	90.74	PASS	30-150
CCV6	CCV	1	26998.5	26765.9	100.87	PASS	30-150	15974.5	16330.4	97.82	PASS	30-150
CCB6	CCB	1	26378.6	26765.9	98.55	PASS	30-150	16074.6	16330.4	98.43	PASS	30-150
N069583-008B	SAMP	1	23248.4	26765.9	86.86	PASS	30-150	13763.6	16330.4	84.28	PASS	30-150
N069583-008B	SAMP	10	25723.1	26765.9	96.1	PASS	30-150	15129.3	16330.4	92.65	PASS	30-150
N069583-009B	SAMP	1	22366.1	26765.9	83.56	PASS	30-150	12722.8	16330.4	77.91	PASS	30-150
N069583-009B	SAMP	10	26446.5	26765.9	98.81	PASS	30-150	15717.6	16330.4	96.25	PASS	30-150
N069583-010B	SAMP	1	21209	26765.9	79.24	PASS	30-150	11849.9	16330.4	72.56	PASS	30-150
N069583-010B	SAMP	100	28033.5	26765.9	104.74	PASS	30-150	16640.7	16330.4	101.9	PASS	30-150
N069585-001B	SAMP	1	27670.7	26765.9	103.38	PASS	30-150	16446.1	16330.4	100.71	PASS	30-150
CCV7	CCV	1	28511	26765.9	106.52	PASS	30-150	16984.4	16330.4	104	PASS	30-150
CCB7	CCB	1	27431.4	26765.9	102.49	PASS	30-150	16408.3	16330.4	100.48	PASS	30-150
ICSA4	ICSA	1	27096.4	26765.9	101.23	PASS	30-150	16159.1	16330.4	98.95	PASS	30-150
ICSAB4	ICSAB	1	26741.4	26765.9	99.91	PASS	30-150	15827.7	16330.4	96.92	PASS	30-150
CCV8	CCV	1	27671.8	26765.9	103.38	PASS	30-150	16861	16330.4	103.25	PASS	30-150
CCB8	CCB	1	26714.7	26765.9	99.81	PASS	30-150	15987.9	16330.4	97.9	PASS	30-150
CCV9	CCV	1	30216.2	26765.9	112.89	PASS	30-150	17377	16330.4	106.41	PASS	30-150
CCB9	CCB	1	28827.1	26765.9	107.7	PASS	30-150	17262.5	16330.4	105.71	PASS	30-150
CCV10	CCV	1	28712.4	26765.9	107.27	PASS	30-150	17232.4	16330.4	105.52	PASS	30-150
CCB10	CCB	1	27744.2	26765.9	103.66	PASS	30-150	16481.7	16330.4	100.93	PASS	30-150
CCV11	CCV	1	27636.2	26765.9	103.25	PASS	30-150	16592.9	16330.4	101.61	PASS	30-150
CCB11	CCB	1	26505.5	26765.9	99.03	PASS	30-150	15954.5	16330.4	97.7	PASS	30-150
ICSA5	ICSA	1	26799.3	26765.9	100.12	PASS	30-150	15833.3	16330.4	96.96	PASS	30-150

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	45 Sc (ISTD) [2]					72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
ICSAB5	ICSAB	1	25436	26765.9	95.03	PASS	30-150	15496.3	16330.4	94.89	PASS	30-150

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	53422.4	53422.4	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	53779.1	53422.4	100.67	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	53060.1	53422.4	99.32	PASS	30-150
Std3-5/50 ppb	ICAL	1	52838.3	53422.4	98.91	PASS	30-150
Std4-10/100 ppb	ICAL	1	53216.2	53422.4	99.61	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	53129.2	53422.4	99.45	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	52707.8	53422.4	98.66	PASS	30-150
Std7-100/1000 ppb	ICAL	1	51282.2	53422.4	95.99	PASS	30-150
Std8-200/2000 ppb	ICAL	1	49004.1	53422.4	91.73	PASS	30-150
ICV	ICV	1	50796.3	53422.4	95.08	PASS	30-150
ICB	ICB	1	48944	53422.4	91.62	PASS	30-150
LLCCV1	CCV1	1	51435	53422.4	96.28	PASS	30-150
LLCCV2	CCV1	1	52552.9	53422.4	98.37	PASS	30-150
MLCCV1	CCV	1	52522.8	53422.4	98.32	PASS	30-150
ICSA1	ICSA	1	52491.6	53422.4	98.26	PASS	30-150
ICSA1	ICSA	1	53210.5	53422.4	99.6	PASS	30-150
ICSAB1	ICSAB	1	53530.5	53422.4	100.2	PASS	30-150
CCV1	CCV	1	52364.5	53422.4	98.02	PASS	30-150
CCB1	CCB	1	52765.8	53422.4	98.77	PASS	30-150
ICSA2	ICSA	1	52830.5	53422.4	98.89	PASS	30-150
ICSAB2	ICSAB	1	53220.6	53422.4	99.62	PASS	30-150
CCV2	CCV	1	60611.7	53422.4	113.46	PASS	30-150
CCB2	CCB	1	60761.2	53422.4	113.74	PASS	30-150
CCV3	CCV	1	59040.3	53422.4	110.52	PASS	30-150
CCB3	CCB	1	59056	53422.4	110.55	PASS	30-150
CCV4	CCV	1	61755.9	53422.4	115.6	PASS	30-150
CCB4	CCB	1	59179.9	53422.4	110.78	PASS	30-150
ICSA3	ICSA	1	59115.2	53422.4	110.66	PASS	30-150
ICSAB3	ICSAB	1	56782.6	53422.4	106.29	PASS	30-150
MB-113746	MBLK	1	56199.5	53422.4	105.2	PASS	30-150
LCS-113746	LCS	1	55929.5	53422.4	104.69	PASS	30-150
N069542-001B	SAMP	10	51238.8	53422.4	95.91	PASS	30-150
N069542-002B	SAMP	10	51984.4	53422.4	97.31	PASS	30-150
N069542-003B	SAMP	10	49582.6	53422.4	92.81	PASS	30-150
N069582-002B	SAMP	1	38698.9	53422.4	72.44	PASS	30-150
N069582-003B	SAMP	1	51959.9	53422.4	97.26	PASS	30-150
N069582-004B	SAMP	1	51135.1	53422.4	95.72	PASS	30-150
N069582-005B	SAMP	1	43742.7	53422.4	81.88	PASS	30-150
CCV4	CCV	1	56816	53422.4	106.35	PASS	30-150
CCB4	CCB	1	55388.9	53422.4	103.68	PASS	30-150
N069582-006B	SAMP	1	41107	53422.4	76.95	PASS	30-150

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria
N069583-001B	SAMP	1	51399.3	53422.4	96.21	PASS	30-150
N069583-001B	SAMP	10	53752.4	53422.4	100.62	PASS	30-150
N069583-002B	SAMP	1	44036.8	53422.4	82.43	PASS	30-150
N069583-002B	SAMP	10	51922	53422.4	97.19	PASS	30-150
N069583-003B	SAMP	1	42254.4	53422.4	79.1	PASS	30-150
N069583-003B	SAMP	5	49478.9	53422.4	92.62	PASS	30-150
N069583-003B	SAMP	10	50832	53422.4	95.15	PASS	30-150
N069583-003B	SAMP	50	52247.5	53422.4	97.8	PASS	30-150
CCV5	CCV	1	55038.8	53422.4	103.03	PASS	30-150
CCB5	CCB	1	53668.7	53422.4	100.46	PASS	30-150
N069583-003B-PS	PS	1	40487.7	53422.4	75.79	PASS	30-150
N069583-003B-PS	PS	10	50736.1	53422.4	94.97	PASS	30-150
N069583-003BMS	MS	1	42799.1	53422.4	80.11	PASS	30-150
N069583-003BMS	MS	10	50984.6	53422.4	95.44	PASS	30-150
N069583-003BMSD	MSD	1	42683.2	53422.4	79.9	PASS	30-150
N069583-003BMSD	MSD	10	50772.9	53422.4	95.04	PASS	30-150
N069583-004B	SAMP	1	41014.6	53422.4	76.77	PASS	30-150
N069583-004B	SAMP	10	50924.4	53422.4	95.32	PASS	30-150
N069583-006B	SAMP	1	48636.4	53422.4	91.04	PASS	30-150
CCV6	CCV	1	51998.9	53422.4	97.34	PASS	30-150
CCB6	CCB	1	51937.7	53422.4	97.22	PASS	30-150
N069583-008B	SAMP	1	42068.4	53422.4	78.75	PASS	30-150
N069583-008B	SAMP	10	49404.2	53422.4	92.48	PASS	30-150
N069583-009B	SAMP	1	38508.5	53422.4	72.08	PASS	30-150
N069583-009B	SAMP	10	50101.9	53422.4	93.78	PASS	30-150
N069583-010B	SAMP	1	34939.4	53422.4	65.4	PASS	30-150
N069583-010B	SAMP	100	56158.2	53422.4	105.12	PASS	30-150
N069585-001B	SAMP	1	53982	53422.4	101.05	PASS	30-150
CCV7	CCV	1	56526	53422.4	105.81	PASS	30-150
CCB7	CCB	1	54577.3	53422.4	102.16	PASS	30-150
ICSA4	ICSA	1	54489.3	53422.4	102	PASS	30-150
ICSAB4	ICSAB	1	52404.8	53422.4	98.1	PASS	30-150
CCV8	CCV	1	55617.4	53422.4	104.11	PASS	30-150
CCB8	CCB	1	54427.9	53422.4	101.88	PASS	30-150
CCV9	CCV	1	58252	53422.4	109.04	PASS	30-150
CCB9	CCB	1	57011.1	53422.4	106.72	PASS	30-150
CCV10	CCV	1	55398.9	53422.4	103.7	PASS	30-150
CCB10	CCB	1	54949.7	53422.4	102.86	PASS	30-150
CCV11	CCV	1	53813.6	53422.4	100.73	PASS	30-150
CCB11	CCB	1	52687.8	53422.4	98.62	PASS	30-150
ICSA5	ICSA	1	51925.4	53422.4	97.2	PASS	30-150

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria
ICSAB5	ICSAB	1	50010.6	53422.4	93.61	PASS	30-150

INTERNAL STANDARD: 241105B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	45 Sc (ISTD) [2]					72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	25659.7	25659.7	100	PASS	30-150	15888.9	15888.9	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	25432.7	25659.7	99.12	PASS	30-150	15710.9	15888.9	98.88	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	25364.8	25659.7	98.85	PASS	30-150	15716.5	15888.9	98.91	PASS	30-150
Std3-5/50 ppb	ICAL	1	25241.3	25659.7	98.37	PASS	30-150	15534.1	15888.9	97.77	PASS	30-150
Std4-10/100 ppb	ICAL	1	25394.8	25659.7	98.97	PASS	30-150	15756.5	15888.9	99.17	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	25467.2	25659.7	99.25	PASS	30-150	15703.1	15888.9	98.83	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	25517.3	25659.7	99.45	PASS	30-150	15547.4	15888.9	97.85	PASS	30-150
Std7-100/1000 ppb	ICAL	1	24560.3	25659.7	95.72	PASS	30-150	15260.5	15888.9	96.05	PASS	30-150
Std8-200/2000 ppb	ICAL	1	23953.9	25659.7	93.35	PASS	30-150	15210.4	15888.9	95.73	PASS	30-150
ICV	ICV	1	25798.8	25659.7	100.54	PASS	30-150	16022.3	15888.9	100.84	PASS	30-150
ICB	ICB	1	24753.9	25659.7	96.47	PASS	30-150	15748.7	15888.9	99.12	PASS	30-150
LLCCV1	CCV1	1	25105.5	25659.7	97.84	PASS	30-150	15783.2	15888.9	99.33	PASS	30-150
LLCCV2	CCV1	1	26335.2	25659.7	102.63	PASS	30-150	16176.9	15888.9	101.81	PASS	30-150
MLCCV1	CCV	1	24869.6	25659.7	96.92	PASS	30-150	15278.3	15888.9	96.16	PASS	30-150
ICSA1	ICSA	1	25576.3	25659.7	99.67	PASS	30-150	16009	15888.9	100.76	PASS	30-150
ICSAB1	ICSAB	1	25841.1	25659.7	100.71	PASS	30-150	15943.4	15888.9	100.34	PASS	30-150
CCV1	CCV	1	25183.4	25659.7	98.14	PASS	30-150	15724.3	15888.9	98.96	PASS	30-150
CCB1	CCB	1	25228	25659.7	98.32	PASS	30-150	15388.4	15888.9	96.85	PASS	30-150
ICSA2	ICSA	1	25890.1	25659.7	100.9	PASS	30-150	16109.1	15888.9	101.39	PASS	30-150
ICSAB2	ICSAB	1	25205.7	25659.7	98.23	PASS	30-150	15911.1	15888.9	100.14	PASS	30-150
CCV2	CCV	1	25217.9	25659.7	98.28	PASS	30-150	15558.5	15888.9	97.92	PASS	30-150
CCB2	CCB	1	24906.3	25659.7	97.06	PASS	30-150	15545.2	15888.9	97.84	PASS	30-150
CCV3	CCV	1	24771.7	25659.7	96.54	PASS	30-150	15672	15888.9	98.63	PASS	30-150
CCB3	CCB	1	24844.1	25659.7	96.82	PASS	30-150	15445.1	15888.9	97.21	PASS	30-150
CCV4	CCV	1	25342.5	25659.7	98.76	PASS	30-150	15849.9	15888.9	99.75	PASS	30-150
CCB4	CCB	1	25180.1	25659.7	98.13	PASS	30-150	15727.6	15888.9	98.98	PASS	30-150
CCV5	CCV	1	24669.3	25659.7	96.14	PASS	30-150	15420.6	15888.9	97.05	PASS	30-150
CCB5	CCB	1	24410.1	25659.7	95.13	PASS	30-150	15709.8	15888.9	98.87	PASS	30-150
CCV6	CCV	1	23744.7	25659.7	92.54	PASS	30-150	15479.6	15888.9	97.42	PASS	30-150
CCB6	CCB	1	23880.4	25659.7	93.07	PASS	30-150	15430.7	15888.9	97.12	PASS	30-150
ICSA3	ICSA	1	25226.8	25659.7	98.31	PASS	30-150	15716.5	15888.9	98.91	PASS	30-150
ICSAB3	ICSAB	1	24522.4	25659.7	95.57	PASS	30-150	15657.5	15888.9	98.54	PASS	30-150
N069582-002B	SAMP	1	21035.5	25659.7	81.98	PASS	30-150	12064.5	15888.9	75.93	PASS	30-150
N069582-002B	SAMP	1	21204.6	25659.7	82.64	PASS	30-150	12155.7	15888.9	76.5	PASS	30-150
N069582-002B	SAMP	1	21680.8	25659.7	84.49	PASS	30-150	12438.1	15888.9	78.28	PASS	30-150
N069582-004B	SAMP	10	27119.8	25659.7	105.69	PASS	30-150	16353.8	15888.9	102.93	PASS	30-150
N069582-005B	SAMP	10	26387.5	25659.7	102.84	PASS	30-150	15698.7	15888.9	98.8	PASS	30-150
N069582-006B	SAMP	10	25864.5	25659.7	100.8	PASS	30-150	15117	15888.9	95.14	PASS	30-150
N069583-003B	SAMP	1	22702.1	25659.7	88.47	PASS	30-150	13014.1	15888.9	81.91	PASS	30-150
N069583-003B	SAMP	1	22607.6	25659.7	88.11	PASS	30-150	13088.6	15888.9	82.38	PASS	30-150
N069583-003B	SAMP	1	23124.9	25659.7	90.12	PASS	30-150	13134.2	15888.9	82.66	PASS	30-150

INTERNAL STANDARD: 241105B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	45 Sc (ISTD) [2]					72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
CCV7	CCV	1	27257.8	25659.7	106.23	PASS	30-150	16386	15888.9	103.13	PASS	30-150
CCB7	CCB	1	26360.8	25659.7	102.73	PASS	30-150	15853.3	15888.9	99.78	PASS	30-150
CCV8	CCV	1	25420.5	25659.7	99.07	PASS	30-150	15698.7	15888.9	98.8	PASS	30-150
CCB8	CCB	1	24802.9	25659.7	96.66	PASS	30-150	15605.3	15888.9	98.22	PASS	30-150
CCV9	CCV	1	24964.2	25659.7	97.29	PASS	30-150	15618.6	15888.9	98.3	PASS	30-150
CCB9	CCB	1	24514.7	25659.7	95.54	PASS	30-150	15601.9	15888.9	98.19	PASS	30-150
ICSA4	ICSA	1	25079.9	25659.7	97.74	PASS	30-150	15911.1	15888.9	100.14	PASS	30-150
ICSAB4	ICSAB	1	24414.5	25659.7	95.15	PASS	30-150	15811	15888.9	99.51	PASS	30-150

SERIAL DILUTION/ POST DIGESTION SPIKE



ASSET LABORATORIES
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ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N069582
Test Method: EPA 6020
Analysis Date: 11/1,3/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 113746

Instrument ID: NV00922-ICP8 (ICPMS-03)
Instrument Description: Agilent 7800


Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to several analytes. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069583-003B DT 5x	Molybdenum	Mo	µg/L	4.038065	NA	3.69116	9.40%	10
N069583-003B DT 5x	Selenium	Se	µg/L	0	NA	0		10
N069583-003B DT 5x	Arsenic	As	µg/L	1.130018	NA	1.294523	12.71%	10
N069583-003B DT 5x	Chromium	Cr	µg/L	0	NA	0		10
N069583-003B DT 50x	Manganese	Mn	µg/L	456.8206	PASS	446.5084	2.31%	10

Reviewed by:

 12/8/2024

Note: NA - Not Applicable

11/13/24 00:35

N069582_6020_113746_DT

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID N069583-003B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ZZZZZZ	Batch ID: 113746	TestNo: EPA 6020	EPA 3010A	Analysis Date: 11/2/2024	SeqNo: 6283017						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	14.040	0.50	10.00	3.691	103	80	120				

Sample ID N069583-003B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ZZZZZZ	Batch ID: 113746	TestNo: EPA 6020	EPA 3010A	Analysis Date: 11/4/2024	SeqNo: 6286050						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	6.029	0.50	10.00	0	60.3	80	120				S

Sample ID N069583-003B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ZZZZZZ	Batch ID: 113746	TestNo: EPA 6020	EPA 3010A	Analysis Date: 11/4/2024	SeqNo: 6286051						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	1340.810	5.0	1000	446.5	89.4	80	120				

Sample ID N069583-003B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ZZZZZZ	Batch ID: 113746	TestNo: EPA 6020	EPA 3010A	Analysis Date: 11/4/2024	SeqNo: 6293881						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.536	0.10	10.00	1.295	92.4	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069582
Project: PG&E Topock - RCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID N069583-003B-PS	SampType: PS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ZZZZZZ	Batch ID: 113746	TestNo: EPA 6020	EPA 3010A	Analysis Date: 11/4/2024	SeqNo: 6286905						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.171	1.0	10.00	0	91.7	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

MDL STUDY



ASSET LABORATORIES
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Method Detection Limit

Analytical Method: **EPA 6020B**
 Digestion Method: **3010**
 Date of Analysis: **2/15-2/19/2024**
 Digestion Date: **2/15-2/19/2024**
 Instrument Name: **NV0922-ICP8**
 Analysts: **DJ**

Matrix: **Water**
 Unit: **ug/L**

Analyte	1	2	3	4	5	6	7	AMT SPIKED, ppb	SD	MDLs	PQL	MDL
ANTIMONY	0.543	0.521	0.559	0.527	0.573	0.559	0.572	0.50	0.0208	0.0653	0.50	0.0653
ARSENIC	0.102	0.123	0.107	0.116	0.096	0.161	0.115	0.10	0.0212	0.0668	0.10	0.0668
BARIUM	1.103	1.065	1.083	1.081	1.094	1.066	1.060	1.00	0.0159	0.0499	1.00	0.0499
BERYLLIUM	0.533	0.524	0.557	0.541	0.564	0.565	0.502	0.50	0.0233	0.0733	0.50	0.0733
CADMIUM	0.523	0.562	0.529	0.559	0.491	0.544	0.533	0.50	0.0243	0.0763	0.50	0.0763
CHROMIUM	1.015	0.996	1.000	1.100	1.030	1.081	1.052	1.00	0.0402	0.1264	1.00	0.1264
COBALT	0.524	0.523	0.541	0.559	0.528	0.534	0.551	0.50	0.0138	0.0433	0.50	0.0433
COPPER	1.043	1.028	1.026	1.016	1.068	1.098	1.021	1.00	0.0301	0.0947	1.00	0.0947
IRON	11.041	10.660	10.783	11.168	10.989	10.919	10.802	10.00	0.1734	0.5449	10.00	0.5449
LEAD	1.076	1.068	1.091	1.077	1.083	1.040	1.040	1.00	0.0203	0.0637	1.00	0.0637
MANGANESE	0.558	0.529	0.519	0.541	0.532	0.525	0.554	0.50	0.0148	0.0465	0.50	0.0465
MOLYBDENUM	0.564	0.571	0.574	0.537	0.518	0.554	0.550	0.50	0.0200	0.0629	0.50	0.0629
NICKEL	1.025	1.059	1.057	0.947	0.974	1.069	1.036	1.00	0.0465	0.1461	1.00	0.1461
SELENIUM	0.679	0.622	0.547	0.429	0.439	0.552	0.506	0.50	0.0911	0.2863	0.50	0.2863
SILVER	0.525	0.538	0.555	0.545	0.551	0.530	0.518	0.50	0.0140	0.0439	0.50	0.0439
THALLIUM	0.503	0.493	0.491	0.555	0.525	0.504	0.499	0.50	0.0227	0.0713	0.50	0.0713
URANIUM	0.517	0.513	0.528	0.542	0.526	0.533	0.523	0.50	0.0097	0.0306	0.50	0.0306
VANADIUM	1.081	1.076	1.027	1.054	1.069	1.043	1.080	1.00	0.0209	0.0658	1.00	0.0658
ZINC	10.646	10.643	10.661	10.514	10.927	10.516	10.419	10.00	0.1631	0.5126	10.00	0.7534
ALUMINUM	10.305	10.064	10.146	10.336	10.592	10.459	10.670	10.00	0.2224	0.6990	10.00	0.6990



Method Detection Limit (Blanks)

Analyte	1	2	3	4	5	6	7	Mean	SD	MDLb
ANTIMONY	0.011	0.009	0.001	0.001	0.003	0.018	0.012	0.0080	0.0065	0.0285
ARSENIC	0.021	0.013	0.004	0.008	0.000	0.001	0.000	0.0067	0.0079	0.0316
BARIUM	0.000	0.018	0.014	0.000	0.003	0.001	0.003	0.0054	0.0072	0.0280
BERYLLIUM	0.003	0.005	0.007	0.002	0.005	0.014	0.003	0.0057	0.0039	0.0179
CADMIUM	0.000	0.002	0.000	0.000	0.000	0.001	0.000	0.0004	0.0007	0.0026
CHROMIUM	0.000	0.000	0.000	0.000	0.000	0.001	0.004	0.0008	0.0016	0.0059
COBALT	0.000	0.000	0.000	0.000	0.000	0.003	0.001	0.0006	0.0012	0.0042
COPPER	0.000	0.000	0.069	0.000	0.010	0.000	0.000	0.0113	0.0258	0.0924
IRON	0.000	0.000	0.000	0.236	0.187	0.020	0.112	0.0792	0.0996	0.3922
LEAD	0.001	0.000	0.000	0.002	0.001	0.001	0.001	0.0011	0.0009	0.0037
MANGANESE	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.0008	0.0020	0.0071
MOLYBDENUM	0.017	0.013	0.007	0.015	0.004	0.022	0.009	0.0126	0.0062	0.0321
NICKEL	0.000	0.000	0.062	0.000	0.000	0.017	0.013	0.0132	0.0228	0.0849
SELENIUM	0.007	0.027	0.000	0.000	0.019	0.000	0.013	0.0093	0.0107	0.0428
SILVER	0.004	0.002	0.002	0.000	0.000	0.001	0.000	0.0012	0.0014	0.0057
THALLIUM	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.0003	0.0008	0.0028
URANIUM	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.0001	0.0004	0.0013
VANADIUM	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.0003	0.0004	0.0016
ZINC	0.000	0.000	0.257	0.175	0.513	0.000	0.000	0.1350	0.1968	0.7534
ALUMINUM	0.000	0.000	0.106	0.000	0.000	0.170	0.295	0.0816	0.1160	0.4460

Note: Higher value between **MDLs** and **MDLb** will be used.



LOD PQL VERIFICATION 2024

Analytical Method: EPA 6020 / 200.8
Digestion Method: EPA 3010A
Date of Analysis: 1/20/2024
Digestion Date: 1/20/2024
Instrument Name: ICPMS3
Analysts: DBJ

Matrix: Water
Units: ug/L

N062388

Analyte	MDLs	LOD	ACTUAL LOD	PQL	ACTUAL PQL	% RECOVERY
ANTIMONY	0.0652	0.025	0.288	0.50	0.552	110
ARSENIC	0.0667	0.050	0.055	0.10	0.107	107
BARIUM	0.0498	0.500	0.547	1.00	1.049	105
BERYLLIUM	0.0732	0.250	0.253	0.50	0.502	100
CADMIUM	0.0763	0.250	0.255	0.50	0.498	100
CHROMIUM	0.1263	0.500	0.536	1.00	1.048	105
COBALT	0.0433	0.250	0.261	0.50	0.518	104
COPPER	0.0946	0.100	0.620	1.00	0.941	94
IRON	0.5444	5.000	5.219	10.00	10.531	105
LEAD	0.0636	0.500	0.513	1.00	1.035	104
MANGANESE	0.0464	0.250	0.261	0.50	0.602	120
MOLYBDENUM	0.0628	0.250	0.275	0.50	0.534	107
NICKEL	0.1460	0.500	0.492	1.00	1.184	118
SELENIUM	0.2861	0.250	0.272	0.50	0.536	107
SILVER	0.0438	0.250	0.277	0.50	0.534	107
THALLIUM	0.0712	0.250	0.264	0.50	0.508	102
URANIUM	0.0306	0.250	0.261	0.50	0.523	105
VANADIUM	0.0657	0.500	0.557	1.00	1.063	106
ZINC	0.5121	5.000	5.394	10.00	10.481	105
ALUMINUM	0.6983	5.000	5.519	10.00	10.395	104

ARCADIS

Project: PG&E Topock - PCM

Project No.: 30211191

ASSET Laboratories Work Order:

N069583

ANALYTICAL and QC RESULTS SAMPLE RECEIVING ITEMS

PRIVILEGED AND CONFIDENTIAL



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Table of Contents

ASSET Laboratories Work Order: N069583

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November 19, 2024

Laura Madsen
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661
TEL: 1 720 344 3771
FAX:

Workorder No.: N069583

RE: PG&E Topock - PCM, 30211191

Attention: Laura Madsen

Enclosed are the results for sample(s) received on October 30, 2024 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

The reported results relate only to the samples as received and parameters tested by the laboratory.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

 for

Nancy Sibucan
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - Las Vegas.



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CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30211191
Lab Order: N069583

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 218.6:

Dilution was necessary for some samples due to matrix interference. Samples were analyzed at lower dilution however matrix spike recovery and/or retention time criteria were not met indicating possible matrix interference. Samples were reported at dilution that meets matrix spike recovery limit and the detected peak within retention time window.

Because the results for total dissolved chromium (0 ug/L) and hexavalent chromium (2.0 ug/L) for sample N069583-004 (MW-86-140-Q424) are discrepant, sample re-analysis and Matrix Spike protocol were performed and result confirmed initial analysis.

Analytical Comments for EPA 300.0:

Dilution was necessary due to precipitation of samples upon the addition of eluent.

Analytical Comments for EPA 6020_Dissolved:

Because the results for total dissolved chromium (0 ug/L) and hexavalent chromium (2.0 ug/L) for sample N069583-004 (MW-86-140-Q424) are discrepant, sample from both the total dissolved chromium and hexavalent chromium containers were redigested and analyzed for total dissolved chromium. The results from the redigested samples were 0.12 and 0.10 ug/L, respectively. Since these data confirmed the original result for total dissolved chromium, the original result is reported.



ASSET Laboratories

Date: 19-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30211191
Lab Order: N069583
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N069583-001A	MW-86-030-Q424	Groundwater	10/30/2024 9:16:00 AM	10/30/2024	11/19/2024
N069583-001B	MW-86-030-Q424	Groundwater	10/30/2024 9:16:00 AM	10/30/2024	11/19/2024
N069583-001C	MW-86-030-Q424	Groundwater	10/30/2024 9:16:00 AM	10/30/2024	11/19/2024
N069583-002A	MW-86-066-Q424	Groundwater	10/30/2024 8:49:00 AM	10/30/2024	11/19/2024
N069583-002B	MW-86-066-Q424	Groundwater	10/30/2024 8:49:00 AM	10/30/2024	11/19/2024
N069583-002C	MW-86-066-Q424	Groundwater	10/30/2024 8:49:00 AM	10/30/2024	11/19/2024
N069583-003A	MW-86-120-Q424	Groundwater	10/30/2024 9:44:00 AM	10/30/2024	11/19/2024
N069583-003B	MW-86-120-Q424	Groundwater	10/30/2024 9:44:00 AM	10/30/2024	11/19/2024
N069583-003C	MW-86-120-Q424	Groundwater	10/30/2024 9:44:00 AM	10/30/2024	11/19/2024
N069583-004A	MW-86-140-Q424	Groundwater	10/30/2024 10:16:00 AM	10/30/2024	11/19/2024
N069583-004B	MW-86-140-Q424	Groundwater	10/30/2024 10:16:00 AM	10/30/2024	11/19/2024
N069583-004C	MW-86-140-Q424	Groundwater	10/30/2024 10:16:00 AM	10/30/2024	11/19/2024
N069583-005A	MW-28-025-EB-Q424	Groundwater	10/30/2024 11:08:00 AM	10/30/2024	11/19/2024
N069583-006A	MW-28-025-Q424	Groundwater	10/30/2024 11:25:00 AM	10/30/2024	11/19/2024
N069583-006B	MW-28-025-Q424	Groundwater	10/30/2024 11:25:00 AM	10/30/2024	11/19/2024
N069583-006C	MW-28-025-Q424	Groundwater	10/30/2024 11:25:00 AM	10/30/2024	11/19/2024
N069583-007A	MW-28-090-EB-Q424	Groundwater	10/30/2024 11:45:00 AM	10/30/2024	11/19/2024
N069583-008A	MW-28-090-Q424	Groundwater	10/30/2024 12:03:00 PM	10/30/2024	11/19/2024
N069583-008B	MW-28-090-Q424	Groundwater	10/30/2024 12:03:00 PM	10/30/2024	11/19/2024
N069583-008C	MW-28-090-Q424	Groundwater	10/30/2024 12:03:00 PM	10/30/2024	11/19/2024
N069583-009A	MW-90-031-Q424	Groundwater	10/30/2024 12:44:00 PM	10/30/2024	11/19/2024
N069583-009B	MW-90-031-Q424	Groundwater	10/30/2024 12:44:00 PM	10/30/2024	11/19/2024
N069583-009C	MW-90-031-Q424	Groundwater	10/30/2024 12:44:00 PM	10/30/2024	11/19/2024
N069583-010A	MW-22-Q424	Groundwater	10/30/2024 1:40:00 PM	10/30/2024	11/19/2024
N069583-010B	MW-22-Q424	Groundwater	10/30/2024 1:40:00 PM	10/30/2024	11/19/2024
N069583-010C	MW-22-Q424	Groundwater	10/30/2024 1:40:00 PM	10/30/2024	11/19/2024
N069583-011A	EB-714-Q424	Groundwater	10/30/2024 3:00:00 PM	10/30/2024	11/19/2024



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ANALYTICAL RESULTS

Print Date: 19-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069583
Project: PG&E Topock - PCM, 30211191
Lab ID: N069583-001

Client Sample ID: MW-86-030-Q424
Collection Date: 10/30/2024 9:16:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241031A	QC Batch: R195071				PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.19	1.0		µg/L	5	10/31/2024 06:00 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113746				PrepDate: 10/31/2024		Analyst: DJ
Chromium	ND	0.13	1.0		µg/L	1	11/4/2024 06:49 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 19-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069583
Project: PG&E Topock - PCM, 30211191
Lab ID: N069583-002

Client Sample ID: MW-86-066-Q424
Collection Date: 10/30/2024 8:49:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241031A	QC Batch: R195071				PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.19	1.0		µg/L	5	10/31/2024 06:19 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113746				PrepDate: 10/31/2024		Analyst: DJ
Chromium	ND	0.13	1.0		µg/L	1	11/4/2024 07:01 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 19-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069583
Project: PG&E Topock - PCM, 30211191
Lab ID: N069583-003

Client Sample ID: MW-86-120-Q424
Collection Date: 10/30/2024 9:44:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241031A	QC Batch: R195071				PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.19	1.0		µg/L	5	10/31/2024 12:43 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113746				PrepDate: 10/31/2024		Analyst: DJ
Chromium	ND	0.13	1.0		µg/L	1	11/4/2024 07:12 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 19-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069583
Project: PG&E Topock - PCM, 30211191
Lab ID: N069583-004

Client Sample ID: MW-86-140-Q424
Collection Date: 10/30/2024 10:16:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241031A	QC Batch: R195071				PrepDate:		Analyst: RAB
Hexavalent Chromium	2.0	0.19	1.0		µg/L	5	10/31/2024 07:16 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113746				PrepDate: 10/31/2024		Analyst: DJ
Chromium	ND	0.13	1.0		µg/L	1	11/4/2024 08:23 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 19-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069583
Project: PG&E Topock - PCM, 30211191
Lab ID: N069583-005

Client Sample ID: MW-28-025-EB-Q424
Collection Date: 10/30/2024 11:08:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241031A	QC Batch: R195071	PrepDate:	Analyst: RAB
Hexavalent Chromium	ND 0.039	0.20	µg/L 1 10/31/2024 07:35 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 19-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069583
Project: PG&E Topock - PCM, 30211191
Lab ID: N069583-006

Client Sample ID: MW-28-025-Q424
Collection Date: 10/30/2024 11:25:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241031A	QC Batch: R195071				PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20		µg/L	1	10/31/2024 03:02 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113746				PrepDate: 10/31/2024		Analyst: DJ
Chromium	ND	0.13	1.0		µg/L	1	11/4/2024 08:35 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 19-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069583
Project: PG&E Topock - PCM, 30211191
Lab ID: N069583-007

Client Sample ID: MW-28-090-EB-Q424
Collection Date: 10/30/2024 11:45:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241031A	QC Batch: R195071	PrepDate:	Analyst: RAB
Hexavalent Chromium	ND 0.039	0.20	µg/L 1 10/31/2024 07:54 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 19-Nov-24

CLIENT: ARCADIS U.S., Inc. - California	Client Sample ID: MW-28-090-Q424
Lab Order: N069583	
Project: PG&E Topock - PCM, 30211191	Collection Date: 10/30/2024 12:03:00 PM
Lab ID: N069583-008	Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
				EPA 218.6			
RunID: NV00922-IC7_241031A	QC Batch: R195071			PrepDate:	Analyst: RAB		
Hexavalent Chromium	ND	0.19	1.0	µg/L	5	10/31/2024 08:31 PM	
DISSOLVED METALS BY ICP-MS							
EPA 3010A				EPA 6020			
RunID: NV00922-ICP8_241116F	QC Batch: 114151			PrepDate: 11/15/2024	Analyst: DJ		
Chromium	ND	0.13	1.0	µg/L	1	11/17/2024 08:47 AM	

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069583
Project: PG&E Topock - PCM, 30211191
Lab ID: N069583-009

Client Sample ID: MW-90-031-Q424
Collection Date: 10/30/2024 12:44:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241031A	QC Batch: R195071				PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.19	1.0		µg/L	5	10/31/2024 09:28 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113746				PrepDate: 10/31/2024		Analyst: DJ
Chromium	ND	0.13	1.0		µg/L	1	11/4/2024 09:10 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 19-Nov-24

CLIENT: ARCADIS U.S., Inc. - California	Client Sample ID: MW-22-Q424
Lab Order: N069583	
Project: PG&E Topock - PCM, 30211191	Collection Date: 10/30/2024 1:40:00 PM
Lab ID: N069583-010	Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241031A	QC Batch: R195071	PrepDate:	Analyst: RAB
Hexavalent Chromium	ND 0.19	1.0	µg/L 5 10/31/2024 10:06 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113746	PrepDate: 10/31/2024	Analyst: DJ
Chromium	ND 0.13	1.0	µg/L 1 11/4/2024 09:22 AM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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ANALYTICAL RESULTS

Print Date: 19-Nov-24

CLIENT:	ARCADIS U.S., Inc. - California	Client Sample ID:	EB-714-Q424
Lab Order:	N069583		
Project:	PG&E Topock - PCM, 30211191	Collection Date:	10/30/2024 3:00:00 PM
Lab ID:	N069583-011	Matrix:	GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241031A	QC Batch: R195071	PrepDate:	Analyst: RAB
Hexavalent Chromium	ND 0.039 0.20	µg/L	1 10/31/2024 10:25 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID MB-R195071	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: PBW	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279542							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.039	0.20									

Sample ID LCS-R195071	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: LCSW	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279543							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.714	0.039	0.20	5.000	0	94.3	90	110				

Sample ID N069543-018AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279545							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.057	0.039	0.20	1.000	0	106	90	110				

Sample ID N069543-021AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279547							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.132	0.039	0.20	1.000	0.1996	93.3	90	110				

Sample ID N069583-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279551							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.145	0.19	1.0	5.000	0	103	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069583-003AMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279552								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.283	0.19	1.0	5.000	0	106	90	110	5.144	2.65	20	

Sample ID N069583-006AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279557								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.943	0.039	0.20	1.000	0	94.3	90	110				

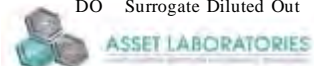
Sample ID N069585-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279559								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	49.904	0.19	1.0	25.00	25.68	96.9	90	110				

Sample ID N069585-001ADUP	SampType: DUP	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279560								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	25.685	0.19	1.0						25.68	0.0312	20	

Sample ID N069582-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279562								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	46.817	0.19	1.0	25.00	23.36	93.8	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069582-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279563							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	63.441	0.19	1.0	25.00	37.59	103	90	110				
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Sample ID N069543-019AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279567							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	7.503	0.19	1.0	5.000	2.146	107	90	110				
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Sample ID N069543-020AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279569							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	7.435	0.19	1.0	5.000	2.386	101	90	110				
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Sample ID N069582-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279571							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

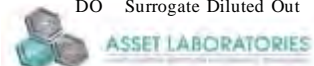
Hexavalent Chromium	1.010	0.039	0.20	1.000	0	101	90	110				
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Sample ID N069583-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279573							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.413	0.19	1.0	5.000	0.8955	90.3	90	110				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069583-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279575								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.481	0.19	1.0	5.000	0	110	90	110				

Sample ID N069583-004AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279579								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	6.735	0.19	1.0	5.000	1.958	95.5	90	110				

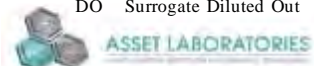
Sample ID N069583-005AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279581								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.085	0.039	0.20	1.000	0	109	90	110				

Sample ID N069583-007AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279583								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.053	0.039	0.20	1.000	0	105	90	110				

Sample ID N069583-008AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279587								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.488	0.19	1.0	5.000	0	110	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| (M) Test is modified | | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069583-009AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279589							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.027	0.19	1.0	5.000	0	101	90	110				

Sample ID N069583-010AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279591							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.840	0.19	1.0	5.000	0	96.8	90	110				

Sample ID N069583-011AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279595							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.043	0.039	0.20	1.000	0	104	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID MB-113746	SampType: MBLK	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195188							
Client ID: PBW	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286883							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium ND 0.13 1.0

Sample ID LCS-113746	SampType: LCS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195188							
Client ID: LCSW	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286884							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 9.636 0.13 1.0 10.00 0 96.4 85 115

Sample ID N069583-003BMS	SampType: MS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195188							
Client ID: ZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286907							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 9.093 0.13 1.0 10.00 0 90.9 75 125

Sample ID N069583-003BMSD	SampType: MSD	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195188							
Client ID: ZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286909							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 9.069 0.13 1.0 10.00 0 90.7 75 125 9.093 0.267 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: MB-114151	SampType: MBLK	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 11/15/2024	RunNo: 195782							
Client ID: PBW	Batch ID: 114151	TestNo: EPA 6020	EPA 3010A	Analysis Date: 11/17/2024	SeqNo: 6323260							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	0.13	1.0									
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Sample ID: LCS-114151	SampType: LCS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 11/15/2024	RunNo: 195782							
Client ID: LCSW	Batch ID: 114151	TestNo: EPA 6020	EPA 3010A	Analysis Date: 11/17/2024	SeqNo: 6323261							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	10.357	0.13	1.0	10.00	0	104	85	115				
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Sample ID: N069996-010CMS	SampType: MS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 11/15/2024	RunNo: 195782							
Client ID: ZZZZZ	Batch ID: 114151	TestNo: EPA 6020	EPA 3010A	Analysis Date: 11/17/2024	SeqNo: 6323285							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	14.203	0.13	1.0	10.00	3.868	103	75	125				
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Sample ID: N069996-010CMSD	SampType: MSD	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 11/15/2024	RunNo: 195782							
Client ID: ZZZZZ	Batch ID: 114151	TestNo: EPA 6020	EPA 3010A	Analysis Date: 11/17/2024	SeqNo: 6323286							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	14.084	0.13	1.0	10.00	3.868	102	75	125	14.20	0.843	20	
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID N069583-003B-PS	SampType: PS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188							
Client ID: ZZZZZ	Batch ID: 113746	TestNo: EPA 6020	EPA 3010A	Analysis Date: 11/4/2024	SeqNo: 6286905							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.171	0.13	1.0	10.00	0	91.7	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID N069996-010C-PS	SampType: PS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782							
Client ID: ZZZZZZ	Batch ID: 114151	TestNo: EPA 6020	EPA 3010A	Analysis Date: 11/17/2024	SeqNo: 6323284							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	14.193	0.13	1.0	10.00	3.868	103	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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ICP-MS-Metals in Water

Work Order No.: N069582 / N069583
Test Method: EPA 6020
Analysis Date: 11/3/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 113746


Instrument ID: NV00922-ICP8 (ICPMS-03)
Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Cr & As. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069583-003B DT 5x	Chromium	Cr	µg/L	0	NA	0		10
N069583-003B DT 5x	Arsenic	As	µg/L	1.130018	NA	1.294523	12.71%	10

 11/14/2024

Note: NA - Not Applicable

11/14/24 10:52

N069582_6020_113746_DT

ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N069583
Test Method: EPA 6020
Analysis Date: 11/17/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 114151

Instrument ID: NV00922-ICP8 (ICPMS-03)
Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Cr. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069996-010C DT 5x	Chromium	Cr	µg/L	3.727971	NA	3.867949	3.62%	10

REVIEWED BY:



11/19/2024

Note: NA - Not Applicable

11/19/24 16:35

N069583_6020_114151_DT

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 19-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069583
Project: PG&E Topock - PCM, 30211191
Lab ID: N069583-001

Client Sample ID: MW-86-030-Q424
Collection Date: 10/30/2024 9:16:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241031A	QC Batch: R195037	PrepDate:	Analyst: RAB
Nitrate as N	ND 0.12	0.25	mg/L 5 10/31/2024 12:07 PM

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out
E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified
(M) Test is modified



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ANALYTICAL RESULTS

Print Date: 19-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069583
Project: PG&E Topock - PCM, 30211191
Lab ID: N069583-002

Client Sample ID: MW-86-066-Q424
Collection Date: 10/30/2024 8:49:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241031A	QC Batch: R195037	PrepDate:	Analyst: RAB
Nitrate as N	ND 0.12	0.25	mg/L 5 10/31/2024 12:22 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 19-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069583
Project: PG&E Topock - PCM, 30211191
Lab ID: N069583-003

Client Sample ID: MW-86-120-Q424
Collection Date: 10/30/2024 9:44:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241031A	QC Batch: R195037	PrepDate:	Analyst: RAB
Nitrate as N	ND 0.24	0.50	mg/L 10 10/31/2024 11:35 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 19-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069583
Project: PG&E Topock - PCM, 30211191
Lab ID: N069583-004

Client Sample ID: MW-86-140-Q424
Collection Date: 10/30/2024 10:16:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241031A	QC Batch: R195037	PrepDate:	Analyst: RAB
Nitrate as N	ND 0.24	0.50	mg/L 10 10/31/2024 12:38 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 19-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069583
Project: PG&E Topock - PCM, 30211191
Lab ID: N069583-006

Client Sample ID: MW-28-025-Q424
Collection Date: 10/30/2024 11:25:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241031A	QC Batch: R195037	PrepDate:	Analyst: RAB			
Nitrate as N	ND	0.12	0.25	mg/L	5	10/31/2024 12:54 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 19-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069583
Project: PG&E Topock - PCM, 30211191
Lab ID: N069583-008

Client Sample ID: MW-28-090-Q424
Collection Date: 10/30/2024 12:03:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241031A	QC Batch: R195037	PrepDate:	Analyst: RAB			
Nitrate as N	ND	0.12	0.25	mg/L	5	10/31/2024 01:10 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 19-Nov-24

CLIENT:	ARCADIS U.S., Inc. - California	Client Sample ID:	MW-90-031-Q424
Lab Order:	N069583		
Project:	PG&E Topock - PCM, 30211191	Collection Date:	10/30/2024 12:44:00 PM
Lab ID:	N069583-009	Matrix:	GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241031A	QC Batch: R195037	PrepDate:	Analyst: RAB			
Nitrate as N	ND	0.24	0.50	mg/L	10	10/31/2024 01:58 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out	(M)	Test is modified



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ANALYTICAL RESULTS

Print Date: 19-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069583
Project: PG&E Topock - PCM, 30211191
Lab ID: N069583-010

Client Sample ID: MW-22-Q424
Collection Date: 10/30/2024 1:40:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241031A	QC Batch: R195037			PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50	mg/L	10	10/31/2024 02:14 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID	MB-R195037_NO3	SampType:	MBLK	TestCode:	300WLLNO3	Units:	mg/L	Prep Date:		RunNo:	195037			
Client ID:	PBW	Batch ID:	R195037	TestNo:	EPA 300.0			Analysis Date:	10/31/2024	SeqNo:	6277711			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N		ND		0.024	0.050									

Sample ID	LCS-R195037_NO3	SampType:	LCS	TestCode:	300WLLNO3	Units:	mg/L	Prep Date:		RunNo:	195037			
Client ID:	LCSW	Batch ID:	R195037	TestNo:	EPA 300.0			Analysis Date:	10/31/2024	SeqNo:	6277712			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N		1.344		0.024	0.050	1.250	0	108	90	110				

Sample ID	N069583-003CMS	SampType:	MS	TestCode:	300WLLNO3	Units:	mg/L	Prep Date:		RunNo:	195037			
Client ID:	ZZZZZ	Batch ID:	R195037	TestNo:	EPA 300.0			Analysis Date:	10/31/2024	SeqNo:	6277729			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N		12.819		0.24	0.50	12.50	0	103	80	120				

Sample ID	N069583-003CMSD	SampType:	MSD	TestCode:	300WLLNO3	Units:	mg/L	Prep Date:		RunNo:	195037			
Client ID:	ZZZZZ	Batch ID:	R195037	TestNo:	EPA 300.0			Analysis Date:	10/31/2024	SeqNo:	6277730			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N		12.910		0.24	0.50	12.50	0	103	80	120	12.82	0.707	20	

Sample ID	N069582-006CDUP	SampType:	DUP	TestCode:	300WLLNO3	Units:	mg/L	Prep Date:		RunNo:	195037			
Client ID:	ZZZZZ	Batch ID:	R195037	TestNo:	EPA 300.0			Analysis Date:	10/31/2024	SeqNo:	6277731			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N		1.641		0.24	0.50						1.616	1.54	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID N069583-006CMS	SampType: MS	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195037							
Client ID: ZZZZZZ	Batch ID: R195037	TestNo: EPA 300.0	Analysis Date: 10/31/2024	SeqNo: 6277732								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	14.760	0.24	0.50	12.50	0	118	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |



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ANALYTICAL RESULTS

Print Date: 19-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069583
Project: PG&E Topock - PCM, 30211191
Lab ID: N069583-001

Client Sample ID: MW-86-030-Q424
Collection Date: 10/30/2024 9:16:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP4_241031F	QC Batch: 113745			PrepDate: 10/31/2024		Analyst: DJ	
Iron	1400	5.8	20	µg/L	1	11/1/2024 02:53 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 19-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069583
Project: PG&E Topock - PCM, 30211191
Lab ID: N069583-002

Client Sample ID: MW-86-066-Q424
Collection Date: 10/30/2024 8:49:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP4_241031F	QC Batch: 113745			PrepDate: 10/31/2024		Analyst: DJ	
Iron	ND	5.8	20	µg/L	1	11/1/2024 02:55 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 19-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069583
Project: PG&E Topock - PCM, 30211191
Lab ID: N069583-003

Client Sample ID: MW-86-120-Q424
Collection Date: 10/30/2024 9:44:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP4_241031F	QC Batch: 113745			PrepDate: 10/31/2024		Analyst: DJ
Iron	150	5.8	20	µg/L	1	11/1/2024 02:57 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 19-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069583
Project: PG&E Topock - PCM, 30211191
Lab ID: N069583-004

Client Sample ID: MW-86-140-Q424
Collection Date: 10/30/2024 10:16:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP4_241031F	QC Batch: 113745			PrepDate: 10/31/2024		Analyst: DJ	
Iron	24	5.8	20	µg/L	1	11/1/2024 03:09 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 19-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069583
Project: PG&E Topock - PCM, 30211191
Lab ID: N069583-006

Client Sample ID: MW-28-025-Q424
Collection Date: 10/30/2024 11:25:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP4_241031F	QC Batch: 113745			PrepDate: 10/31/2024		Analyst: DJ	
Iron	ND	5.8	20	µg/L	1	11/1/2024 03:16 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 19-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069583
Project: PG&E Topock - PCM, 30211191
Lab ID: N069583-008

Client Sample ID: MW-28-090-Q424
Collection Date: 10/30/2024 12:03:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP4_241031F	QC Batch: 113745			PrepDate: 10/31/2024		Analyst: DJ
Iron	150	5.8	20	µg/L	1	11/1/2024 03:18 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 19-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069583
Project: PG&E Topock - PCM, 30211191
Lab ID: N069583-009

Client Sample ID: MW-90-031-Q424
Collection Date: 10/30/2024 12:44:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP4_241031F	QC Batch: 113745			PrepDate: 10/31/2024		Analyst: DJ
Iron	13000	5.8	20	µg/L	1	11/1/2024 03:20 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 19-Nov-24

CLIENT:	ARCADIS U.S., Inc. - California	Client Sample ID:	MW-22-Q424
Lab Order:	N069583		
Project:	PG&E Topock - PCM, 30211191	Collection Date:	10/30/2024 1:40:00 PM
Lab ID:	N069583-010	Matrix:	GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP4_241031F	QC Batch: 113745			PrepDate: 10/31/2024		Analyst: DJ
Iron	12000	5.8	20	µg/L	1	11/1/2024 03:23 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out	(M)	Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID MB-113745	SampType: MBLK	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195107							
Client ID: PBW	Batch ID: 113745	TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/1/2024	SeqNo: 6281677							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	ND	5.8	20									

Sample ID LCS-113745	SampType: LCS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195107							
Client ID: LCSW	Batch ID: 113745	TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/1/2024	SeqNo: 6281678							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	111.610	5.8	20	100.0	0	112	85	115				

Sample ID N069583-003BMS	SampType: MS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195107							
Client ID: ZZZZZ	Batch ID: 113745	TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/1/2024	SeqNo: 6281684							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	265.040	5.8	20	100.0	145.7	119	75	125				

Sample ID N069583-003BMSD	SampType: MSD	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195107							
Client ID: ZZZZZ	Batch ID: 113745	TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/1/2024	SeqNo: 6281685							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	258.060	5.8	20	100.0	145.7	112	75	125	265.0	2.67	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

Calculations are based on raw values

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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

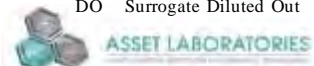
ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID	N069583-003B-PS	SampType:	PS	TestCode:	6010_WDPG	Units:	µg/L	Prep Date:		RunNo:	195107			
Client ID:	ZZZZZ	Batch ID:	113745	TestNo:	EPA 6010B EPA 3010A			Analysis Date:	11/1/2024	SeqNo:	6281683			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron		263.690		5.8	20	100.0	145.7	118	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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ICP-Metals in Water

Work Order No.: N069583
 Test Method: EPA 6010B
 Analysis Date: 10/31/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 113745

Instrument ID: NV00922-ICP4
 Instrument Description: Agilent 5800VDV

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Fe. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069583-003B DT 5x	Iron	Fe	µg/L	124.8	NA	145.67	14.33%	10

Note: NA - Not Applicable

11/14/24 11:51

N069583_6010B_113745_DT

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 19-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069583
Project: PG&E Topock - PCM, 30211191
Lab ID: N069583-001

Client Sample ID: MW-86-030-Q424
Collection Date: 10/30/2024 9:16:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241103A	QC Batch:	113746	PrepDate:	10/31/2024	Analyst:	DJ
Arsenic	8.1	0.067	0.10	µg/L	1	11/4/2024	06:49 AM
Barium	210	0.50	10	µg/L	10	11/4/2024	06:55 AM
Manganese	110	0.046	0.50	µg/L	1	11/2/2024	06:50 AM
Molybdenum	15	0.063	0.50	µg/L	1	11/2/2024	06:50 AM
Selenium	ND	0.29	0.50	µg/L	1	11/2/2024	06:50 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 19-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069583
Project: PG&E Topock - PCM, 30211191
Lab ID: N069583-002

Client Sample ID: MW-86-066-Q424
Collection Date: 10/30/2024 8:49:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241103A	QC Batch:	113746	PrepDate:	10/31/2024	Analyst:	DJ
Arsenic	1.2	0.067	0.10	µg/L	1	11/4/2024	07:01 AM
Barium	55	0.050	1.0	µg/L	1	11/2/2024	06:56 AM
Manganese	260	0.46	5.0	µg/L	10	11/4/2024	07:07 AM
Molybdenum	8.5	0.063	0.50	µg/L	1	11/2/2024	06:56 AM
Selenium	ND	0.29	0.50	µg/L	1	11/2/2024	06:56 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 19-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069583
Project: PG&E Topock - PCM, 30211191
Lab ID: N069583-003

Client Sample ID: MW-86-120-Q424
Collection Date: 10/30/2024 9:44:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241105F	QC Batch: 113746			PrepDate: 10/31/2024	Analyst: DJ
Arsenic	1.3	0.067	0.10	µg/L	11/6/2024 01:05 AM
Barium	42	0.050	1.0	µg/L	11/2/2024 07:02 AM
Manganese	450	0.46	5.0	µg/L	11/4/2024 07:24 AM
Molybdenum	3.7	0.063	0.50	µg/L	11/2/2024 07:02 AM
Selenium	ND	0.29	0.50	µg/L	11/4/2024 07:12 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 19-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069583
Project: PG&E Topock - PCM, 30211191
Lab ID: N069583-004

Client Sample ID: MW-86-140-Q424
Collection Date: 10/30/2024 10:16:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241103A	QC Batch:	113746	PrepDate:	10/31/2024	Analyst:	DJ
Arsenic	0.50	0.067	0.10	µg/L	1	11/4/2024 08:23 AM	
Barium	51	0.050	1.0	µg/L	1	11/2/2024 07:32 AM	
Manganese	1000	0.46	5.0	µg/L	10	11/4/2024 08:29 AM	
Molybdenum	14	0.063	0.50	µg/L	1	11/2/2024 07:32 AM	
Selenium	ND	0.29	0.50	µg/L	1	11/2/2024 07:32 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 19-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069583
Project: PG&E Topock - PCM, 30211191
Lab ID: N069583-006

Client Sample ID: MW-28-025-Q424
Collection Date: 10/30/2024 11:25:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241103A	QC Batch:	113746	PrepDate:	10/31/2024	Analyst:	DJ
Arsenic	1.0	0.067	0.10	µg/L	1	11/4/2024 08:35 AM	
Barium	89	0.050	1.0	µg/L	1	11/2/2024 07:55 AM	
Manganese	5.6	0.046	0.50	µg/L	1	11/2/2024 07:55 AM	
Molybdenum	4.4	0.063	0.50	µg/L	1	11/2/2024 07:55 AM	
Selenium	ND	0.29	0.50	µg/L	1	11/2/2024 07:55 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 19-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069583
Project: PG&E Topock - PCM, 30211191
Lab ID: N069583-008

Client Sample ID: MW-28-090-Q424
Collection Date: 10/30/2024 12:03:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241103A	QC Batch:	113746	PrepDate:	10/31/2024	Analyst:	DJ
Arsenic	0.72	0.067	0.10	µg/L	1	11/4/2024 08:58 AM	
Barium	25	0.050	1.0	µg/L	1	11/2/2024 08:01 AM	
Manganese	360	0.46	5.0	µg/L	10	11/4/2024 09:04 AM	
Molybdenum	22	0.063	0.50	µg/L	1	11/2/2024 08:01 AM	
Selenium	ND	0.29	0.50	µg/L	1	11/2/2024 08:01 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 19-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069583
Project: PG&E Topock - PCM, 30211191
Lab ID: N069583-009

Client Sample ID: MW-90-031-Q424
Collection Date: 10/30/2024 12:44:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241103A	QC Batch:	113746	PrepDate:	10/31/2024	Analyst:	DJ
Arsenic	7.0	0.067	0.10	µg/L	1	11/4/2024	09:10 AM
Barium	230	0.50	10	µg/L	10	11/4/2024	09:16 AM
Manganese	460	0.46	5.0	µg/L	10	11/4/2024	09:16 AM
Molybdenum	8.2	0.063	0.50	µg/L	1	11/2/2024	08:07 AM
Selenium	ND	0.29	0.50	µg/L	1	11/2/2024	08:07 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 19-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069583
Project: PG&E Topock - PCM, 30211191
Lab ID: N069583-010

Client Sample ID: MW-22-Q424
Collection Date: 10/30/2024 1:40:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241103A	QC Batch:	113746	PrepDate:	10/31/2024	Analyst:	DJ
Arsenic	19	0.067	0.10	µg/L	1	11/4/2024	09:22 AM
Barium	90	0.050	1.0	µg/L	1	11/2/2024	08:13 AM
Manganese	2600	4.6	50	µg/L	100	11/4/2024	09:28 AM
Molybdenum	56	0.063	0.50	µg/L	1	11/2/2024	08:13 AM
Selenium	ND	0.29	0.50	µg/L	1	11/2/2024	08:13 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID MB-113746	SampType: MBLK	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195133							
Client ID: PBW	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/2/2024	SeqNo: 6283001							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	ND	0.050	1.0									
Manganese	ND	0.046	0.50									
Molybdenum	ND	0.063	0.50									
Selenium	ND	0.29	0.50									

Sample ID LCS-113746	SampType: LCS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195133							
Client ID: LCSW	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/2/2024	SeqNo: 6283002							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	9.776	0.050	1.0	10.00	0	97.8	85	115				
Manganese	92.176	0.046	0.50	100.0	0	92.2	85	115				
Molybdenum	9.765	0.063	0.50	10.00	0	97.7	85	115				
Selenium	9.785	0.29	0.50	10.00	0	97.9	85	115				

Sample ID N069583-003BMS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195133							
Client ID: ZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/2/2024	SeqNo: 6283018							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	52.403	0.050	1.0	10.00	41.59	108	75	125				
Molybdenum	14.096	0.063	0.50	10.00	3.691	104	75	125				

Sample ID N069583-003BMSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195133							
Client ID: ZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/2/2024	SeqNo: 6283019							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	51.723	0.050	1.0	10.00	41.59	101	75	125	52.40	1.31	20	
Molybdenum	14.237	0.063	0.50	10.00	3.691	105	75	125	14.10	0.999	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

Calculations are based on raw values



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID MB-113746	SampType: MBLK	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195177							
Client ID: PBW	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286028							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.067 0.10

Sample ID LCS-113746	SampType: LCS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195177							
Client ID: LCSW	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286029							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic 9.123 0.067 0.10 10.00 0 91.2 85 115

Sample ID N069583-003BMS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195177							
Client ID: ZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286052							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Selenium 5.852 0.29 0.50 10.00 0 58.5 75 125 S

Sample ID N069583-003BMS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195177							
Client ID: ZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286053							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese 555.904 0.46 5.0 100.0 446.5 109 75 125

Sample ID N069583-003BMSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195177							
Client ID: ZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286054							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Selenium 5.903 0.29 0.50 10.00 0 59.0 75 125 5.852 0.865 20 S

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| (M) Test is modified | | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID N069583-003BMSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195177							
Client ID: ZZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286055							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	545.421	0.46	5.0	100.0	446.5	98.9	75	125	555.9	1.90	20	

Sample ID N069583-003BMS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195177							
Client ID: ZZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6293883							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	11.463	0.067	0.10	10.00	1.295	102	75	125				

Sample ID N069583-003BMSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195177							
Client ID: ZZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6293885							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	11.311	0.067	0.10	10.00	1.295	100	75	125	11.46	1.33	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID N069583-003B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133							
Client ID: ZZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/2/2024	SeqNo: 6283017							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	52.141	0.050	1.0	10.00	41.59	106	80	120				
Molybdenum	14.040	0.063	0.50	10.00	3.691	103	80	120				

Sample ID N069583-003B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177							
Client ID: ZZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286050							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	6.029	0.29	0.50	10.00	0	60.3	80	120				S

Sample ID N069583-003B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177							
Client ID: ZZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286051							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	1340.810	0.46	5.0	1000	446.5	89.4	80	120				

Sample ID N069583-003B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177							
Client ID: ZZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6293881							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.536	0.067	0.10	10.00	1.295	92.4	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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ICP-MS-Metals in Water

Work Order No.: N069583
 Test Method: EPA 6020
 Analysis Date: 11/1,3/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 113746

Instrument ID: NV00922-ICP8 (ICPMS-03)
 Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to several analytes. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069583-003B DT 5x	Barium	Ba	µg/L	44.60151	PASS	41.58536	7.25%	10
N069583-003B DT 5x	Molybdenum	Mo	µg/L	4.038065	NA	3.69116	9.40%	10
N069583-003B DT 5x	Selenium	Se	µg/L	0	NA	0		10
N069583-003B DT 5x	Arsenic	As	µg/L	1.130018	NA	1.294523	12.71%	10
N069583-003B DT 5x	Chromium	Cr	µg/L	0	NA	0		10
N069583-003B DT 50x	Manganese	Mn	µg/L	456.8206	PASS	446.5084	2.31%	10

Note: NA - Not Applicable

11/13/24 00:47

N069583_6020_113746_DT

SAMPLE RECEIVING ITEMS



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Client: Arcadis		Report to: Laura Madsen		Bill to: Janet Newman		Address:		Excel EDD		RTNE		1. Chilled	
Address: 630 Plaza Dr, Suite 200		Company: Arcadis		Address:				Geotracker		RWQCB		2. Headspace	
Address: Highlands Ranch, CO 80129		Email: laura.madsen@arcadis.com		Address:				Labspec		CalTrans		3. Container Intact	
Phone: 720-344-3500		Address:		Email to: janet.newman@arcadis.com		P.O.#		Others		LEVEL III		4. Seal Present	
Submitted By: <i>Rossie T.</i>		Phone: 720-344-3771		Phone: 949 293-2445		Fax:		Specify: RWQCB		LEVEL IV		5. IR number	
Title: <i>Field Tech</i>		Fax:		Global ID:		Specify State:				Regulatory		6. Method of Cooling:	
Signature: <i>[Signature]</i> Date: <i>10/30/24</i>		Sampled By: <i>Rossie T.</i>		I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for								Sample Temp: <i>ICE</i>	
Project Name: PG&E Topock - PCM		Signature: <i>[Signature]</i> Date: <i>10/30/24</i>		Matrix								Courier: <i>ASSET</i>	
Project Number: 30211191				Ground X Sediment		250 mL poly		1 L poly		500mL poly		Tracking No.:	
				Potable		C(VI) FF (E218.6) (NH4)2, SO4, NH4, OH		Nitrate as N, sulfate (EPA 300.0)		Dissolved metals (SW6020) FF: HNO3 Arsenic, Iron, Barium, Manganese			
				NPDES				Dissolved metals (SW6020) FF: HNO3 Total Dissolved Chromium		Dissolved metals (SW6020) FF: HNO3 Molybdenum, Selenium			
				Surface				Total Organic Carbon (SM5310C); H2SO4		Dissolved metals (SW6020) FF: HNO3 Arsenic, Manganese			
								Ammonia as Nitrogen (SM4500NH3); H2SO4		Nitrate as N (EPA 300.0)			
Item No.		Laboratory Work Order No.		Sample ID/Location		Sample Date		Sample Time		Others		Remarks	
1		✓ MW-86-030-Q424		10/30/2024		9:16						E 3 P BNS	
2		✓ MW-86-066-Q424		10/30/2024		8:49						E 3 P BNS	
3		✓ MW-86-120-Q424		10/30/2024		9:44						E 3 P BNS	
4		✓ MW-86-140-Q424		10/30/2024		10:16						E 3 P BNS	
5		✓ MW-28-025-EB-Q424		10/30/2024		11:08						E 3 P BNS	
6		✓ MW-28-025-Q424		10/30/2024		11:25						E 3 P BNS	
7		✓ MW-28-090-EB-Q424		10/30/2024		11:45						E 1 P BNS	
8		✓ MW-28-090-Q424		10/30/2024		12:03						E 3 P BNS	
9		✓ MW-90-031-Q424		10/30/2024		12:44						E 3 P BNS	
10		✓ MW-22-Q424		10/30/2024		13:40						E 3 P BNS	
11		✓ EB-717-Q424 → EB-717-Q424		10/30/2024		1:50						E 3 P BNS	
12												E 3 P BNS	
13												E 3 P BNS	
14												E 3 P BNS	
Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: <i>10/30/24 1555</i>		Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: <i>10/30/24 1555</i>		Turn Around Time (TAT)		Special Instruction:							
Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: <i>10/30/24 1810</i>		Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: <i>10/30/24 1810</i>		<input type="checkbox"/> A < 24 Hrs or Same Day TAT									
Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: <i>10/30/24</i>		Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: <i>10/30/24</i>		<input type="checkbox"/> B = Next Workday									
				<input type="checkbox"/> C = 2 Workdays									
				<input type="checkbox"/> D = 3 Workdays									
				<input checked="" type="checkbox"/> E = Routine 5-7 Workdays									
Terms		5. Trip Blanks and Equipment Blanks are billable sample.		TAT Starts at 8 AM the following day if samples received after 3:00PM.		Preservatives:		Container Type:					
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.		6. Asset Laboratories is not responsible for samples collected using incorrect methodology.				H=HCL N=HNO3 S=H2SO4 C=4°C T=Tube V=VOA P=Pin							
2. Routine TAT is 5-7 business days, surcharges will apply for rush analysis		7. Terms are net 30 days.				Z=Zn(AC)2 O=NaOH T=Na2S2O3 J=Jar B=Tedlar C=Glass							
3. Less than 24 Hrs =200% Next Day=100% 2 Workdays=50% 3 Workdays=35% 4 Workdays=20%		8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.				Others/Specify: B (NH4)2SO4/NH4OH M=Metal M=Metal C=Can							
4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project		9. For subcontract analysis, TAT and Surcharges will vary.											

White=Laboratory Copy

Yellow=Customer's Copy

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

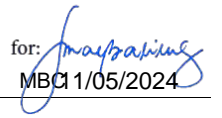
Cooler Received/Opened On: 10/30/2024 Workorder: N069583
 Rep sample Temp (Deg C): 1.7/2.5 IR Gun ID: 4
 Temp Blank: Yes No
 Carrier name: ASSET
 Last 4 digits of Tracking No.: NA Packing Material Used: None
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

- | | | | |
|---|---|-----------------------------|---|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 14. Water - pH acceptable upon receipt?
Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 15. Did the bottle labels indicate correct preservatives used? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 16. Were there Non-Conformance issues at login? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Was Client notified? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

Comments:

For: _____
 Checklist Completed By: EF YRodriguez
 10/31/2024

Reviewed By: for: 
 MBC 11/05/2024

ASSET Laboratories

WORK ORDER Summary

31-Oct-24

WorkOrder: N069583

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30211191

QC Level: Level IV

Date Received: 10/30/2024 6:10 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N069583-001A	MW-86-030-Q424	10/30/2024 9:16:00 AM	11/14/2024	Groundwater	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069583-001B			11/14/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069583-001C			11/14/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069583-002A	MW-86-066-Q424	10/30/2024 8:49:00 AM	11/14/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069583-002B			11/14/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069583-002C			11/14/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069583-003A	MW-86-120-Q424	10/30/2024 9:44:00 AM	11/14/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
N069583-003B			11/14/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
N069583-003C			11/14/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
N069583-004A	MW-86-140-Q424	10/30/2024 10:16:00 AM	11/14/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

31-Oct-24

WorkOrder: N069583

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30211191

QC Level: Level IV

Date Received: 10/30/2024 6:10 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N069583-004B	MW-86-140-Q424	10/30/2024 10:16:00 AM	11/14/2024	Groundwater	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069583-004C			11/14/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069583-005A	MW-28-025-EB-Q424	10/30/2024 11:08:00 AM	11/14/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069583-006A	MW-28-025-Q424	10/30/2024 11:25:00 AM	11/14/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069583-006B			11/14/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069583-006C			11/14/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069583-007A	MW-28-090-EB-Q424	10/30/2024 11:45:00 AM	11/14/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069583-008A	MW-28-090-Q424	10/30/2024 12:03:00 PM	11/14/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069583-008B			11/14/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069583-008C			11/14/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

31-Oct-24

WorkOrder: N069583

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30211191

QC Level: Level IV

Date Received: 10/30/2024 6:10 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N069583-009A	MW-90-031-Q424	10/30/2024 12:44:00 PM	11/14/2024	Groundwater	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069583-009B			11/14/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069583-009C			11/14/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069583-010A	MW-22-Q424	10/30/2024 1:40:00 PM	11/14/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069583-010B			11/14/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069583-010C			11/14/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069583-011A	EB-714-Q424	10/30/2024 3:00:00 PM	11/14/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069583-012A	FOLDER	11/14/2024	11/14/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			11/14/2024		Folder	Level IV Report	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			11/14/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

List of Analysts

ASSET Laboratories Work Order: N069583

NAME	TEST METHOD
Ria Abes	EPA 218.6, EPA 300.0
Diane Jetajobe	EPA 6010B_Dissolved, EPA 6020_Dissolved



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

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EPA 218.6



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IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
REV 2.0
011416

QC Batch Number: R195071
ASSET #: N068583

Instrument ID: NV00922-IC7
Analyst: RBA
Date Analyzed: 10/31/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria? (r = 0.995, r = 0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)	X			X		
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?	X			X		
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?	X			X		
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)	X			X		
14. For Hinkley DOM samples, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?	X				X	
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed?			X	X		
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)	X			X		
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments: **N069583-004A =2.0 ppb ; N068583-004B (6020) = 0.15 ppb** Please see CAR# 8282

MS protocol performed. Recovery within criteria.
Dilution was necessary for some samples due to matrix interference.

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

RBA

1st Level Reviewer _____
2nd Level Reviewer M Rocha 11/13/2024

Date: _____
Date: _____

SAMPLE CALCULATION



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL TECHNOLOGIES

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NEVADA
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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

Sample Calculation

METHOD: EPA 218.6
TEST NAME: HEXAVALENT CHROMIUM BY IC
MATRIX: Groundwater

FORMULA:

Calculate the Hexavalent Chromium concentration, in $\mu\text{g/L}$, in the original sample as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = A * \text{DF}$$

where:

A = $\mu\text{g/L}$, IC Cr+6 calculated concentration
DF = dilution factor

For Sample **N069583-004A**, the concentration in $\mu\text{g/L}$ is calculated as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = 0.3915 * 5$$

$$\text{Cr}^{+6}, \mu\text{g/L} = 1.9575$$

Reporting results in two significant figures,

$$\text{Cr}^{+6}, \mu\text{g/L} = 2.0$$

Reviewed by:

M/Rocha 12/2/2024

ANALYSIS RUN LOG



ASSET LABORATORIES
INTEGRATION • INNOVATION • IMPROVEMENT

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	ICV	ICV	1	Hexavalent Chromium	10/28/24 10:49 AM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/28/24 10:59 AM	Reported
11	ICB	ICB	1	Hexavalent Chromium	10/28/24 11:08 AM	Reported
12	MB-R194895	MBLK	1	Hexavalent Chromium	10/28/24 11:17 AM	Reported
13	LCS-R194895	LCS	1	Hexavalent Chromium	10/28/24 11:27 AM	Reported
14	N069445-001A	SAMP	1	Hexavalent Chromium	10/28/24 11:36 AM	Reported
15	N069445-001AMS	MS	1	Hexavalent Chromium	10/28/24 11:46 AM	Reported
16	N069445-001AMSD	MSD	1	Hexavalent Chromium	10/28/24 11:55 AM	Reported
17	N069445-001ADUP	DUP	1	Hexavalent Chromium	10/28/24 12:05 PM	Reported
18	N069453-001A	SAMP	1	Hexavalent Chromium	10/28/24 12:14 PM	Reported
19	N069453-002A	SAMP	1	Hexavalent Chromium	10/28/24 12:24 PM	Reported
20	N069453-003A	SAMP	1	Hexavalent Chromium	10/28/24 12:33 PM	Reported
21	N069453-004A	SAMP	1	Hexavalent Chromium	10/28/24 12:43 PM	Reported
22	CCV-1	CCV1	1	Hexavalent Chromium	10/28/24 12:52 PM	Reported
23	CCB-1	CCB	1	Hexavalent Chromium	10/28/24 1:02 PM	Reported
24	N069444-001A	SAMP	1	Hexavalent Chromium	10/28/24 1:11 PM	Reported
25	N069444-001AMS	MS	1	Hexavalent Chromium	10/28/24 1:20 PM	Reported
26	N069444-002A	SAMP	1	Hexavalent Chromium	10/28/24 1:30 PM	Reported
27	N069444-002AMS	MS	1	Hexavalent Chromium	10/28/24 1:39 PM	Reported
28	N069444-003A	SAMP	1	Hexavalent Chromium	10/28/24 1:49 PM	Not Reported
29	N069444-003AMS	MS	1	Hexavalent Chromium	10/28/24 1:58 PM	Not Reported
30	N069444-001A	SAMP	5	Hexavalent Chromium	10/28/24 2:08 PM	Not Reported
31	N069444-001AMS	MS	5	Hexavalent Chromium	10/28/24 2:17 PM	Not Reported
32	N069444-002A	SAMP	5	Hexavalent Chromium	10/28/24 2:27 PM	Not Reported
33	N069444-002AMS	MS	5	Hexavalent Chromium	10/28/24 2:36 PM	Not Reported
34	CCV-2	CCV	1	Hexavalent Chromium	10/28/24 2:46 PM	Reported
35	CCB-2	CCB	1	Hexavalent Chromium	10/28/24 2:55 PM	Reported
36	N069444-003A	SAMP	5	Hexavalent Chromium	10/28/24 3:04 PM	Reported
37	N069444-003AMS	MS	5	Hexavalent Chromium	10/28/24 3:14 PM	Reported
38	N069233-009A	SAMP	5	Hexavalent Chromium	10/28/24 3:23 PM	Not Reported
39	N069233-009AMS	MS	5	Hexavalent Chromium	10/28/24 3:33 PM	Not Reported
40	N069233-015A	SAMP	5	Hexavalent Chromium	10/28/24 3:42 PM	Not Reported
41	N069233-015AMS	MS	5	Hexavalent Chromium	10/28/24 3:52 PM	Not Reported
42	CCV-3	CCV1	1	Hexavalent Chromium	10/28/24 4:01 PM	Reported

INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	CCB-3	CCB	1	Hexavalent Chromium	10/28/24 4:11 PM	Reported
44	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 4:20 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241028A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	28/Oct/24 16:50:54
No. of Injections:	47	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	ICV,ICV,1,	9	1000	Unknown		10/28/2024 10:49	Finished	ICV @5ppb, IWST-240729B
10	PQL @0.2ppb,CCV2,	10	1000	Unknown		10/28/2024 10:59	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		10/28/2024 11:08	Finished	ICB R240926A
12	MB-H2O,MBLK,1,	12	1000	Unknown		10/28/2024 11:17	Finished	MB R240926A
13	LCS-H2O,LCS,1,	13	1000	Unknown		10/28/2024 11:27	Finished	LCS @5ppb, IWST-240729B
14	N069445-001A,SAMP	14	1000	Unknown		10/28/2024 11:36	Finished	SAMP,10 mL
15	N069445-001AMS,MS	15	1000	Unknown		10/28/2024 11:46	Finished	MS (1ppb), IWST-240729B,10r
16	N069445-001AMSD,N	16	1000	Unknown		10/28/2024 11:55	Finished	MSD (1ppb), IWST-240729B,1
17	N069445-001ADUP,D	17	1000	Unknown		10/28/2024 12:05	Finished	DUP,10 mL
18	N069453-001A,SAMP	18	1000	Unknown		10/28/2024 12:14	Finished	SAMP,10 mL
19	N069453-002A,SAMP	19	1000	Unknown		10/28/2024 12:24	Finished	SAMP,10 mL
20	N069453-003A,SAMP	20	1000	Unknown		10/28/2024 12:33	Finished	SAMP,10 mL
21	N069453-004A,SAMP	21	1000	Unknown		10/28/2024 12:43	Finished	SAMP,10 mL
22	CCV-1,CCV1,1,	22	1000	Unknown		10/28/2024 12:52	Finished	CCV @10ppb, IWST-240729A
23	CCB-1,CCB,1,	23	1000	Unknown		10/28/2024 13:02	Finished	CCB R240926A
24	N069444-001A,SAMP	24	1000	Unknown		10/28/2024 13:11	Finished	SAMP,10 mL
25	N069444-001AMS,MS	25	1000	Unknown		10/28/2024 13:20	Finished	MS (1ppb), IWST-240729B,10r
26	N069444-002A,SAMP	26	1000	Unknown		10/28/2024 13:30	Finished	SAMP,10 mL
27	N069444-002AMS,MS	27	1000	Unknown		10/28/2024 13:39	Finished	MS (1ppb), IWST-240729B,10r
28	N069444-003A,SAMP	28	1000	Unknown		10/28/2024 13:49	Finished	SAMP,10 mL
29	N069444-003AMS,MS	29	1000	Unknown		10/28/2024 13:58	Finished	MS (1ppb), IWST-240729B,10r
30	N069444-001A,SAMP	30	1000	Unknown		10/28/2024 14:08	Finished	SAMP,2>10 mL
31	N069444-001AMS,MS	31	1000	Unknown		10/28/2024 14:17	Finished	MS (1ppb), IWST-240729B,2>
32	N069444-002A,SAMP	32	1000	Unknown		10/28/2024 14:27	Finished	SAMP,2>10 mL
33	N069444-002AMS,MS	33	1000	Unknown		10/28/2024 14:36	Finished	MS (1ppb), IWST-240729B,2>
34	CCV-2,CCV,1,	34	1000	Unknown		10/28/2024 14:46	Finished	CCV @5ppb, IWST-240729A
35	CCB-2,CCB,1,	35	1000	Unknown		10/28/2024 14:55	Finished	CCB R240926A
36	N069444-003A,SAMP	36	1000	Unknown		10/28/2024 15:04	Finished	SAMP,2>10 mL
37	N069444-003AMS,MS	37	1000	Unknown		10/28/2024 15:14	Finished	MS (1ppb), IWST-240729B,2>
38	N069233-009A,SAMP	38	1000	Unknown		10/28/2024 15:23	Finished	SAMP,2>10 mL
39	N069233-009AMS,MS	39	1000	Unknown		10/28/2024 15:33	Finished	MS (1ppb), IWST-240729B,2>
40	N069233-015A,SAMP	40	1000	Unknown		10/28/2024 15:42	Finished	SAMP,2>10 mL
41	N069233-015AMS,MS	41	1000	Unknown		10/28/2024 15:52	Finished	MS (1ppb), IWST-240729B,2>
42	CCV-3,CCV1,1,	42	1000	Unknown		10/28/2024 16:01	Finished	CCV @10ppb, IWST-240729A
43	CCB-3,CCB,1,	43	1000	Unknown		10/28/2024 16:11	Finished	CCB R240926A
44	BLANK	44	1000	Unknown		10/28/2024 16:20	Finished	BLANK
45	SHUTDOWN	45	1000	Unknown		10/28/2024 16:30	Finished	
46	Eluent: R241025A	46	1000	Unknown		n.a.	Finished	
47	PCR: R241025B	47	1000	Unknown		n.a.	Finished	

INJECTION LOG: 241031A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	10/31/24 9:46 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	10/31/24 9:59 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/31/24 10:08 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	10/31/24 10:18 AM	Reported
13	MB-R195071	MBLK	1	Hexavalent Chromium	10/31/24 10:27 AM	Reported
14	LCS-R195071	LCS	1	Hexavalent Chromium	10/31/24 10:37 AM	Reported
15	N069543-018A	SAMP	1	Hexavalent Chromium	10/31/24 10:46 AM	Reported
16	N069543-018AMS	MS	1	Hexavalent Chromium	10/31/24 10:56 AM	Reported
17	N069543-019A	SAMP	1	Hexavalent Chromium	10/31/24 11:05 AM	Not Reported
18	N069543-019AMS	MS	1	Hexavalent Chromium	10/31/24 11:15 AM	Not Reported
19	N069543-020A	SAMP	1	Hexavalent Chromium	10/31/24 11:24 AM	Not Reported
20	N069543-020AMS	MS	1	Hexavalent Chromium	10/31/24 11:33 AM	Not Reported
21	N069543-021A	SAMP	1	Hexavalent Chromium	10/31/24 11:43 AM	Reported
22	N069543-021AMS	MS	1	Hexavalent Chromium	10/31/24 11:52 AM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	10/31/24 12:02 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	10/31/24 12:11 PM	Reported
25	N069583-003A	SAMP	1	Hexavalent Chromium	10/31/24 12:22 PM	Not Reported
26	N069583-003AMS	MS	1	Hexavalent Chromium	10/31/24 12:33 PM	Not Reported
27	N069583-003A	SAMP	5	Hexavalent Chromium	10/31/24 12:43 PM	Reported
28	N069583-003AMS	MS	5	Hexavalent Chromium	10/31/24 12:52 PM	Reported
29	N069583-003AMSD	MSD	5	Hexavalent Chromium	10/31/24 1:02 PM	Reported
30	N069582-002A	SAMP	50	Hexavalent Chromium	10/31/24 1:52 PM	Not Reported
31	N069582-003A	SAMP	5	Hexavalent Chromium	10/31/24 2:05 PM	Reported
32	N069582-004A	SAMP	50	Hexavalent Chromium	10/31/24 2:14 PM	Not Reported
33	N069583-002A	SAMP	1	Hexavalent Chromium	10/31/24 2:24 PM	Not Reported
34	N069583-002AMS	MS	1	Hexavalent Chromium	10/31/24 2:33 PM	Not Reported
35	CCV-3	CCV	1	Hexavalent Chromium	10/31/24 2:43 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	10/31/24 2:52 PM	Reported
37	N069583-006A	SAMP	1	Hexavalent Chromium	10/31/24 3:02 PM	Reported
38	N069583-006AMS	MS	1	Hexavalent Chromium	10/31/24 3:11 PM	Reported
39	N069585-001A	SAMP	5	Hexavalent Chromium	10/31/24 3:21 PM	Reported
40	N069585-001AMS	MS	5	Hexavalent Chromium	10/31/24 3:30 PM	Reported
41	N069585-001ADUP	DUP	5	Hexavalent Chromium	10/31/24 3:39 PM	Reported
42	N069582-002A	SAMP	5	Hexavalent Chromium	10/31/24 4:04 PM	Reported

INJECTION LOG: 241031A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069582-002AMS	MS	5	Hexavalent Chromium	10/31/24 4:16 PM	Reported
44	N069582-003AMS	MS	5	Hexavalent Chromium	10/31/24 4:26 PM	Reported
45	N069582-004AMS	MS	50	Hexavalent Chromium	10/31/24 4:35 PM	Not Reported
46	N069543-019A	SAMP	5	Hexavalent Chromium	10/31/24 4:44 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	10/31/24 4:54 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	10/31/24 5:03 PM	Reported
49	N069543-019AMS	MS	5	Hexavalent Chromium	10/31/24 5:13 PM	Reported
50	N069543-020A	SAMP	5	Hexavalent Chromium	10/31/24 5:22 PM	Reported
51	N069543-020AMS	MS	5	Hexavalent Chromium	10/31/24 5:32 PM	Reported
52	N069582-001A	SAMP	1	Hexavalent Chromium	10/31/24 5:41 PM	Reported
53	N069582-001AMS	MS	1	Hexavalent Chromium	10/31/24 5:51 PM	Reported
54	N069583-001A	SAMP	5	Hexavalent Chromium	10/31/24 6:00 PM	Reported
55	N069583-001AMS	MS	5	Hexavalent Chromium	10/31/24 6:10 PM	Reported
56	N069583-002A	SAMP	5	Hexavalent Chromium	10/31/24 6:19 PM	Reported
57	N069583-002AMS	MS	5	Hexavalent Chromium	10/31/24 6:28 PM	Reported
58	N069583-004A	SAMP	1	Hexavalent Chromium	10/31/24 6:38 PM	Not Reported
59	CCV-5	CCV	1	Hexavalent Chromium	10/31/24 6:47 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	10/31/24 6:57 PM	Reported
61	N069583-004AMS	MS	1	Hexavalent Chromium	10/31/24 7:06 PM	Not Reported
62	N069583-004A	SAMP	5	Hexavalent Chromium	10/31/24 7:16 PM	Reported
63	N069583-004AMS	MS	5	Hexavalent Chromium	10/31/24 7:25 PM	Reported
64	N069583-005A	SAMP	1	Hexavalent Chromium	10/31/24 7:35 PM	Reported
65	N069583-005AMS	MS	1	Hexavalent Chromium	10/31/24 7:44 PM	Reported
66	N069583-007A	SAMP	1	Hexavalent Chromium	10/31/24 7:54 PM	Reported
67	N069583-007AMS	MS	1	Hexavalent Chromium	10/31/24 8:03 PM	Reported
68	N069583-008A	SAMP	1	Hexavalent Chromium	10/31/24 8:12 PM	Not Reported
69	N069583-008AMS	MS	1	Hexavalent Chromium	10/31/24 8:22 PM	Not Reported
70	N069583-008A	SAMP	5	Hexavalent Chromium	10/31/24 8:31 PM	Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	10/31/24 8:41 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	10/31/24 8:50 PM	Reported
73	N069583-008AMS	MS	5	Hexavalent Chromium	10/31/24 9:00 PM	Reported
74	N069583-009A	SAMP	1	Hexavalent Chromium	10/31/24 9:09 PM	Not Reported
75	N069583-009AMS	MS	1	Hexavalent Chromium	10/31/24 9:19 PM	Not Reported
76	N069583-009A	SAMP	5	Hexavalent Chromium	10/31/24 9:28 PM	Reported
77	N069583-009AMS	MS	5	Hexavalent Chromium	10/31/24 9:38 PM	Reported
78	N069583-010A	SAMP	1	Hexavalent Chromium	10/31/24 9:47 PM	Not Reported
79	N069583-010AMS	MS	1	Hexavalent Chromium	10/31/24 9:56 PM	Not Reported
80	N069583-010A	SAMP	5	Hexavalent Chromium	10/31/24 10:06 PM	Reported
81	N069583-010AMS	MS	5	Hexavalent Chromium	10/31/24 10:15 PM	Reported
82	N069583-011A	SAMP	1	Hexavalent Chromium	10/31/24 10:25 PM	Reported
83	CCV-7	CCV	1	Hexavalent Chromium	10/31/24 10:34 PM	Reported
84	CCB-7	CCB	1	Hexavalent Chromium	10/31/24 10:44 PM	Reported

INJECTION LOG: 241031A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N069583-011AMS	MS	1	Hexavalent Chromium	10/31/24 10:53 PM	Reported
86	CCV-8	CCV1	1	Hexavalent Chromium	10/31/24 11:03 PM	Reported
87	CCB-8	CCB	1	Hexavalent Chromium	10/31/24 11:12 PM	Reported
88	BLANK	BLANK	1	Hexavalent Chromium	10/31/24 11:22 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241031A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	31/Oct/24 23:52:19
No. of Injections:	91	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	BLANK	1	1000	Unknown		10/31/2024 09:46	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		10/31/2024 09:59	Finished	CCV @5ppb, IWST-240729A
11	PQL @0.2ppb,CCV2,	3	1000	Unknown		10/31/2024 10:08	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		10/31/2024 10:18	Finished	CCB R241001A
13	MB-H2O,MBLK,1,	5	1000	Unknown		10/31/2024 10:27	Finished	MB R241001A
14	LCS-H2O,LCS,1,	6	1000	Unknown		10/31/2024 10:37	Finished	LCS @5ppb, IWST-240729B
15	N069543-018A,SAMP	7	1000	Unknown		10/31/2024 10:46	Finished	SAMP,10 mL
16	N069543-018AMS,M\$	8	1000	Unknown		10/31/2024 10:56	Finished	MS (1ppb), IWST-240729B,10r
17	N069543-019A,SAMP	9	1000	Unknown		10/31/2024 11:05	Finished	SAMP,10 mL
18	N069543-019AMS,M\$	10	1000	Unknown		10/31/2024 11:15	Finished	MS (1ppb), IWST-240729B,10r
19	N069543-020A,SAMP	11	1000	Unknown		10/31/2024 11:24	Finished	SAMP,10 mL
20	N069543-020AMS,M\$	12	1000	Unknown		10/31/2024 11:33	Finished	MS (1ppb), IWST-240729B,10r
21	N069543-021A,SAMP	13	1000	Unknown		10/31/2024 11:43	Finished	SAMP,10 mL
22	N069543-021AMS,M\$	14	1000	Unknown		10/31/2024 11:52	Finished	MS (1ppb), IWST-240729B,10r
23	CCV-2,CCV1,1,	15	1000	Unknown		10/31/2024 12:02	Finished	CCV @10ppb, IWST-240729A
24	CCB-2,CCB,1,	16	1000	Unknown		10/31/2024 12:11	Finished	CCB R241001A
25	N069583-003A,SAMP	1	1000	Unknown		10/31/2024 12:22	Finished	SAMP,10 mL
26	N069583-003AMS,M\$	2	1000	Unknown		10/31/2024 12:33	Finished	MS (1ppb), IWST-240729B,10r
27	N069583-003A,SAMP	3	1000	Unknown		10/31/2024 12:43	Finished	SAMP,2>10 mL
28	N069583-003AMS,M\$	4	1000	Unknown		10/31/2024 12:52	Finished	MS (1ppb), IWST-240729B,2>
29	N069583-003AMSD,M	5	1000	Unknown		10/31/2024 13:02	Finished	MSD (1ppb), IWST-240729B,2>
30	N069582-002A,SAMP	1	1000	Unknown		10/31/2024 13:52	Finished	SAMP,0.2>10 mL
31	N069582-003A,SAMP	2	1000	Unknown		10/31/2024 14:05	Finished	SAMP,2>10 mL
32	N069582-004A,SAMP	3	1000	Unknown		10/31/2024 14:14	Finished	SAMP,0.2>10 mL
33	N069583-002A,SAMP	4	1000	Unknown		10/31/2024 14:24	Finished	SAMP,10 mL
34	N069583-002AMS,M\$	5	1000	Unknown		10/31/2024 14:33	Finished	MS (1ppb), IWST-240729B,10r
35	CCV-3,CCV,1,	6	1000	Unknown		10/31/2024 14:43	Finished	CCV @5ppb, IWST-240729A
36	CCB-3,CCB,1,	7	1000	Unknown		10/31/2024 14:52	Finished	CCB R241001A
37	N069583-006A,SAMP	8	1000	Unknown		10/31/2024 15:02	Finished	SAMP,10 mL
38	N069583-006AMS,M\$	9	1000	Unknown		10/31/2024 15:11	Finished	MS (1ppb), IWST-240729B,10r
39	N069585-001A,SAMP	10	1000	Unknown		10/31/2024 15:21	Finished	SAMP,2>10 mL
40	N069585-001AMS,M\$	11	1000	Unknown		10/31/2024 15:30	Finished	MS (5ppb), IWST-240729B,2>
41	N069585-001ADUP,D	12	1000	Unknown		10/31/2024 15:39	Finished	DUP,2>10 mL
42	N069582-002A,SAMP	1	1000	Unknown		10/31/2024 16:04	Finished	SAMP,2>10 mL
43	N069582-002AMS,M\$	2	1000	Unknown		10/31/2024 16:16	Finished	MS (5ppb), IWST-240729B,2>
44	N069582-003AMS,M\$	3	1000	Unknown		10/31/2024 16:26	Finished	MS (5ppb), IWST-240729B,2>
45	N069582-004AMS,M\$	4	1000	Unknown		10/31/2024 16:35	Finished	MS (5ppb), IWST-240729B,0.2
46	N069543-019A,SAMP	5	1000	Unknown		10/31/2024 16:44	Finished	SAMP,2>10 mL
47	CCV-4,CCV1,1,	6	1000	Unknown		10/31/2024 16:54	Finished	CCV @10ppb, IWST-240729A
48	CCB-4,CCB,1,	7	1000	Unknown		10/31/2024 17:03	Finished	CCB R241001A
49	N069543-019AMS,M\$	8	1000	Unknown		10/31/2024 17:13	Finished	MS (1ppb), IWST-240729B,2>
50	N069543-020A,SAMP	9	1000	Unknown		10/31/2024 17:22	Finished	SAMP,2>10 mL
51	N069543-020AMS,M\$	10	1000	Unknown		10/31/2024 17:32	Finished	MS (1ppb), IWST-240729B,2>
52	N069582-001A,SAMP	11	1000	Unknown		10/31/2024 17:41	Finished	SAMP,10 mL
53	N069582-001AMS,M\$	12	1000	Unknown		10/31/2024 17:51	Finished	MS (1ppb), IWST-240729B,10r
54	N069583-001A,SAMP	13	1000	Unknown		10/31/2024 18:00	Finished	SAMP,2>10 mL
55	N069583-001AMS,M\$	14	1000	Unknown		10/31/2024 18:10	Finished	MS (1ppb), IWST-240729B,2>
56	N069583-002A,SAMP	15	1000	Unknown		10/31/2024 18:19	Finished	SAMP,2>10 mL
57	N069583-002AMS,M\$	16	1000	Unknown		10/31/2024 18:28	Finished	MS (1ppb), IWST-240729B,2>
58	N069583-004A,SAMP	17	1000	Unknown		10/31/2024 18:38	Finished	SAMP,10 mL
59	CCV-5,CCV,1,	18	1000	Unknown		10/31/2024 18:47	Finished	CCV @5ppb, IWST-240729A
60	CCB-5,CCB,1,	19	1000	Unknown		10/31/2024 18:57	Finished	CCB R241001A

61	N069583-004AMS.M\$	20	1000	Unknown	10/31/2024 19:06	Finished	MS (1ppb), IWST-240729B,10r
62	N069583-004A,SAMF	21	1000	Unknown	10/31/2024 19:16	Finished	SAMP,2>10 mL
63	N069583-004AMS.M\$	22	1000	Unknown	10/31/2024 19:25	Finished	MS (1ppb), IWST-240729B,2>
64	N069583-005A,SAMF	23	1000	Unknown	10/31/2024 19:35	Finished	SAMP,10 mL
65	N069583-005AMS.M\$	24	1000	Unknown	10/31/2024 19:44	Finished	MS (1ppb), IWST-240729B,10r
66	N069583-007A,SAMF	25	1000	Unknown	10/31/2024 19:54	Finished	SAMP,10 mL
67	N069583-007AMS.M\$	26	1000	Unknown	10/31/2024 20:03	Finished	MS (1ppb), IWST-240729B,10r
68	N069583-008A,SAMF	27	1000	Unknown	10/31/2024 20:12	Finished	SAMP,10 mL
69	N069583-008AMS.M\$	28	1000	Unknown	10/31/2024 20:22	Finished	MS (1ppb), IWST-240729B,10r
70	N069583-008A,SAMF	29	1000	Unknown	10/31/2024 20:31	Finished	SAMP,2>10 mL
71	CCV-6,CCV1,1,	30	1000	Unknown	10/31/2024 20:41	Finished	CCV @10ppb, IWST-240729A
72	CCB-6,CCB,1,	31	1000	Unknown	10/31/2024 20:50	Finished	CCB R241001A
73	N069583-008AMS.M\$	32	1000	Unknown	10/31/2024 21:00	Finished	MS (1ppb), IWST-240729B,2>
74	N069583-009A,SAMF	33	1000	Unknown	10/31/2024 21:09	Finished	SAMP,10 mL
75	N069583-009AMS.M\$	34	1000	Unknown	10/31/2024 21:19	Finished	MS (1ppb), IWST-240729B,10r
76	N069583-009A,SAMF	35	1000	Unknown	10/31/2024 21:28	Finished	SAMP,2>10 mL
77	N069583-009AMS.M\$	36	1000	Unknown	10/31/2024 21:38	Finished	MS (1ppb), IWST-240729B,2>
78	N069583-010A,SAMF	37	1000	Unknown	10/31/2024 21:47	Finished	SAMP,10 mL
79	N069583-010AMS.M\$	38	1000	Unknown	10/31/2024 21:56	Finished	MS (1ppb), IWST-240729B,10r
80	N069583-010A,SAMF	39	1000	Unknown	10/31/2024 22:06	Finished	SAMP,2>10 mL
81	N069583-010AMS.M\$	40	1000	Unknown	10/31/2024 22:15	Finished	MS (1ppb), IWST-240729B,2>
82	N069583-011A,SAMF	41	1000	Unknown	10/31/2024 22:25	Finished	SAMP,10 mL
83	CCV-7,CCV,1,	42	1000	Unknown	10/31/2024 22:34	Finished	CCV @5ppb, IWST-240729A
84	CCB-7,CCB,1,	43	1000	Unknown	10/31/2024 22:44	Finished	CCB R241001A
85	N069583-011AMS.M\$	44	1000	Unknown	10/31/2024 22:53	Finished	MS (1ppb), IWST-240729B,10r
86	CCV-8,CCV1,1,	45	1000	Unknown	10/31/2024 23:03	Finished	CCV @10ppb, IWST-240729A
87	CCB-8,CCB,1,	46	1000	Unknown	10/31/2024 23:12	Finished	CCB R241001A
88	BLANK	47	1000	Unknown	10/31/2024 23:22	Finished	BLANK
89	SHUTDOWN	48	1000	Unknown	10/31/2024 23:31	Finished	
90	Eluent: R241029A	49	1000	Unknown	n.a.	Finished	
91	PCR: R241029B	50	1000	Unknown	n.a.	Finished	

SAMPLE PREPARATION LOG



ASSET LABORATORIES
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NEVADA
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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

Hexavalent Chromium Preparation and Runlog

Sample Preparation

Date Prepared: 10/31/24
 Time Prepared: 6:56H
 Prepared By: NA

Reagent ID:
 Sulfuric Acid: 16020 pH meter ID: 01
 Diphenylcarbazide: 16810
 NH4OH + NH4SO4 eluent: R241029A
 NH4OH + NH4SO4 buffer: R241001A
 CW N 90A
 R241001A

	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	N069582-1A	9.67	-	-250ml	-250ml		
2)	2A	9.33	-				
3)	3A	9.76	-				
4)	4A	9.45	-				
5)	5A	9.48	-				
6)	6A	9.44	-				
7)	N069583-1A	9.72	-				
8)	2A	9.46	-				
9)	3A	9.05	9.44			+4	
10)	4A	9.16	9.38			+3	
11)	5A	9.68	-				
12)	6A	9.71	-				
13)	7A	9.70	-				
14)	8A	9.14	9.49			+4	
15)	9A	9.38	-				
	10A	9.72	-				

Sample Preparation

Date Prepared: 10/31/24
 Time Prepared: 09:56H
 Prepared By: NA

Reagent ID:
 Sulfuric Acid: 16020 pH meter ID: 01
 Diphenylcarbazide: 16810
 NH4OH + NH4SO4 eluent: R241029A
 NH4OH + NH4SO4 buffer: R241001A

	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	N069587-11A	9.71	-	-200ml	-200ml		
2)	N069585-1A	9.40	-				
3)							
4)							
5)							
6)							
7)							
8)							
9)							
10)							
11)							
12)							
13)							
14)							
15)							

Logbook No. 26



ASSET LABORATORIES

ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

"Serving Clients with Passion and Professionalism"

INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
INTEGRATION OF ENVIRONMENTAL TECHNOLOGIES

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"Serving Clients with Passion and Professionalism"

(EPA 218.6) - INITIAL CALIBRATION

Instrument ID: NV00922-IC7
Date Calibrated: 10/28/2024

Initial Calibration:

Hexavalent Chromium	STD1	STD2	STD3	STD4	STD5	STD6	
COMPOUND, in ug/L	0.2	1	5	10	15	20	R ²
Area,mAU*min	0.0527	0.2779	1.4196	2.8235	4.2553	5.6829	1.0000
Measured, in ug/L	0.185700	0.979400	5.002800	9.950700	14.996600	20.027700	
Relative Error (%RE)	-7.2%		0.1%				

	Stock	Working
Standard Concentration:	1,000,000 PPB	1,000 PPB
Standard ID:	ISST-240705H	IWST-240729A

Calibration Acceptance Criteria: > 0.999 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: ICV	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6279536							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.730	0.20	5.000	0	94.6	90	110				

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6279537							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.211	0.20	0.2000	0	106	80	120				

Sample ID CCV-1	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: CCV	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279539							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.948	0.20	5.000	0	99.0	95	105				

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279540							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.193	0.20	0.2000	0	96.5	80	120				

Sample ID CCV-2	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279548							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.882	0.20	10.00	0	98.8	95	105				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCV-3	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: CCV	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279554	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	4.909	0.20	5.000	0	98.2 95 105

Sample ID CCV-4	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279565	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	9.967	0.20	10.00	0	99.7 95 105

Sample ID CCV-5	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: CCV	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279576	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	4.851	0.20	5.000	0	97.0 95 105

Sample ID CCV-6	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279585	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	9.809	0.20	10.00	0	98.1 95 105

Sample ID CCV-7	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: CCV	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279593	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	4.943	0.20	5.000	0	98.9 95 105

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCV-8	SampType: CCV1	TestCode: 218.6_WPGE Units: µg/L			Prep Date:			RunNo: 195071			
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6			Analysis Date: 10/31/2024			SeqNo: 6279596			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.891	0.20	10.00	0	98.9	95	105				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: ICB	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/28/2024	SeqNo: 6279538						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-1	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: CCB	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279541						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-2	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: CCB	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279549						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-3	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: CCB	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279555						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-4	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: CCB	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279566						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCB-5	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: CCB	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279577						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

ND

0.20

Sample ID CCB-6	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: CCB	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279586						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

ND

0.20

Sample ID CCB-7	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: CCB	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279594						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

ND

0.20

Sample ID CCB-8	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: CCB	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279597						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

ND

0.20

Qualifiers:

B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out

E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values

H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 (M) Test is modified

RETENTION TIME SUMMARY



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RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/31/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.723	
CCV-2	5.723	
CCV-3	5.723	
CCV-4	5.715	
CCV-5	5.715	
CCV-6	5.715	
CCV-7	5.715	
CCV-8	5.715	

Average 5.718
Actual RT Window 5.638 - 5.798
Applied RT Window 5.518 - 5.918

MB-R195071	N.A.	N.A.
LCS-R195071	5.731	PASS
N069543-018A	N.A.	N.A.
N069543-018AMS	5.715	PASS
N069543-021A	5.715	PASS
N069543-021AMS	5.723	PASS
N069583-003A	N.A.	N.A.
N069583-003A	N.A.	N.A.
N069583-003AMS	5.681	PASS
N069583-003AMSD	5.690	PASS
N069582-002A	5.740	PASS
N069582-003A	5.715	PASS
N069582-004A	5.715	PASS
N069583-002A	N.A.	N.A.
N069583-002AMS	5.556	PASS
N069583-006A	N.A.	N.A.
N069583-006AMS	5.715	PASS
N069585-001A	5.715	PASS
N069585-001AMS	5.715	PASS
N069585-001ADUP	5.715	PASS

Reviewed by:

MRecha 11/13/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/31/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.723	
CCV-2	5.723	
CCV-3	5.723	
CCV-4	5.715	
CCV-5	5.715	
CCV-6	5.715	
CCV-7	5.715	
CCV-8	5.715	

Average 5.718
Actual RT Window 5.638 - 5.798
Applied RT Window 5.518 - 5.918

N069582-002A	5.640	PASS
N069582-002AMS	5.631	PASS
N069582-003AMS	5.715	PASS
N069582-004AMS	5.715	PASS
N069543-019A	5.673	PASS
N069543-019AMS	5.673	PASS
N069543-020A	5.673	PASS
N069543-020AMS	5.665	PASS
N069582-001A	N.A.	N.A.
N069582-001AMS	5.715	PASS
N069583-001A	5.715	PASS
N069583-001AMS	5.706	PASS
N069583-002A	N.A.	N.A.
N069583-002AMS	5.690	PASS
N069583-004A	5.673	PASS
N069583-004AMS	5.673	PASS
N069583-005A	N.A.	N.A.
N069583-005AMS	5.706	PASS
N069583-007A	N.A.	N.A.
N069583-007AMS	5.715	PASS

Reviewed by:

M. Rocha 11/13/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/31/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.723	
CCV-2	5.723	
CCV-3	5.723	
CCV-4	5.715	
CCV-5	5.715	
CCV-6	5.715	
CCV-7	5.715	
CCV-8	5.715	

Average 5.718
Actual RT Window 5.638 - 5.798
Applied RT Window 5.518 - 5.918

N069583-008A	N.A.	N.A.
N069583-008AMS	5.573	PASS
N069583-008A	N.A.	N.A.
N069583-008AMS	5.681	PASS
N069583-009A	N.A.	N.A.
N069583-009AMS	N.A.	N.A.
N069583-009A	N.A.	N.A.
N069583-009AMS	5.656	PASS
N069583-010A	N.A.	N.A.
N069583-010AMS	N.A.	N.A.
N069583-010A	N.A.	N.A.
N069583-010AMS	5.623	PASS
N069583-011A	N.A.	N.A.
N069583-011AMS	5.715	PASS

Reviewed by:

M. Rocha 11/13/2024

CORRECTIVE ACTION DOCUMENTATION



ASSET LABORATORIES
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ASSET Laboratories

Corrective Action Report (CAR)

Date Initiated: 17-Dec-24

Corrective Action Report ID: 8282

Initiated By: Mara Ailyn Rocha

Department: II-1(Cr6)

Corrective Action Description

CAR Summary: N069583-004 reported with no Cr 6+ confirmation

Description of Nonconformance: N069583-004 was reported with hit at 1.9575 ppb. Cr6+ confirmation showed a result at 0.1174 ppb. However, the confirmation batch was analyzed with no valid batch QC samples. A second confirmation was performed but sample is already past holding time.

Description of Corrective Action: Sample was reported in initial run.

Performed By: Mara Ailyn Rocha

Completion Date: 17-Dec-24

Client Notification

Client Notification Required: Yes

Notified By:

Comment: thru Level IV data package

Quality Assurance Review

Corrective Action: Deficiency

Further Action required by QA:

Approval and Closure

CAR Closed By: _____

Close Date:

QA Reviewed By: _____

QA Date: 17-Dec-24


Mara Ailyn Rocha

Last Updated BY: MaraR

Updated: 17-Dec-2024 9:55 PM

Reported: 17-Dec-2024 9:55 PM

MDL STUDY



ASSET LABORATORIES
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METHOD DETECTION LIMIT (Spiked)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): 10/4/2022, 11/15/2022, 1/4/2023, 3/1/2023, 4/4/2023, 5/16/2023, 7/10/2023, 8/2/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: ug/L

Instrument Name: **IC-07**

Datafile 221004A D12 221115A D12 230104A D11 230301C D14 230404A D11 230516A D11 230710A D12 230802A D11

Analyte	#1	#2	#3	#4	#5	#6	#7	#8	Spike Conc., ug/L	SD	t _(n-1) value	MDLs	PQL
Hexavalent Chromium	0.199	0.194	0.169	0.190	0.167	0.194	0.201	0.185	0.20	0.0129	2.998	0.0387	0.20

METHOD DETECTION LIMIT (Blanks)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Instrument Name: **IC-07**

Analyte	MDLb	#of Records
Hexavalent Chromium	0.00	166

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

RAW DATA



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INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	ICV	ICV	1	Hexavalent Chromium	10/28/24 10:49 AM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/28/24 10:59 AM	Reported
11	ICB	ICB	1	Hexavalent Chromium	10/28/24 11:08 AM	Reported
12	MB-R194895	MBLK	1	Hexavalent Chromium	10/28/24 11:17 AM	Reported
13	LCS-R194895	LCS	1	Hexavalent Chromium	10/28/24 11:27 AM	Reported
14	N069445-001A	SAMP	1	Hexavalent Chromium	10/28/24 11:36 AM	Reported
15	N069445-001AMS	MS	1	Hexavalent Chromium	10/28/24 11:46 AM	Reported
16	N069445-001AMSD	MSD	1	Hexavalent Chromium	10/28/24 11:55 AM	Reported
17	N069445-001ADUP	DUP	1	Hexavalent Chromium	10/28/24 12:05 PM	Reported
18	N069453-001A	SAMP	1	Hexavalent Chromium	10/28/24 12:14 PM	Reported
19	N069453-002A	SAMP	1	Hexavalent Chromium	10/28/24 12:24 PM	Reported
20	N069453-003A	SAMP	1	Hexavalent Chromium	10/28/24 12:33 PM	Reported
21	N069453-004A	SAMP	1	Hexavalent Chromium	10/28/24 12:43 PM	Reported
22	CCV-1	CCV1	1	Hexavalent Chromium	10/28/24 12:52 PM	Reported
23	CCB-1	CCB	1	Hexavalent Chromium	10/28/24 1:02 PM	Reported
24	N069444-001A	SAMP	1	Hexavalent Chromium	10/28/24 1:11 PM	Reported
25	N069444-001AMS	MS	1	Hexavalent Chromium	10/28/24 1:20 PM	Reported
26	N069444-002A	SAMP	1	Hexavalent Chromium	10/28/24 1:30 PM	Reported
27	N069444-002AMS	MS	1	Hexavalent Chromium	10/28/24 1:39 PM	Reported
28	N069444-003A	SAMP	1	Hexavalent Chromium	10/28/24 1:49 PM	Not Reported
29	N069444-003AMS	MS	1	Hexavalent Chromium	10/28/24 1:58 PM	Not Reported
30	N069444-001A	SAMP	5	Hexavalent Chromium	10/28/24 2:08 PM	Not Reported
31	N069444-001AMS	MS	5	Hexavalent Chromium	10/28/24 2:17 PM	Not Reported
32	N069444-002A	SAMP	5	Hexavalent Chromium	10/28/24 2:27 PM	Not Reported
33	N069444-002AMS	MS	5	Hexavalent Chromium	10/28/24 2:36 PM	Not Reported
34	CCV-2	CCV	1	Hexavalent Chromium	10/28/24 2:46 PM	Reported
35	CCB-2	CCB	1	Hexavalent Chromium	10/28/24 2:55 PM	Reported
36	N069444-003A	SAMP	5	Hexavalent Chromium	10/28/24 3:04 PM	Reported
37	N069444-003AMS	MS	5	Hexavalent Chromium	10/28/24 3:14 PM	Reported
38	N069233-009A	SAMP	5	Hexavalent Chromium	10/28/24 3:23 PM	Not Reported
39	N069233-009AMS	MS	5	Hexavalent Chromium	10/28/24 3:33 PM	Not Reported
40	N069233-015A	SAMP	5	Hexavalent Chromium	10/28/24 3:42 PM	Not Reported
41	N069233-015AMS	MS	5	Hexavalent Chromium	10/28/24 3:52 PM	Not Reported
42	CCV-3	CCV1	1	Hexavalent Chromium	10/28/24 4:01 PM	Reported

INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	CCB-3	CCB	1	Hexavalent Chromium	10/28/24 4:11 PM	Reported
44	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 4:20 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241028A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	28/Oct/24 16:50:54
No. of Injections:	47	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	ICV,ICV,1,	9	1000	Unknown		10/28/2024 10:49	Finished	ICV @5ppb, IWST-240729B
10	PQL @0.2ppb,CCV2,	10	1000	Unknown		10/28/2024 10:59	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		10/28/2024 11:08	Finished	ICB R240926A
12	MB-H2O,MBLK,1,	12	1000	Unknown		10/28/2024 11:17	Finished	MB R240926A
13	LCS-H2O,LCS,1,	13	1000	Unknown		10/28/2024 11:27	Finished	LCS @5ppb, IWST-240729B
14	N069445-001A,SAMP	14	1000	Unknown		10/28/2024 11:36	Finished	SAMP,10 mL
15	N069445-001AMS,M	15	1000	Unknown		10/28/2024 11:46	Finished	MS (1ppb), IWST-240729B,10r
16	N069445-001AMSD,N	16	1000	Unknown		10/28/2024 11:55	Finished	MSD (1ppb), IWST-240729B,10r
17	N069445-001ADUP,D	17	1000	Unknown		10/28/2024 12:05	Finished	DUP,10 mL
18	N069453-001A,SAMP	18	1000	Unknown		10/28/2024 12:14	Finished	SAMP,10 mL
19	N069453-002A,SAMP	19	1000	Unknown		10/28/2024 12:24	Finished	SAMP,10 mL
20	N069453-003A,SAMP	20	1000	Unknown		10/28/2024 12:33	Finished	SAMP,10 mL
21	N069453-004A,SAMP	21	1000	Unknown		10/28/2024 12:43	Finished	SAMP,10 mL
22	CCV-1,CCV1,1,	22	1000	Unknown		10/28/2024 12:52	Finished	CCV @10ppb, IWST-240729A
23	CCB-1,CCB,1,	23	1000	Unknown		10/28/2024 13:02	Finished	CCB R240926A
24	N069444-001A,SAMP	24	1000	Unknown		10/28/2024 13:11	Finished	SAMP,10 mL
25	N069444-001AMS,M	25	1000	Unknown		10/28/2024 13:20	Finished	MS (1ppb), IWST-240729B,10r
26	N069444-002A,SAMP	26	1000	Unknown		10/28/2024 13:30	Finished	SAMP,10 mL
27	N069444-002AMS,M	27	1000	Unknown		10/28/2024 13:39	Finished	MS (1ppb), IWST-240729B,10r
28	N069444-003A,SAMP	28	1000	Unknown		10/28/2024 13:49	Finished	SAMP,10 mL
29	N069444-003AMS,M	29	1000	Unknown		10/28/2024 13:58	Finished	MS (1ppb), IWST-240729B,10r
30	N069444-001A,SAMP	30	1000	Unknown		10/28/2024 14:08	Finished	SAMP,2>10 mL
31	N069444-001AMS,M	31	1000	Unknown		10/28/2024 14:17	Finished	MS (1ppb), IWST-240729B,2>10
32	N069444-002A,SAMP	32	1000	Unknown		10/28/2024 14:27	Finished	SAMP,2>10 mL
33	N069444-002AMS,M	33	1000	Unknown		10/28/2024 14:36	Finished	MS (1ppb), IWST-240729B,2>10
34	CCV-2,CCV,1,	34	1000	Unknown		10/28/2024 14:46	Finished	CCV @5ppb, IWST-240729A
35	CCB-2,CCB,1,	35	1000	Unknown		10/28/2024 14:55	Finished	CCB R240926A
36	N069444-003A,SAMP	36	1000	Unknown		10/28/2024 15:04	Finished	SAMP,2>10 mL
37	N069444-003AMS,M	37	1000	Unknown		10/28/2024 15:14	Finished	MS (1ppb), IWST-240729B,2>10
38	N069233-009A,SAMP	38	1000	Unknown		10/28/2024 15:23	Finished	SAMP,2>10 mL
39	N069233-009AMS,M	39	1000	Unknown		10/28/2024 15:33	Finished	MS (1ppb), IWST-240729B,2>10
40	N069233-015A,SAMP	40	1000	Unknown		10/28/2024 15:42	Finished	SAMP,2>10 mL
41	N069233-015AMS,M	41	1000	Unknown		10/28/2024 15:52	Finished	MS (1ppb), IWST-240729B,2>10
42	CCV-3,CCV1,1,	42	1000	Unknown		10/28/2024 16:01	Finished	CCV @10ppb, IWST-240729A
43	CCB-3,CCB,1,	43	1000	Unknown		10/28/2024 16:11	Finished	CCB R240926A
44	BLANK	44	1000	Unknown		10/28/2024 16:20	Finished	BLANK
45	SHUTDOWN	45	1000	Unknown		10/28/2024 16:30	Finished	
46	Eluent: R241025A	46	1000	Unknown		n.a.	Finished	
47	PCR: R241025B	47	1000	Unknown		n.a.	Finished	

Reviewed by:

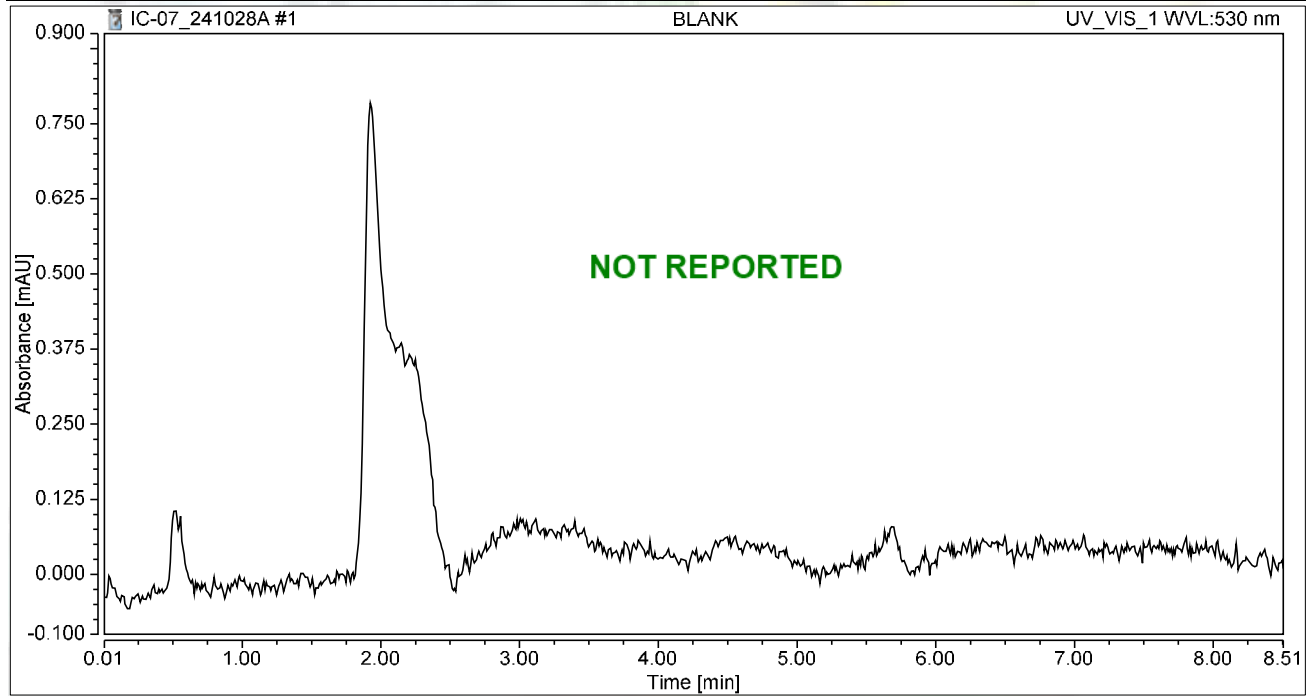
d/Recha 11/3/2024

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 09:30	Sample Weight:	1.0000

Chromatogram



Integration Results

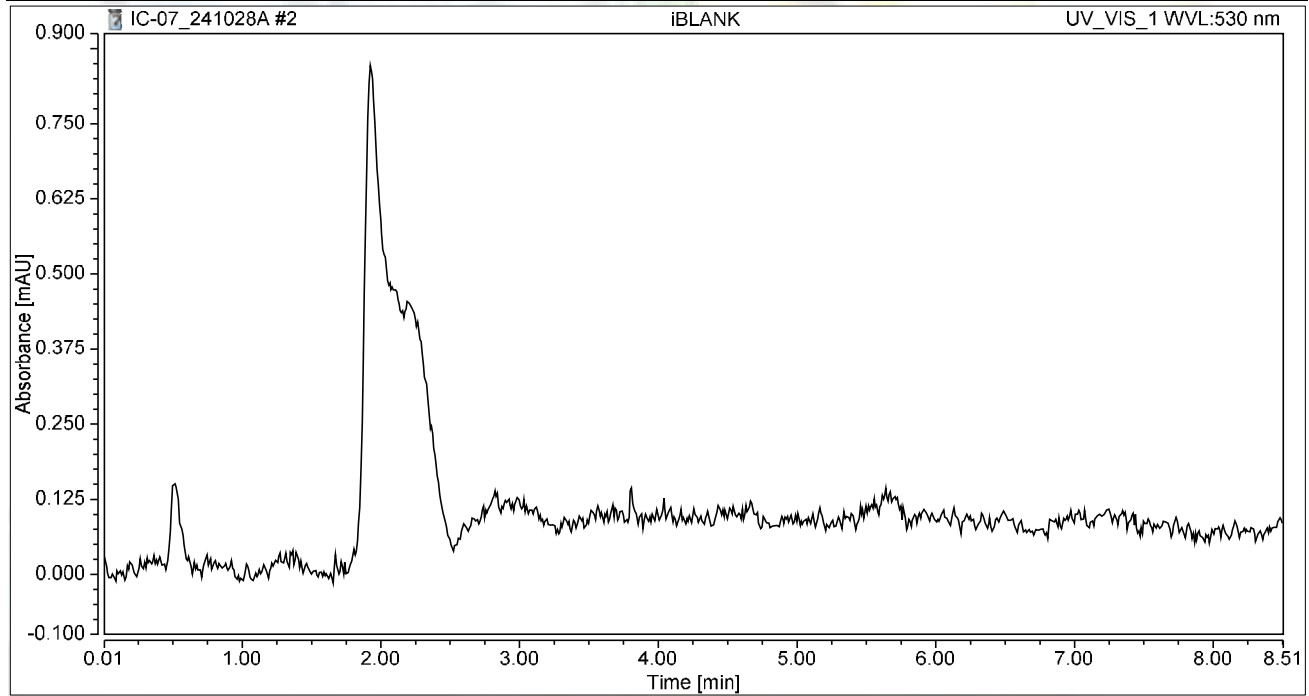
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	iBLANK	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 09:43	Sample Weight:	1.0000

Chromatogram



Integration Results

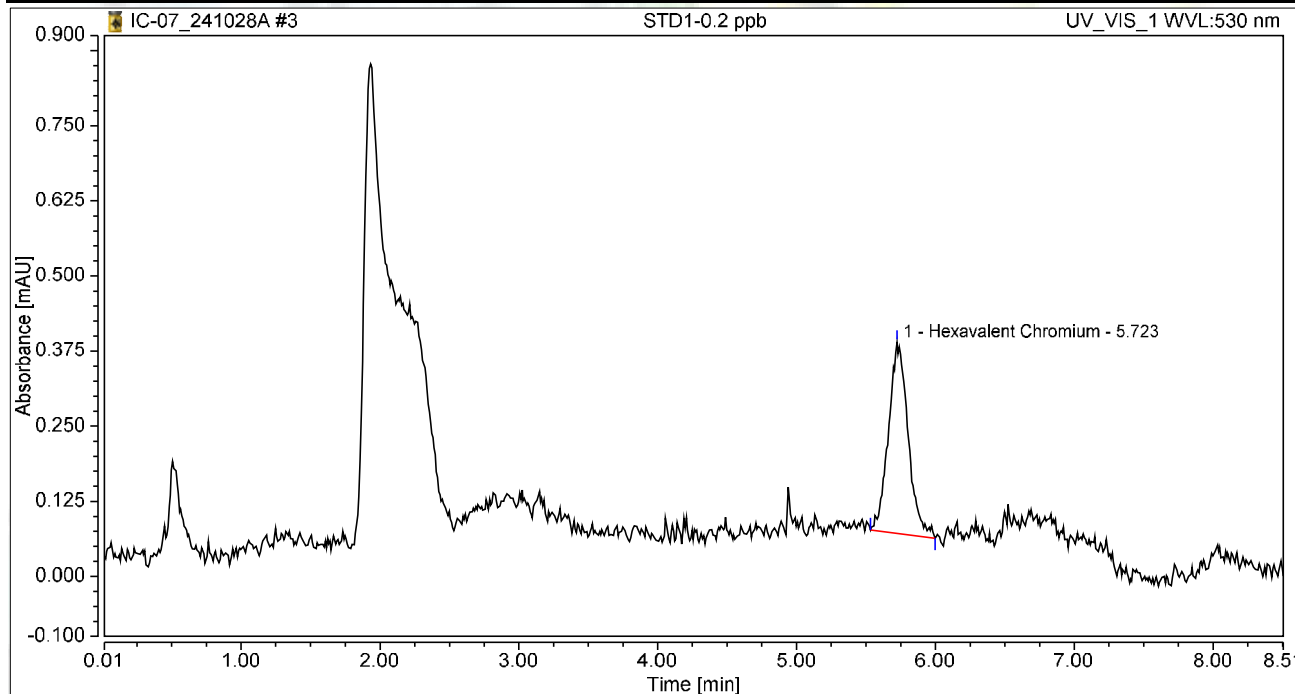
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	STD1-0.2 ppb	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	01	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 09:52	Sample Weight:	1.0000

Chromatogram



Integration Results

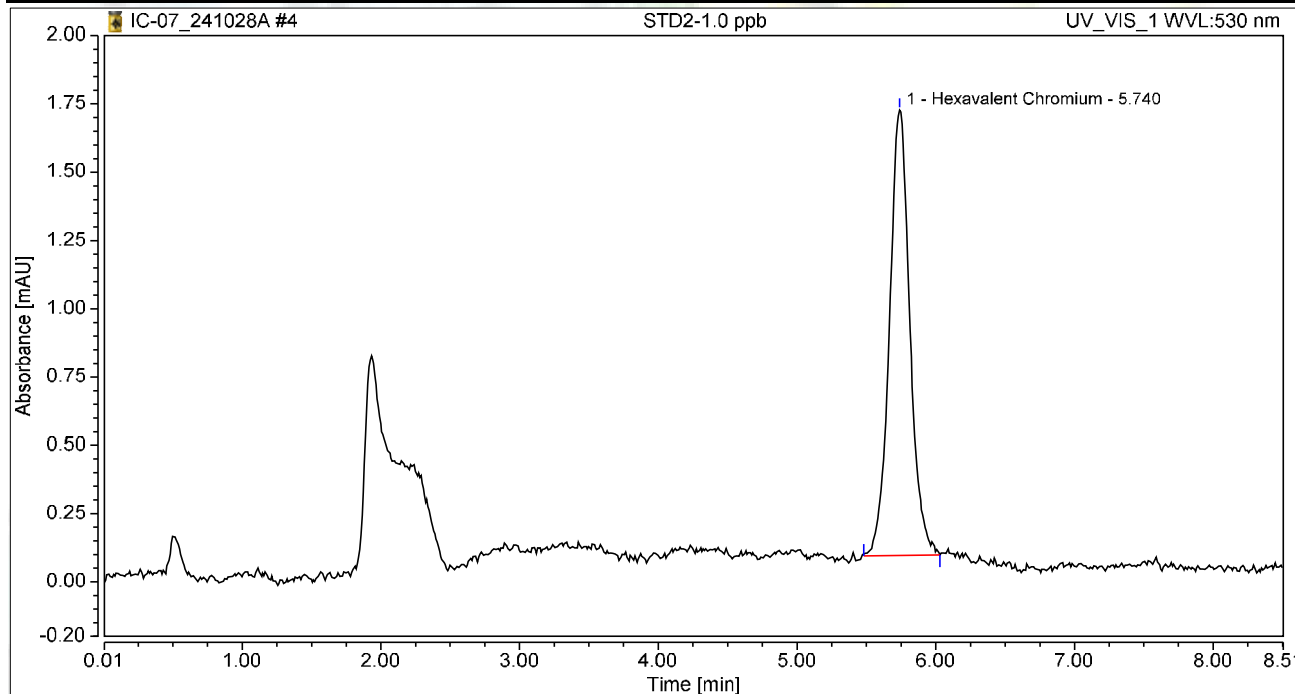
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.053	0.318	100.00	100.00	0.1857
Total:			0.053	0.318	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD2-1.0 ppb	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	02	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:02	Sample Weight:	1.0000

Chromatogram



Integration Results

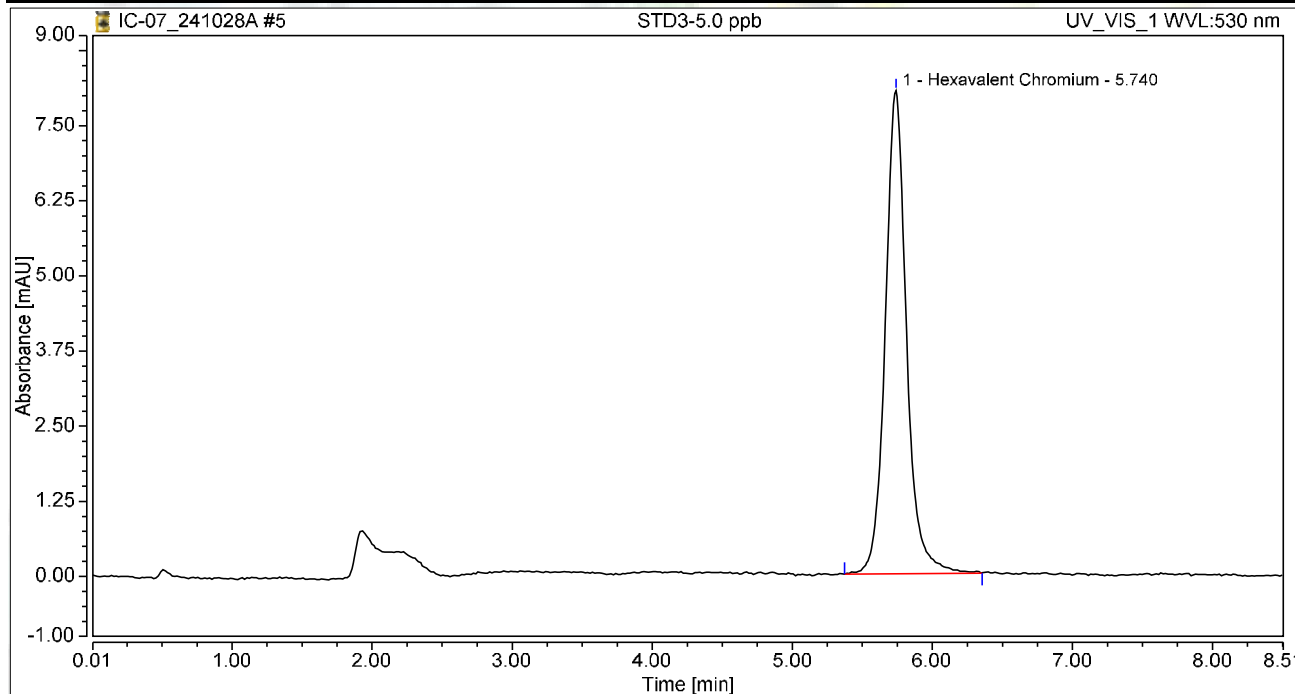
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	0.278	1.631	100.00	100.00	0.9794
Total:			0.278	1.631	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD3-5.0 ppb	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	03	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:11	Sample Weight:	1.0000

Chromatogram



Integration Results

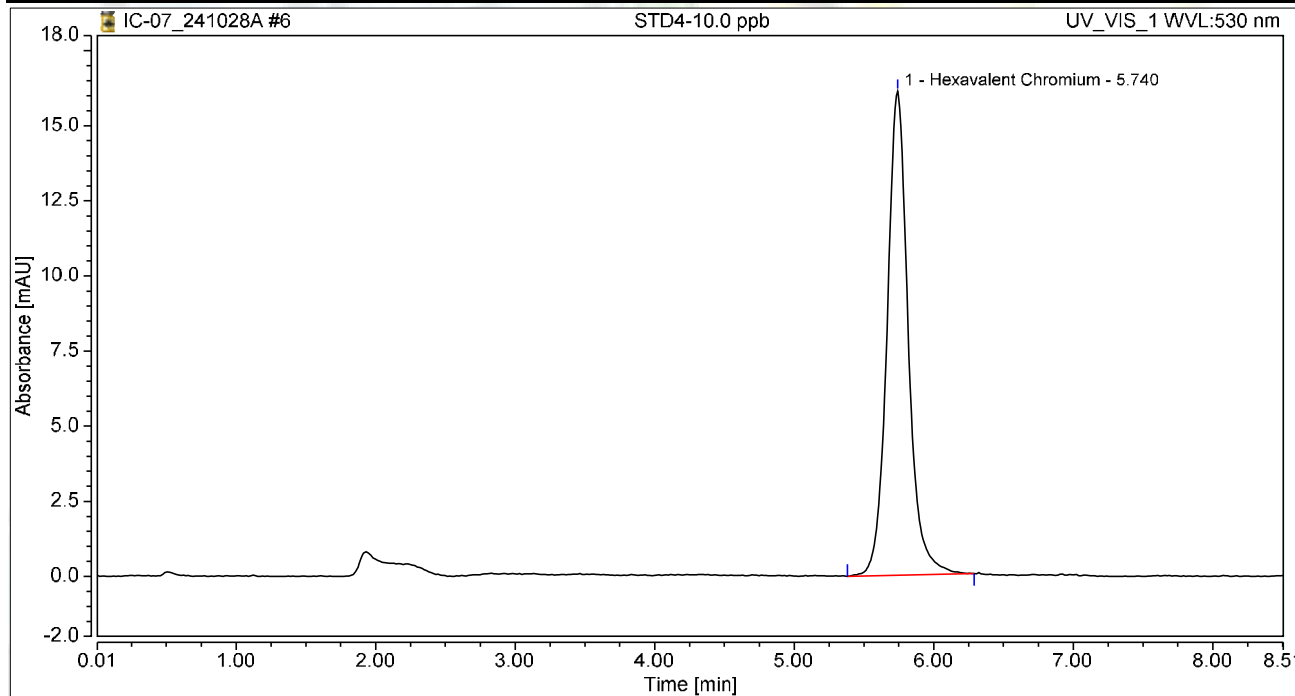
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	1.420	8.039	100.00	100.00	5.0028
Total:			1.420	8.039	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD4-10.0 ppb	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	04	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:21	Sample Weight:	1.0000

Chromatogram



Integration Results

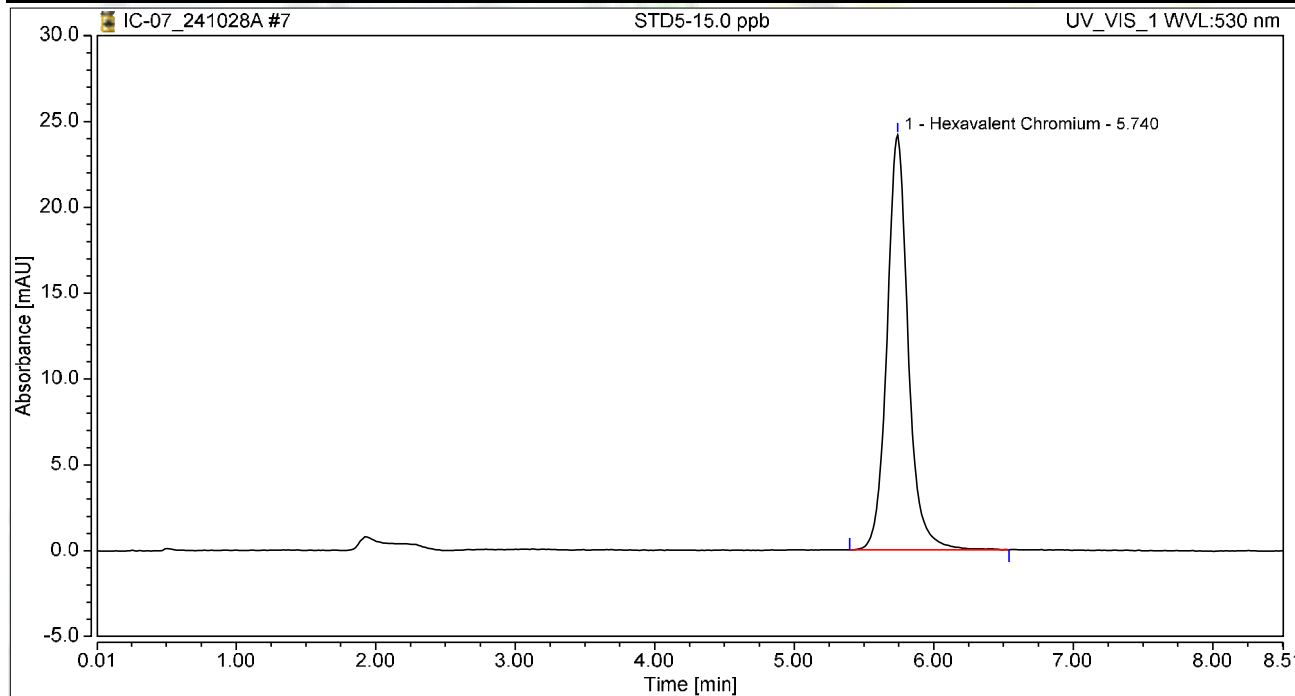
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	2.824	16.106	100.00	100.00	9.9507
Total:			2.824	16.106	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD5-15.0 ppb	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	05	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:30	Sample Weight:	1.0000

Chromatogram



Integration Results

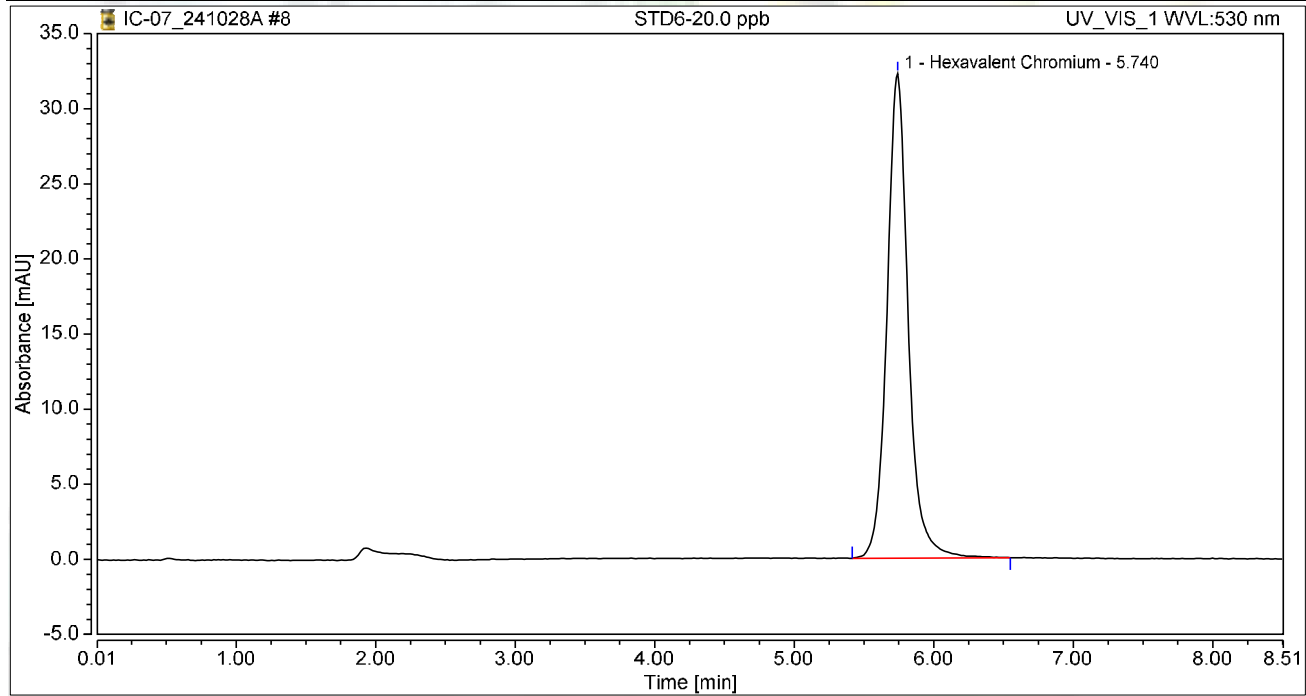
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	4.255	24.168	100.00	100.00	14.9966
Total:			4.255	24.168	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD6-20.0 ppb	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	06	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:40	Sample Weight:	1.0000

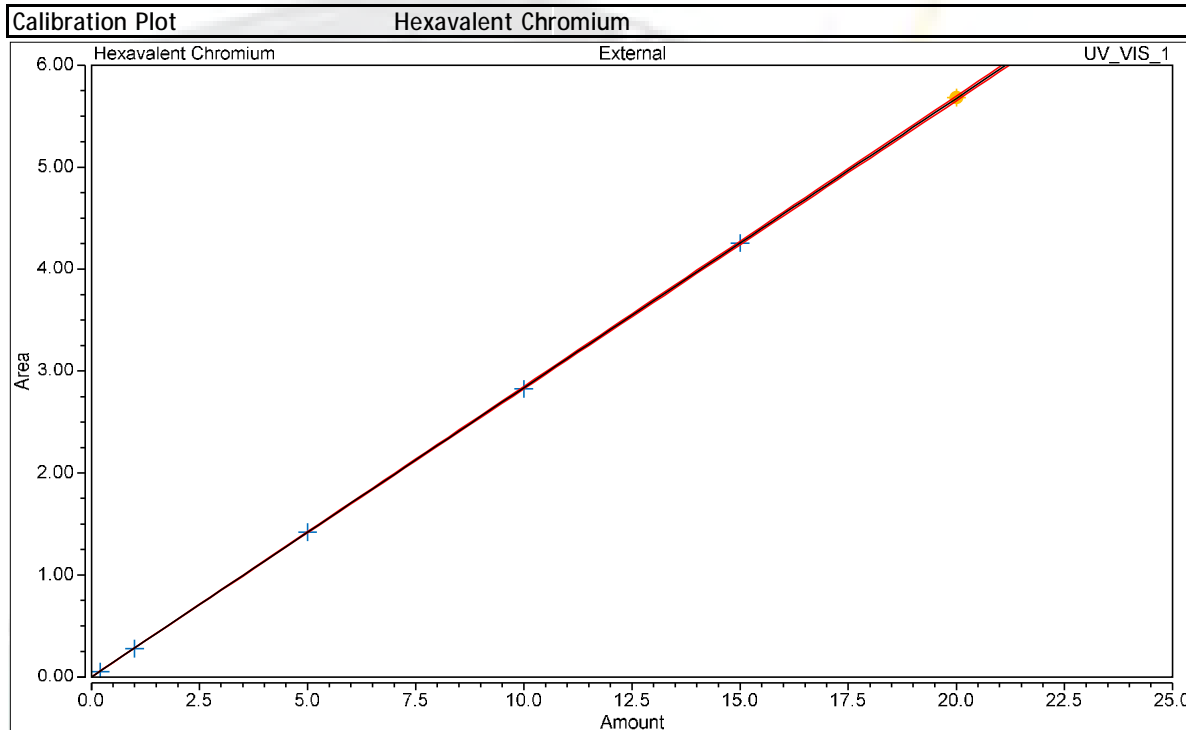
Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	5.683	32.257	100.00	100.00	20.0277
Total:			5.683	32.257	100.00	100.00	

Initial Calibration Summary			
Calibration Details		Hexavalent Chromium	
Calibration Type	Lin	Offset (C0)	0.0000
Evaluation Type	Area	Slope (C1)	0.2838
Number of Calibration Points	6	Curve (C2)	0.0000
Number of disabled Calibration Points	0	R-Square	0.99999



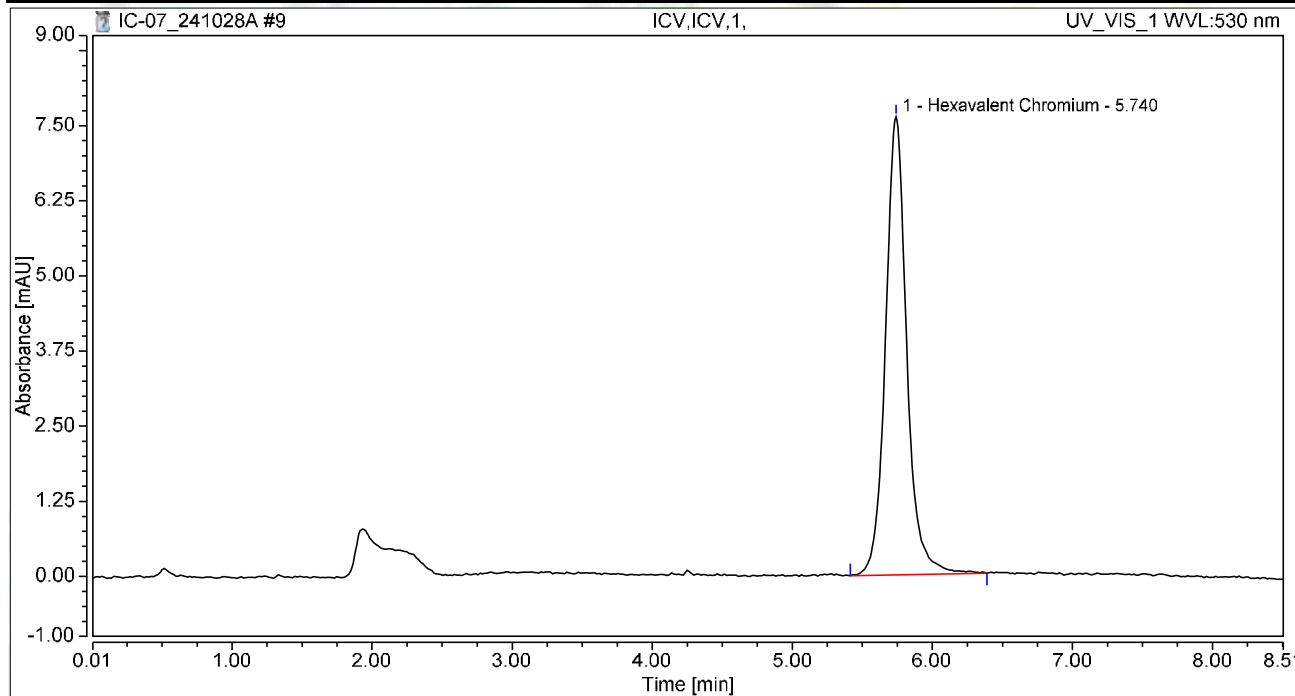
Calibration Results		Hexavalent Chromium				
No.	Injection Name	Calibration Level	X Value	Y Value	Area mAU*min	Height mAU
3	STD1-0.2 ppb	01	0.2000	0.0527	0.053	0.318
4	STD2-1.0 ppb	02	1.0000	0.2779	0.278	1.631
5	STD3-5.0 ppb	03	5.0000	1.4196	1.420	8.039
6	STD4-10.0 ppb	04	10.0000	2.8235	2.824	16.106
7	STD5-15.0 ppb	05	15.0000	4.2553	4.255	24.168
8	STD6-20.0 ppb	06	20.0000	5.6829	5.683	32.257

Chromatogram and Results

Injection Details

Injection Name:	ICV,ICV,1,	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:49	Sample Weight:	1.0000

Chromatogram



Integration Results

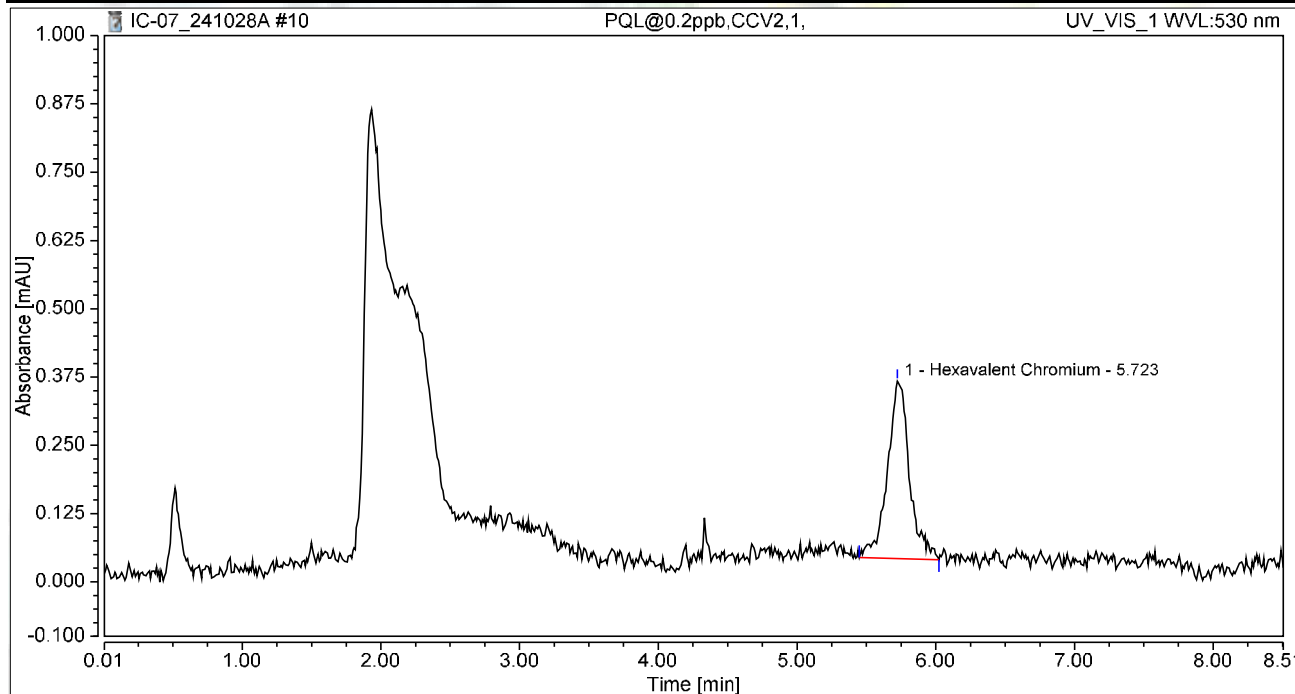
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	1.342	7.624	100.00	100.00	4.7300
Total:			1.342	7.624	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:59	Sample Weight:	1.0000

Chromatogram



Integration Results

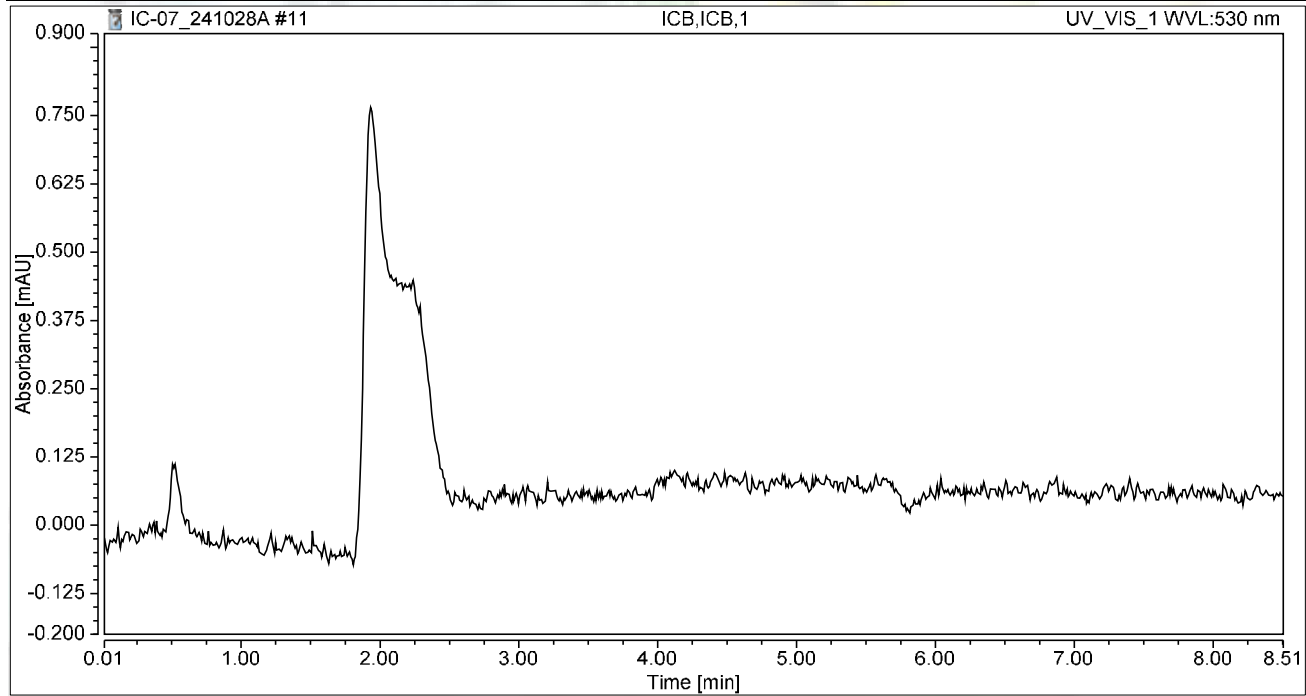
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.060	0.325	100.00	100.00	0.2110
Total:			0.060	0.325	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	ICB,ICB,1	Run Time (min):	8.49
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 11:08	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	



RAW DATA



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"Serving Clients with Passion and Professionalism"

INJECTION LOG: 241031A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	10/31/24 9:46 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	10/31/24 9:59 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/31/24 10:08 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	10/31/24 10:18 AM	Reported
13	MB-R195071	MBLK	1	Hexavalent Chromium	10/31/24 10:27 AM	Reported
14	LCS-R195071	LCS	1	Hexavalent Chromium	10/31/24 10:37 AM	Reported
15	N069543-018A	SAMP	1	Hexavalent Chromium	10/31/24 10:46 AM	Reported
16	N069543-018AMS	MS	1	Hexavalent Chromium	10/31/24 10:56 AM	Reported
17	N069543-019A	SAMP	1	Hexavalent Chromium	10/31/24 11:05 AM	Not Reported
18	N069543-019AMS	MS	1	Hexavalent Chromium	10/31/24 11:15 AM	Not Reported
19	N069543-020A	SAMP	1	Hexavalent Chromium	10/31/24 11:24 AM	Not Reported
20	N069543-020AMS	MS	1	Hexavalent Chromium	10/31/24 11:33 AM	Not Reported
21	N069543-021A	SAMP	1	Hexavalent Chromium	10/31/24 11:43 AM	Reported
22	N069543-021AMS	MS	1	Hexavalent Chromium	10/31/24 11:52 AM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	10/31/24 12:02 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	10/31/24 12:11 PM	Reported
25	N069583-003A	SAMP	1	Hexavalent Chromium	10/31/24 12:22 PM	Not Reported
26	N069583-003AMS	MS	1	Hexavalent Chromium	10/31/24 12:33 PM	Not Reported
27	N069583-003A	SAMP	5	Hexavalent Chromium	10/31/24 12:43 PM	Reported
28	N069583-003AMS	MS	5	Hexavalent Chromium	10/31/24 12:52 PM	Reported
29	N069583-003AMSD	MSD	5	Hexavalent Chromium	10/31/24 1:02 PM	Reported
30	N069582-002A	SAMP	50	Hexavalent Chromium	10/31/24 1:52 PM	Not Reported
31	N069582-003A	SAMP	5	Hexavalent Chromium	10/31/24 2:05 PM	Reported
32	N069582-004A	SAMP	50	Hexavalent Chromium	10/31/24 2:14 PM	Not Reported
33	N069583-002A	SAMP	1	Hexavalent Chromium	10/31/24 2:24 PM	Not Reported
34	N069583-002AMS	MS	1	Hexavalent Chromium	10/31/24 2:33 PM	Not Reported
35	CCV-3	CCV	1	Hexavalent Chromium	10/31/24 2:43 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	10/31/24 2:52 PM	Reported
37	N069583-006A	SAMP	1	Hexavalent Chromium	10/31/24 3:02 PM	Reported
38	N069583-006AMS	MS	1	Hexavalent Chromium	10/31/24 3:11 PM	Reported
39	N069585-001A	SAMP	5	Hexavalent Chromium	10/31/24 3:21 PM	Reported
40	N069585-001AMS	MS	5	Hexavalent Chromium	10/31/24 3:30 PM	Reported
41	N069585-001ADUP	DUP	5	Hexavalent Chromium	10/31/24 3:39 PM	Reported
42	N069582-002A	SAMP	5	Hexavalent Chromium	10/31/24 4:04 PM	Reported

INJECTION LOG: 241031A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069582-002AMS	MS	5	Hexavalent Chromium	10/31/24 4:16 PM	Reported
44	N069582-003AMS	MS	5	Hexavalent Chromium	10/31/24 4:26 PM	Reported
45	N069582-004AMS	MS	50	Hexavalent Chromium	10/31/24 4:35 PM	Not Reported
46	N069543-019A	SAMP	5	Hexavalent Chromium	10/31/24 4:44 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	10/31/24 4:54 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	10/31/24 5:03 PM	Reported
49	N069543-019AMS	MS	5	Hexavalent Chromium	10/31/24 5:13 PM	Reported
50	N069543-020A	SAMP	5	Hexavalent Chromium	10/31/24 5:22 PM	Reported
51	N069543-020AMS	MS	5	Hexavalent Chromium	10/31/24 5:32 PM	Reported
52	N069582-001A	SAMP	1	Hexavalent Chromium	10/31/24 5:41 PM	Reported
53	N069582-001AMS	MS	1	Hexavalent Chromium	10/31/24 5:51 PM	Reported
54	N069583-001A	SAMP	5	Hexavalent Chromium	10/31/24 6:00 PM	Reported
55	N069583-001AMS	MS	5	Hexavalent Chromium	10/31/24 6:10 PM	Reported
56	N069583-002A	SAMP	5	Hexavalent Chromium	10/31/24 6:19 PM	Reported
57	N069583-002AMS	MS	5	Hexavalent Chromium	10/31/24 6:28 PM	Reported
58	N069583-004A	SAMP	1	Hexavalent Chromium	10/31/24 6:38 PM	Not Reported
59	CCV-5	CCV	1	Hexavalent Chromium	10/31/24 6:47 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	10/31/24 6:57 PM	Reported
61	N069583-004AMS	MS	1	Hexavalent Chromium	10/31/24 7:06 PM	Not Reported
62	N069583-004A	SAMP	5	Hexavalent Chromium	10/31/24 7:16 PM	Reported
63	N069583-004AMS	MS	5	Hexavalent Chromium	10/31/24 7:25 PM	Reported
64	N069583-005A	SAMP	1	Hexavalent Chromium	10/31/24 7:35 PM	Reported
65	N069583-005AMS	MS	1	Hexavalent Chromium	10/31/24 7:44 PM	Reported
66	N069583-007A	SAMP	1	Hexavalent Chromium	10/31/24 7:54 PM	Reported
67	N069583-007AMS	MS	1	Hexavalent Chromium	10/31/24 8:03 PM	Reported
68	N069583-008A	SAMP	1	Hexavalent Chromium	10/31/24 8:12 PM	Not Reported
69	N069583-008AMS	MS	1	Hexavalent Chromium	10/31/24 8:22 PM	Not Reported
70	N069583-008A	SAMP	5	Hexavalent Chromium	10/31/24 8:31 PM	Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	10/31/24 8:41 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	10/31/24 8:50 PM	Reported
73	N069583-008AMS	MS	5	Hexavalent Chromium	10/31/24 9:00 PM	Reported
74	N069583-009A	SAMP	1	Hexavalent Chromium	10/31/24 9:09 PM	Not Reported
75	N069583-009AMS	MS	1	Hexavalent Chromium	10/31/24 9:19 PM	Not Reported
76	N069583-009A	SAMP	5	Hexavalent Chromium	10/31/24 9:28 PM	Reported
77	N069583-009AMS	MS	5	Hexavalent Chromium	10/31/24 9:38 PM	Reported
78	N069583-010A	SAMP	1	Hexavalent Chromium	10/31/24 9:47 PM	Not Reported
79	N069583-010AMS	MS	1	Hexavalent Chromium	10/31/24 9:56 PM	Not Reported
80	N069583-010A	SAMP	5	Hexavalent Chromium	10/31/24 10:06 PM	Reported
81	N069583-010AMS	MS	5	Hexavalent Chromium	10/31/24 10:15 PM	Reported
82	N069583-011A	SAMP	1	Hexavalent Chromium	10/31/24 10:25 PM	Reported
83	CCV-7	CCV	1	Hexavalent Chromium	10/31/24 10:34 PM	Reported
84	CCB-7	CCB	1	Hexavalent Chromium	10/31/24 10:44 PM	Reported

INJECTION LOG: 241031A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N069583-011AMS	MS	1	Hexavalent Chromium	10/31/24 10:53 PM	Reported
86	CCV-8	CCV1	1	Hexavalent Chromium	10/31/24 11:03 PM	Reported
87	CCB-8	CCB	1	Hexavalent Chromium	10/31/24 11:12 PM	Reported
88	BLANK	BLANK	1	Hexavalent Chromium	10/31/24 11:22 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241031A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	31/Oct/24 23:52:19
No. of Injections:	91	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	BLANK	1	1000	Unknown		10/31/2024 09:46	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		10/31/2024 09:59	Finished	CCV @5ppb, IWST-240729A
11	PQL@0.2ppb,CCV2,	3	1000	Unknown		10/31/2024 10:08	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		10/31/2024 10:18	Finished	CCB R241001A
13	MB-H2O,MBLK,1,	5	1000	Unknown		10/31/2024 10:27	Finished	MB R241001A
14	LCS-H2O,LCS,1,	6	1000	Unknown		10/31/2024 10:37	Finished	LCS @5ppb, IWST-240729B
15	N069543-018A,SAMP	7	1000	Unknown		10/31/2024 10:46	Finished	SAMP,10 mL
16	N069543-018AMS,M	8	1000	Unknown		10/31/2024 10:56	Finished	MS (1ppb), IWST-240729B,10r
17	N069543-019A,SAMP	9	1000	Unknown		10/31/2024 11:05	Finished	SAMP,10 mL
18	N069543-019AMS,M	10	1000	Unknown		10/31/2024 11:15	Finished	MS (1ppb), IWST-240729B,10r
19	N069543-020A,SAMP	11	1000	Unknown		10/31/2024 11:24	Finished	SAMP,10 mL
20	N069543-020AMS,M	12	1000	Unknown		10/31/2024 11:33	Finished	MS (1ppb), IWST-240729B,10r
21	N069543-021A,SAMP	13	1000	Unknown		10/31/2024 11:43	Finished	SAMP,10 mL
22	N069543-021AMS,M	14	1000	Unknown		10/31/2024 11:52	Finished	MS (1ppb), IWST-240729B,10r
23	CCV-2,CCV1,1,	15	1000	Unknown		10/31/2024 12:02	Finished	CCV @10ppb, IWST-240729A
24	CCB-2,CCB,1,	16	1000	Unknown		10/31/2024 12:11	Finished	CCB R241001A
25	N069583-003A,SAMP	1	1000	Unknown		10/31/2024 12:22	Finished	SAMP,10 mL
26	N069583-003AMS,M	2	1000	Unknown		10/31/2024 12:33	Finished	MS (1ppb), IWST-240729B,10r
27	N069583-003A,SAMP	3	1000	Unknown		10/31/2024 12:43	Finished	SAMP,2>10 mL
28	N069583-003AMS,M	4	1000	Unknown		10/31/2024 12:52	Finished	MS (1ppb), IWST-240729B,2>
29	N069583-003AMSD,M	5	1000	Unknown		10/31/2024 13:02	Finished	MSD (1ppb), IWST-240729B,2>
30	N069582-002A,SAMP	1	1000	Unknown		10/31/2024 13:52	Finished	SAMP,0.2>10 mL
31	N069582-003A,SAMP	2	1000	Unknown		10/31/2024 14:05	Finished	SAMP,2>10 mL
32	N069582-004A,SAMP	3	1000	Unknown		10/31/2024 14:14	Finished	SAMP,0.2>10 mL
33	N069583-002A,SAMP	4	1000	Unknown		10/31/2024 14:24	Finished	SAMP,10 mL
34	N069583-002AMS,M	5	1000	Unknown		10/31/2024 14:33	Finished	MS (1ppb), IWST-240729B,10r
35	CCV-3,CCV,1,	6	1000	Unknown		10/31/2024 14:43	Finished	CCV @5ppb, IWST-240729A
36	CCB-3,CCB,1,	7	1000	Unknown		10/31/2024 14:52	Finished	CCB R241001A
37	N069583-006A,SAMP	8	1000	Unknown		10/31/2024 15:02	Finished	SAMP,10 mL
38	N069583-006AMS,M	9	1000	Unknown		10/31/2024 15:11	Finished	MS (1ppb), IWST-240729B,10r
39	N069585-001A,SAMP	10	1000	Unknown		10/31/2024 15:21	Finished	SAMP,2>10 mL
40	N069585-001AMS,M	11	1000	Unknown		10/31/2024 15:30	Finished	MS (5ppb), IWST-240729B,2>
41	N069585-001ADUP,D	12	1000	Unknown		10/31/2024 15:39	Finished	DUP,2>10 mL
42	N069582-002A,SAMP	1	1000	Unknown		10/31/2024 16:04	Finished	SAMP,2>10 mL
43	N069582-002AMS,M	2	1000	Unknown		10/31/2024 16:16	Finished	MS (5ppb), IWST-240729B,2>
44	N069582-003AMS,M	3	1000	Unknown		10/31/2024 16:26	Finished	MS (5ppb), IWST-240729B,2>
45	N069582-004AMS,M	4	1000	Unknown		10/31/2024 16:35	Finished	MS (5ppb), IWST-240729B,0.2
46	N069543-019A,SAMP	5	1000	Unknown		10/31/2024 16:44	Finished	SAMP,2>10 mL
47	CCV-4,CCV1,1,	6	1000	Unknown		10/31/2024 16:54	Finished	CCV @10ppb, IWST-240729A
48	CCB-4,CCB,1,	7	1000	Unknown		10/31/2024 17:03	Finished	CCB R241001A
49	N069543-019AMS,M	8	1000	Unknown		10/31/2024 17:13	Finished	MS (1ppb), IWST-240729B,2>
50	N069543-020A,SAMP	9	1000	Unknown		10/31/2024 17:22	Finished	SAMP,2>10 mL
51	N069543-020AMS,M	10	1000	Unknown		10/31/2024 17:32	Finished	MS (1ppb), IWST-240729B,2>
52	N069582-001A,SAMP	11	1000	Unknown		10/31/2024 17:41	Finished	SAMP,10 mL
53	N069582-001AMS,M	12	1000	Unknown		10/31/2024 17:51	Finished	MS (1ppb), IWST-240729B,10r
54	N069583-001A,SAMP	13	1000	Unknown		10/31/2024 18:00	Finished	SAMP,2>10 mL
55	N069583-001AMS,M	14	1000	Unknown		10/31/2024 18:10	Finished	MS (1ppb), IWST-240729B,2>
56	N069583-002A,SAMP	15	1000	Unknown		10/31/2024 18:19	Finished	SAMP,2>10 mL
57	N069583-002AMS,M	16	1000	Unknown		10/31/2024 18:28	Finished	MS (1ppb), IWST-240729B,2>
58	N069583-004A,SAMP	17	1000	Unknown		10/31/2024 18:38	Finished	SAMP,10 mL
59	CCV-5,CCV,1,	18	1000	Unknown		10/31/2024 18:47	Finished	CCV @5ppb, IWST-240729A
60	CCB-5,CCB,1,	19	1000	Unknown		10/31/2024 18:57	Finished	CCB R241001A

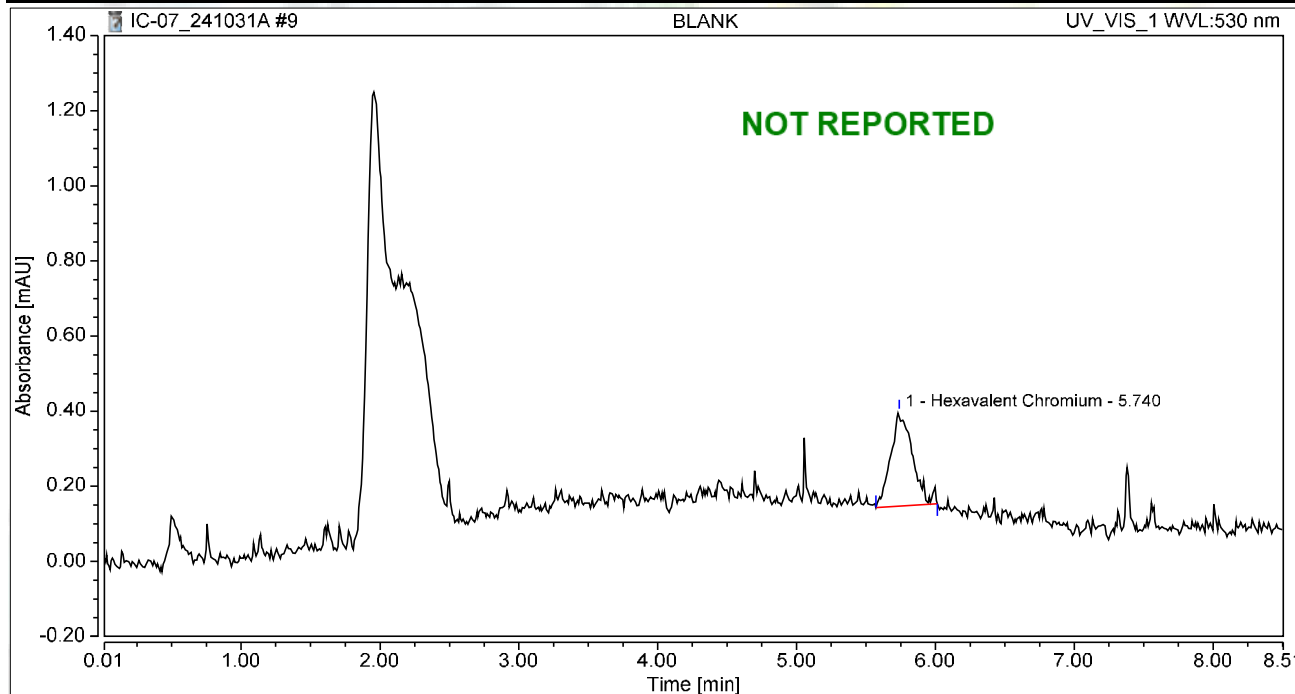
61	N069583-004AMS.M\$	20	1000	Unknown	10/31/2024 19:06	Finished	MS (1ppb), IWST-240729B,10r
62	N069583-004A,SAMP	21	1000	Unknown	10/31/2024 19:16	Finished	SAMP,2>10 mL
63	N069583-004AMS.M\$	22	1000	Unknown	10/31/2024 19:25	Finished	MS (1ppb), IWST-240729B,2>
64	N069583-005A,SAMP	23	1000	Unknown	10/31/2024 19:35	Finished	SAMP,10 mL
65	N069583-005AMS.M\$	24	1000	Unknown	10/31/2024 19:44	Finished	MS (1ppb), IWST-240729B,10r
66	N069583-007A,SAMP	25	1000	Unknown	10/31/2024 19:54	Finished	SAMP,10 mL
67	N069583-007AMS.M\$	26	1000	Unknown	10/31/2024 20:03	Finished	MS (1ppb), IWST-240729B,10r
68	N069583-008A,SAMP	27	1000	Unknown	10/31/2024 20:12	Finished	SAMP,10 mL
69	N069583-008AMS.M\$	28	1000	Unknown	10/31/2024 20:22	Finished	MS (1ppb), IWST-240729B,10r
70	N069583-008A,SAMP	29	1000	Unknown	10/31/2024 20:31	Finished	SAMP,2>10 mL
71	CCV-6,CCV1,1,	30	1000	Unknown	10/31/2024 20:41	Finished	CCV @10ppb, IWST-240729A
72	CCB-6,CCB,1,	31	1000	Unknown	10/31/2024 20:50	Finished	CCB R241001A
73	N069583-008AMS.M\$	32	1000	Unknown	10/31/2024 21:00	Finished	MS (1ppb), IWST-240729B,2>
74	N069583-009A,SAMP	33	1000	Unknown	10/31/2024 21:09	Finished	SAMP,10 mL
75	N069583-009AMS.M\$	34	1000	Unknown	10/31/2024 21:19	Finished	MS (1ppb), IWST-240729B,10r
76	N069583-009A,SAMP	35	1000	Unknown	10/31/2024 21:28	Finished	SAMP,2>10 mL
77	N069583-009AMS.M\$	36	1000	Unknown	10/31/2024 21:38	Finished	MS (1ppb), IWST-240729B,2>
78	N069583-010A,SAMP	37	1000	Unknown	10/31/2024 21:47	Finished	SAMP,10 mL
79	N069583-010AMS.M\$	38	1000	Unknown	10/31/2024 21:56	Finished	MS (1ppb), IWST-240729B,10r
80	N069583-010A,SAMP	39	1000	Unknown	10/31/2024 22:06	Finished	SAMP,2>10 mL
81	N069583-010AMS.M\$	40	1000	Unknown	10/31/2024 22:15	Finished	MS (1ppb), IWST-240729B,2>
82	N069583-011A,SAMP	41	1000	Unknown	10/31/2024 22:25	Finished	SAMP,10 mL
83	CCV-7,CCV,1,	42	1000	Unknown	10/31/2024 22:34	Finished	CCV @5ppb, IWST-240729A
84	CCB-7,CCB,1,	43	1000	Unknown	10/31/2024 22:44	Finished	CCB R241001A
85	N069583-011AMS.M\$	44	1000	Unknown	10/31/2024 22:53	Finished	MS (1ppb), IWST-240729B,10r
86	CCV-8,CCV1,1,	45	1000	Unknown	10/31/2024 23:03	Finished	CCV @10ppb, IWST-240729A
87	CCB-8,CCB,1,	46	1000	Unknown	10/31/2024 23:12	Finished	CCB R241001A
88	BLANK	47	1000	Unknown	10/31/2024 23:22	Finished	BLANK
89	SHUTDOWN	48	1000	Unknown	10/31/2024 23:31	Finished	
90	Eluent: R241029A	49	1000	Unknown	n.a.	Finished	
91	PCR: R241029B	50	1000	Unknown	n.a.	Finished	

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 09:46	Sample Weight:	1.0000

Chromatogram



Integration Results

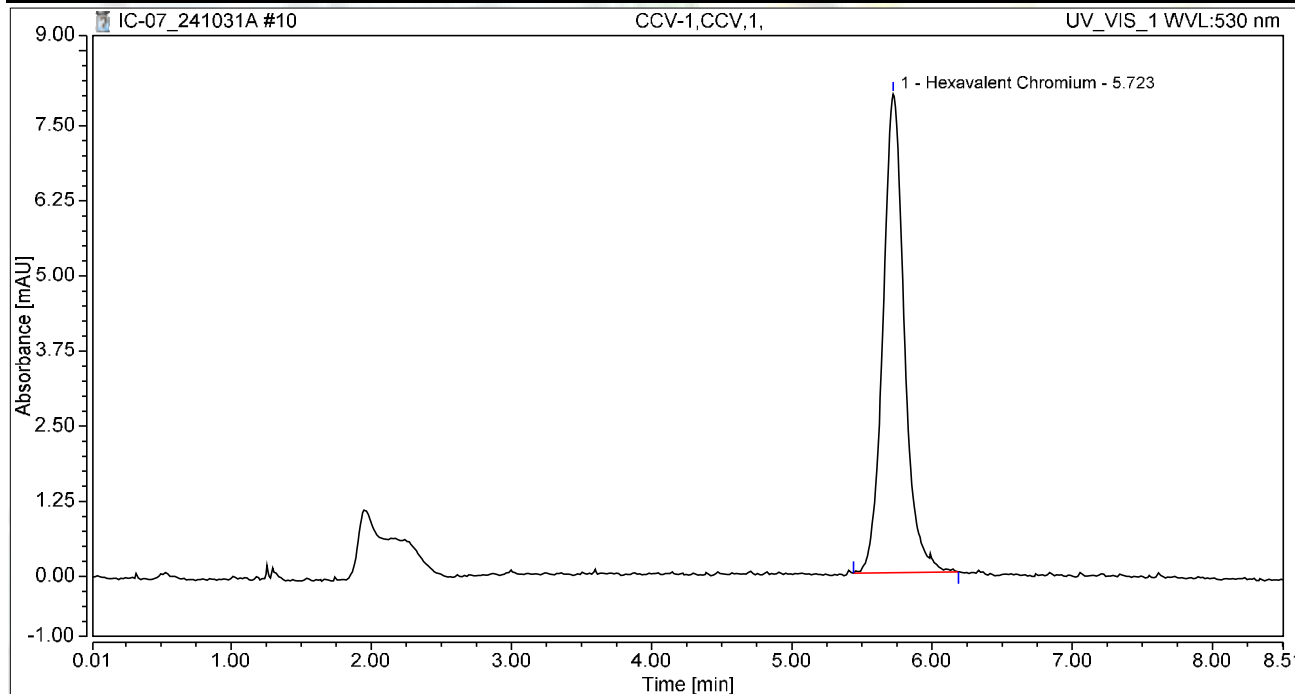
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	0.045	0.251	100.00	100.00	0.1599
Total:			0.045	0.251	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-1,CCV,1,	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 09:59	Sample Weight:	1.0000

Chromatogram



Integration Results

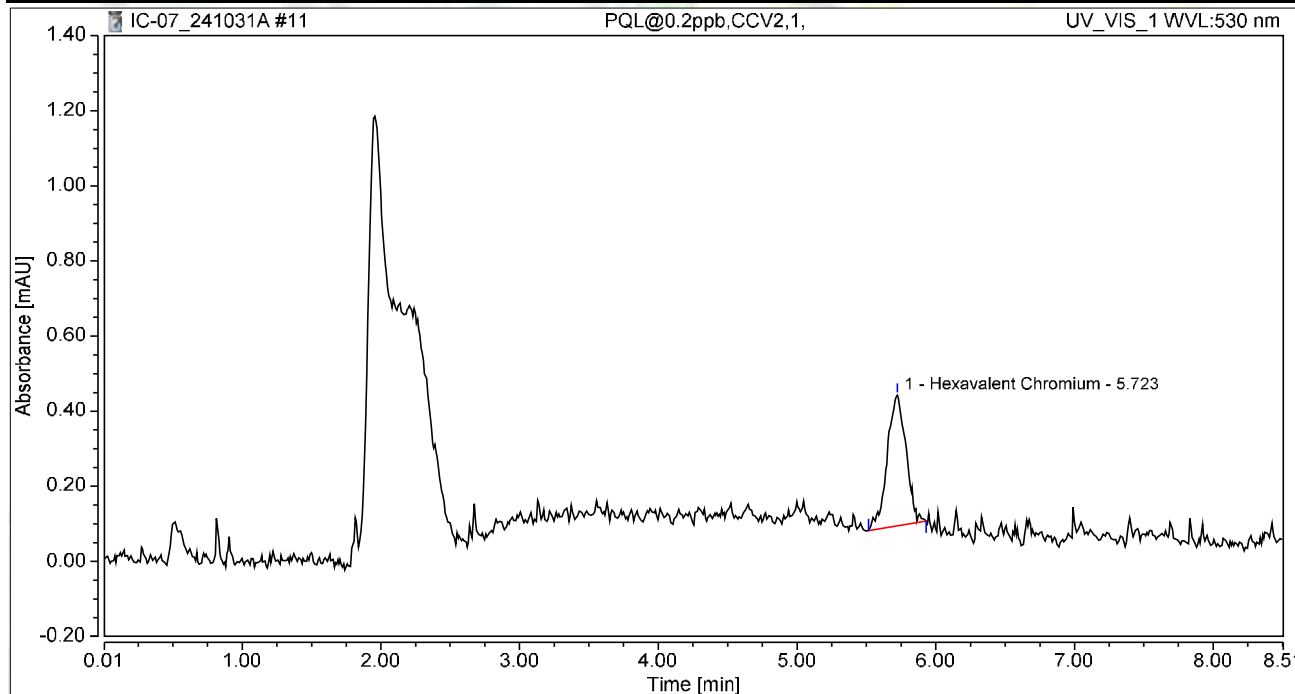
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	1.404	7.967	100.00	100.00	4.9477
Total:			1.404	7.967	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 10:08	Sample Weight:	1.0000

Chromatogram



Integration Results

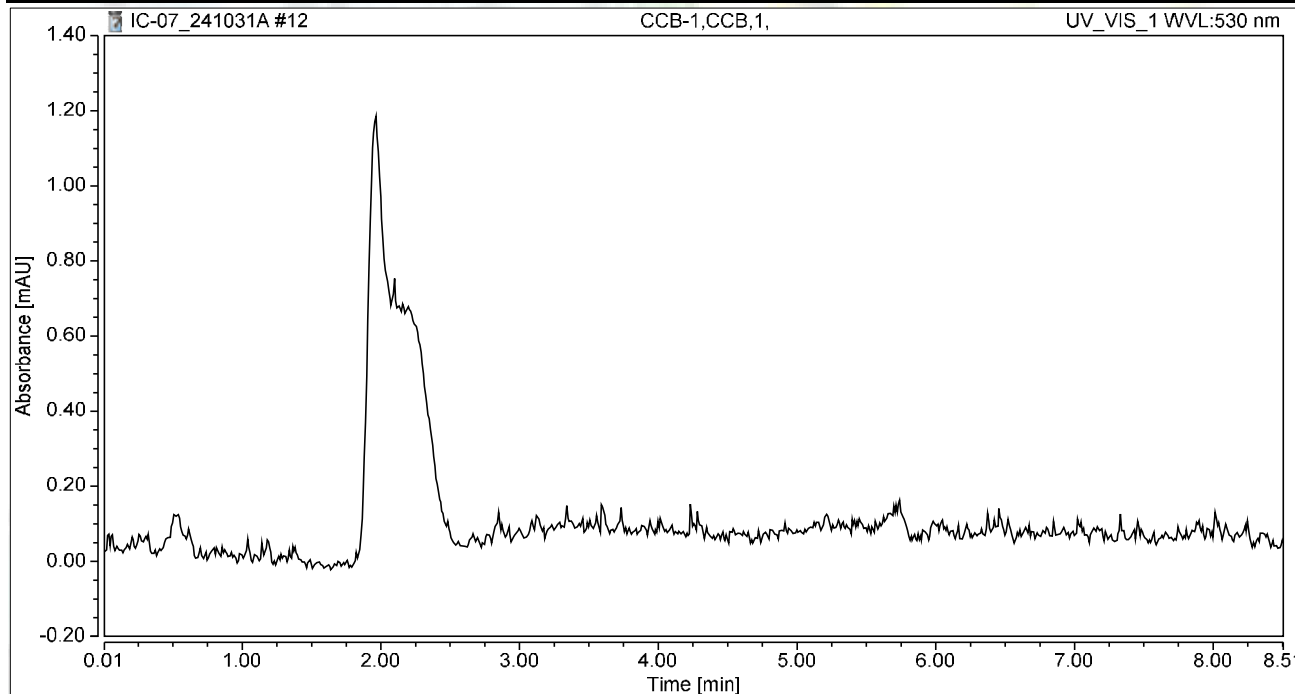
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.055	0.348	100.00	100.00	0.1930
Total:			0.055	0.348	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-1,CCB,1,	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 10:18	Sample Weight:	1.0000

Chromatogram



Integration Results

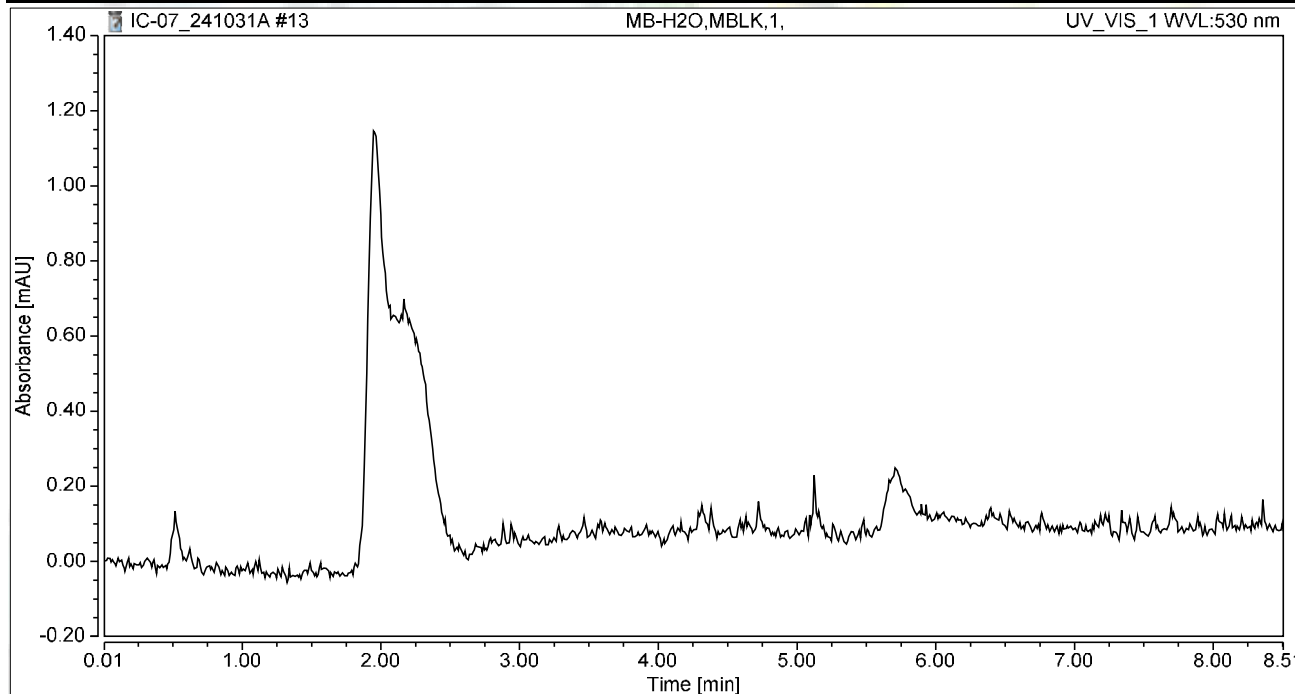
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 10:27	Sample Weight:	1.0000

Chromatogram



Integration Results

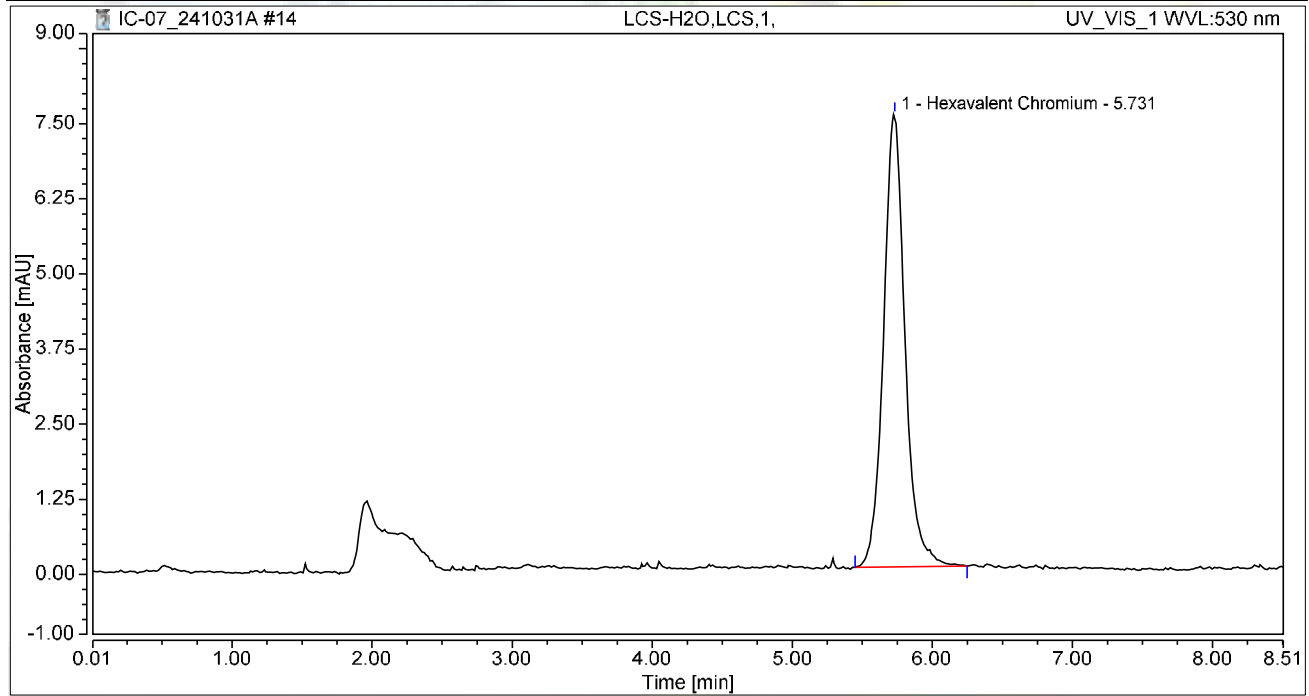
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-H2O,LCS,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 10:37	Sample Weight:	1.0000

Chromatogram



Integration Results

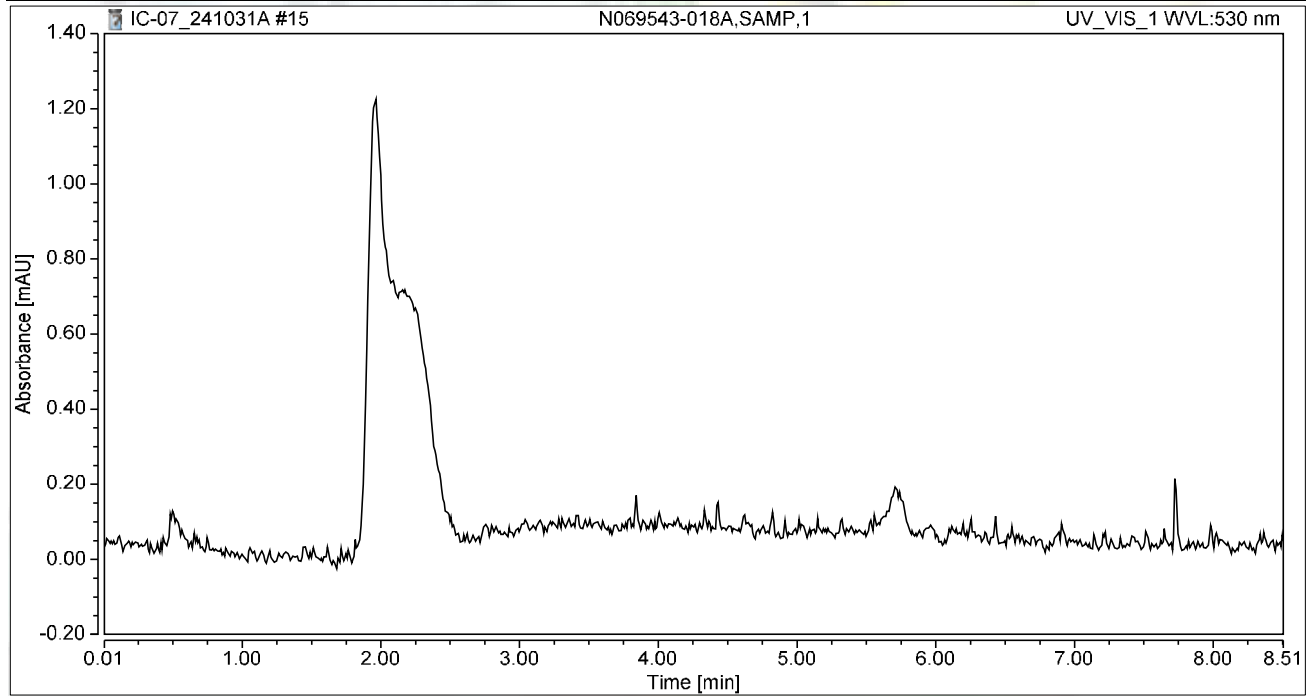
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	1.338	7.532	100.00	100.00	4.7137
Total:			1.338	7.532	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-018A,SAMP,1	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 10:46	Sample Weight:	1.0000

Chromatogram



Integration Results

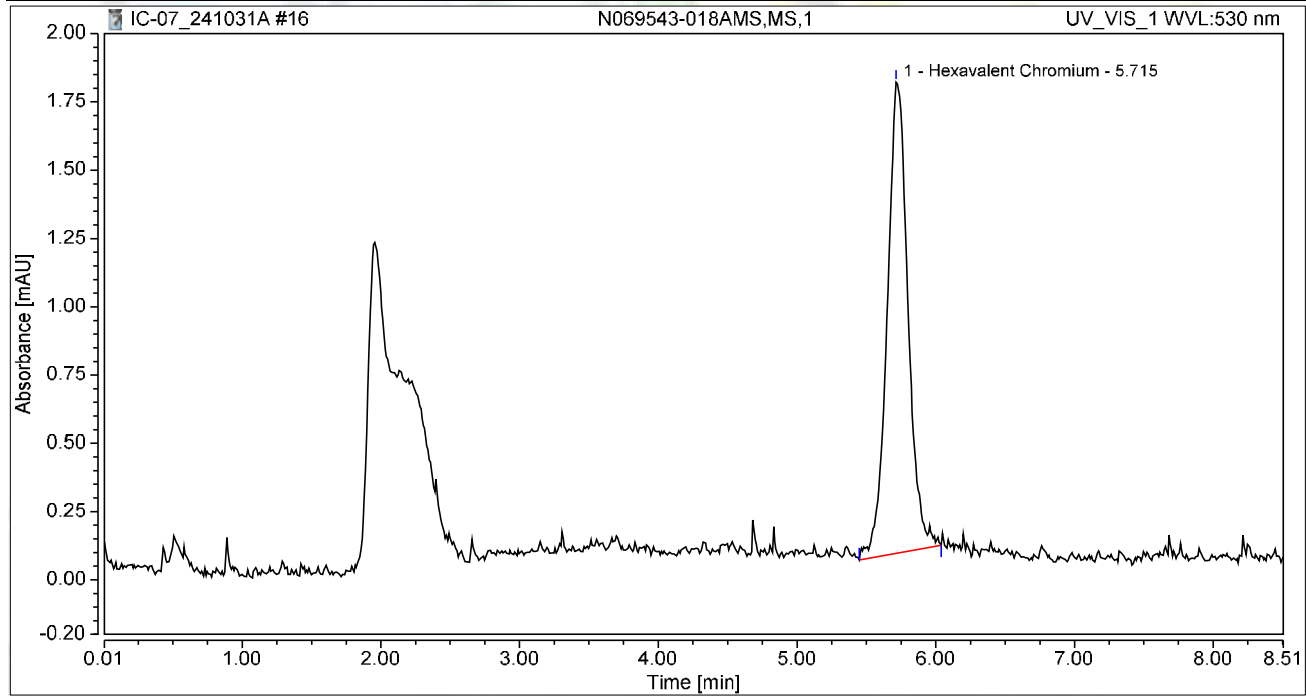
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-018AMS,MS,1	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 10:56	Sample Weight:	1.0000

Chromatogram



Integration Results

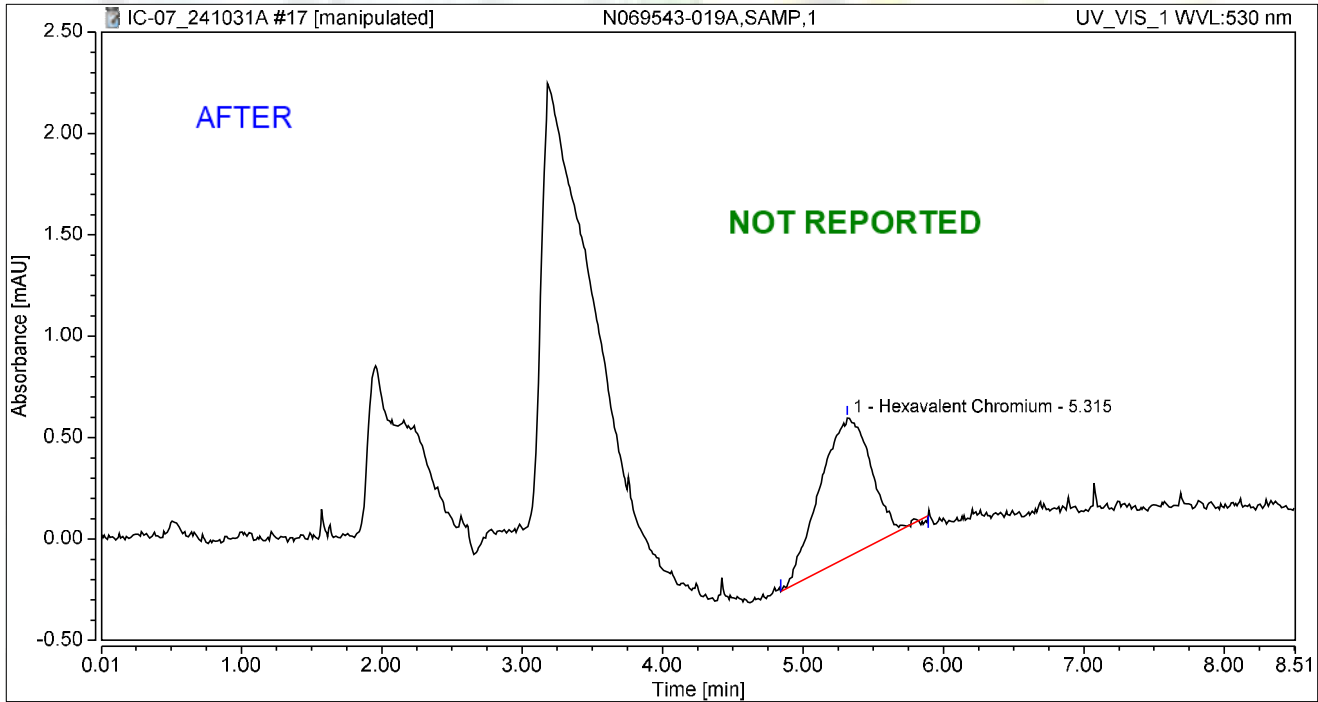
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.300	1.726	100.00	100.00	1.0574
Total:			0.300	1.726	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-019A,SAMP,1	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 11:05	Sample Weight:	1.0000

Chromatogram



Integration Results

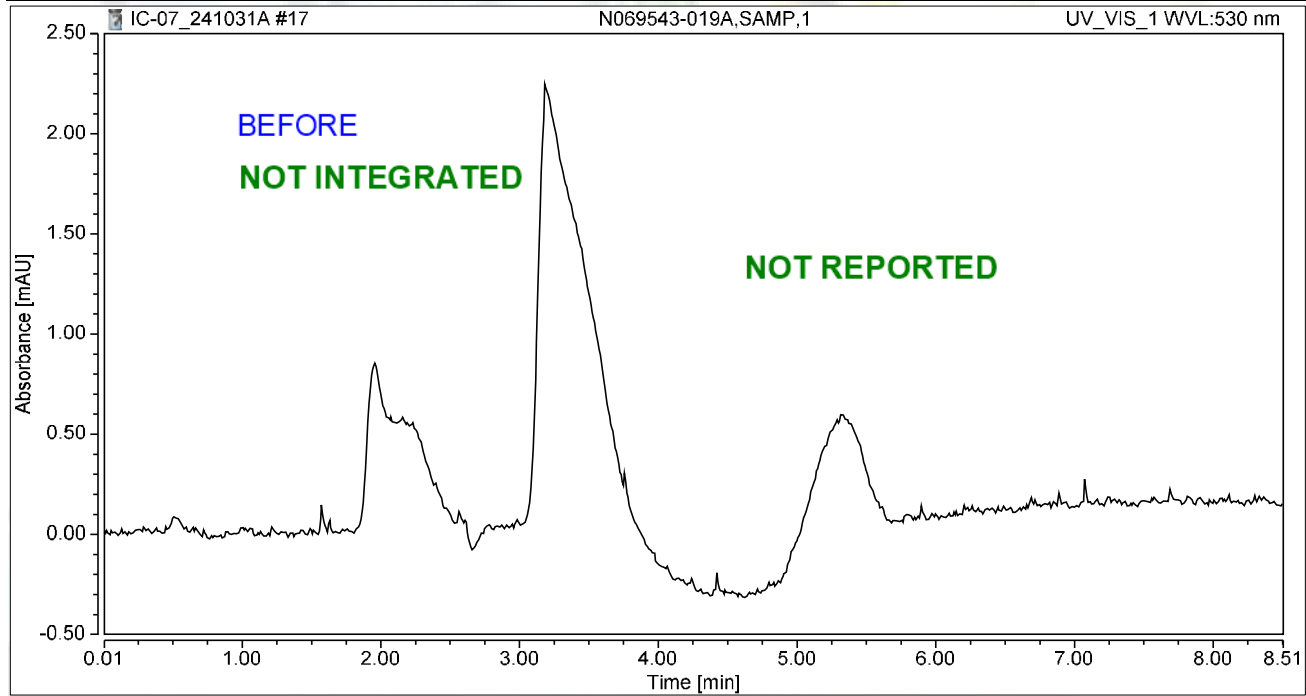
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.315	0.289	0.688	100.00	100.00	1.0184
Total:			0.289	0.688	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-019A,SAMP,1	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 11:05	Sample Weight:	1.0000

Chromatogram



Integration Results

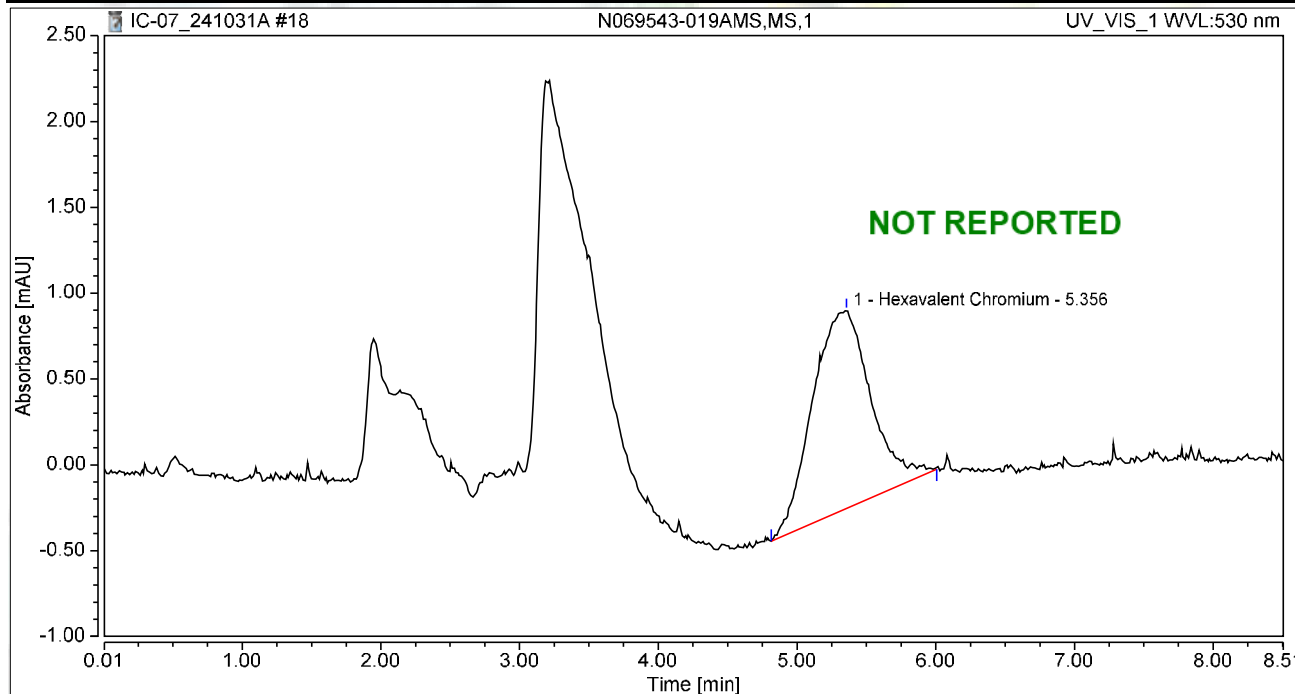
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-019AMS,MS,1	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 11:15	Sample Weight:	1.0000

Chromatogram



Integration Results

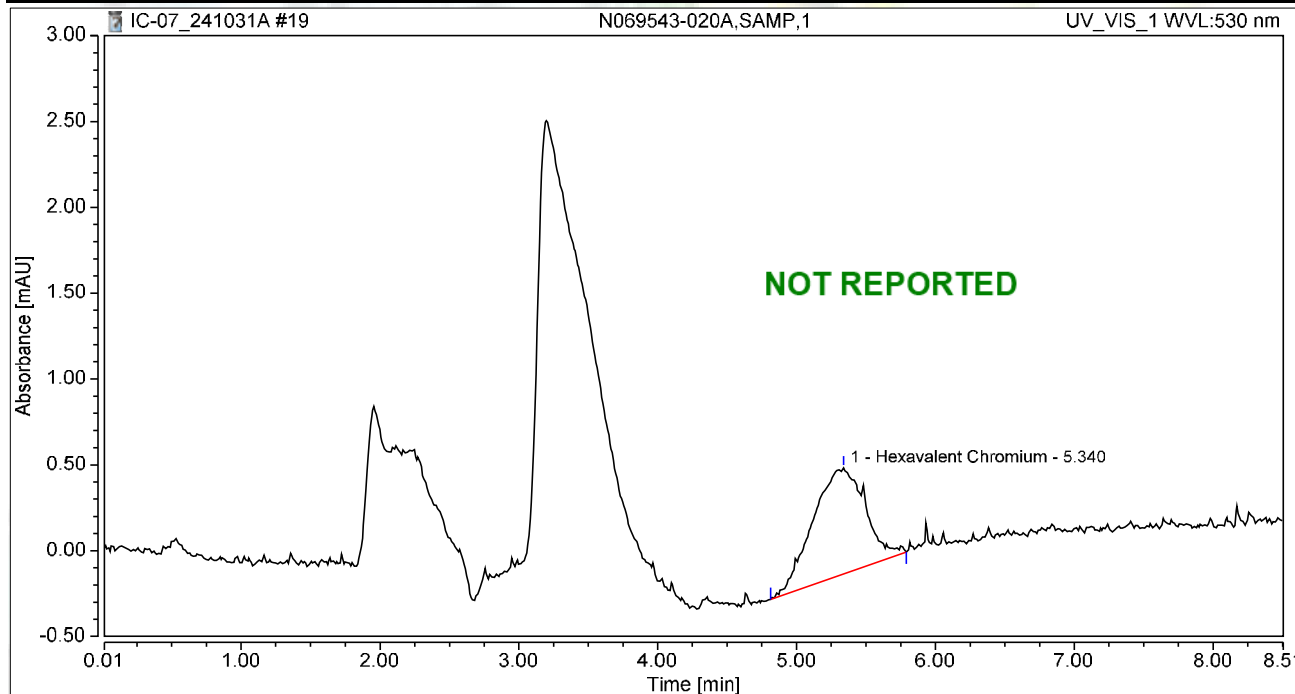
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.356	0.567	1.153	100.00	100.00	1.9972
Total:			0.567	1.153	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-020A,SAMP,1	Run Time (min):	8.49
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 11:24	Sample Weight:	1.0000

Chromatogram



Integration Results

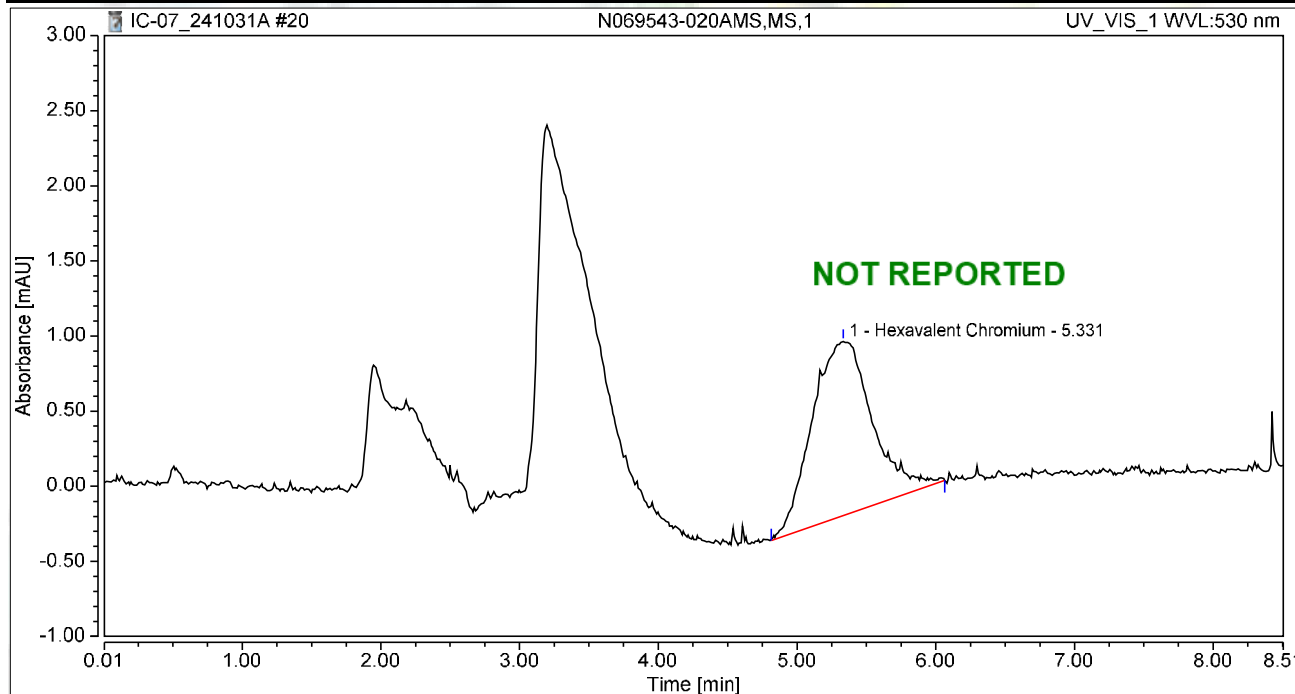
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.340	0.273	0.618	100.00	100.00	0.9625
Total:			0.273	0.618	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-020AMS,MS,1	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 11:33	Sample Weight:	1.0000

Chromatogram



Integration Results

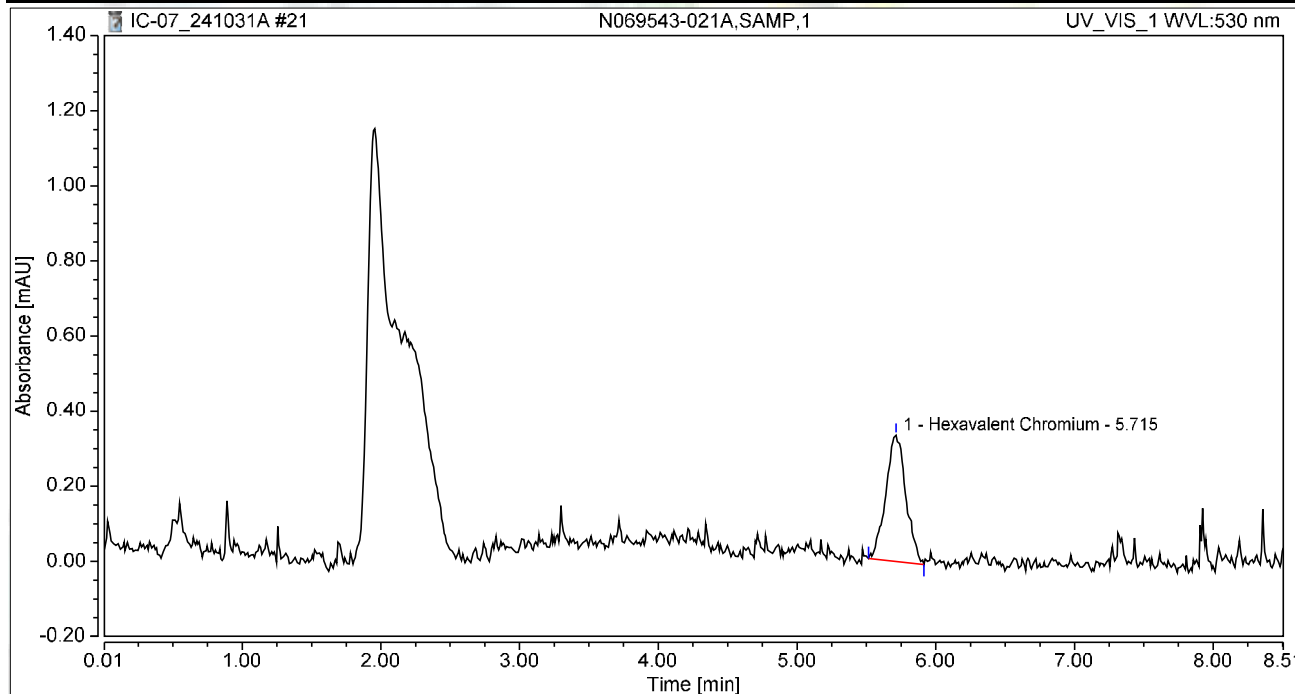
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.331	0.587	1.160	100.00	100.00	2.0685
Total:			0.587	1.160	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-021A,SAMP,1	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 11:43	Sample Weight:	1.0000

Chromatogram



Integration Results

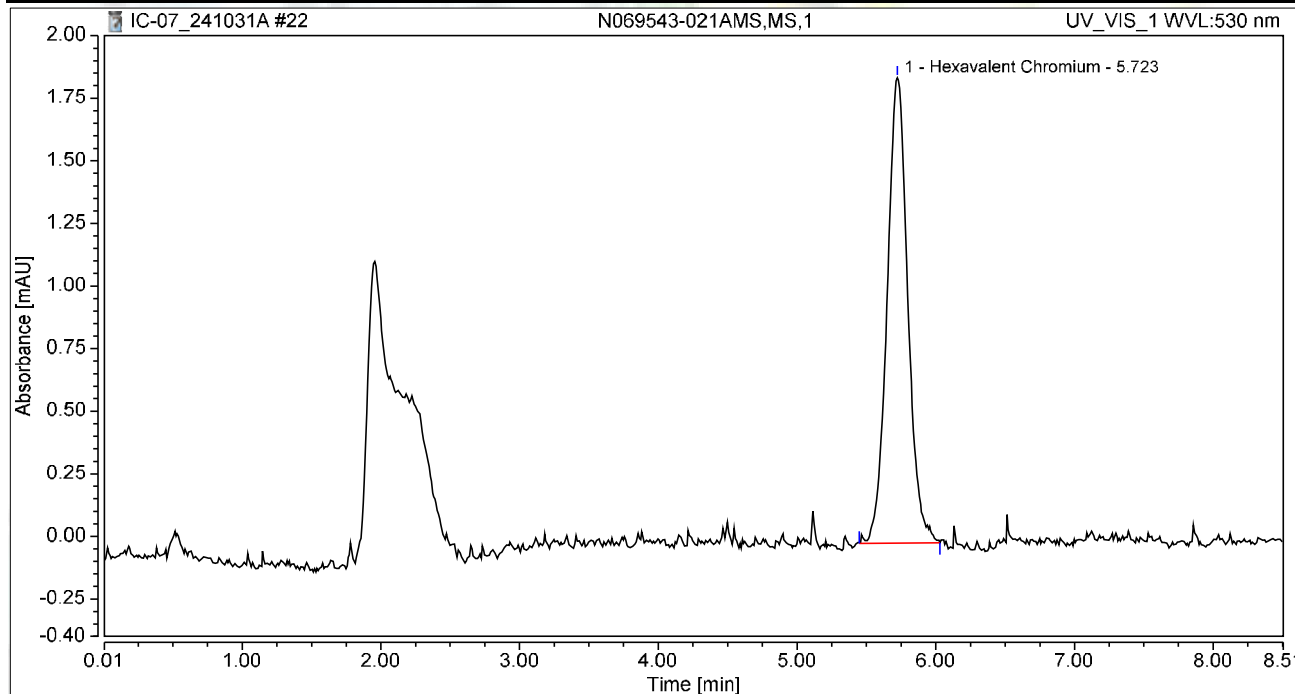
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.057	0.336	100.00	100.00	0.1996
Total:			0.057	0.336	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-021AMS,MS,1	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 11:52	Sample Weight:	1.0000

Chromatogram



Integration Results

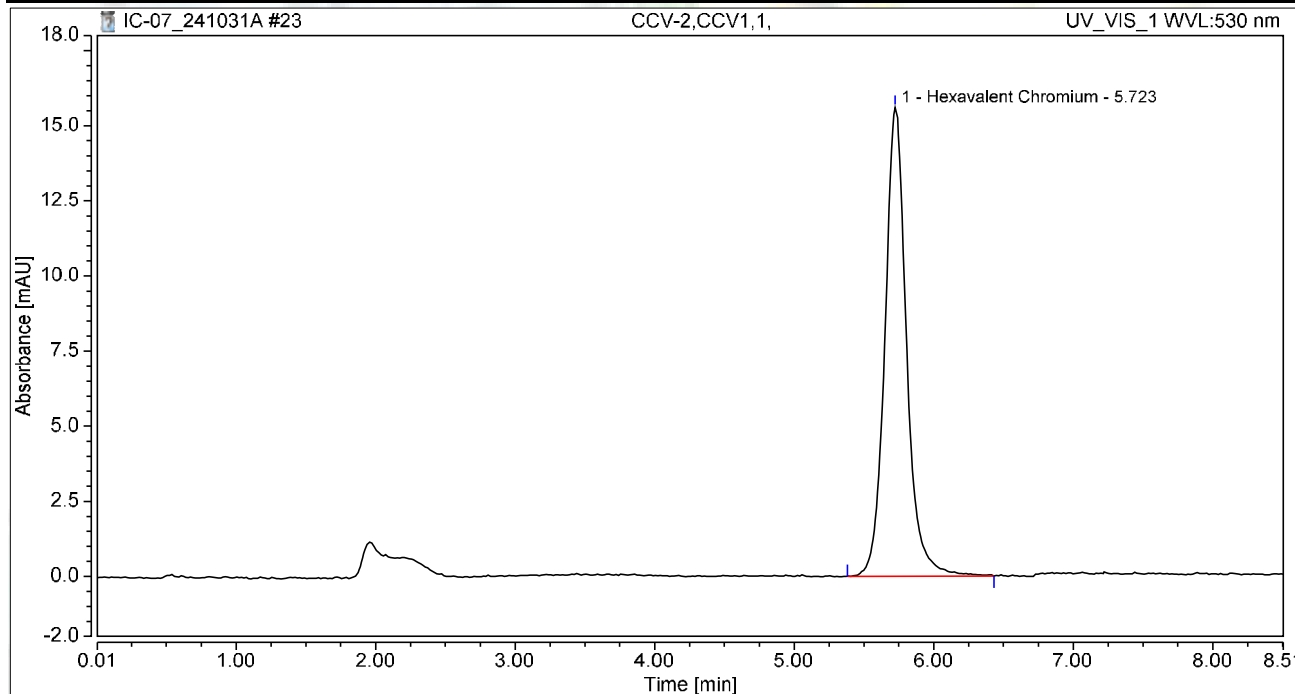
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.321	1.858	100.00	100.00	1.1321
Total:			0.321	1.858	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-2,CCV1,1,	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 12:02	Sample Weight:	1.0000

Chromatogram



Integration Results

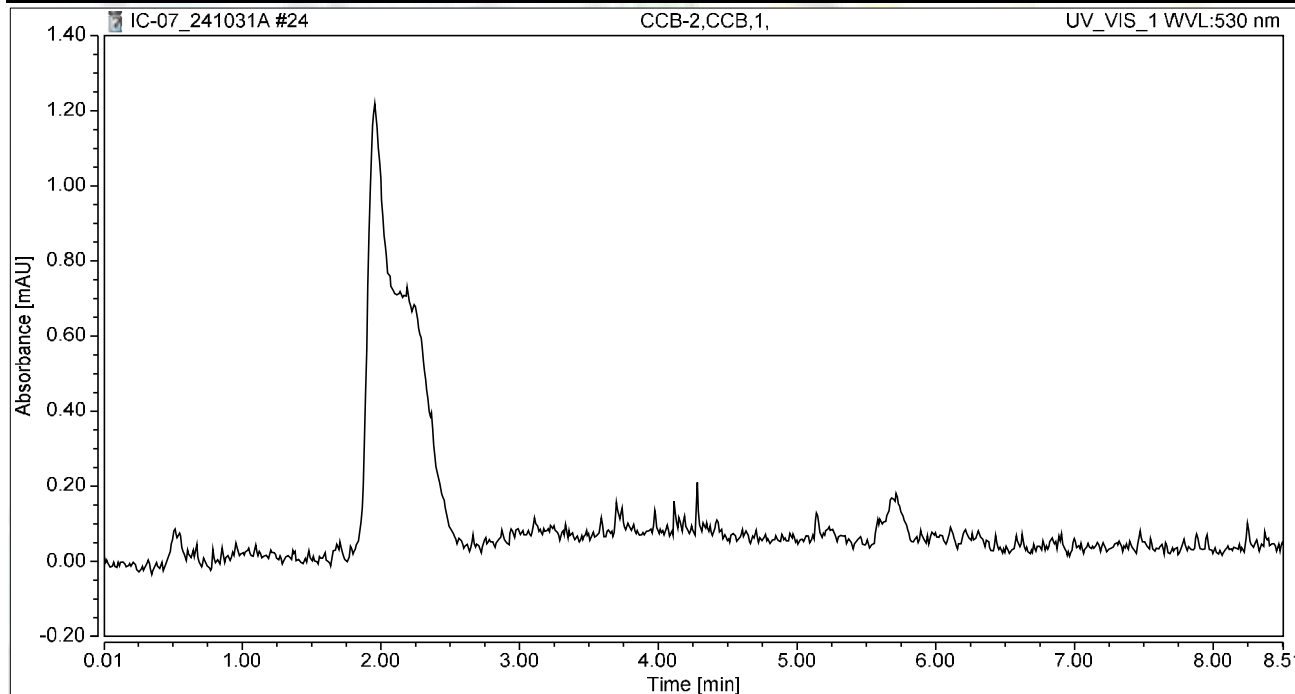
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	2.804	15.603	100.00	100.00	9.8821
Total:			2.804	15.603	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-2,CCB,1,	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 12:11	Sample Weight:	1.0000

Chromatogram



Integration Results

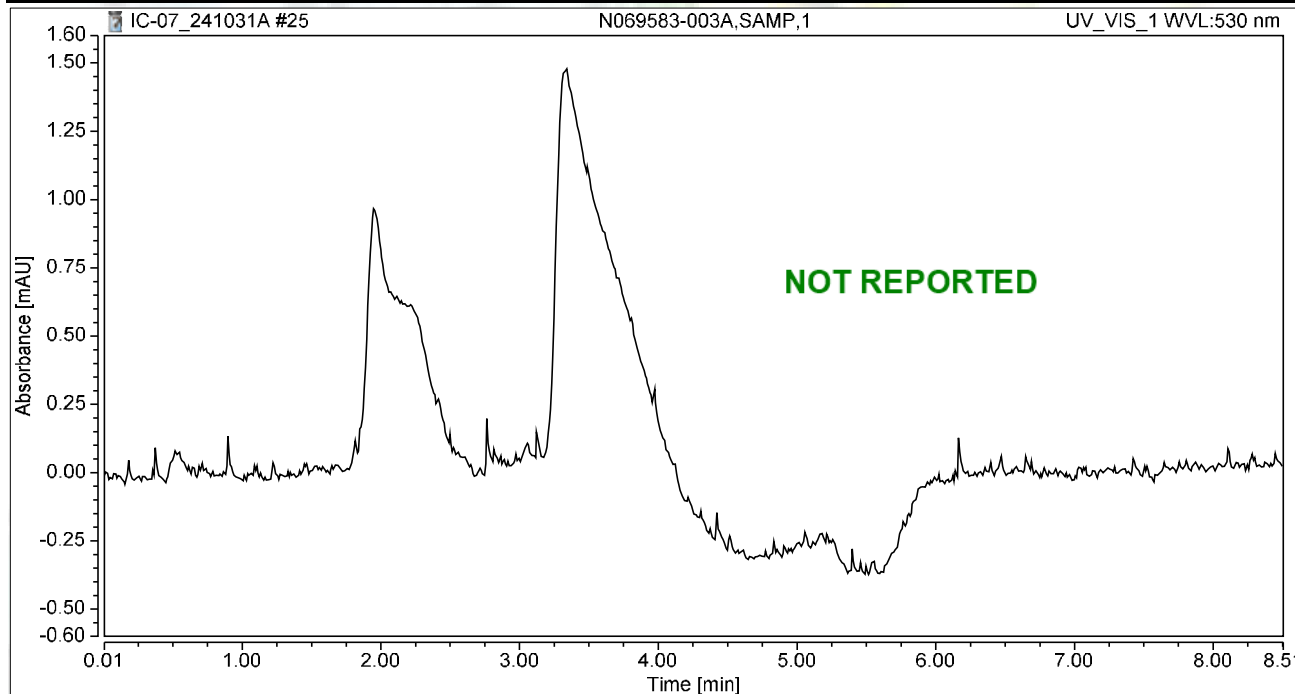
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 12:22	Sample Weight:	1.0000

Chromatogram



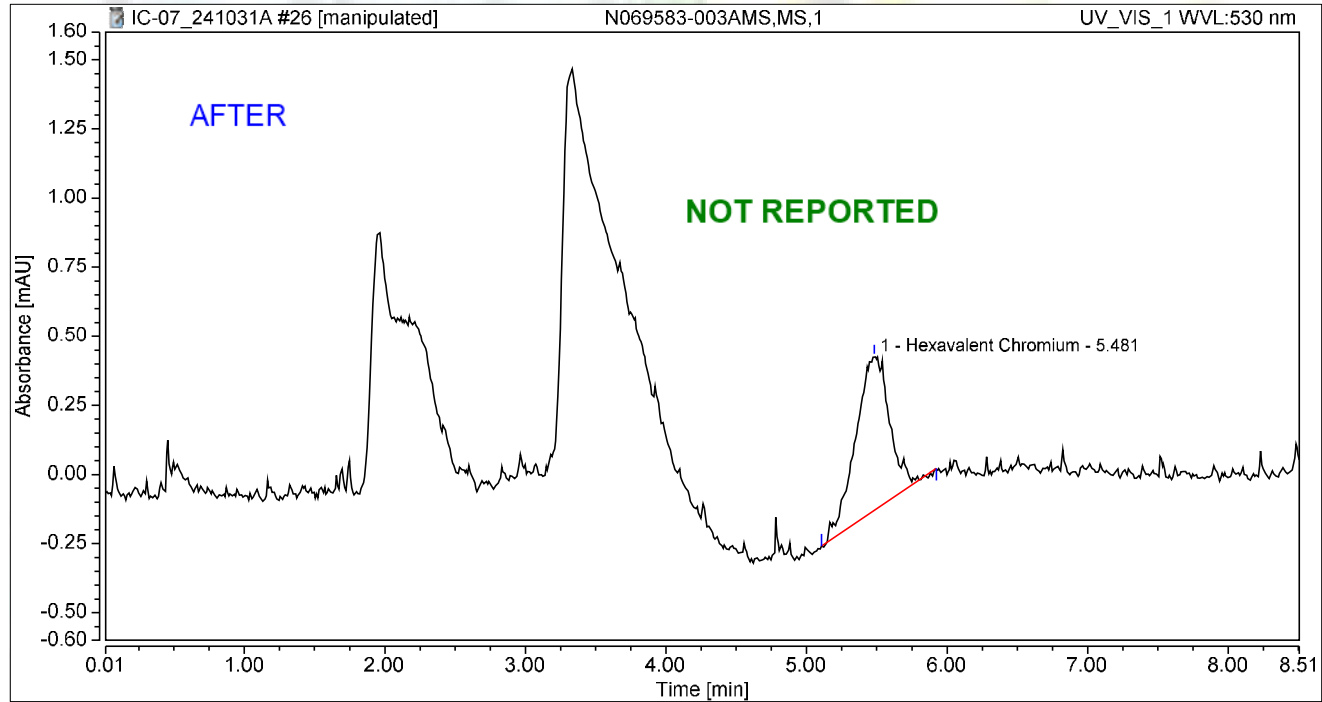
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069583-003AMS,MS,1	Run Time (min): 8.49
Vial Number:	2	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	31/Oct/24 12:33	Sample Weight: 1.0000

Chromatogram



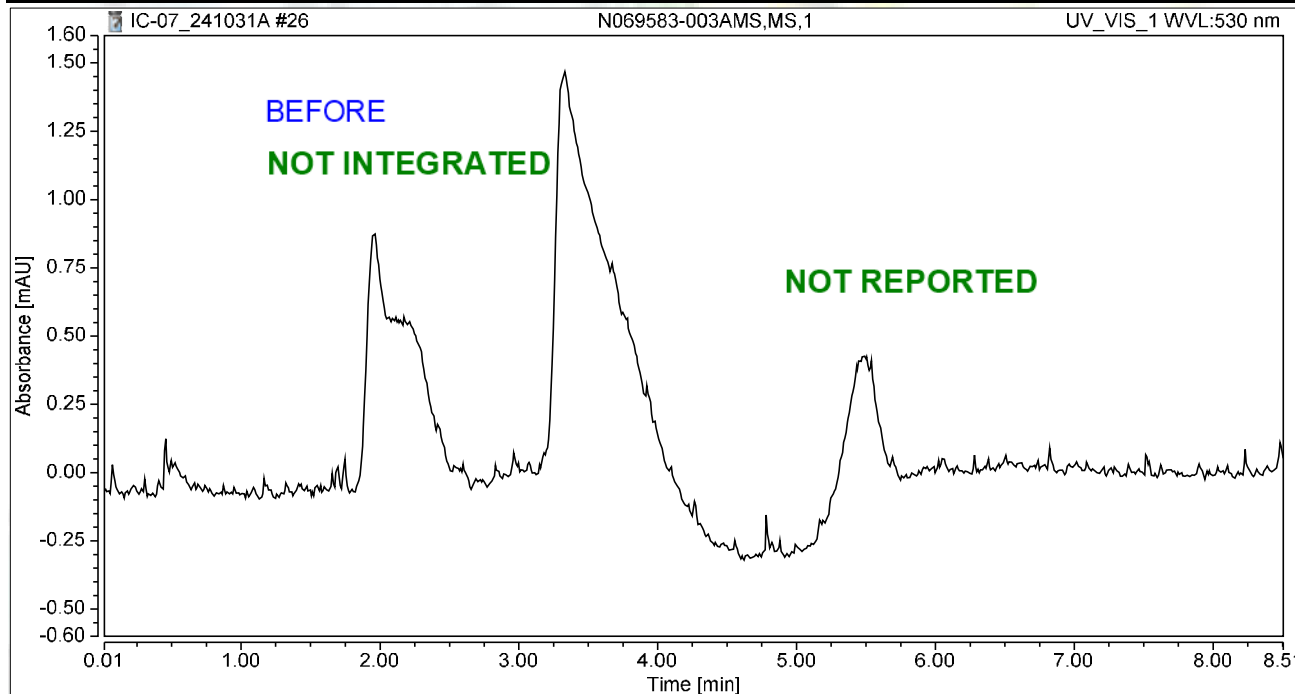
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.481	0.155	0.556	100.00	100.00	0.5470
Total:			0.155	0.556	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-003AMS,MS,1	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 12:33	Sample Weight:	1.0000

Chromatogram



Integration Results

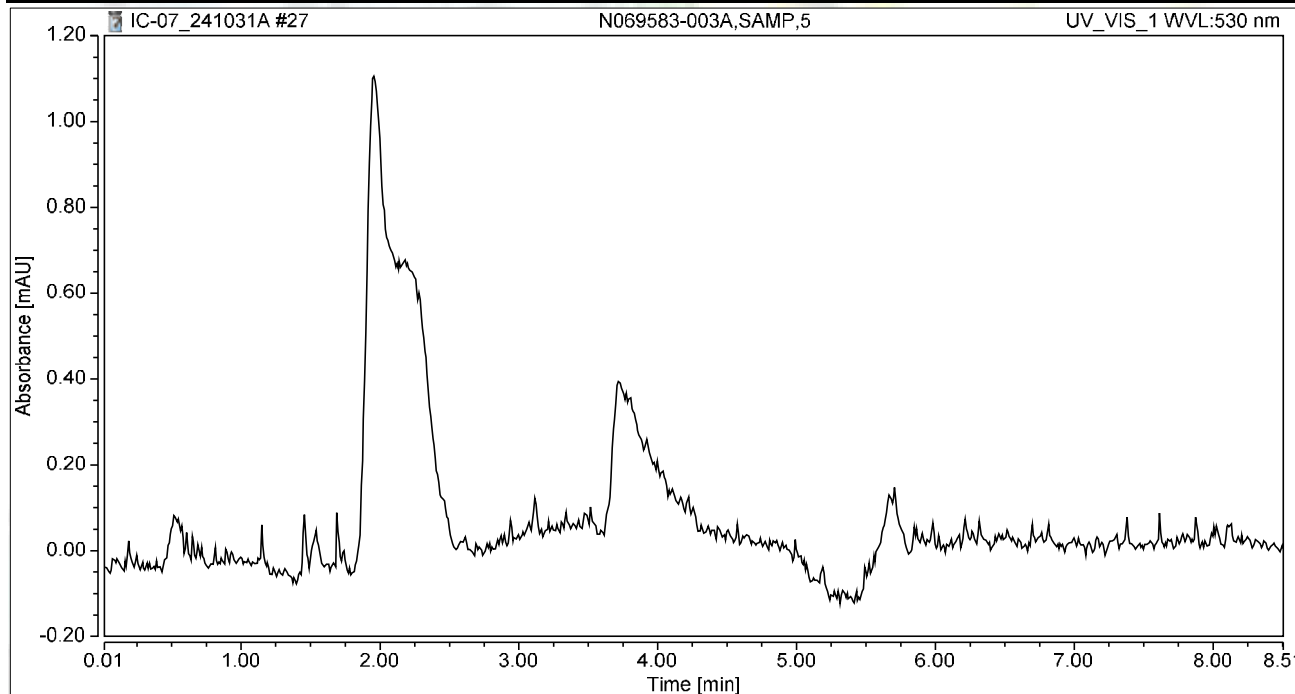
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-003A,SAMP,5	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 12:43	Sample Weight:	1.0000

Chromatogram



Integration Results

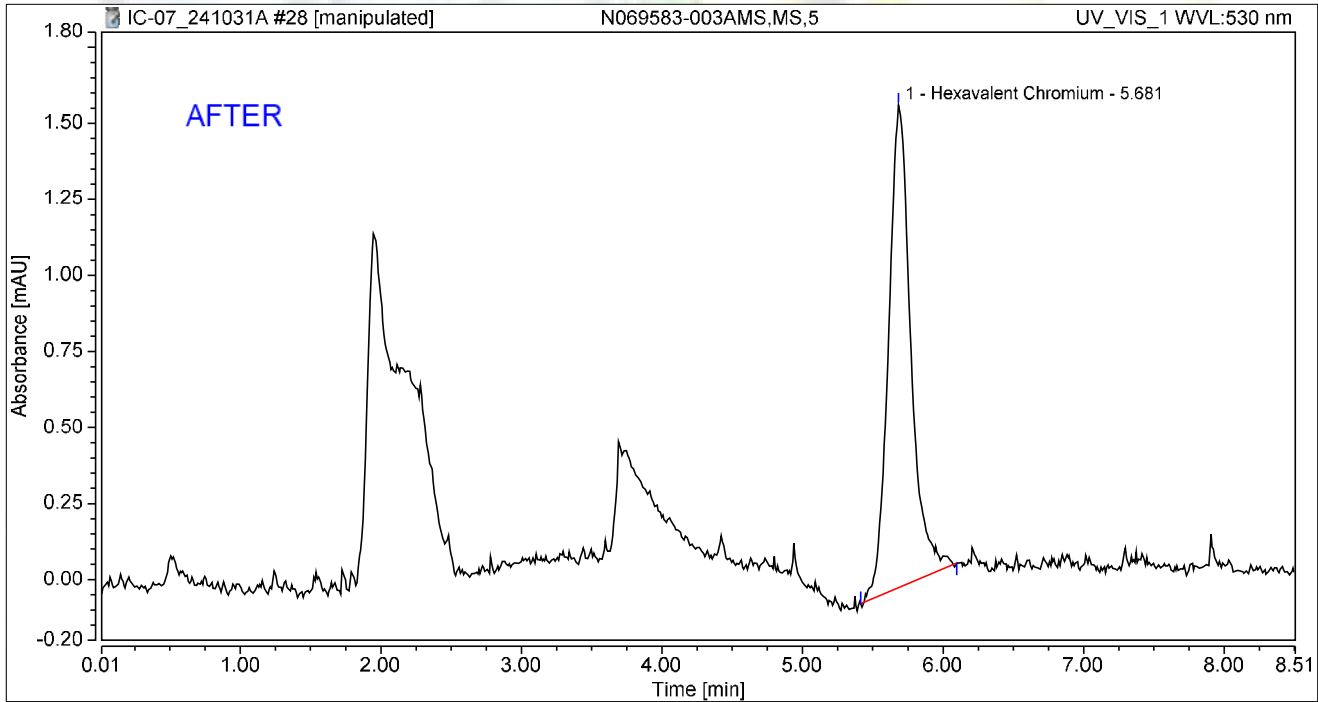
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-003AMS,MS,5	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 12:52	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.292	1.587	100.00	100.00	1.0289
Total:			0.292	1.587	100.00	100.00	

Reviewed by:

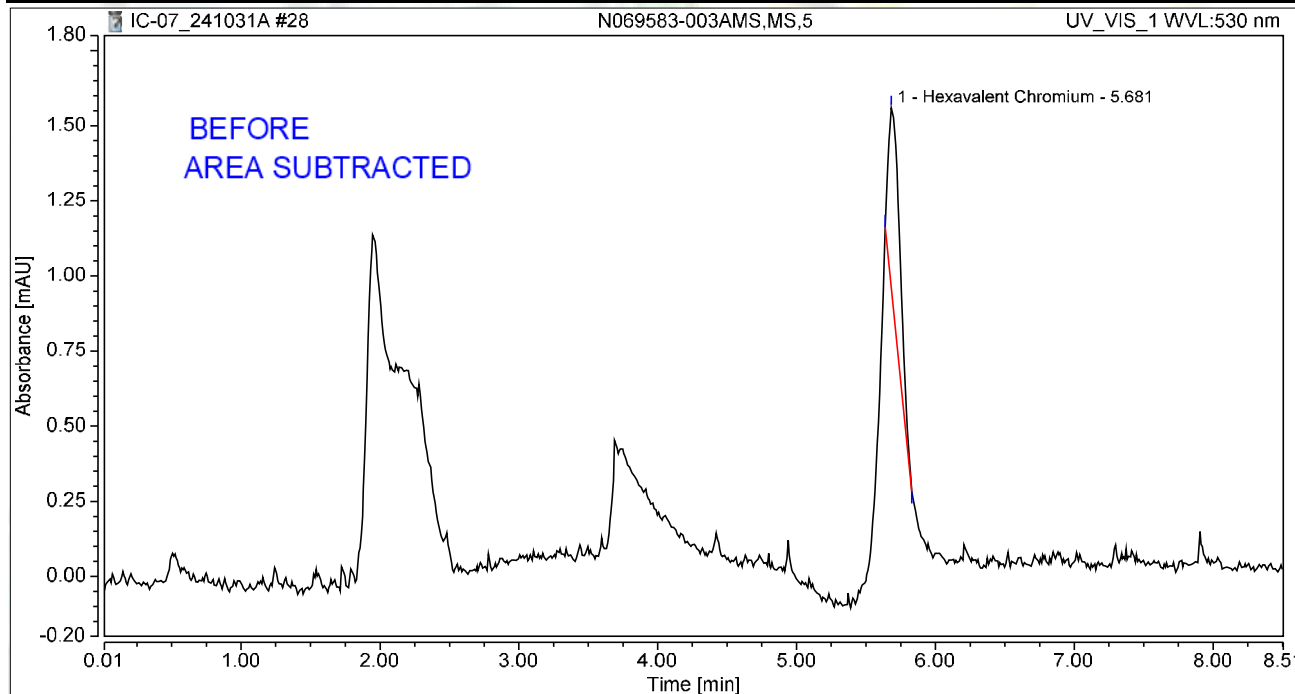
M. Rocha 11/13/2024

Chromatogram and Results

Injection Details

Injection Name:	N069583-003AMS,MS,5	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 12:52	Sample Weight:	1.0000

Chromatogram



Integration Results

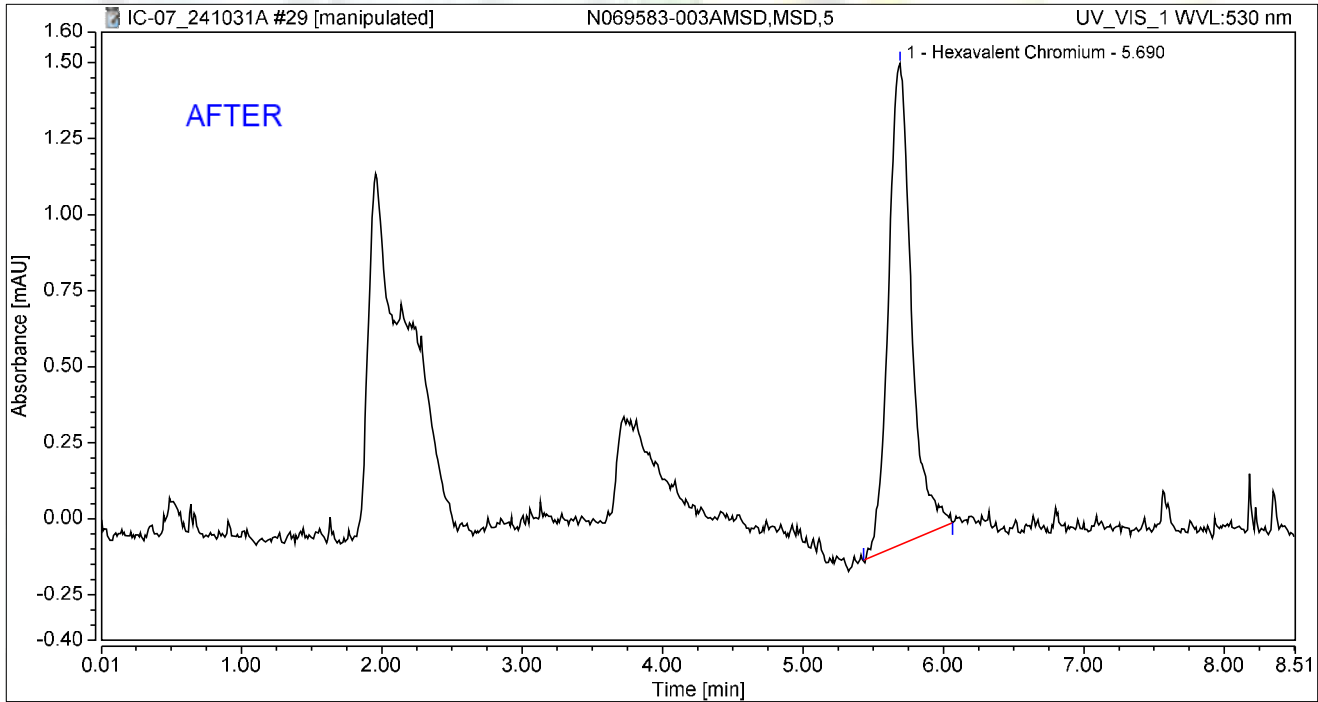
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.061	0.589	100.00	100.00	0.2164
Total:			0.061	0.589	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-003AMSD,MSD,5	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 13:02	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.300	1.582	100.00	100.00	1.0565
Total:			0.300	1.582	100.00	100.00	

Reviewed by:

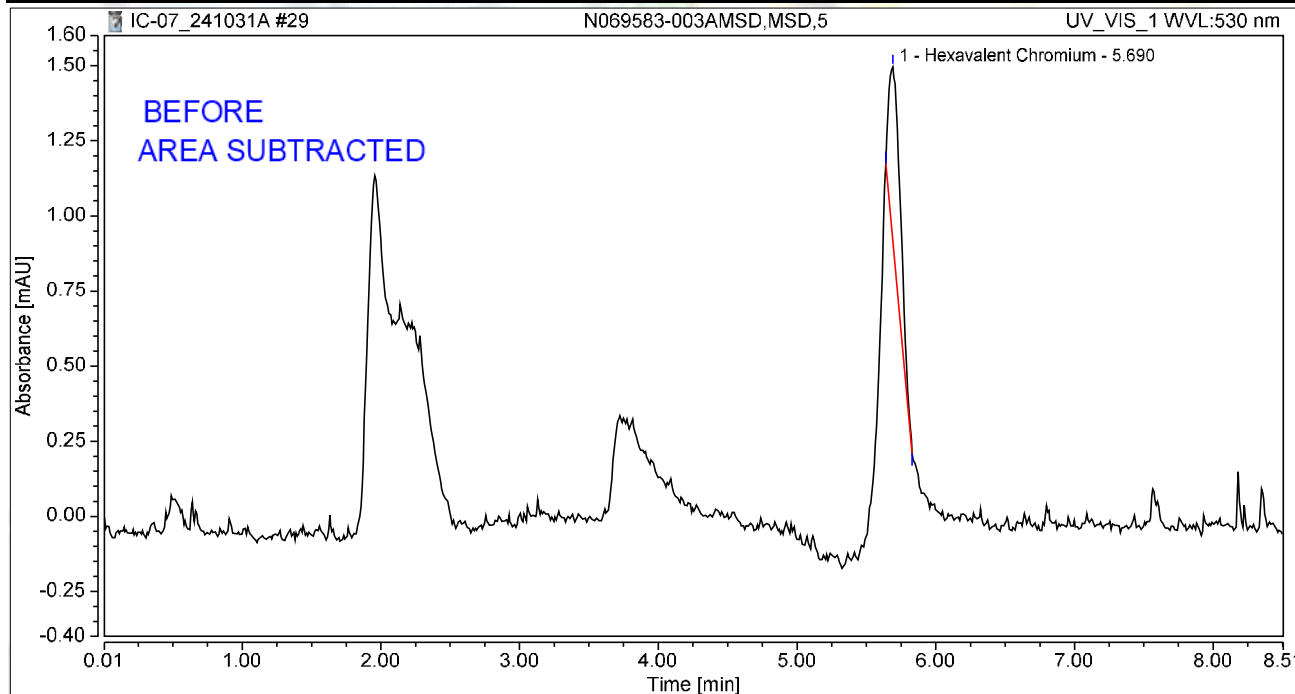
M Rocha 11/13/2024

Chromatogram and Results

Injection Details

Injection Name:	N069583-003AMSD,MSD,5	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 13:02	Sample Weight:	1.0000

Chromatogram



Integration Results

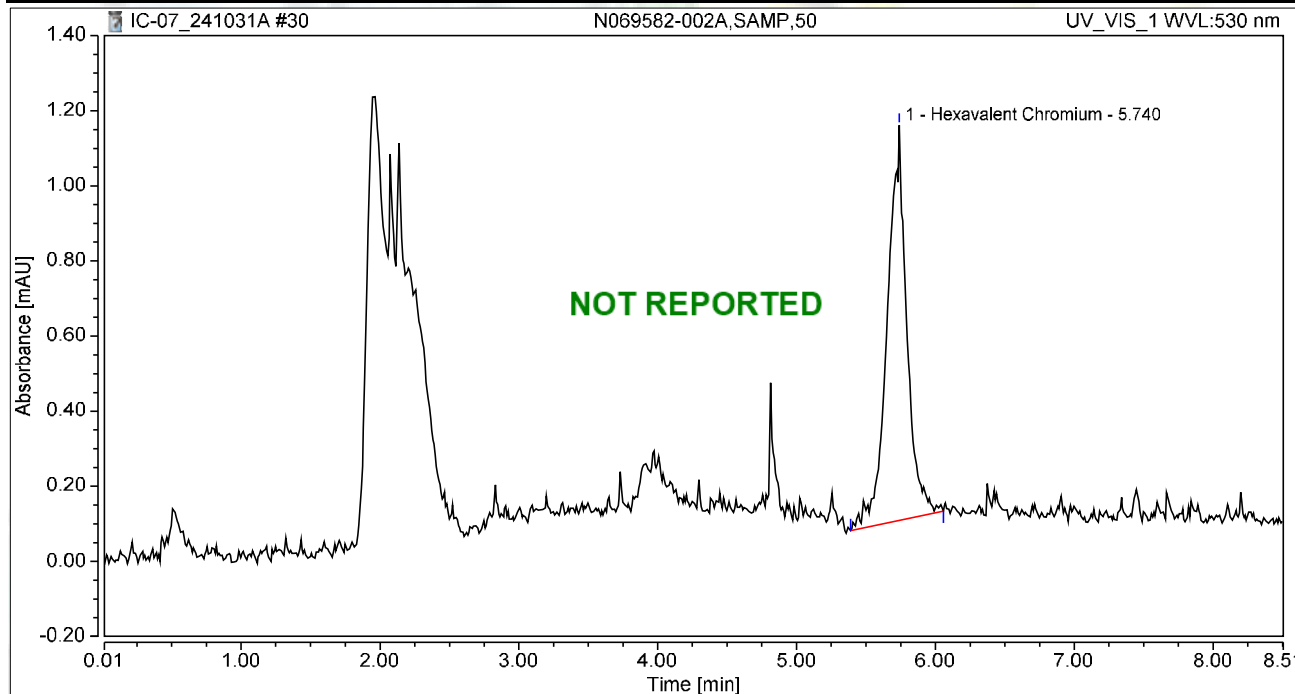
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.057	0.574	100.00	100.00	0.2025
Total:			0.057	0.574	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-002A,SAMP,50	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 13:52	Sample Weight:	1.0000

Chromatogram



Integration Results

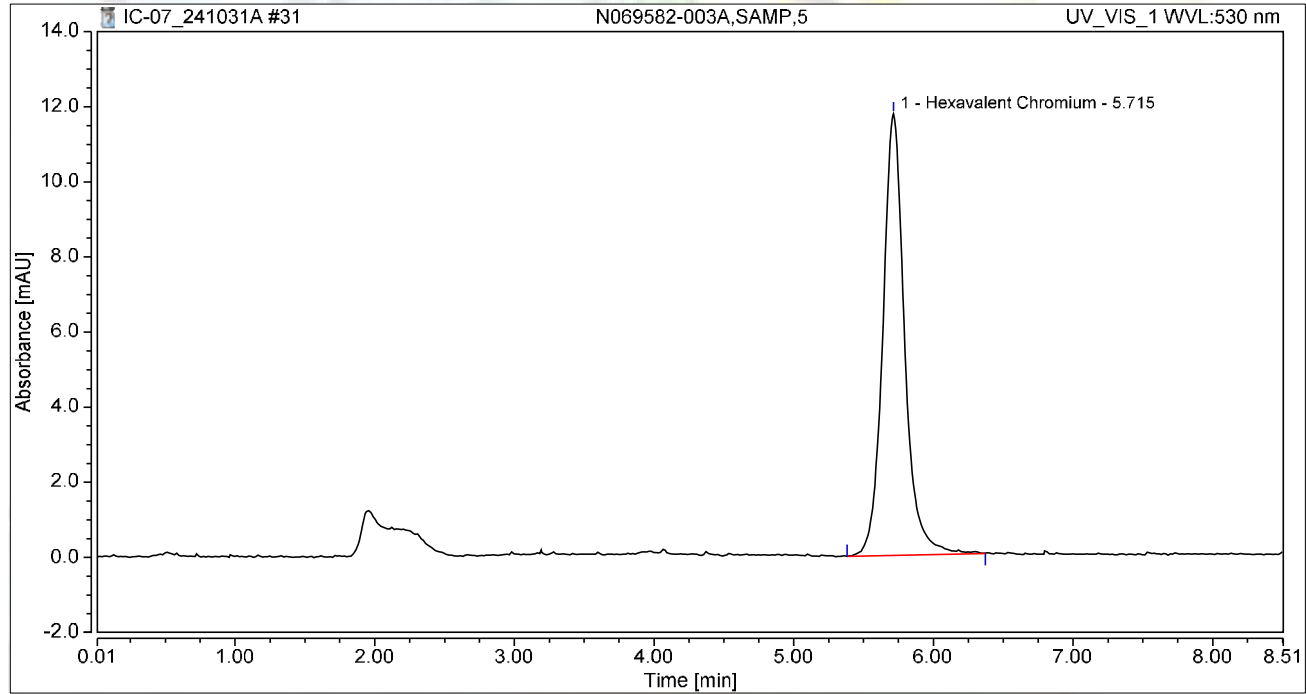
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	0.171	1.052	100.00	100.00	0.6034
Total:			0.171	1.052	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-003A,SAMP,5	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 14:05	Sample Weight:	1.0000

Chromatogram



Integration Results

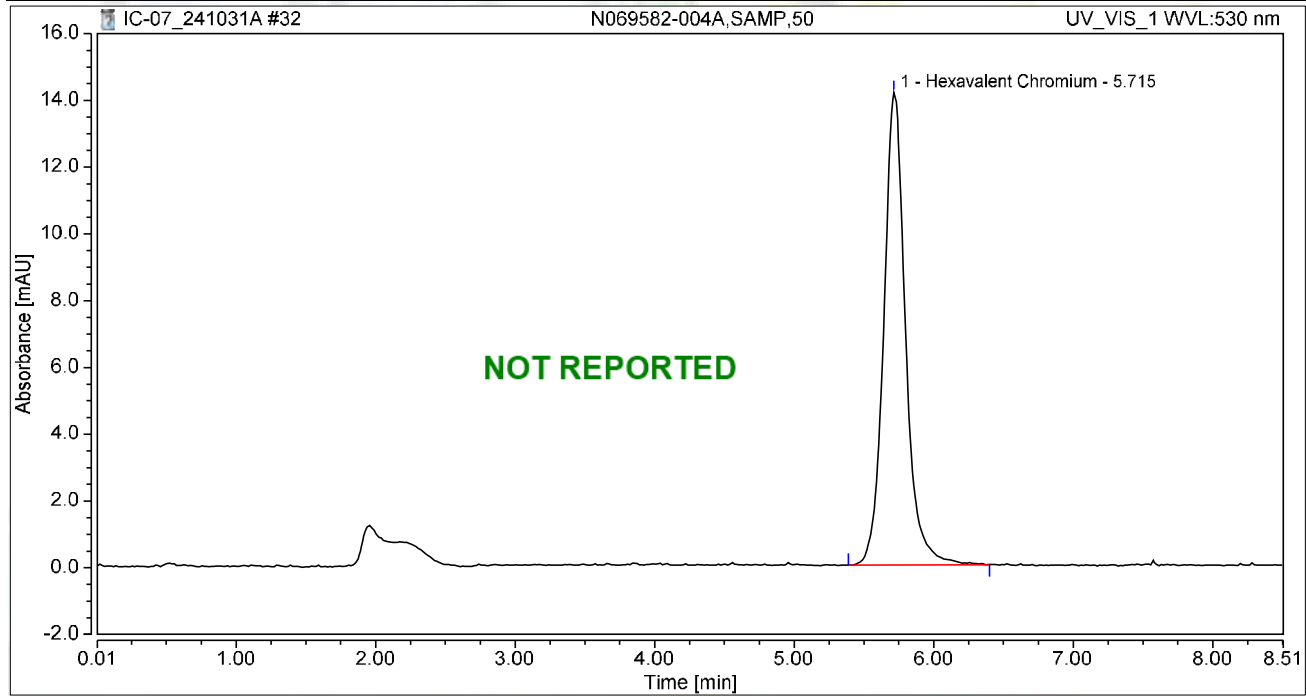
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.133	11.753	100.00	100.00	7.5182
Total:			2.133	11.753	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-004A,SAMP,50	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 14:14	Sample Weight:	1.0000

Chromatogram



Integration Results

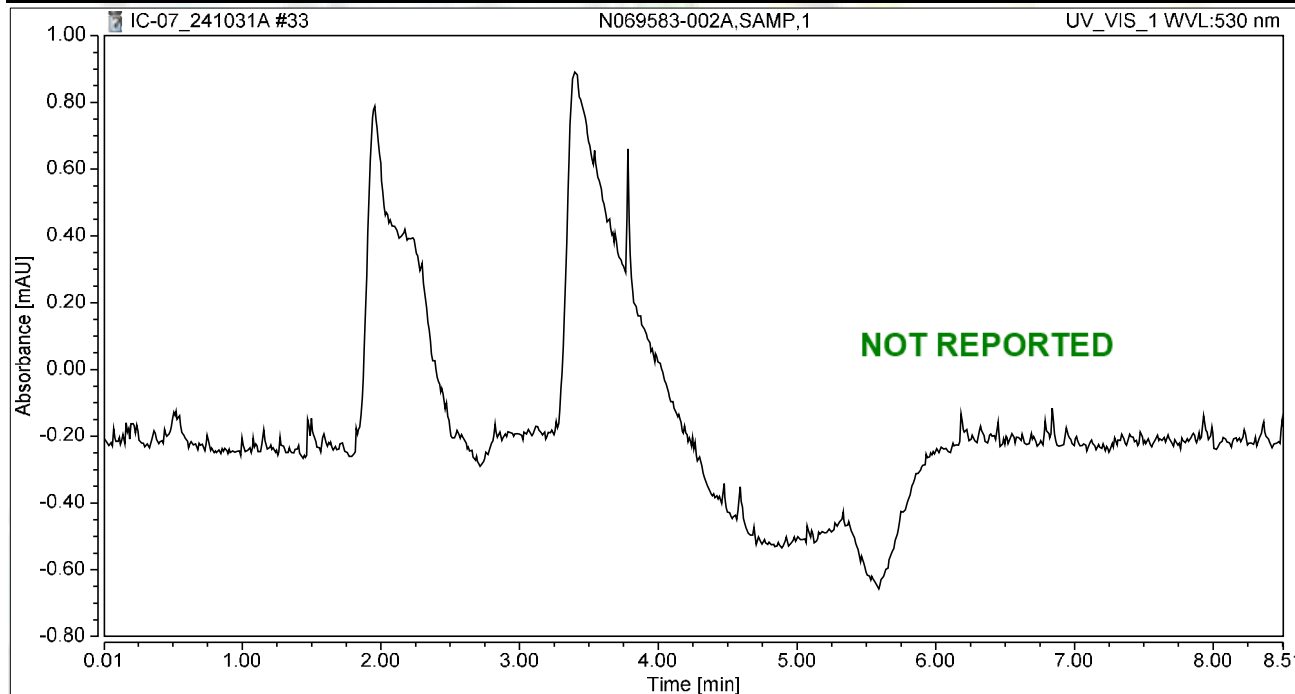
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.555	14.157	100.00	100.00	9.0038
Total:			2.555	14.157	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 14:24	Sample Weight:	1.0000

Chromatogram



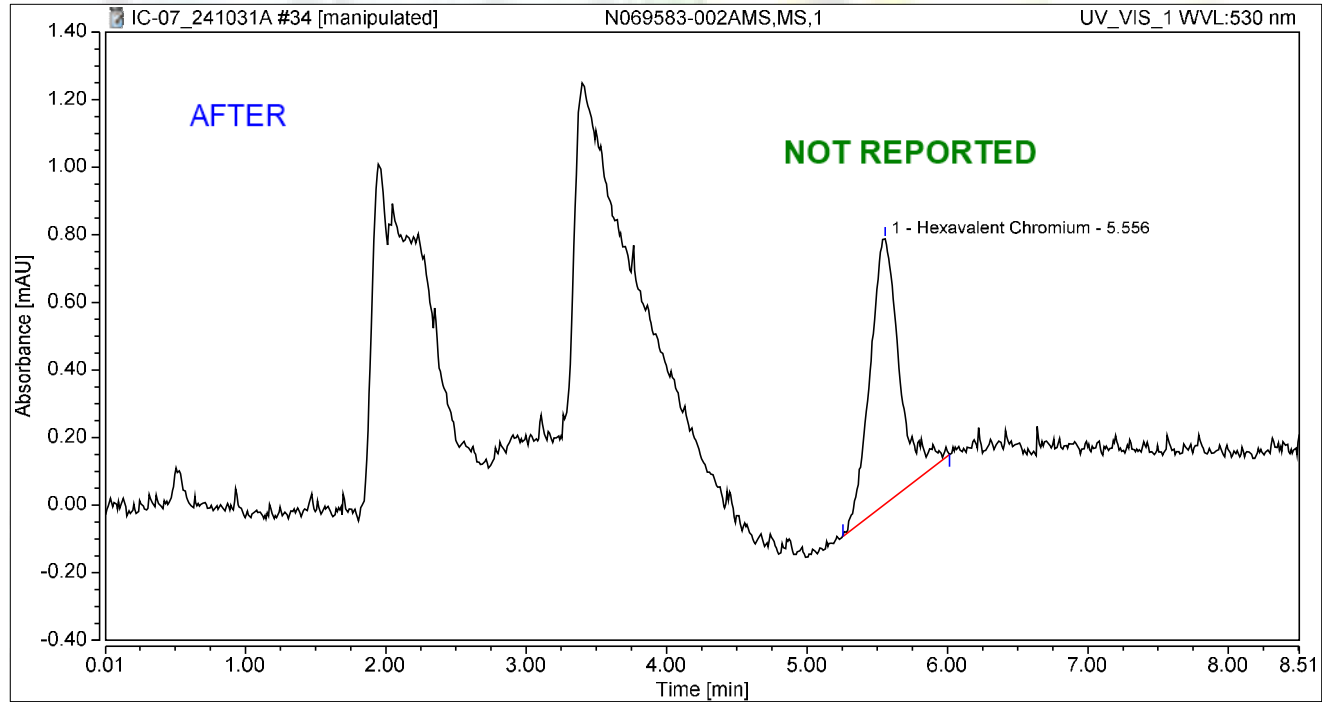
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069583-002AMS,MS,1	Run Time (min): 8.50
Vial Number:	5	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	31/Oct/24 14:33	Sample Weight: 1.0000

Chromatogram



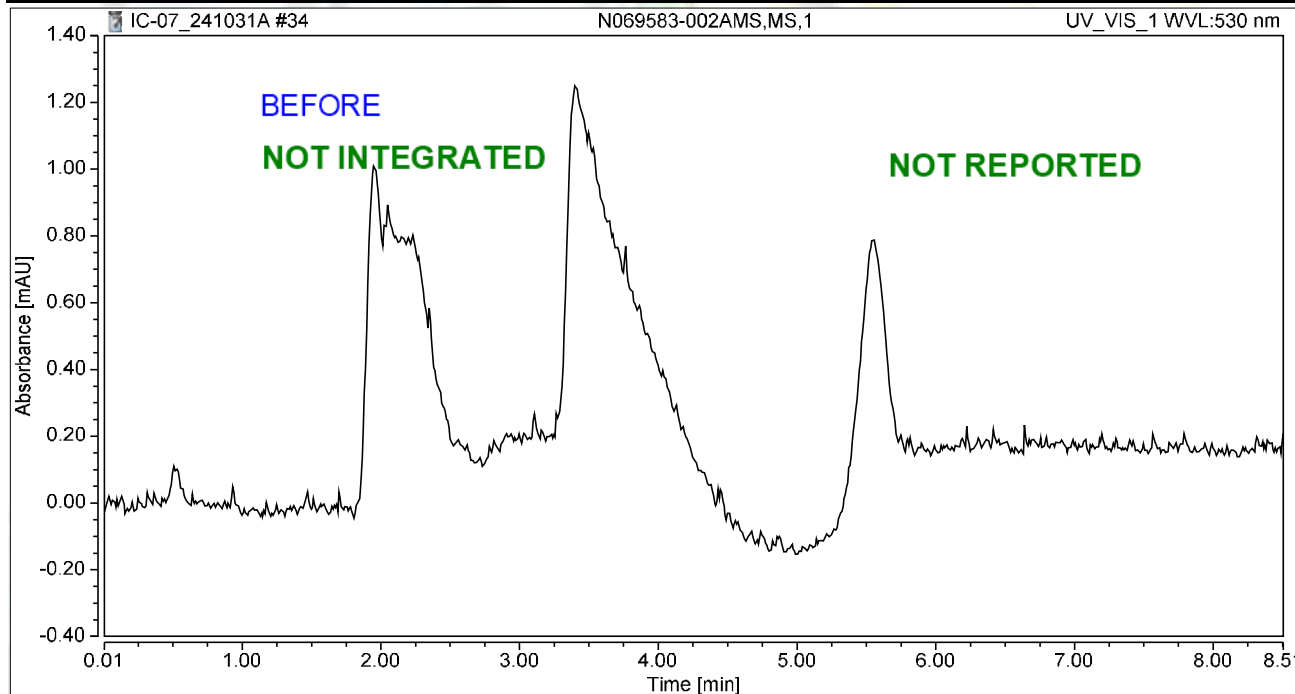
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.556	0.193	0.784	100.00	100.00	0.6794
Total:			0.193	0.784	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 14:33	Sample Weight:	1.0000

Chromatogram



Integration Results

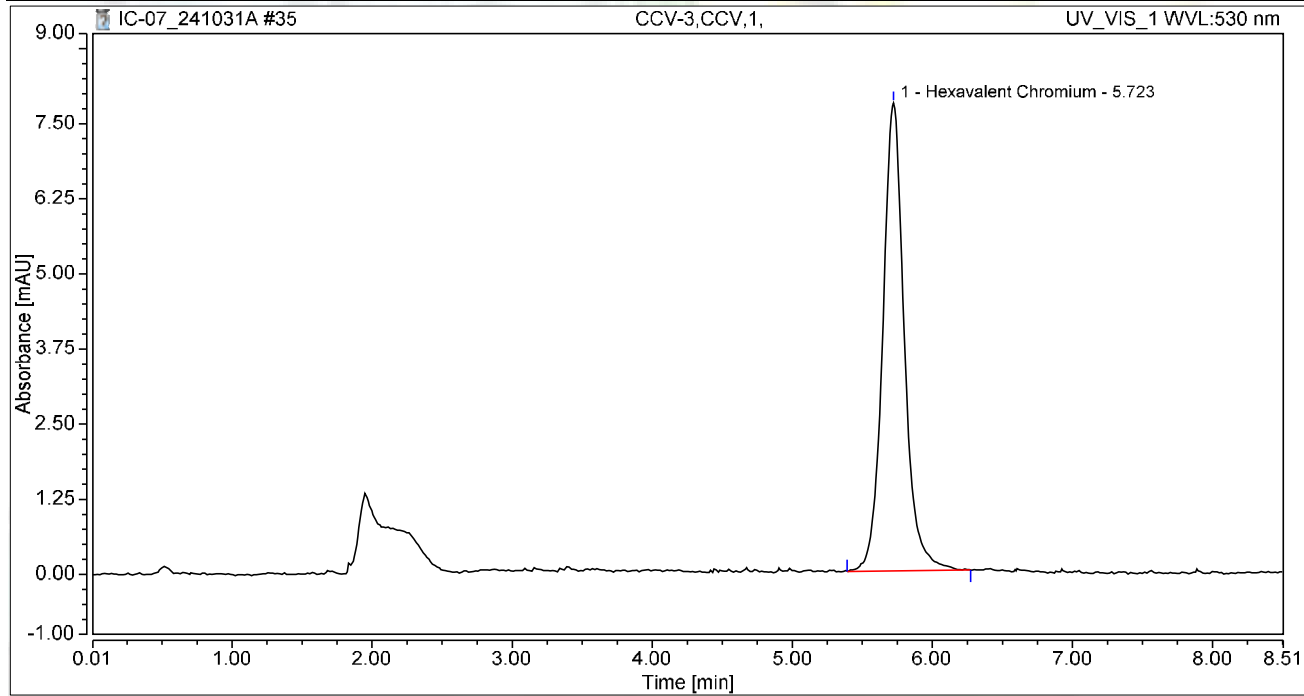
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-3,CCV,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 14:43	Sample Weight:	1.0000

Chromatogram



Integration Results

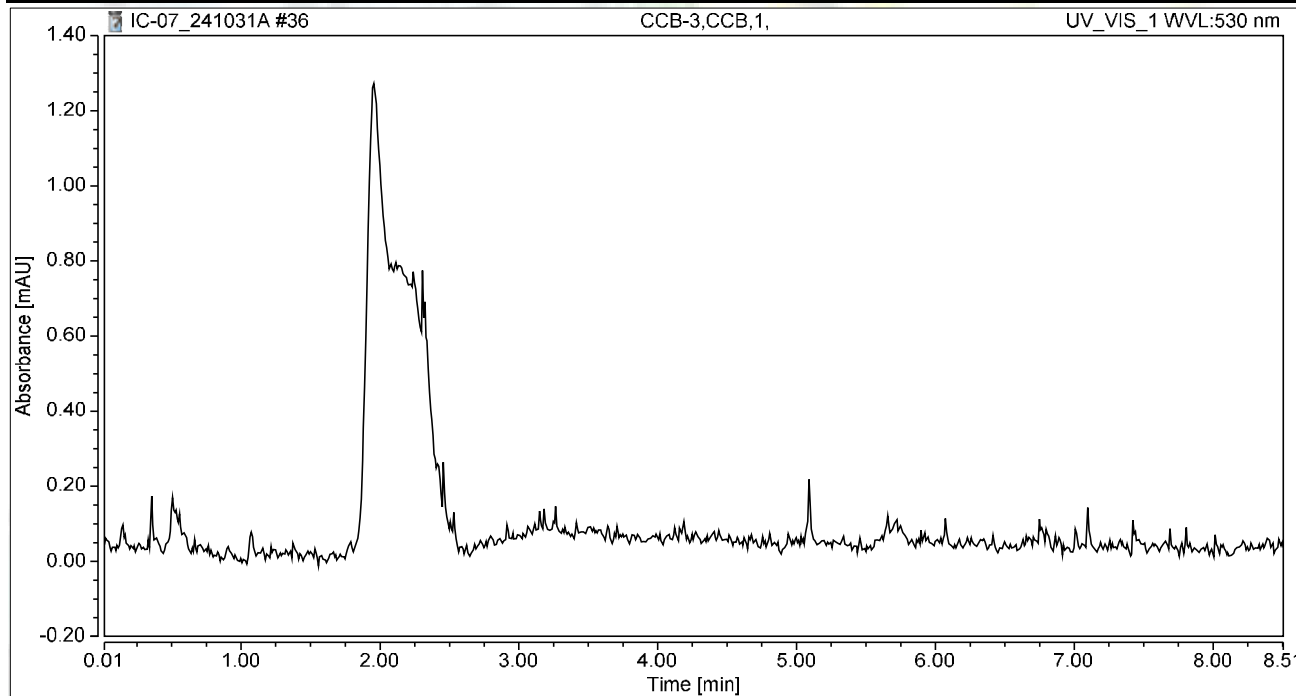
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	1.393	7.787	100.00	100.00	4.9088
Total:			1.393	7.787	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-3,CCB,1,	Run Time (min):	8.49
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 14:52	Sample Weight:	1.0000

Chromatogram



Integration Results

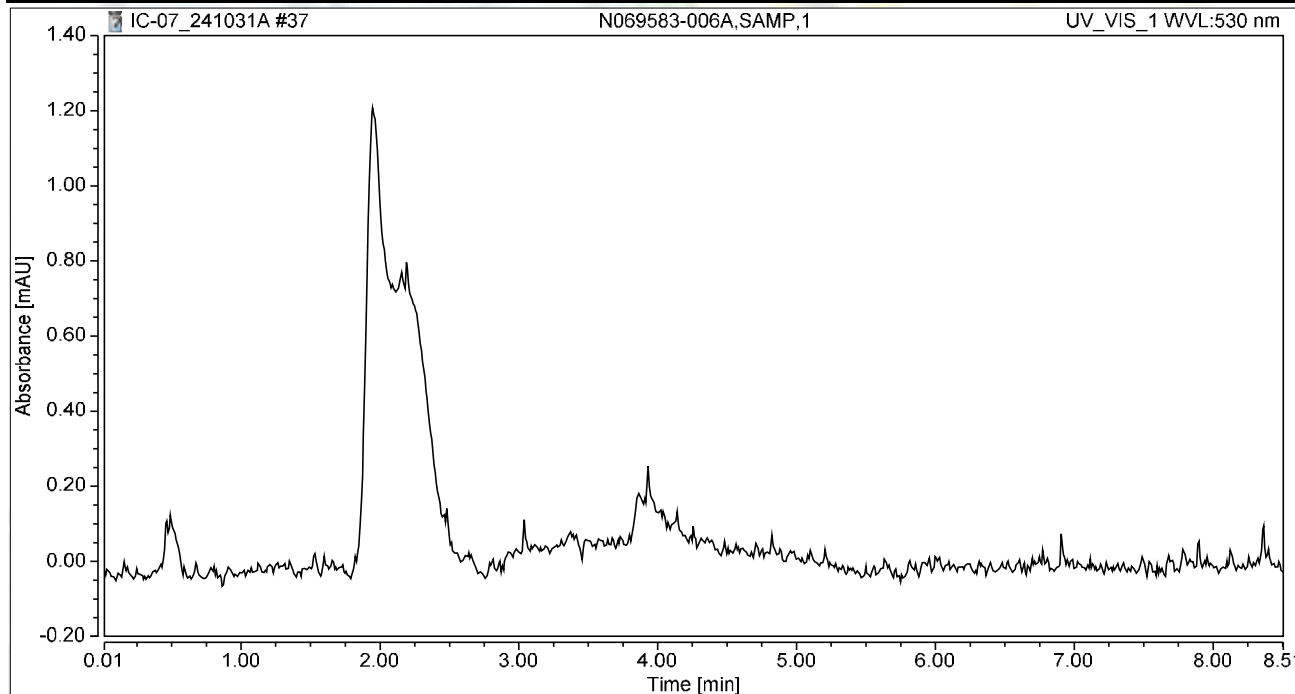
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-006A,SAMP,1	Run Time (min):	8.49
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 15:02	Sample Weight:	1.0000

Chromatogram



Integration Results

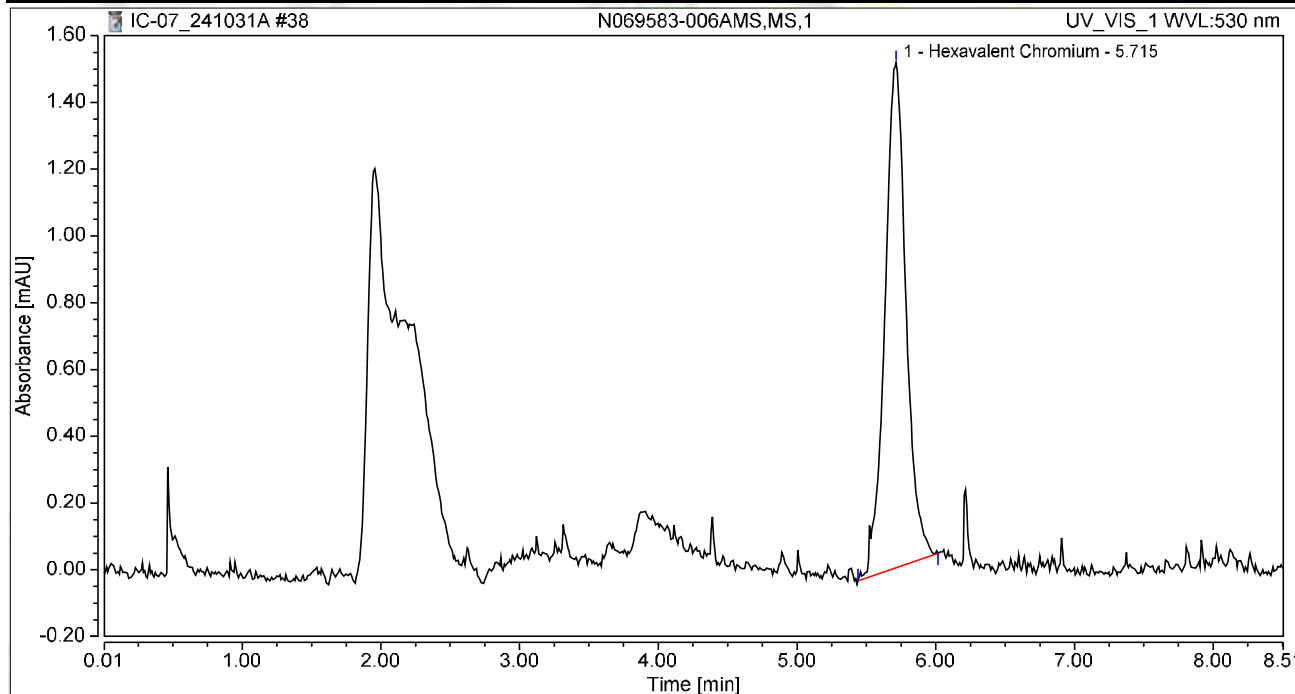
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-006AMS,MS,1	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 15:11	Sample Weight:	1.0000

Chromatogram



Integration Results

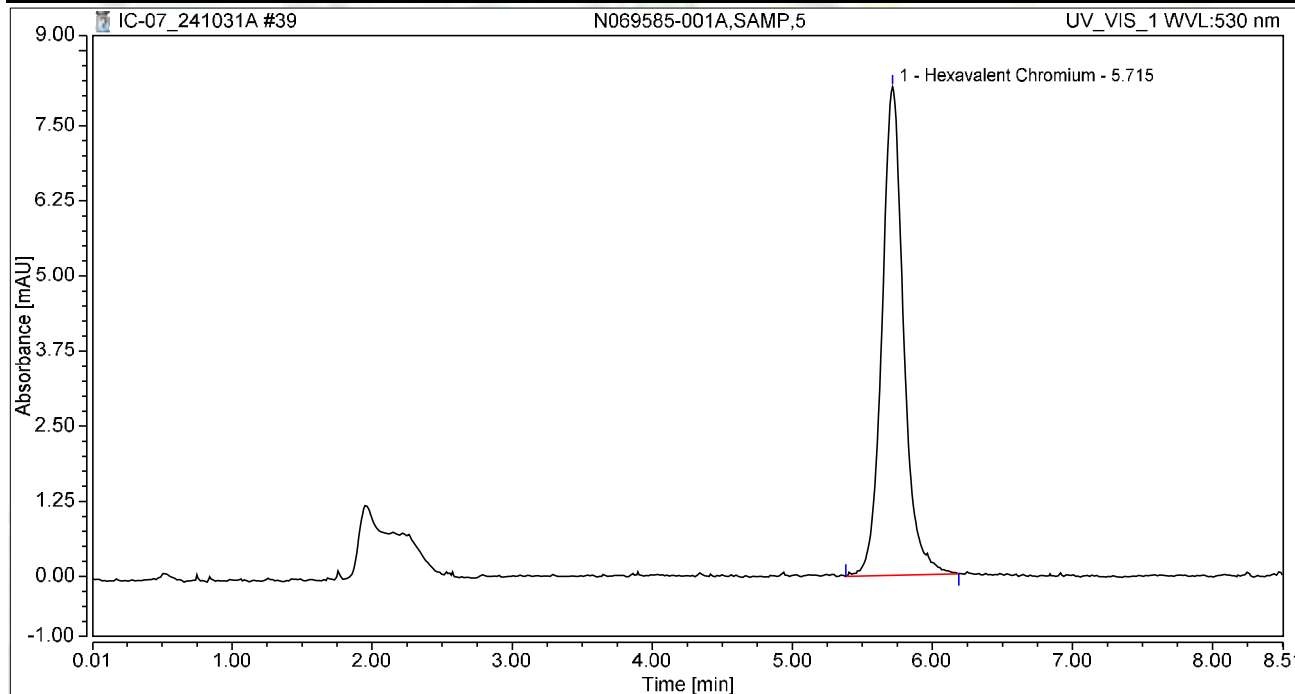
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.268	1.513	100.00	100.00	0.9431
Total:			0.268	1.513	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069585-001A,SAMP,5	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 15:21	Sample Weight:	1.0000

Chromatogram



Integration Results

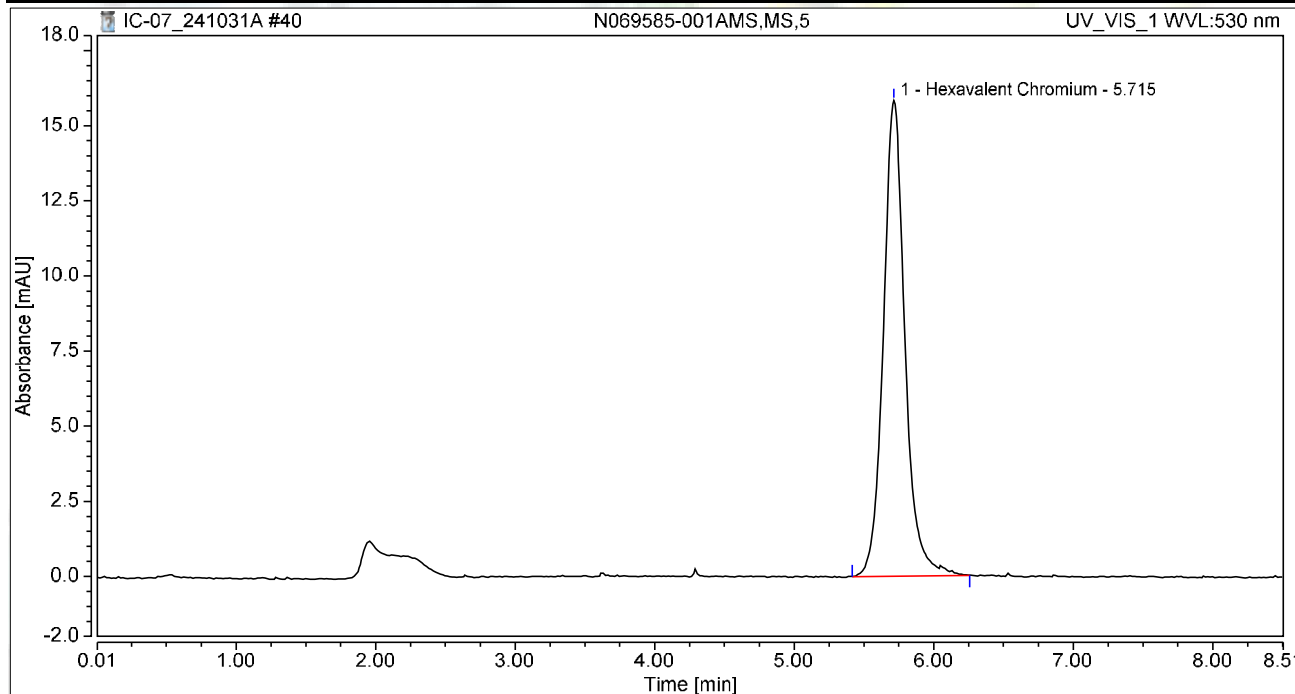
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	1.457	8.127	100.00	100.00	5.1353
Total:			1.457	8.127	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069585-001AMS,MS,5	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 15:30	Sample Weight:	1.0000

Chromatogram



Integration Results

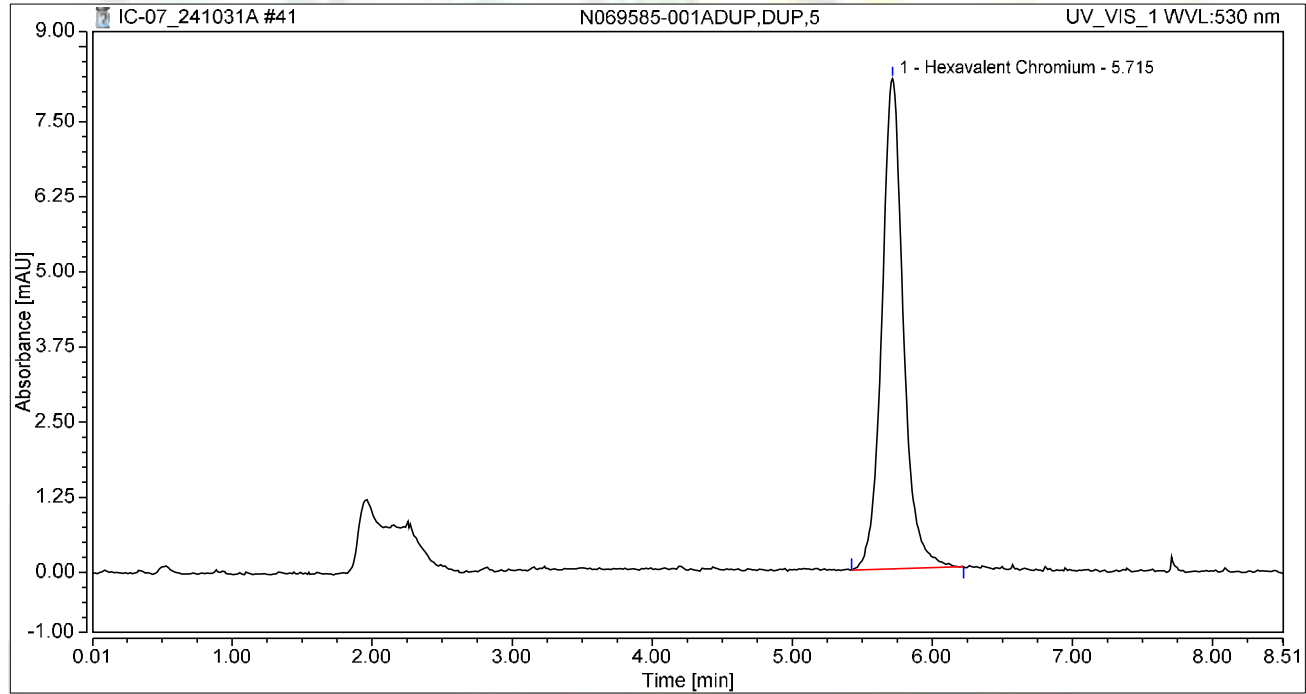
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.832	15.835	100.00	100.00	9.9807
Total:			2.832	15.835	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069585-001ADUP,DUP,5	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 15:39	Sample Weight:	1.0000

Chromatogram



Integration Results

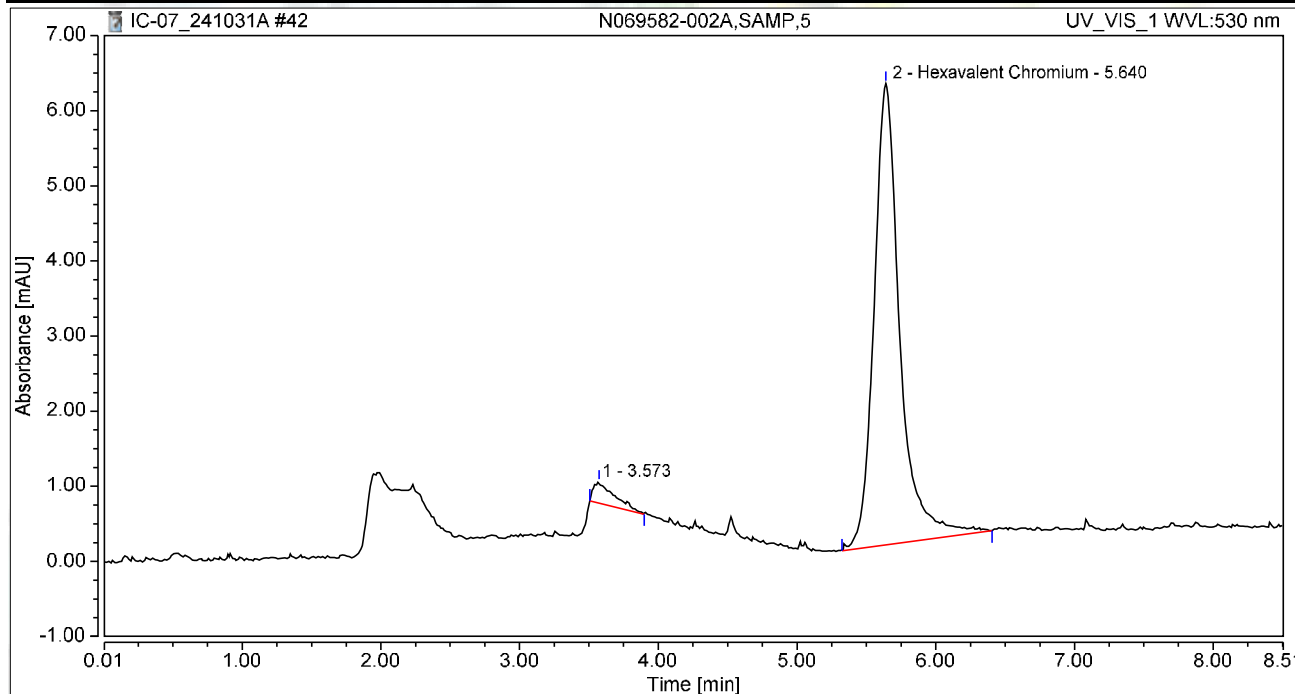
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	1.458	8.160	100.00	100.00	5.1369
Total:			1.458	8.160	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-002A,SAMP,5	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 16:04	Sample Weight:	1.0000

Chromatogram



Integration Results

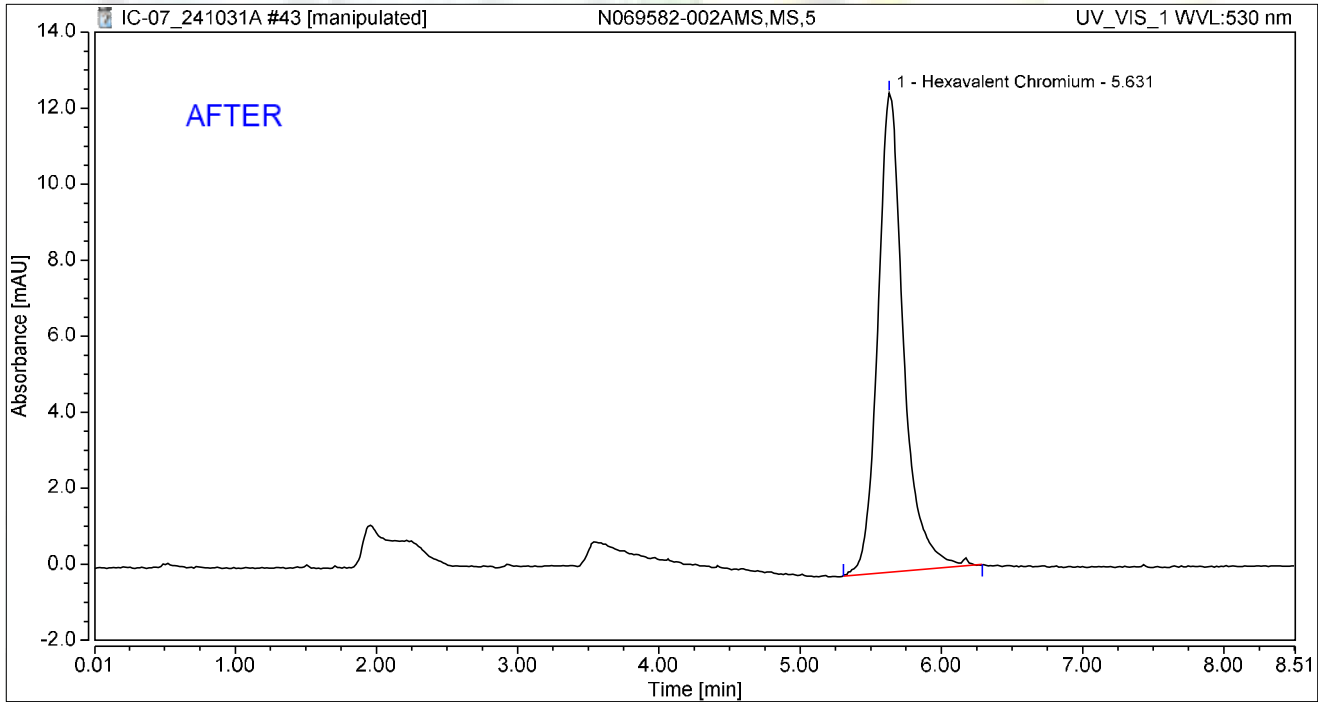
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.573	0.051	0.284	3.71	4.42	n.a.
2	Hexavalent Chromium	5.640	1.326	6.143	96.29	95.58	4.6721
Total:			1.377	6.427	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 16:16	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.631	2.657	12.603	100.00	100.00	9.3634
Total:			2.657	12.603	100.00	100.00	

Reviewed by:

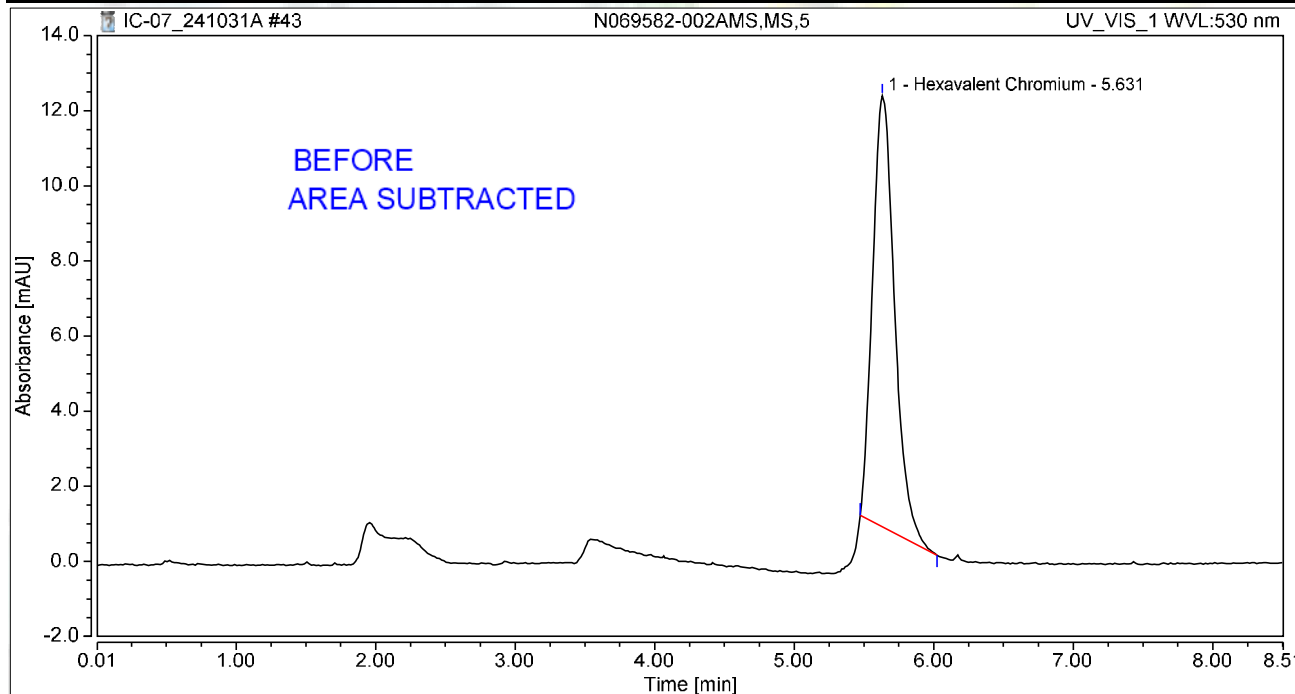
d/Rocha 11/13/2024

Chromatogram and Results

Injection Details

Injection Name:	N069582-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 16:16	Sample Weight:	1.0000

Chromatogram



Integration Results

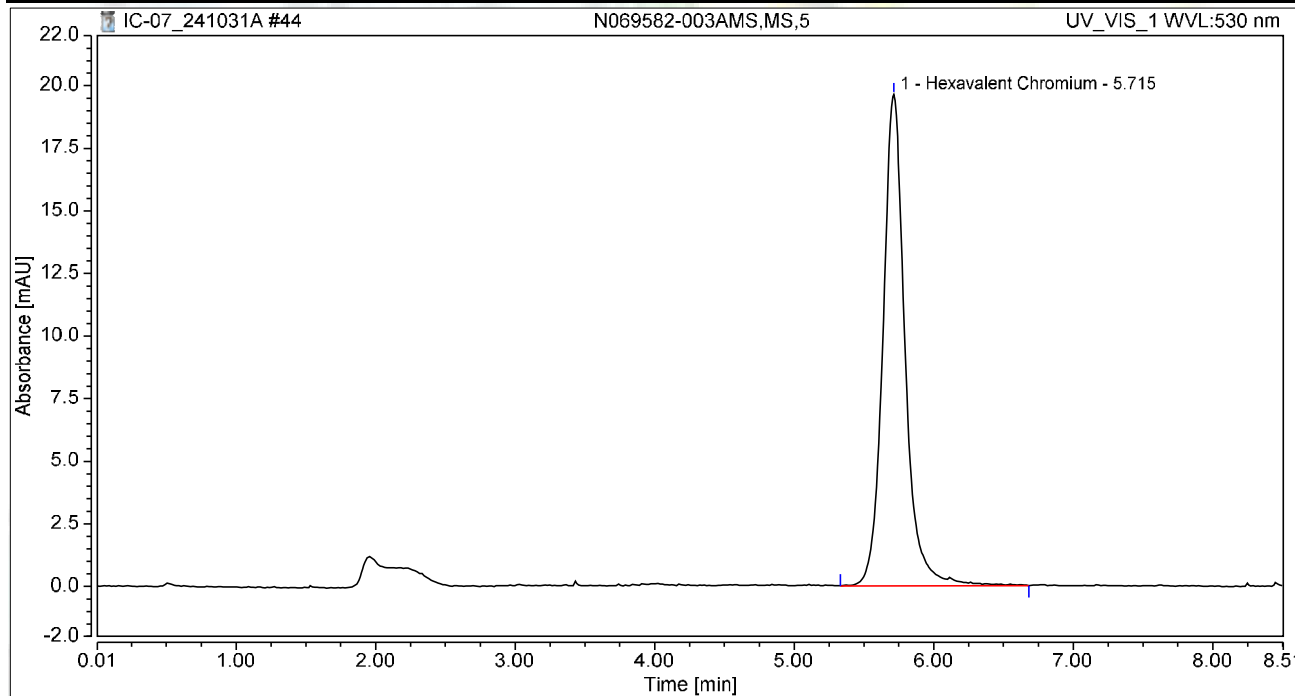
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.631	2.099	11.477	100.00	100.00	7.3957
Total:			2.099	11.477	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-003AMS,MS,5	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 16:26	Sample Weight:	1.0000

Chromatogram



Integration Results

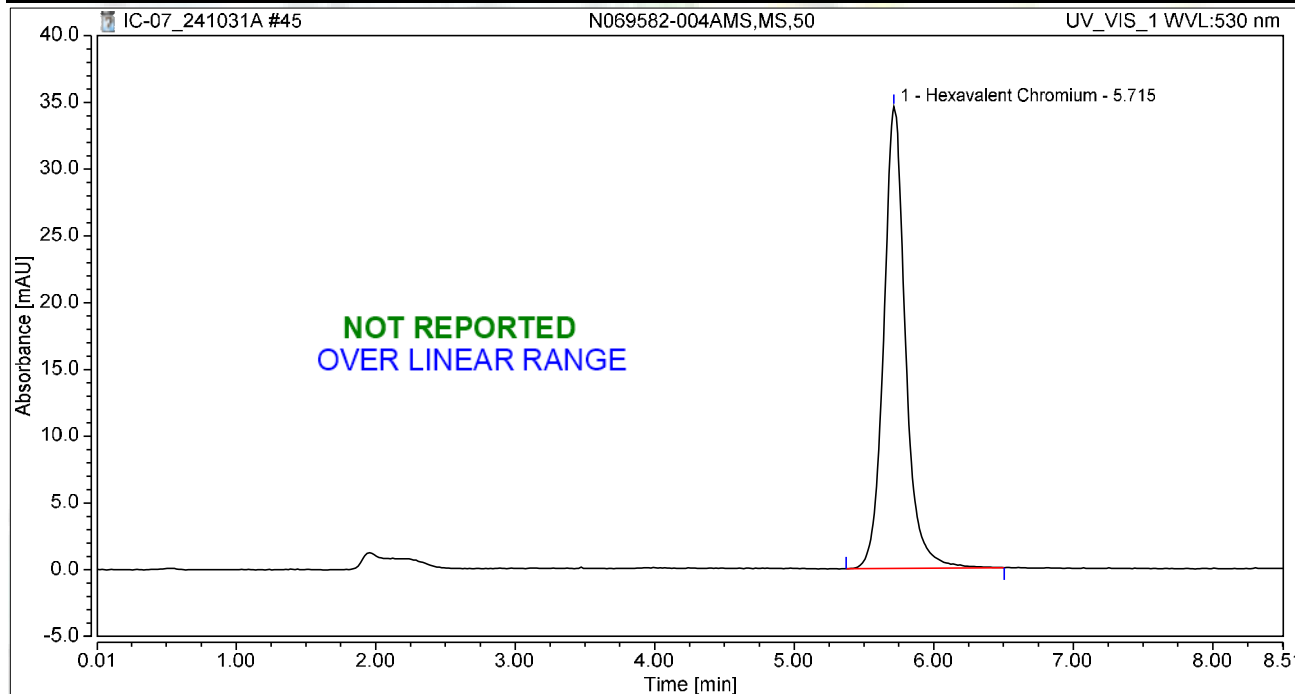
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	3.600	19.616	100.00	100.00	12.6882
Total:			3.600	19.616	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-004AMS,MS,50	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 16:35	Sample Weight:	1.0000

Chromatogram



Integration Results

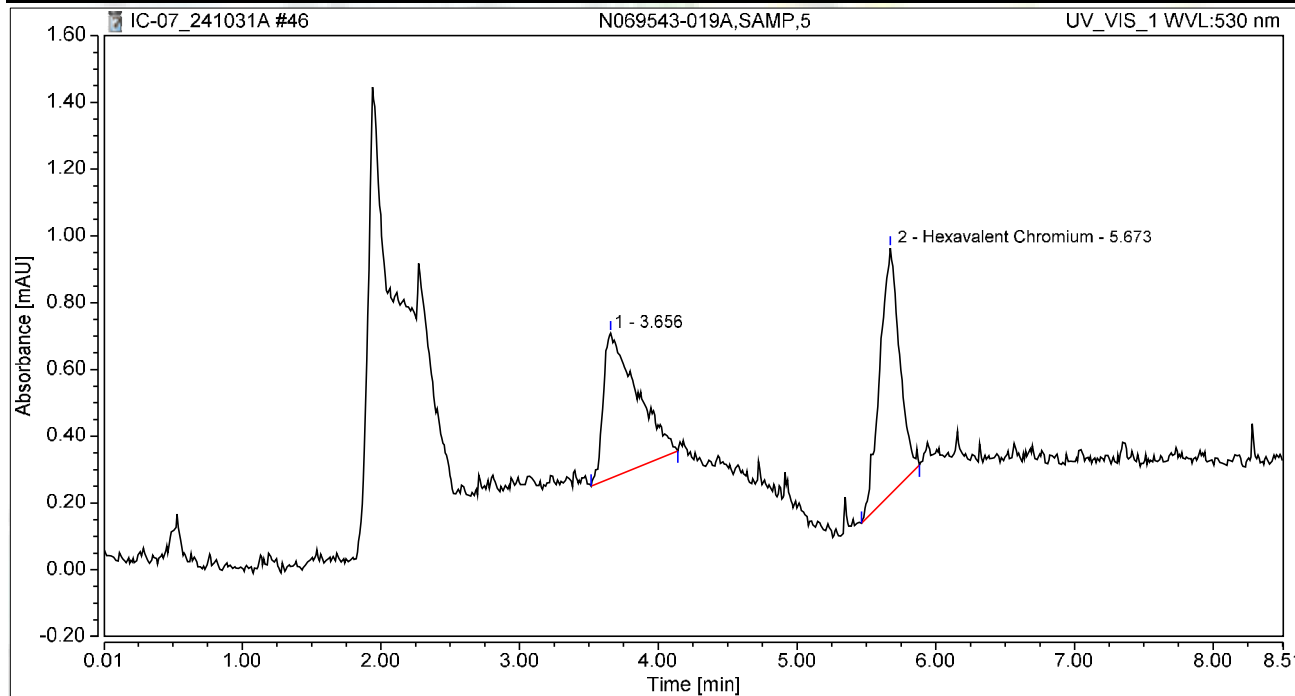
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	6.229	34.594	100.00	100.00	21.9538
Total:			6.229	34.594	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-019A,SAMP,5	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 16:44	Sample Weight:	1.0000

Chromatogram



Integration Results

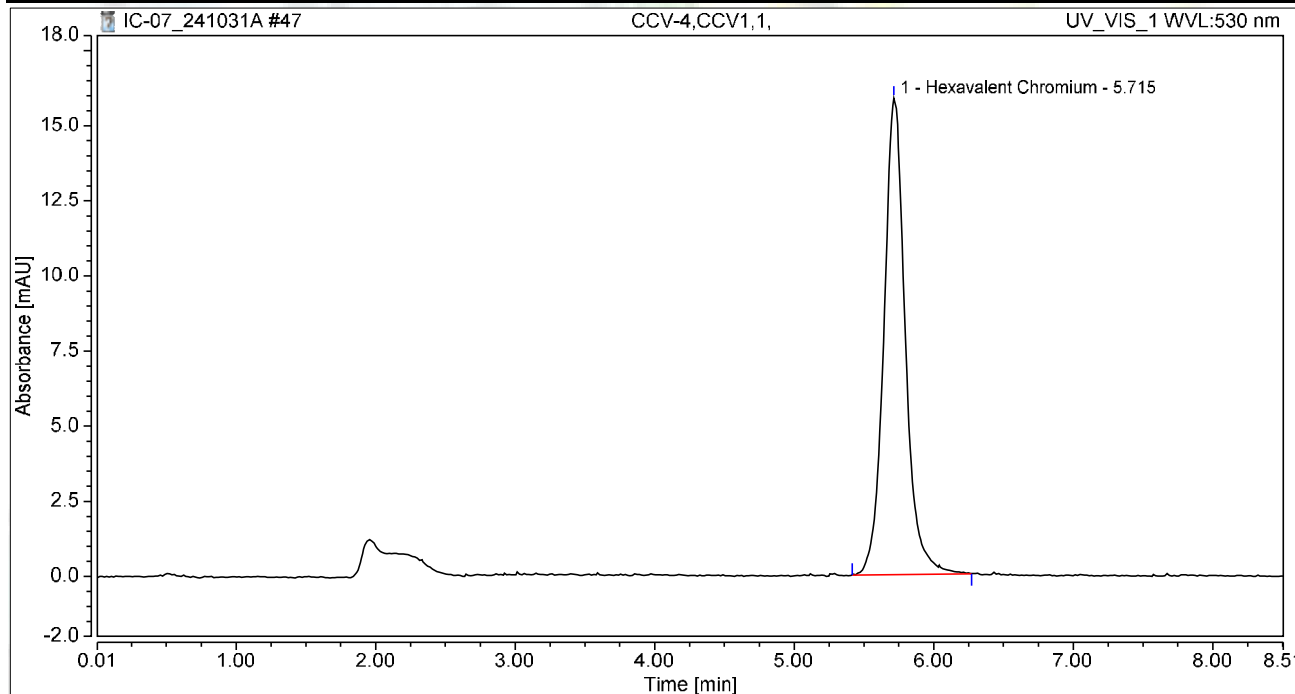
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.656	0.121	0.435	49.93	37.08	n.a.
2	Hexavalent Chromium	5.673	0.122	0.738	50.07	62.92	0.4291
Total:			0.243	1.172	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-4,CCV1,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 16:54	Sample Weight:	1.0000

Chromatogram



Integration Results

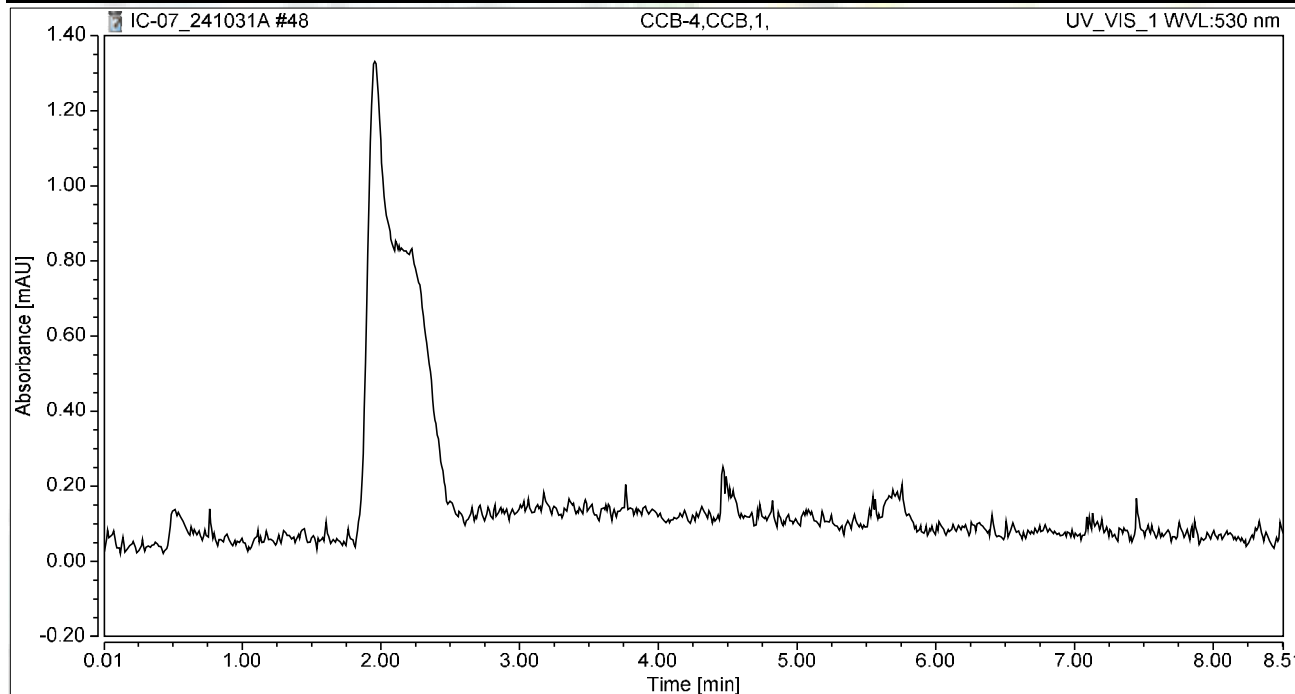
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.828	15.858	100.00	100.00	9.9671
Total:			2.828	15.858	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-4,CCB,1,	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 17:03	Sample Weight:	1.0000

Chromatogram



Integration Results

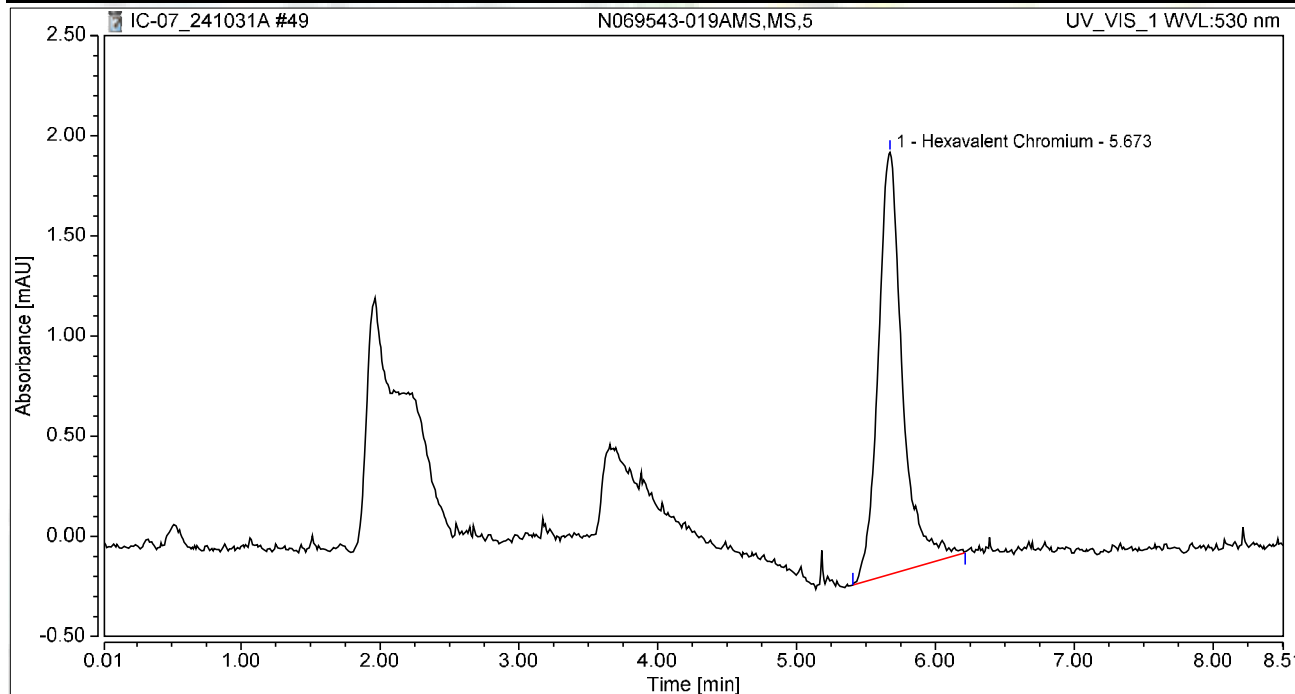
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-019AMS,MS,5	Run Time (min):	8.49
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 17:13	Sample Weight:	1.0000

Chromatogram



Integration Results

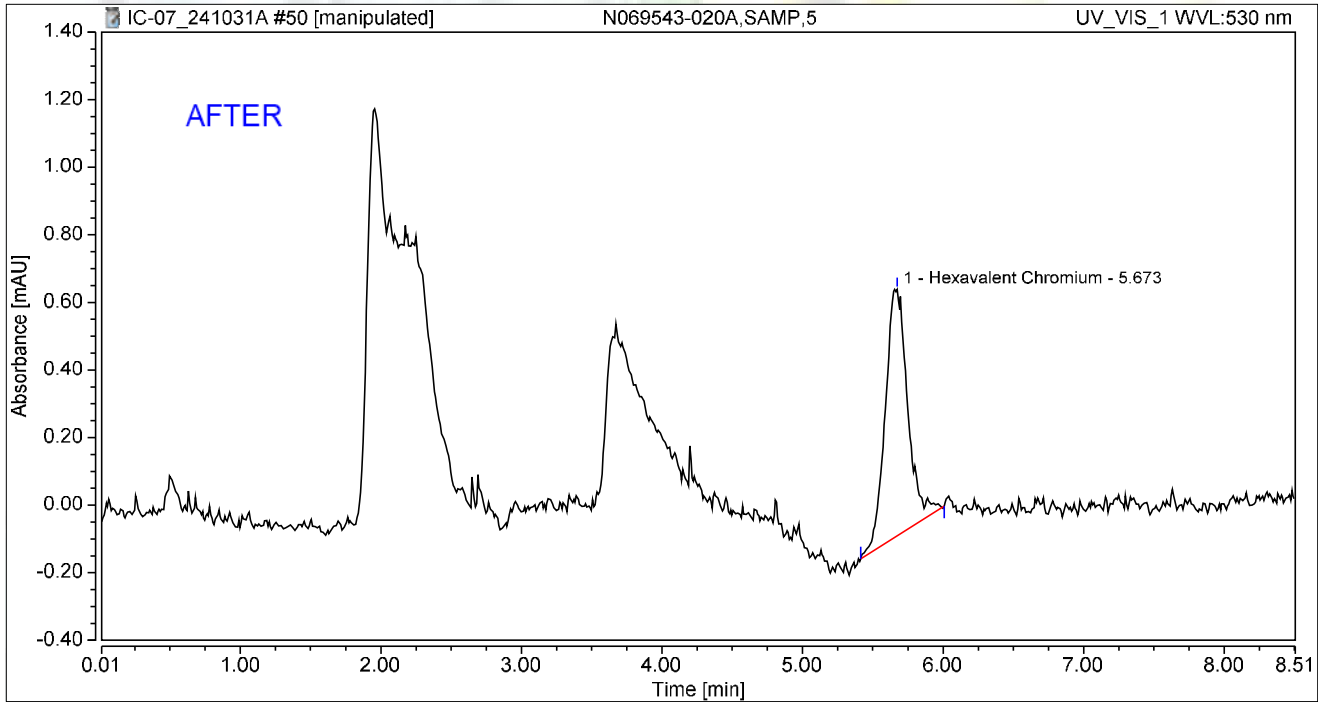
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.426	2.106	100.00	100.00	1.5005
Total:			0.426	2.106	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-020A,SAMP,5	Run Time (min):	8.49
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 17:22	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.135	0.729	100.00	100.00	0.4773
Total:			0.135	0.729	100.00	100.00	

Reviewed by:

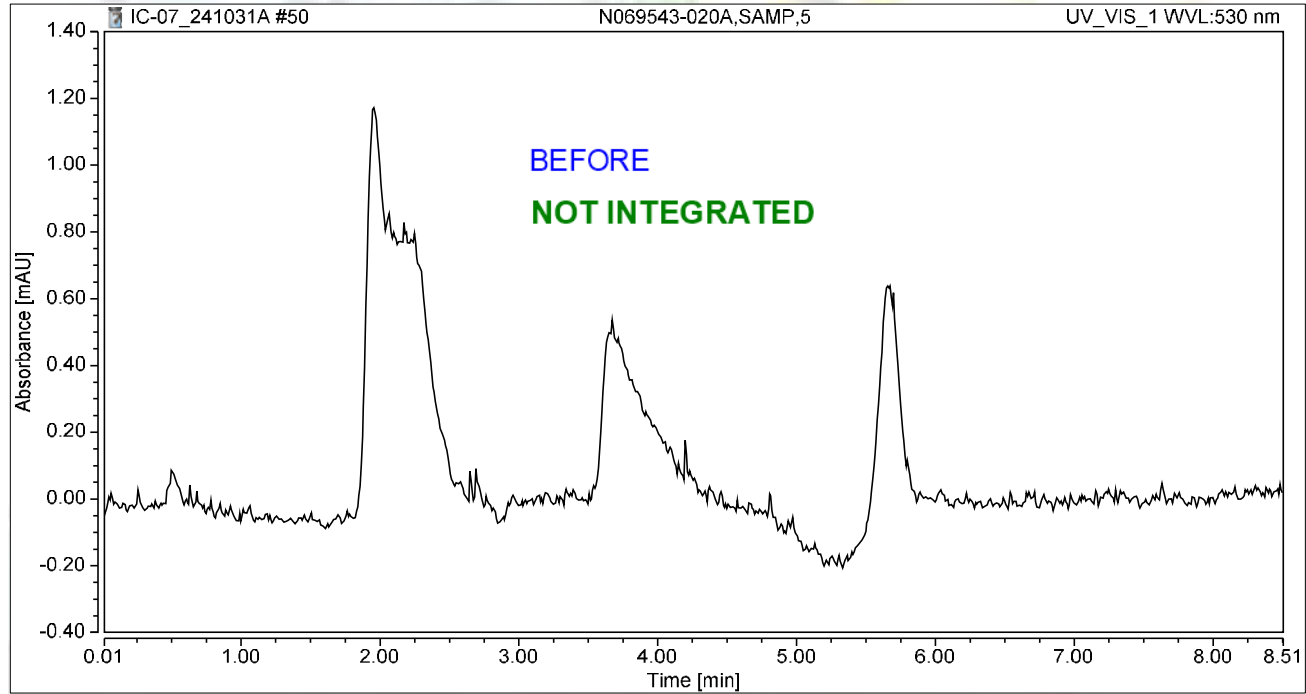
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Chromatogram and Results

Injection Details

Injection Name:	N069543-020A,SAMP,5	Run Time (min):	8.49
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 17:22	Sample Weight:	1.0000

Chromatogram



Integration Results

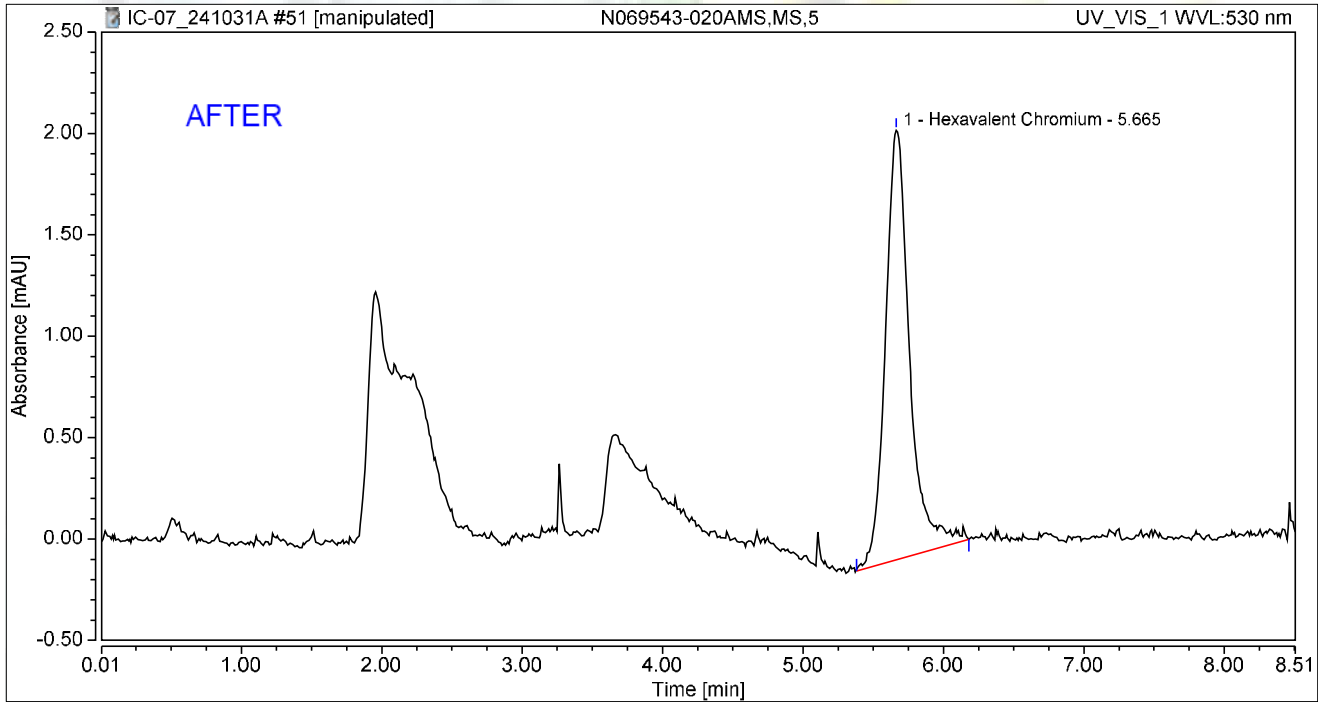
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-020AMS,MS,5	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 17:32	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.422	2.117	100.00	100.00	1.4870
Total:			0.422	2.117	100.00	100.00	

Reviewed by:

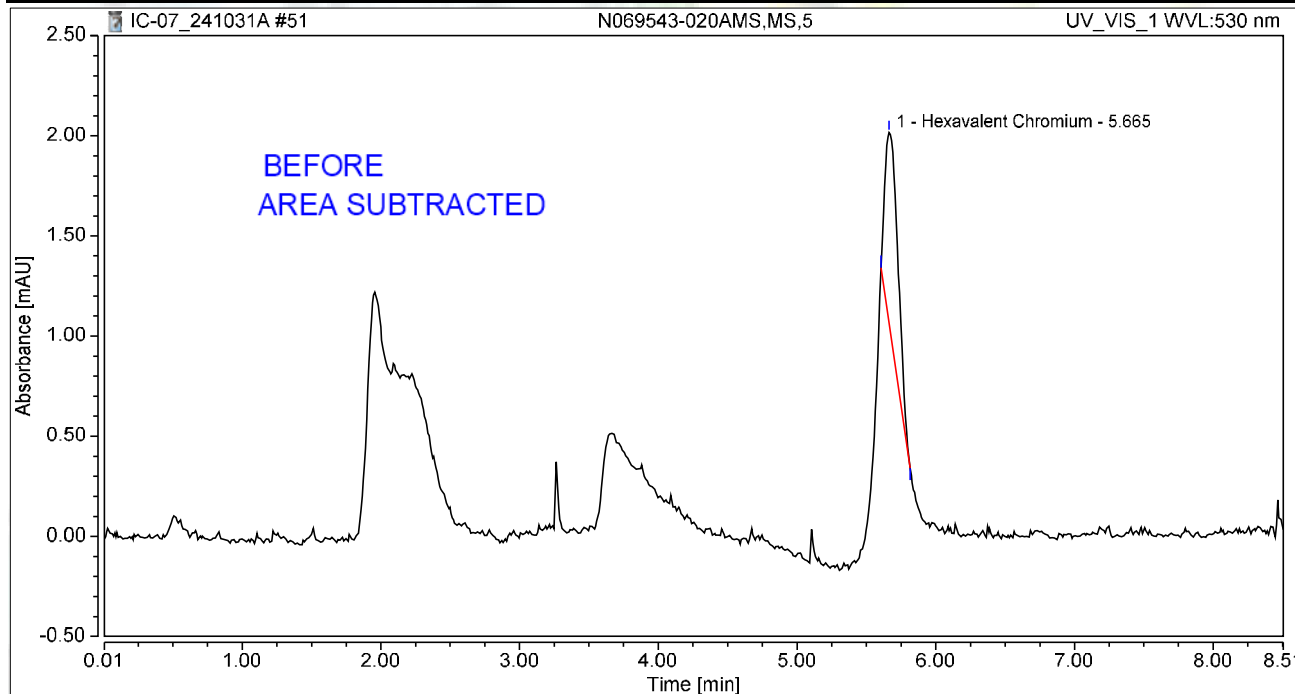
d/Rocha 11/13/2024

Chromatogram and Results

Injection Details

Injection Name:	N069543-020AMS,MS,5	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 17:32	Sample Weight:	1.0000

Chromatogram



Integration Results

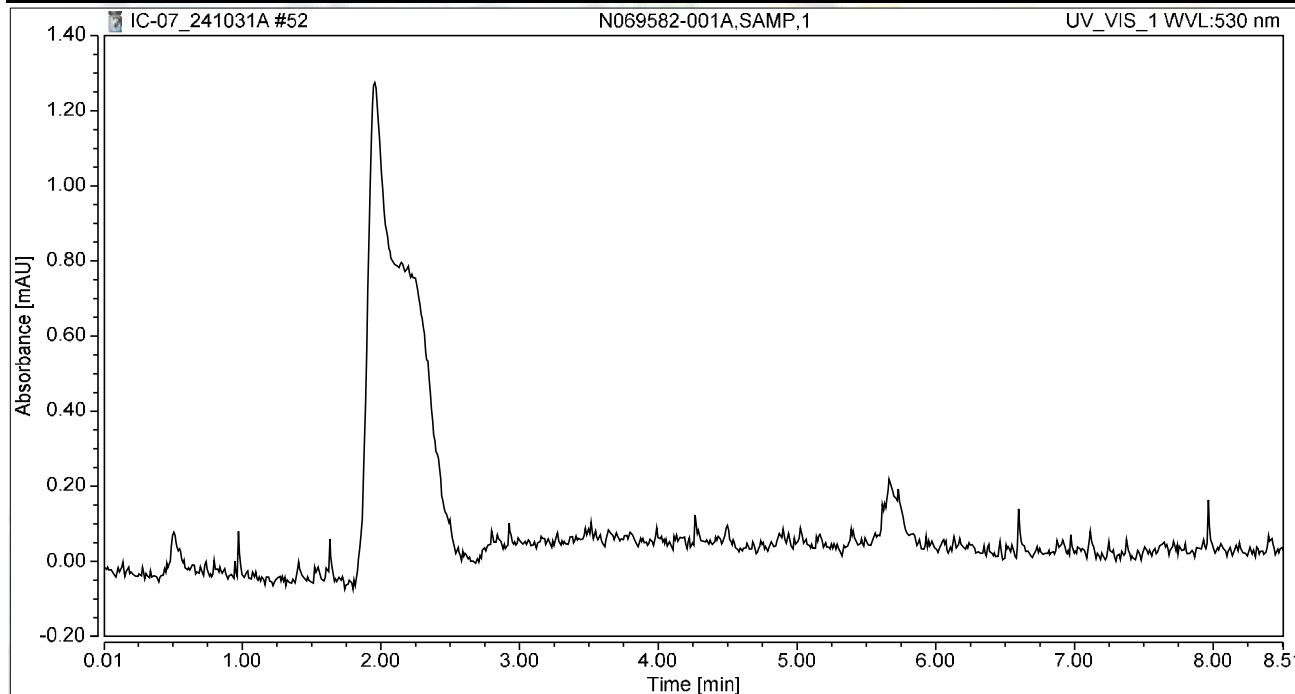
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.108	0.954	100.00	100.00	0.3809
Total:			0.108	0.954	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 17:41	Sample Weight:	1.0000

Chromatogram



Integration Results

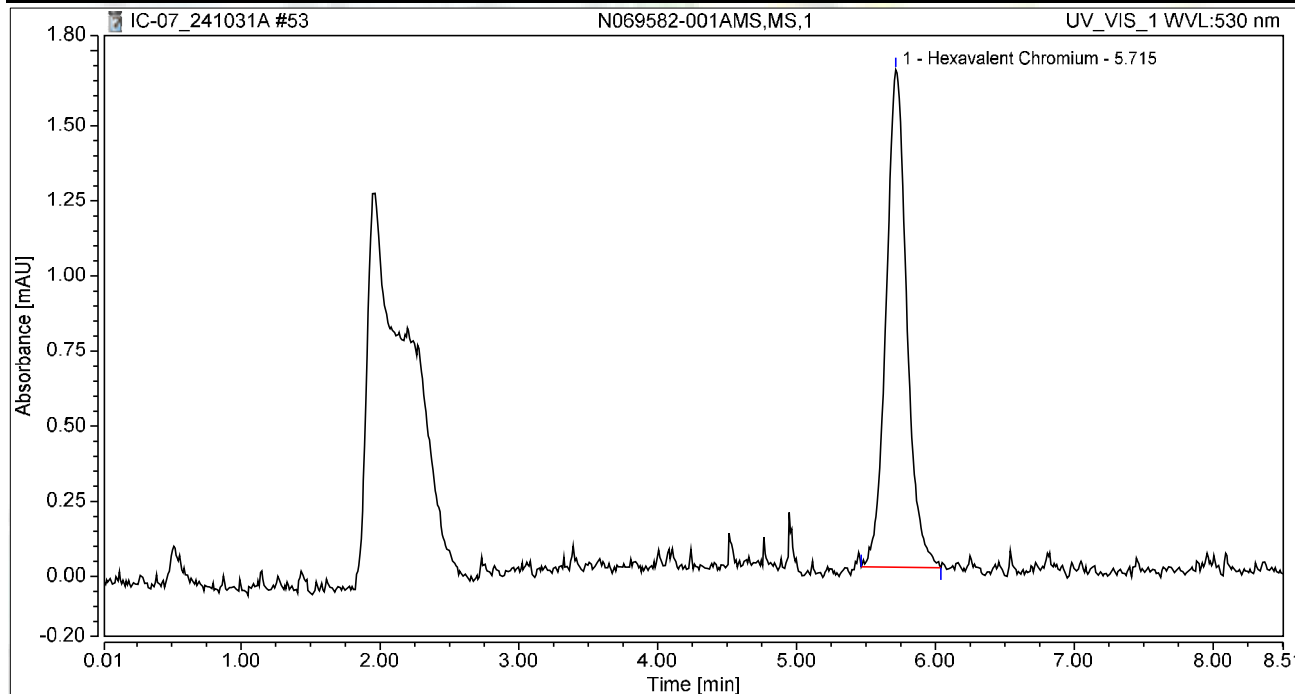
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-001AMS,MS,1	Run Time (min):	8.49
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 17:51	Sample Weight:	1.0000

Chromatogram



Integration Results

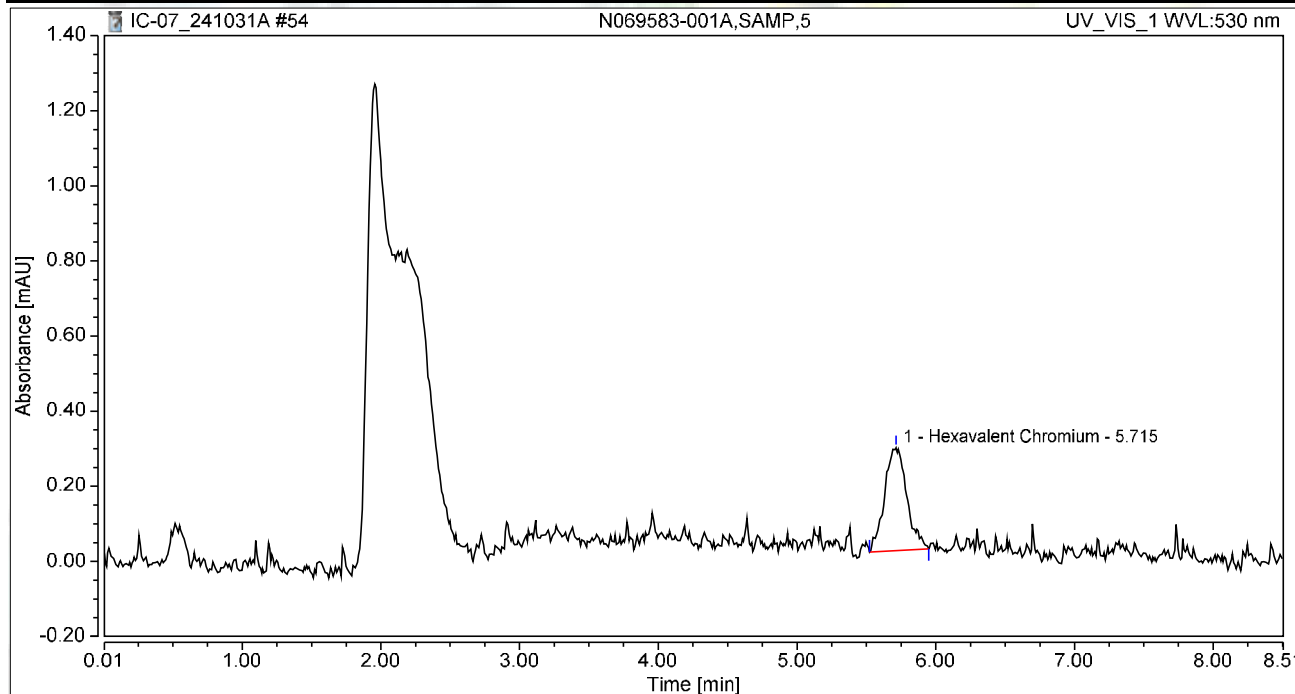
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.286	1.656	100.00	100.00	1.0097
Total:			0.286	1.656	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-001A,SAMP,5	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 18:00	Sample Weight:	1.0000

Chromatogram



Integration Results

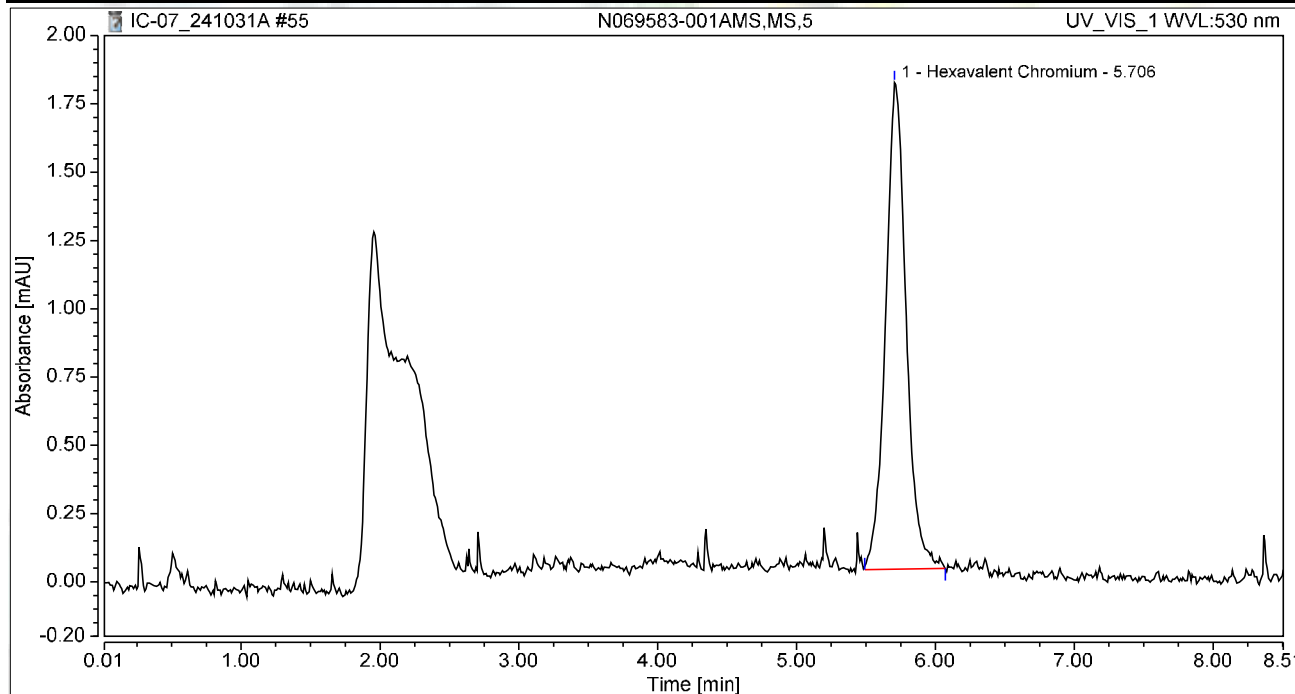
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.051	0.274	100.00	100.00	0.1791
Total:			0.051	0.274	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-001AMS,MS,5	Run Time (min):	8.49
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 18:10	Sample Weight:	1.0000

Chromatogram



Integration Results

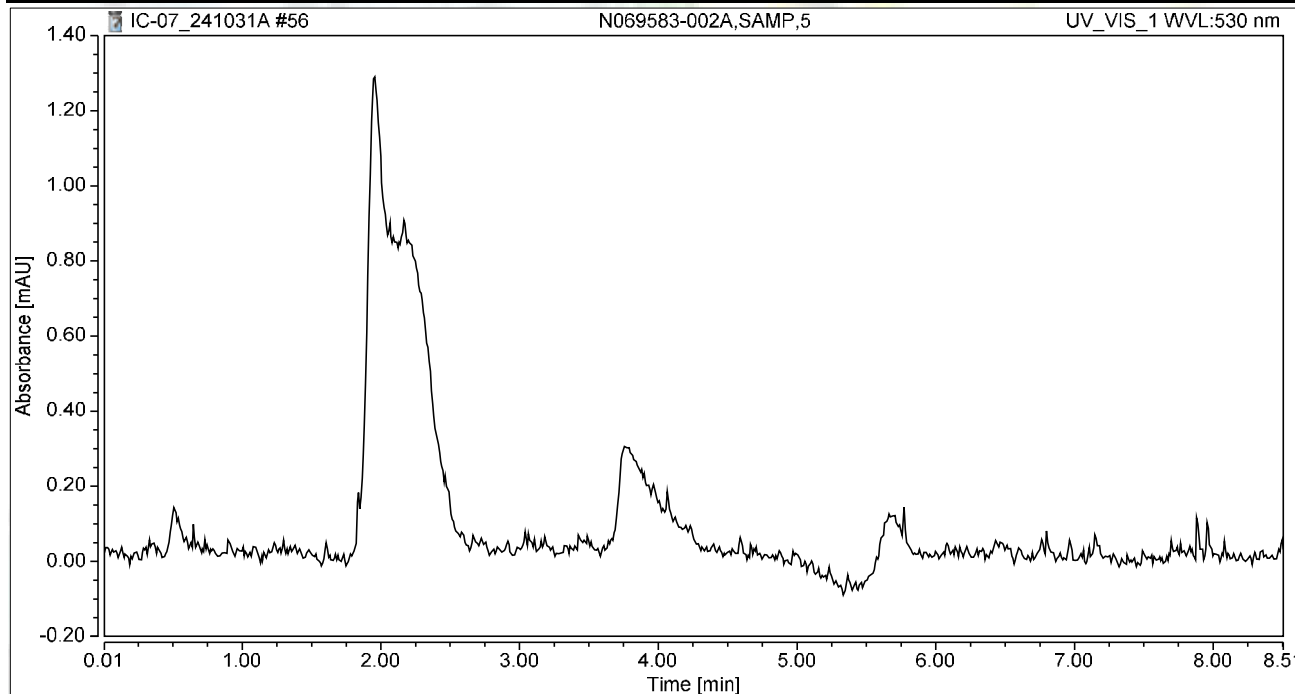
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	0.307	1.781	100.00	100.00	1.0825
Total:			0.307	1.781	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-002A,SAMP,5	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 18:19	Sample Weight:	1.0000

Chromatogram



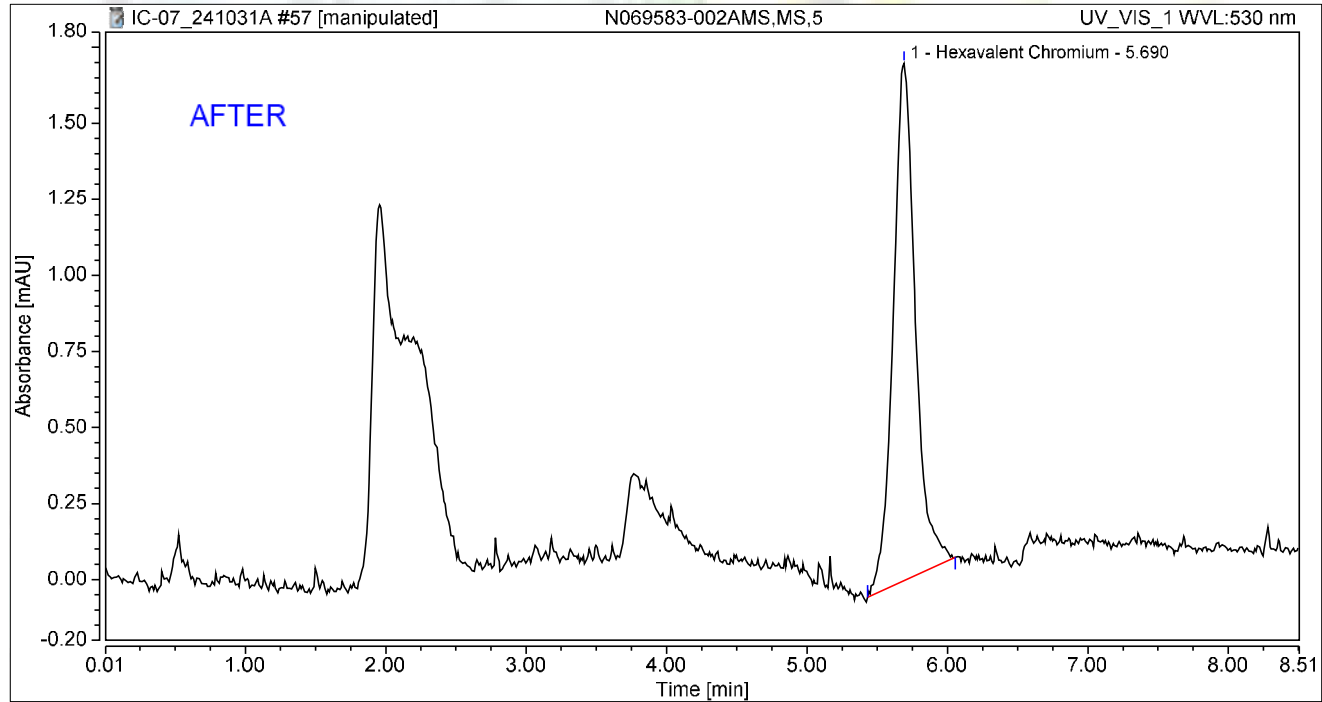
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069583-002AMS,MS,5	Run Time (min): 8.50
Vial Number:	16	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	31/Oct/24 18:28	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.311	1.701	100.00	100.00	1.0961
Total:			0.311	1.701	100.00	100.00	

Reviewed by:

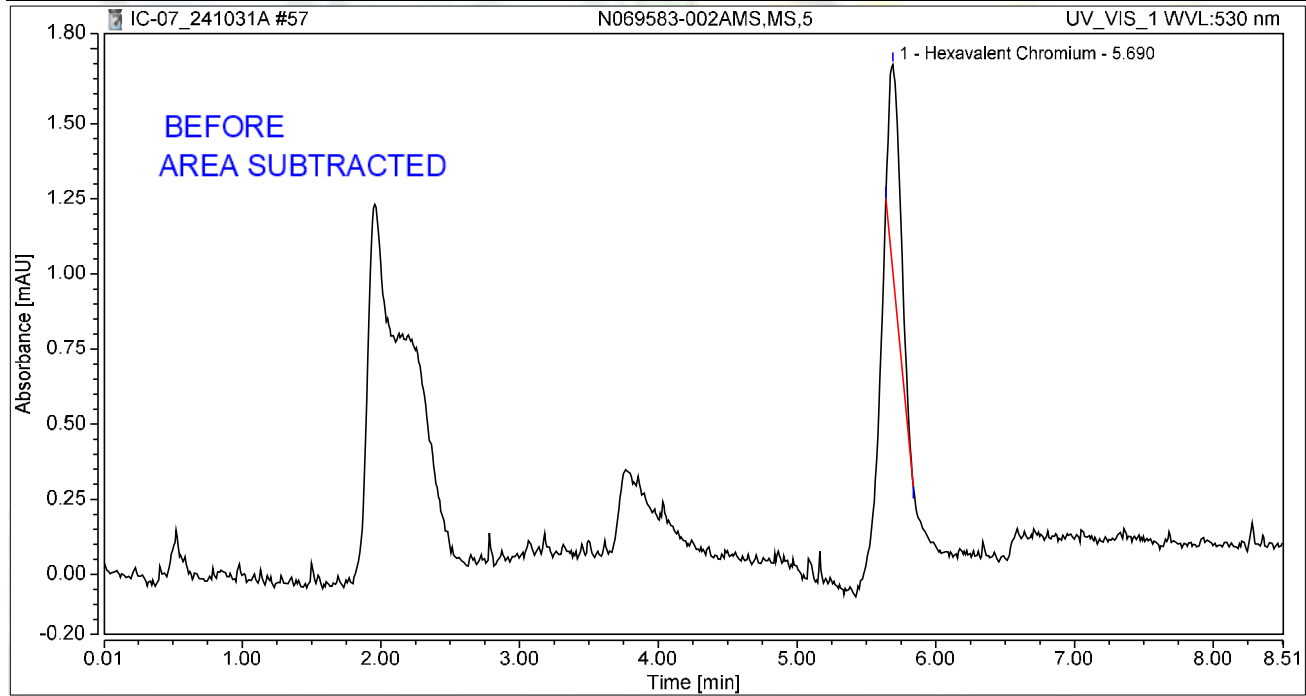
d/Rocha 11/13/2024

Chromatogram and Results

Injection Details

Injection Name:	N069583-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 18:28	Sample Weight:	1.0000

Chromatogram



Integration Results

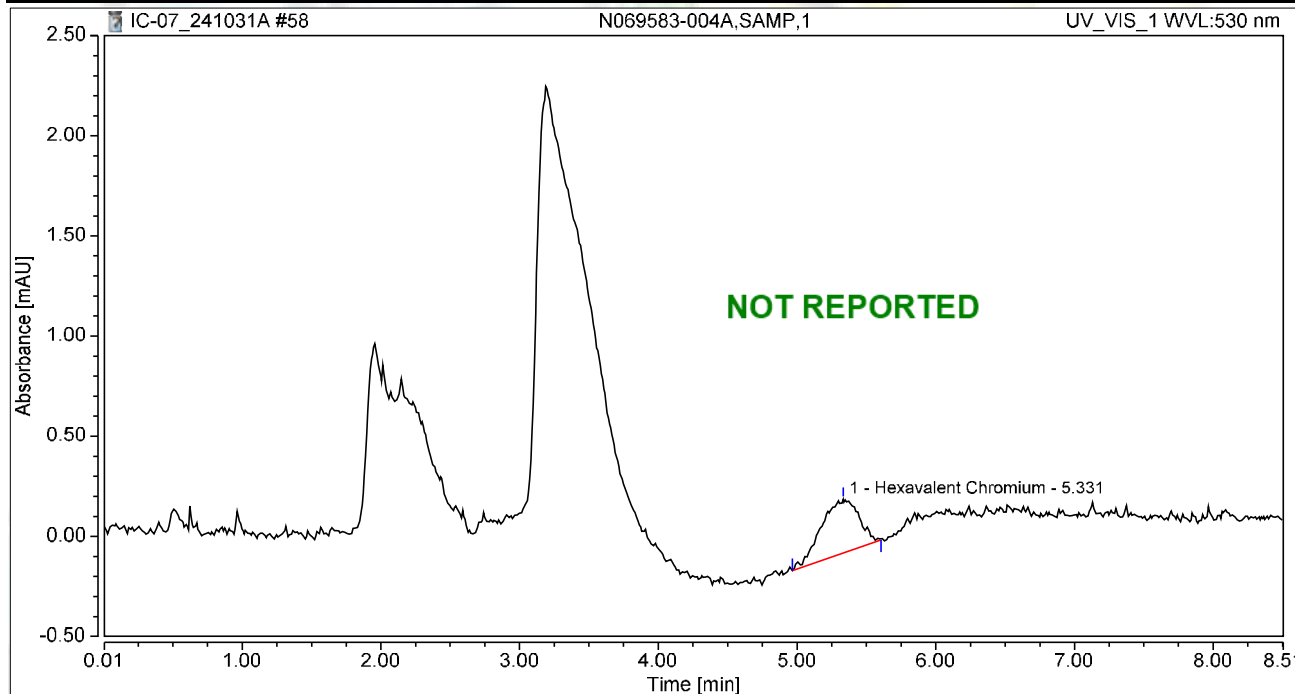
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.070	0.685	100.00	100.00	0.2457
Total:			0.070	0.685	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-004A,SAMP,1	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 18:38	Sample Weight:	1.0000

Chromatogram



Integration Results

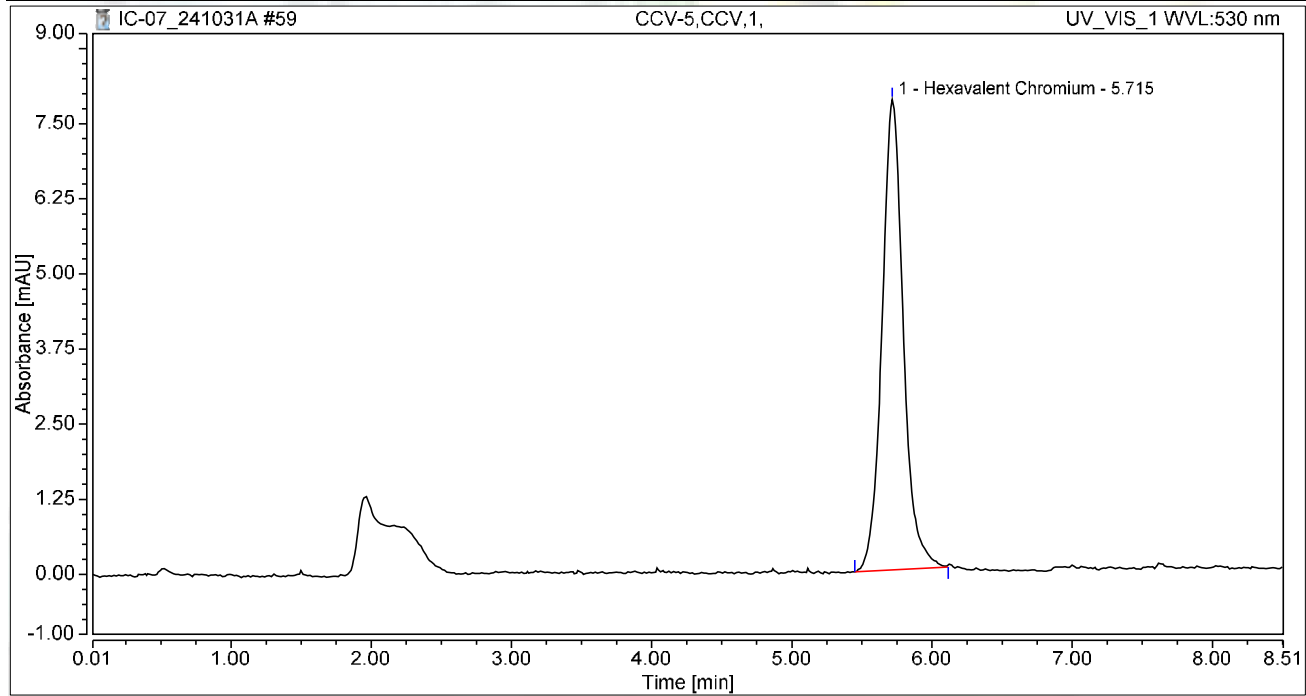
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.331	0.085	0.268	100.00	100.00	0.2987
Total:			0.085	0.268	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.49
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 18:47	Sample Weight:	1.0000

Chromatogram



Integration Results

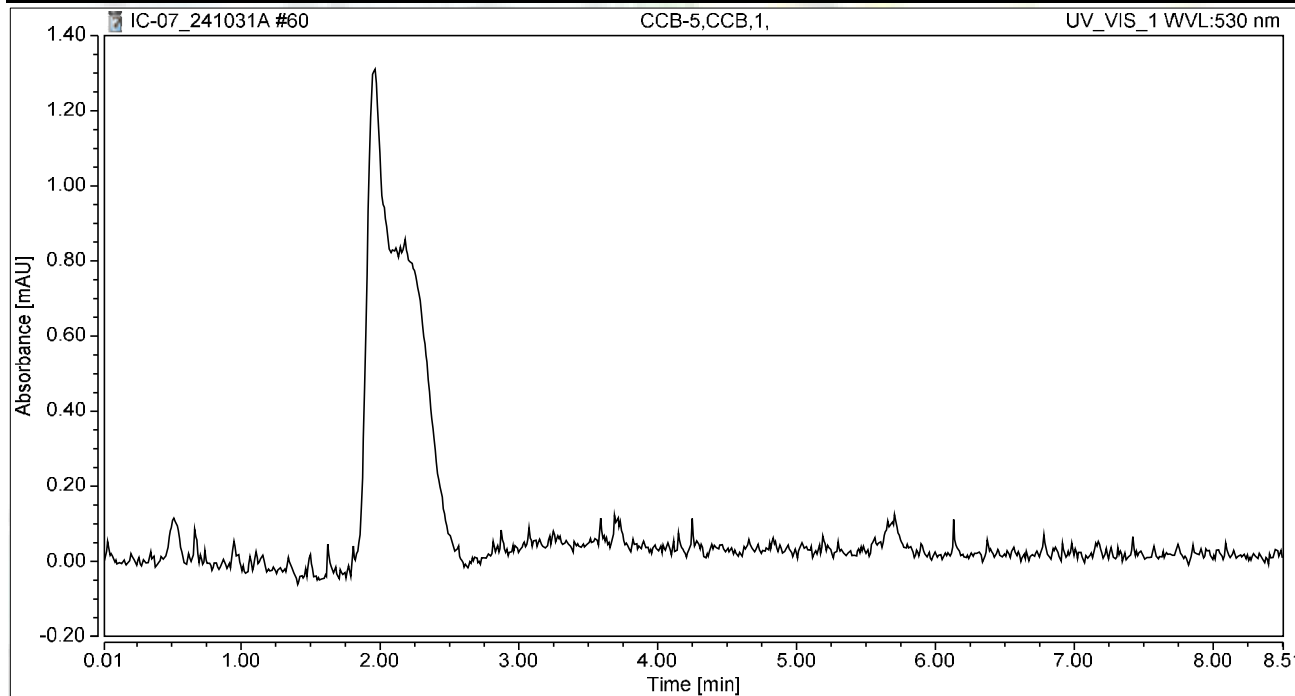
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	1.377	7.831	100.00	100.00	4.8512
Total:			1.377	7.831	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.49
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 18:57	Sample Weight:	1.0000

Chromatogram



Integration Results

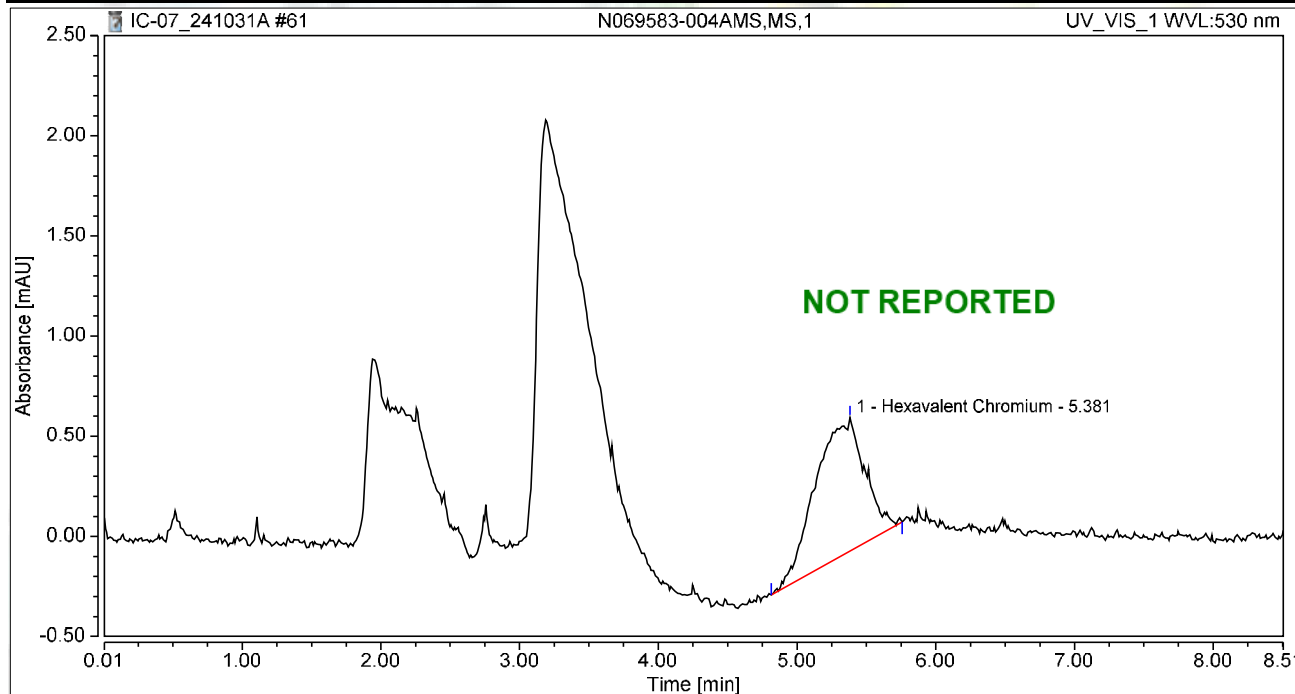
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-004AMS,MS,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 19:06	Sample Weight:	1.0000

Chromatogram



Integration Results

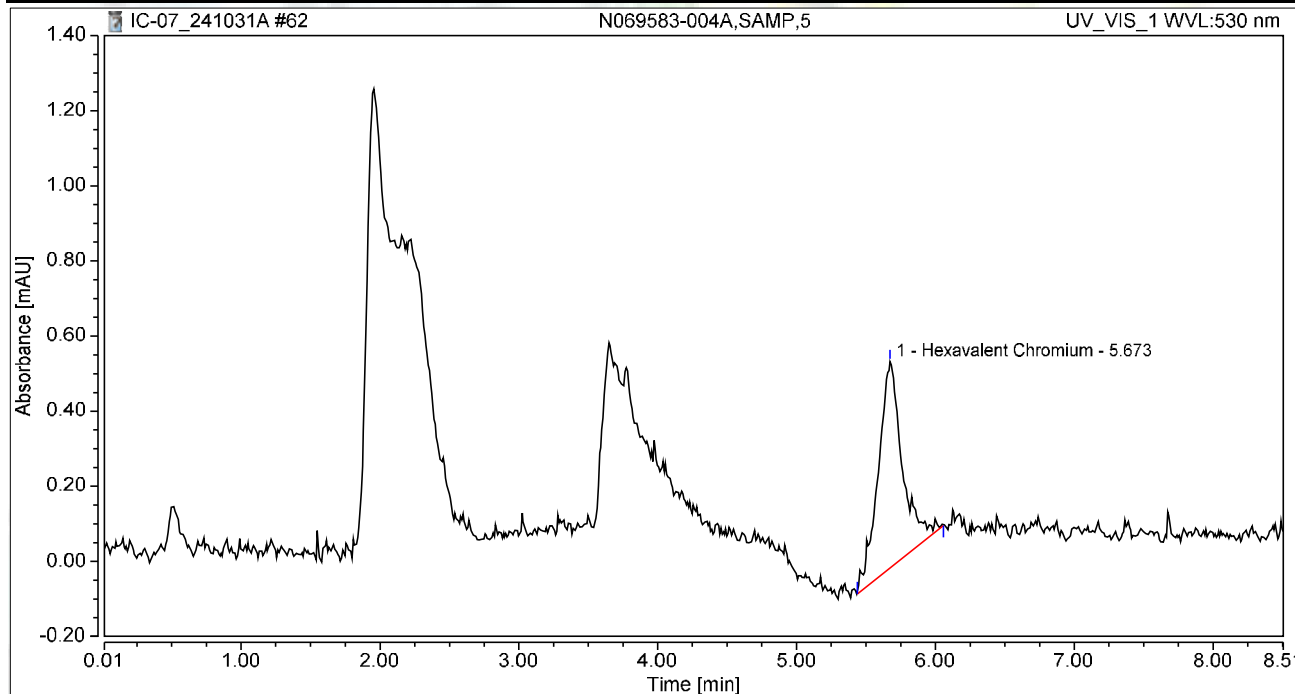
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.381	0.282	0.667	100.00	100.00	0.9952
Total:			0.282	0.667	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-004A,SAMP,5	Run Time (min):	8.49
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 19:16	Sample Weight:	1.0000

Chromatogram



Integration Results

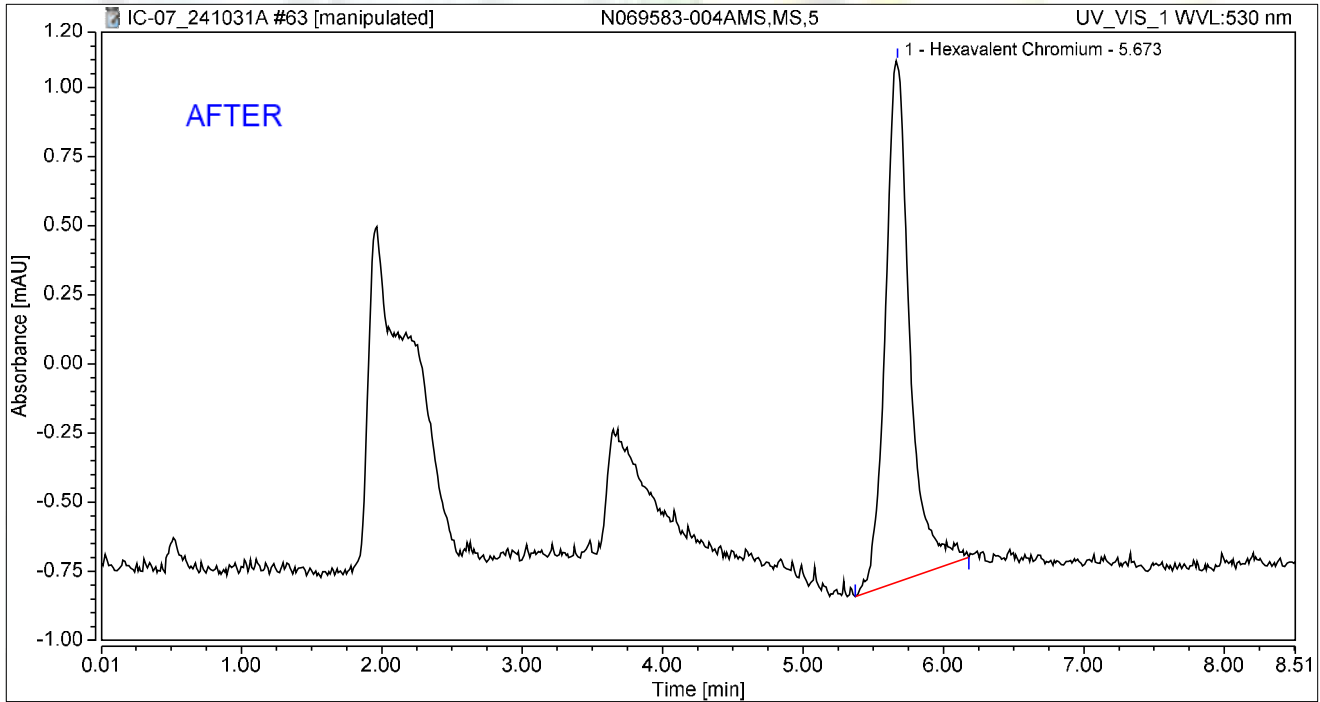
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.111	0.550	100.00	100.00	0.3915
Total:			0.111	0.550	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-004AMS,MS,5	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 19:25	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.382	1.887	100.00	100.00	1.3469
Total:			0.382	1.887	100.00	100.00	

Reviewed by:

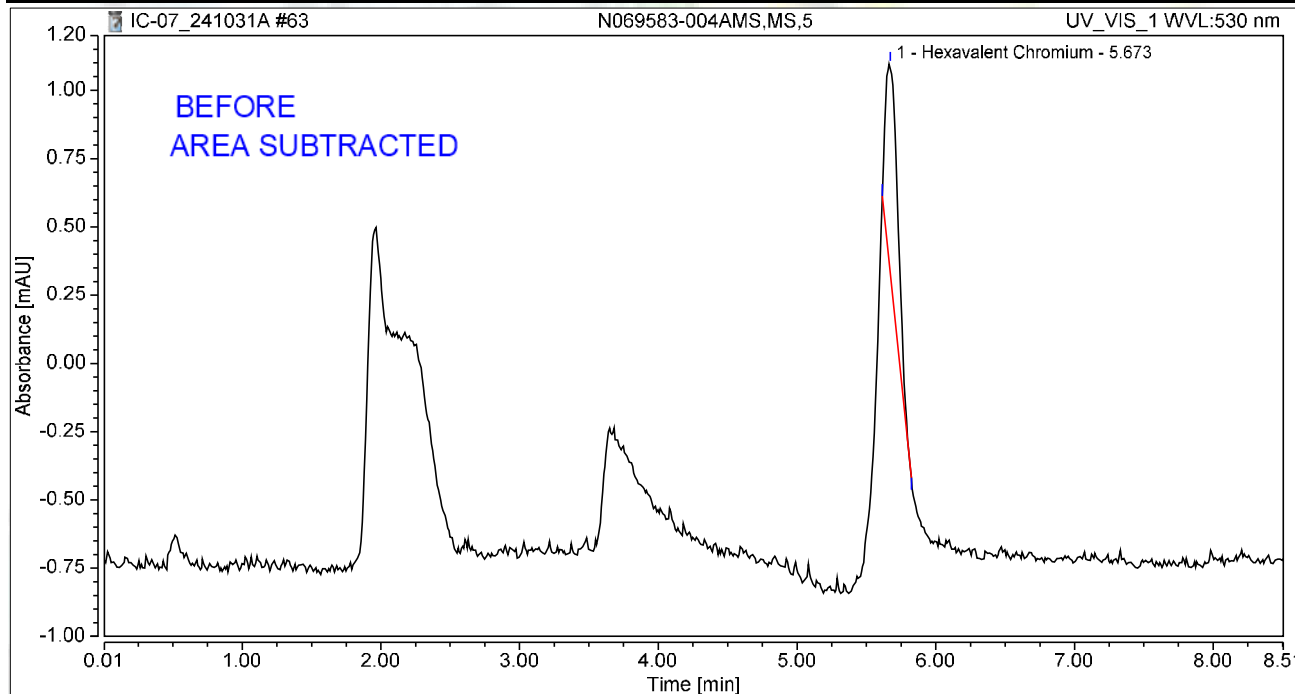
d/Rocha 11/13/2024

Chromatogram and Results

Injection Details

Injection Name:	N069583-004AMS,MS,5	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 19:25	Sample Weight:	1.0000

Chromatogram



Integration Results

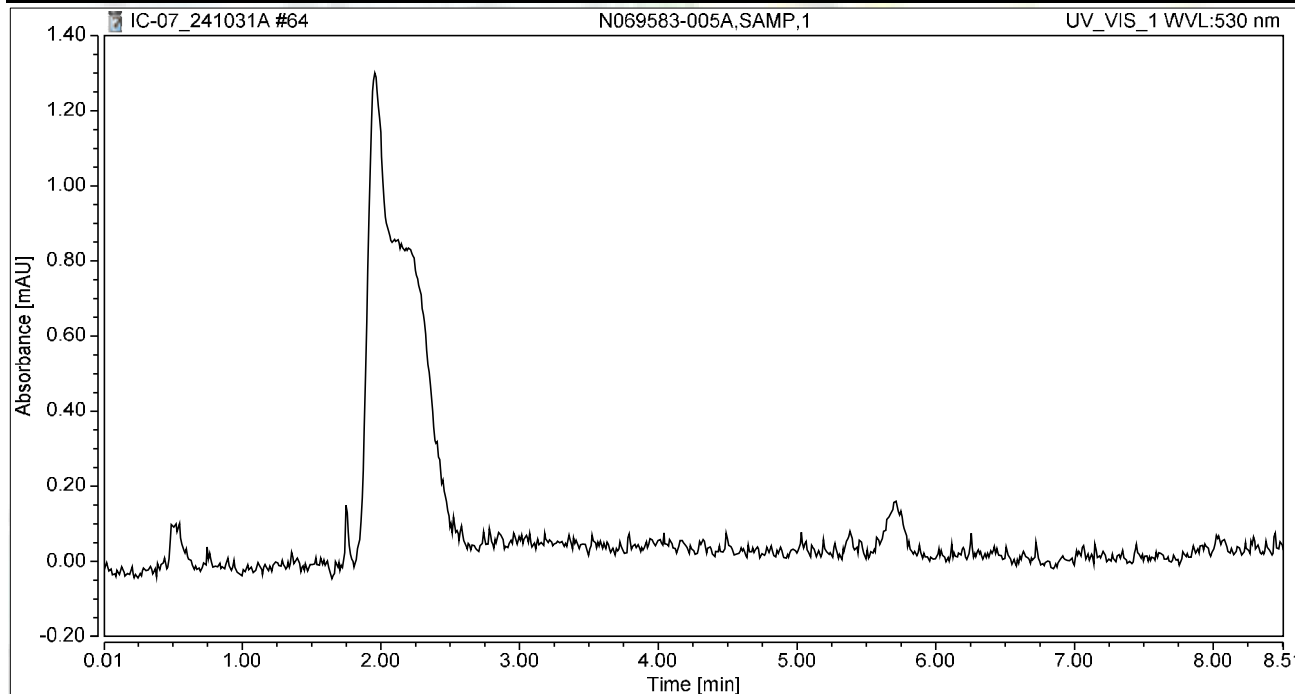
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.080	0.774	100.00	100.00	0.2828
Total:			0.080	0.774	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 19:35	Sample Weight:	1.0000

Chromatogram



Integration Results

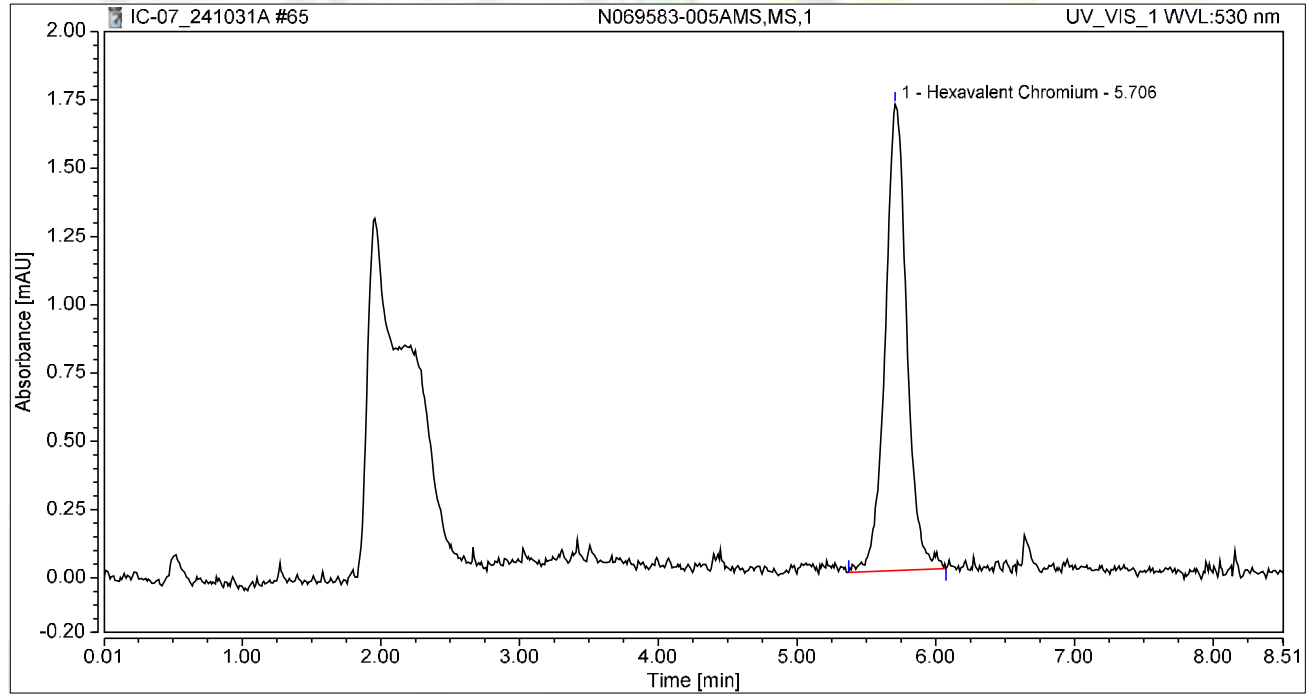
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-005AMS,MS,1	Run Time (min):	8.50
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 19:44	Sample Weight:	1.0000

Chromatogram



Integration Results

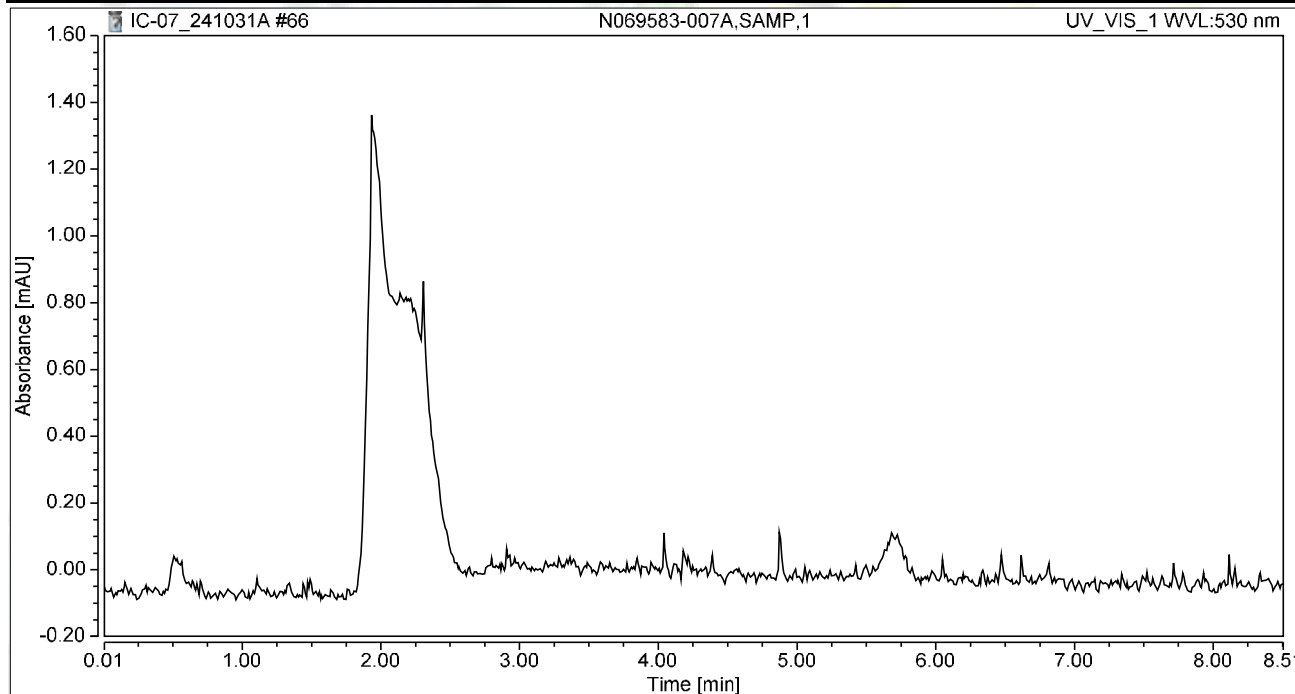
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	0.308	1.708	100.00	100.00	1.0852
Total:			0.308	1.708	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-007A,SAMP,1	Run Time (min):	8.50
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 19:54	Sample Weight:	1.0000

Chromatogram



Integration Results

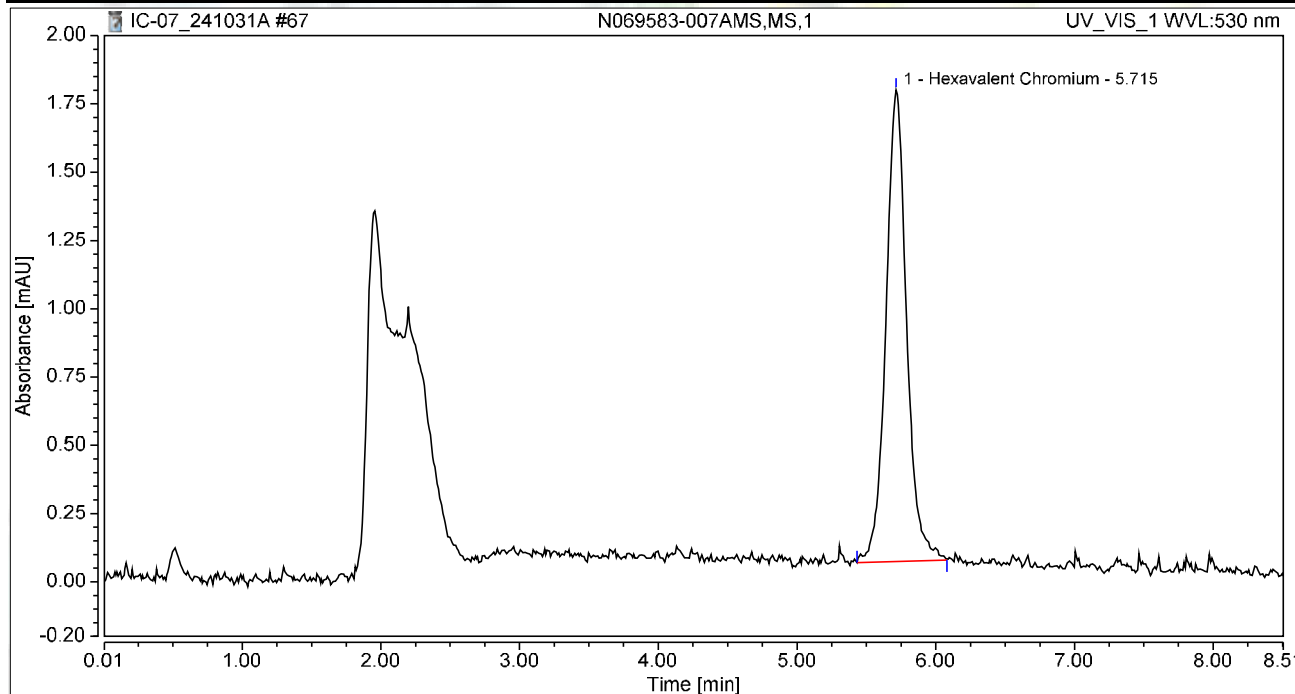
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-007AMS,MS,1	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 20:03	Sample Weight:	1.0000

Chromatogram



Integration Results

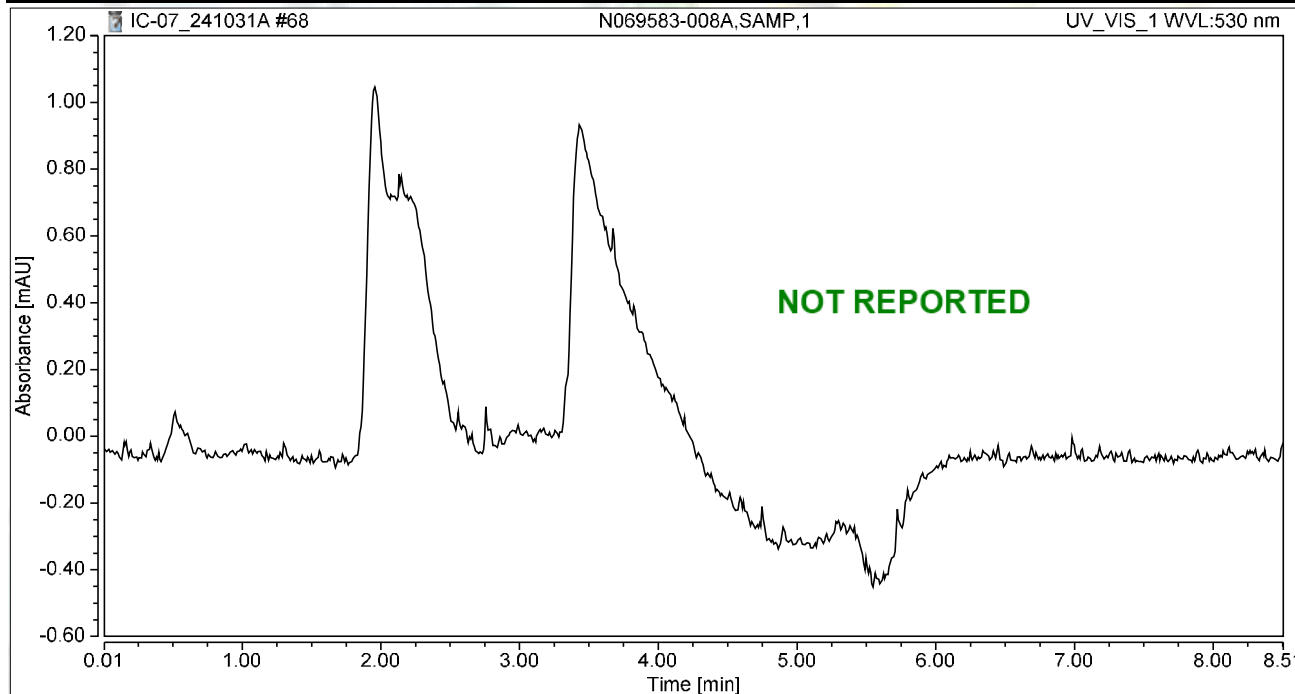
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.299	1.727	100.00	100.00	1.0532
Total:			0.299	1.727	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-008A,SAMP,1	Run Time (min):	8.50
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 20:12	Sample Weight:	1.0000

Chromatogram



Integration Results

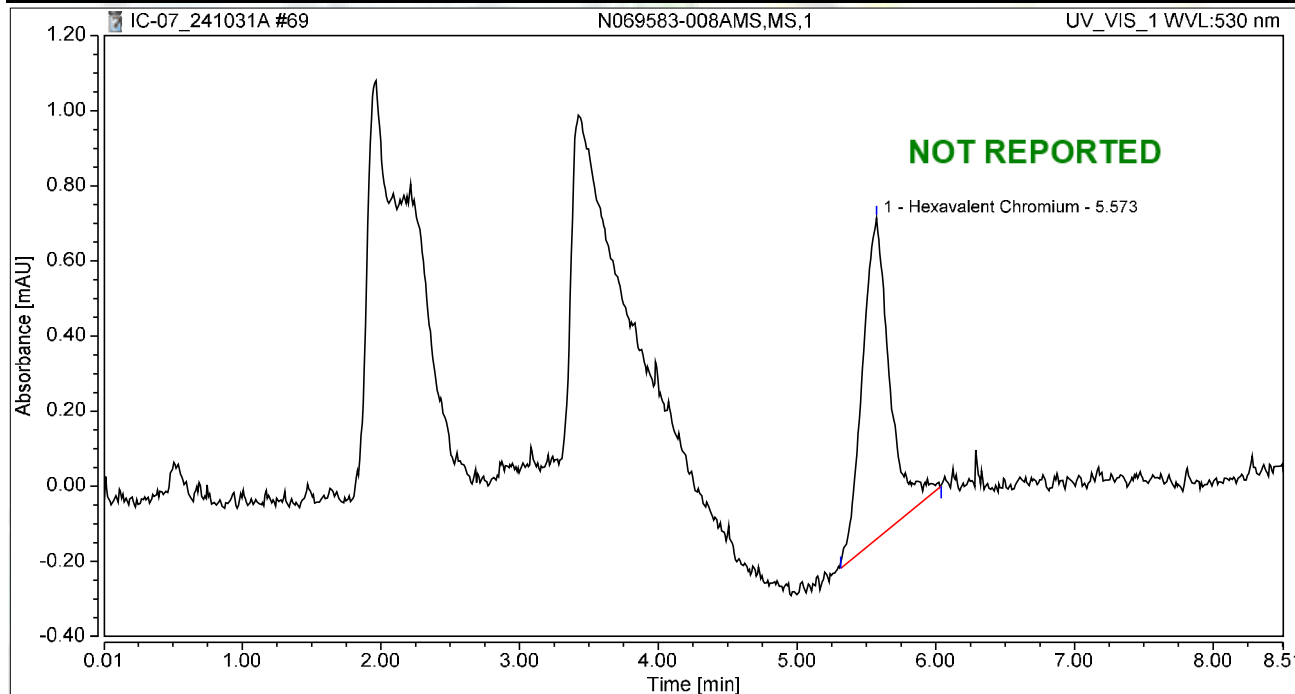
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-008AMS,MS,1	Run Time (min):	8.50
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 20:22	Sample Weight:	1.0000

Chromatogram



Integration Results

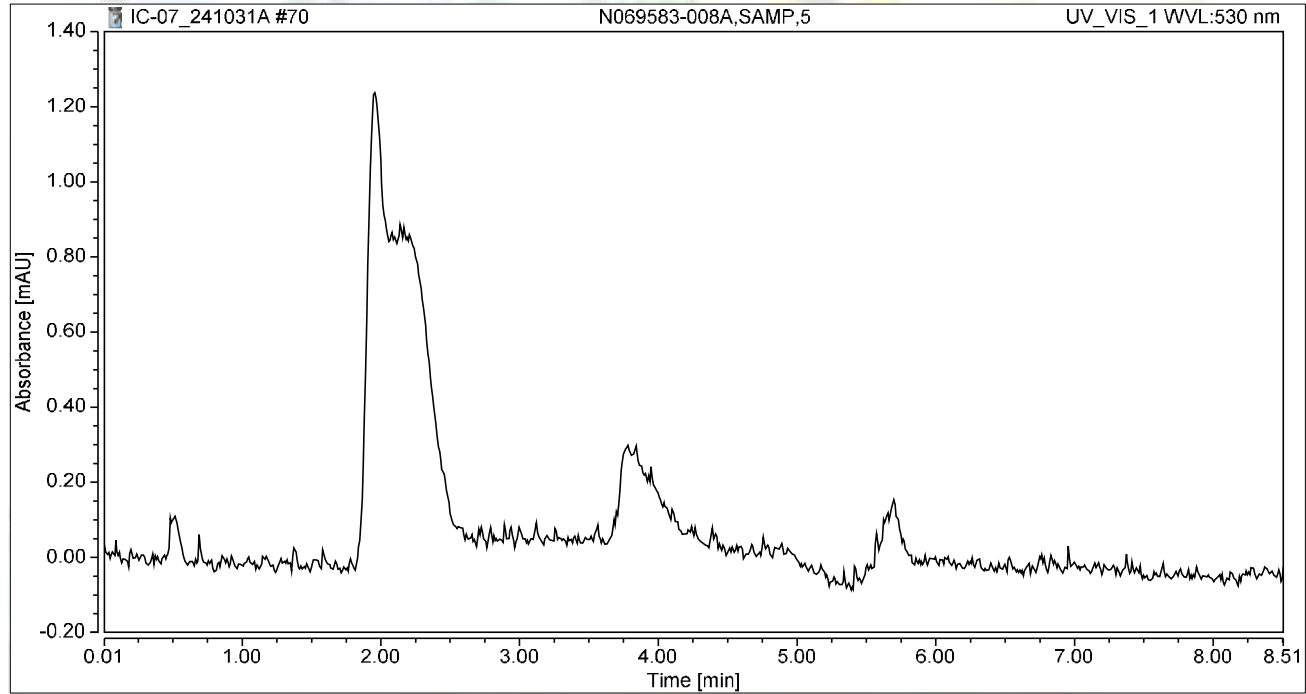
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.573	0.196	0.856	100.00	100.00	0.6894
Total:			0.196	0.856	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-008A,SAMP,5	Run Time (min):	8.50
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 20:31	Sample Weight:	1.0000

Chromatogram



Integration Results

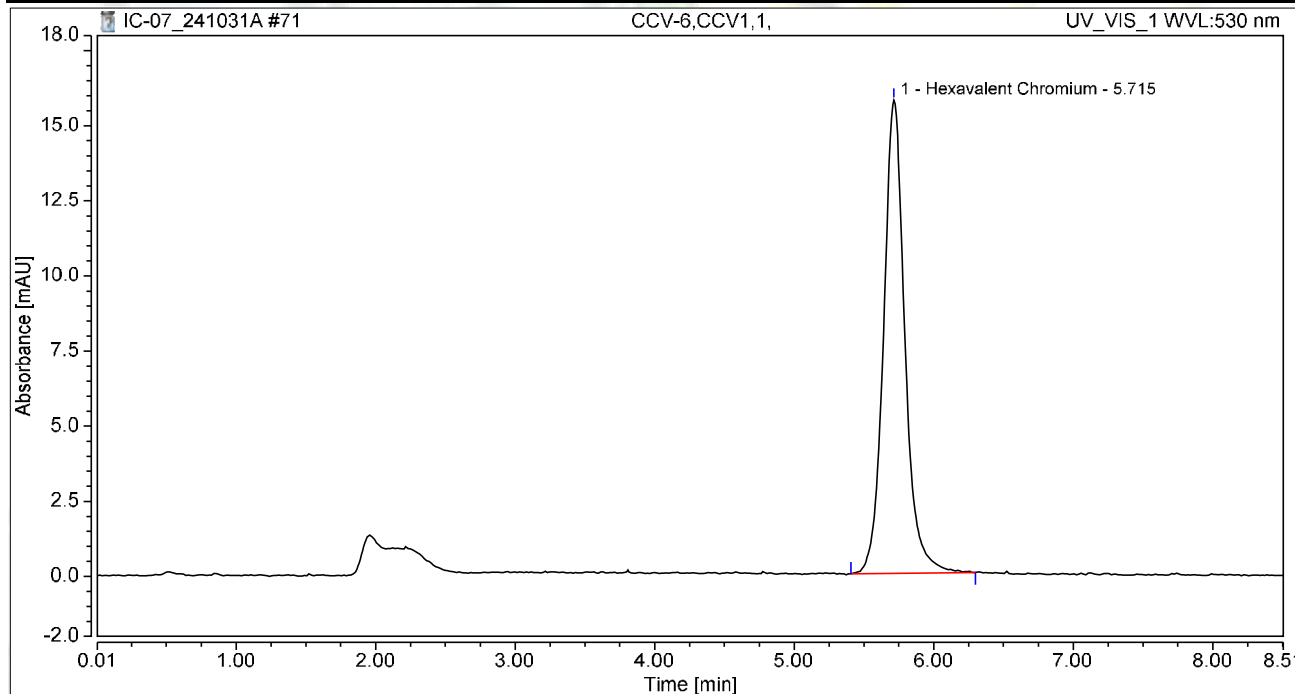
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-6,CCV1,1,	Run Time (min):	8.50
Vial Number:	30	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 20:41	Sample Weight:	1.0000

Chromatogram



Integration Results

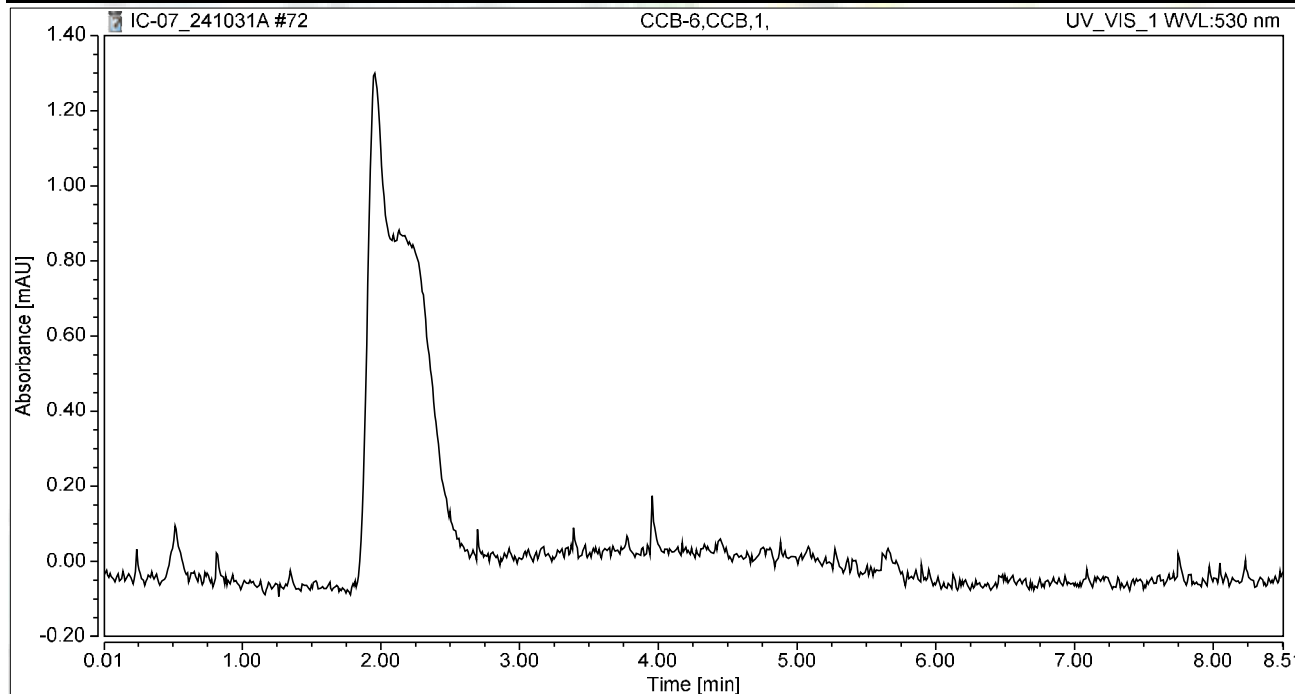
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.783	15.751	100.00	100.00	9.8090
Total:			2.783	15.751	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-6,CCB,1,	Run Time (min):	8.50
Vial Number:	31	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 20:50	Sample Weight:	1.0000

Chromatogram



Integration Results

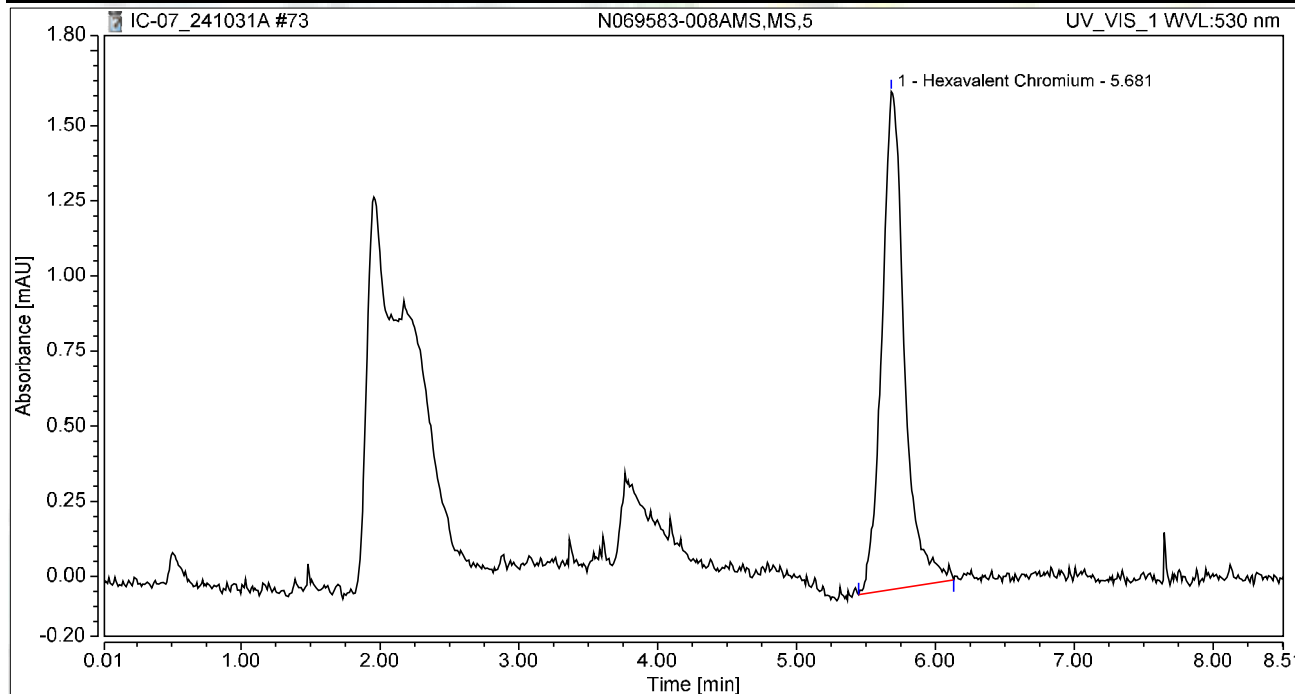
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-008AMS,MS,5	Run Time (min):	8.49
Vial Number:	32	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 21:00	Sample Weight:	1.0000

Chromatogram



Integration Results

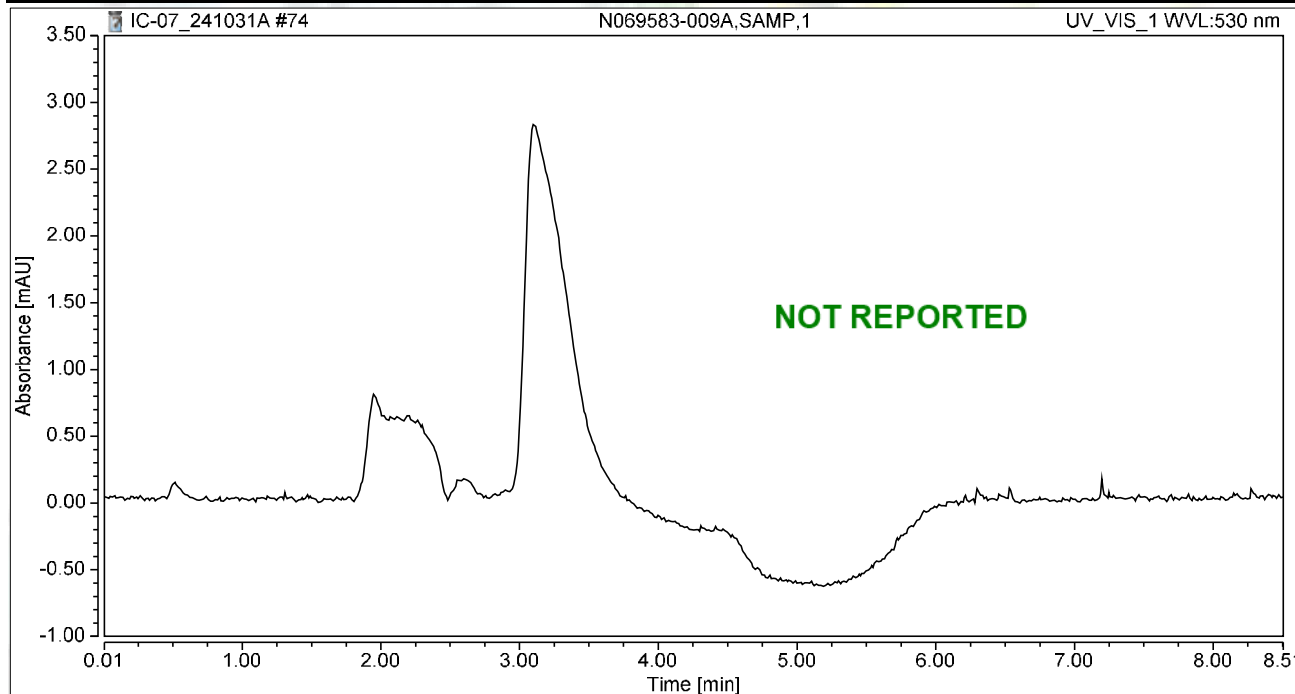
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.311	1.658	100.00	100.00	1.0976
Total:			0.311	1.658	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-009A,SAMP,1	Run Time (min):	8.50
Vial Number:	33	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 21:09	Sample Weight:	1.0000

Chromatogram



Integration Results

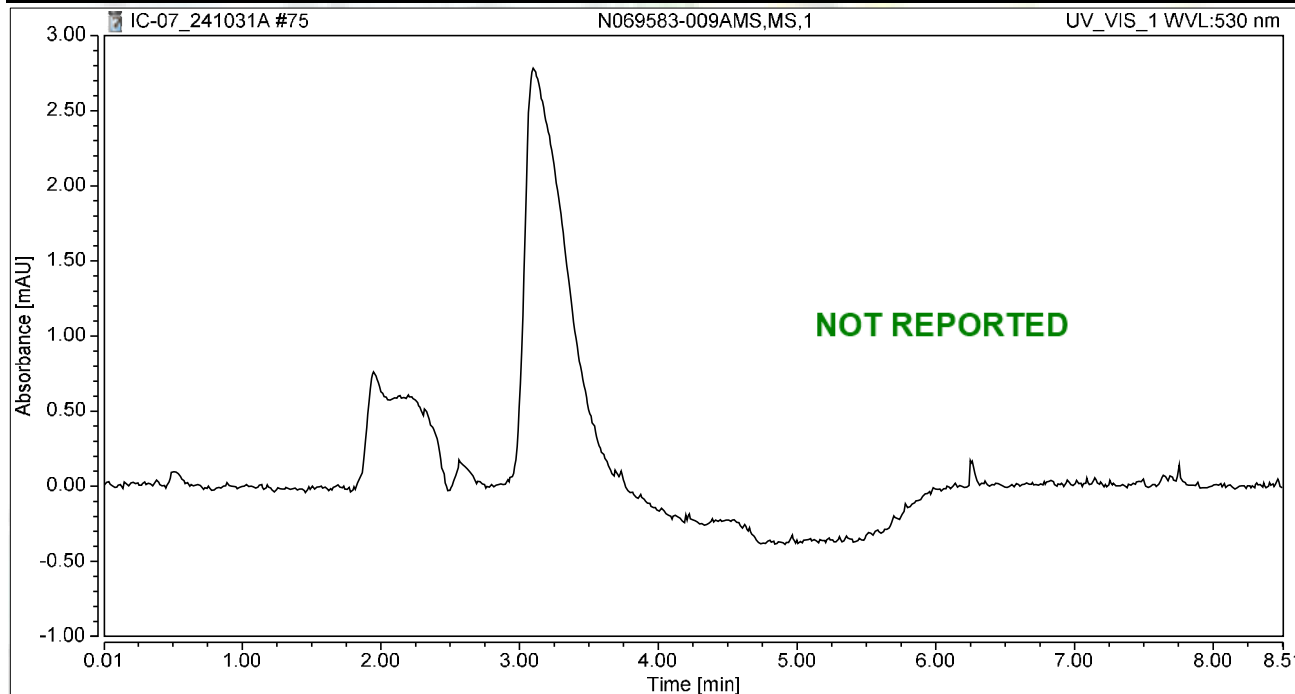
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-009AMS,MS,1	Run Time (min):	8.50
Vial Number:	34	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 21:19	Sample Weight:	1.0000

Chromatogram



Integration Results

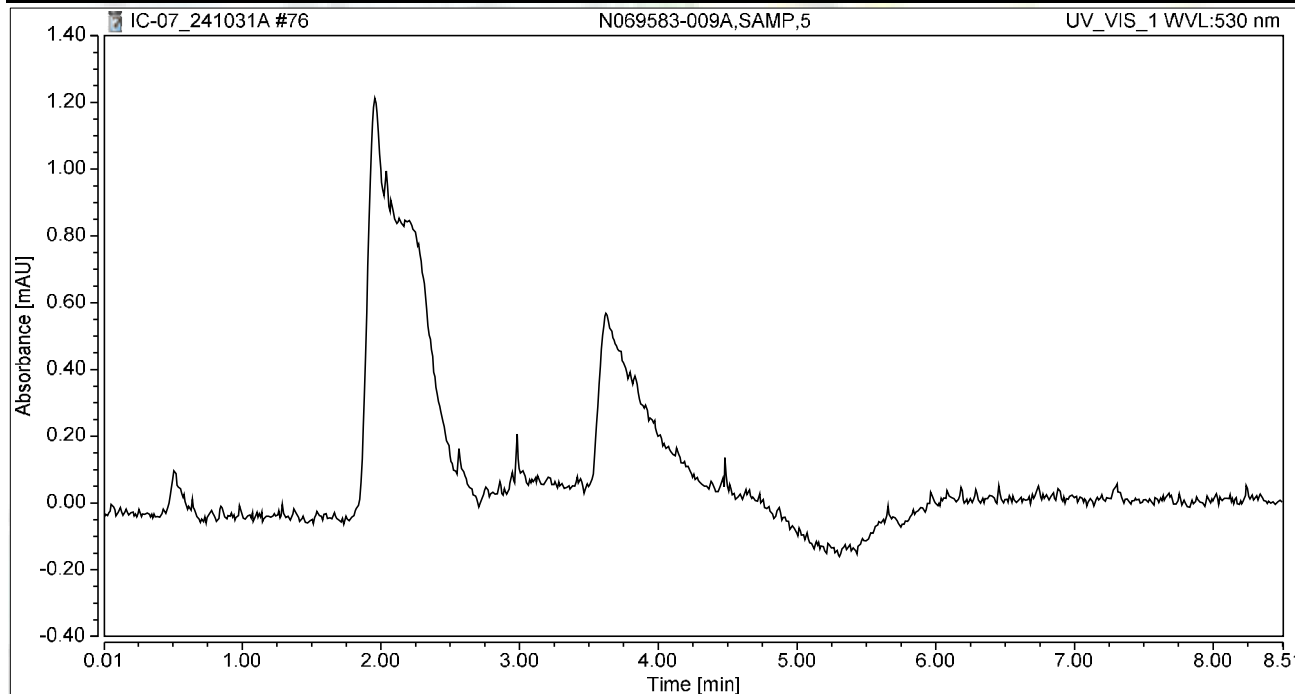
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-009A,SAMP,5	Run Time (min):	8.50
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 21:28	Sample Weight:	1.0000

Chromatogram



Integration Results

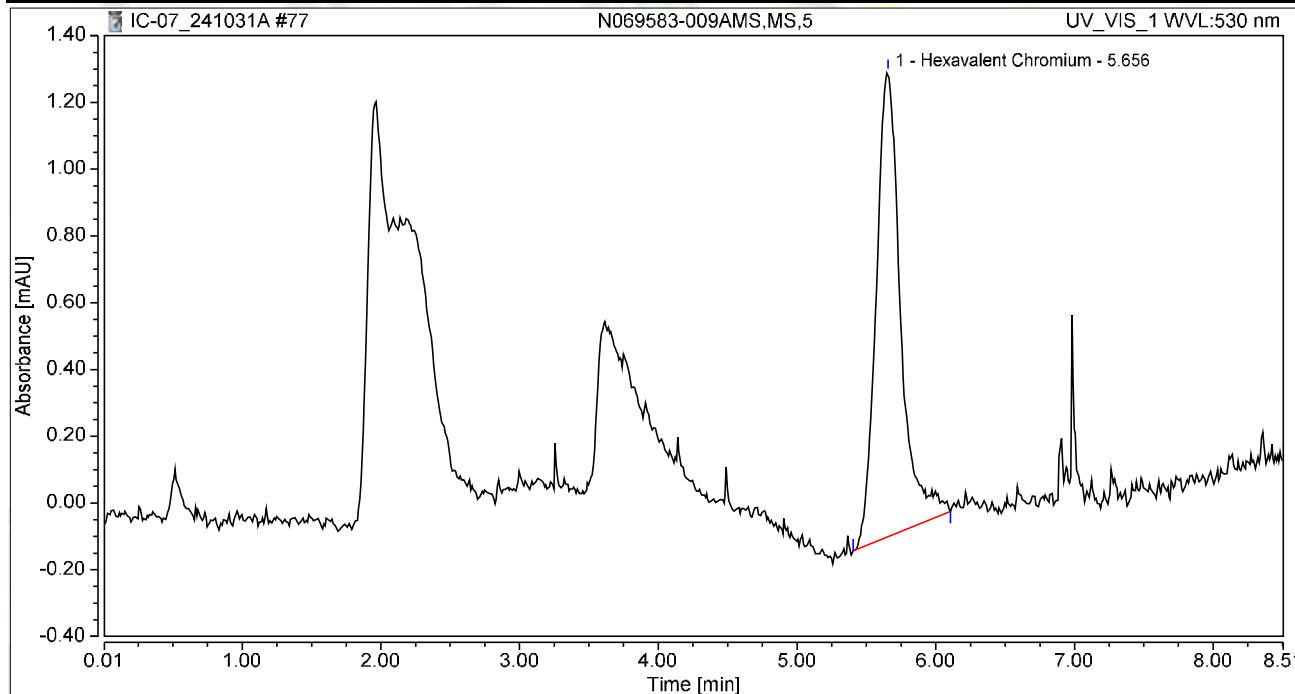
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-009AMS,MS,5	Run Time (min):	8.50
Vial Number:	36	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 21:38	Sample Weight:	1.0000

Chromatogram



Integration Results

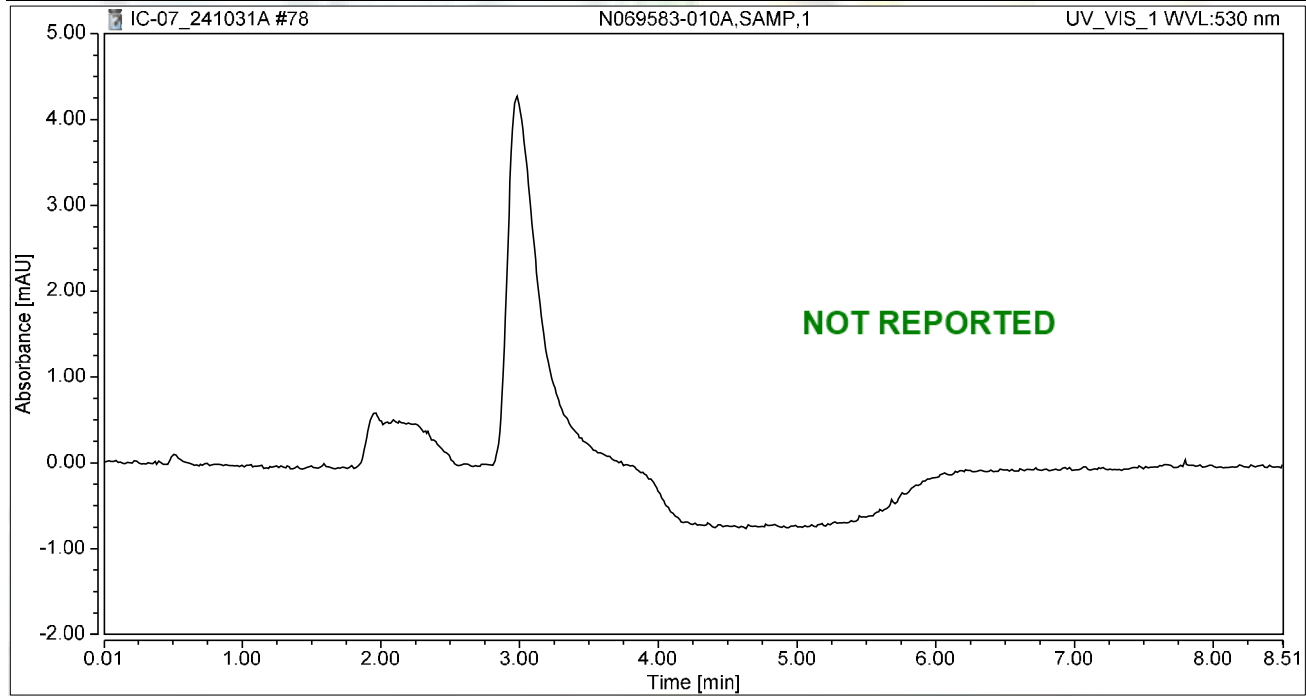
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.656	0.285	1.393	100.00	100.00	1.0053
Total:			0.285	1.393	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-010A,SAMP,1	Run Time (min):	8.50
Vial Number:	37	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 21:47	Sample Weight:	1.0000

Chromatogram



Integration Results

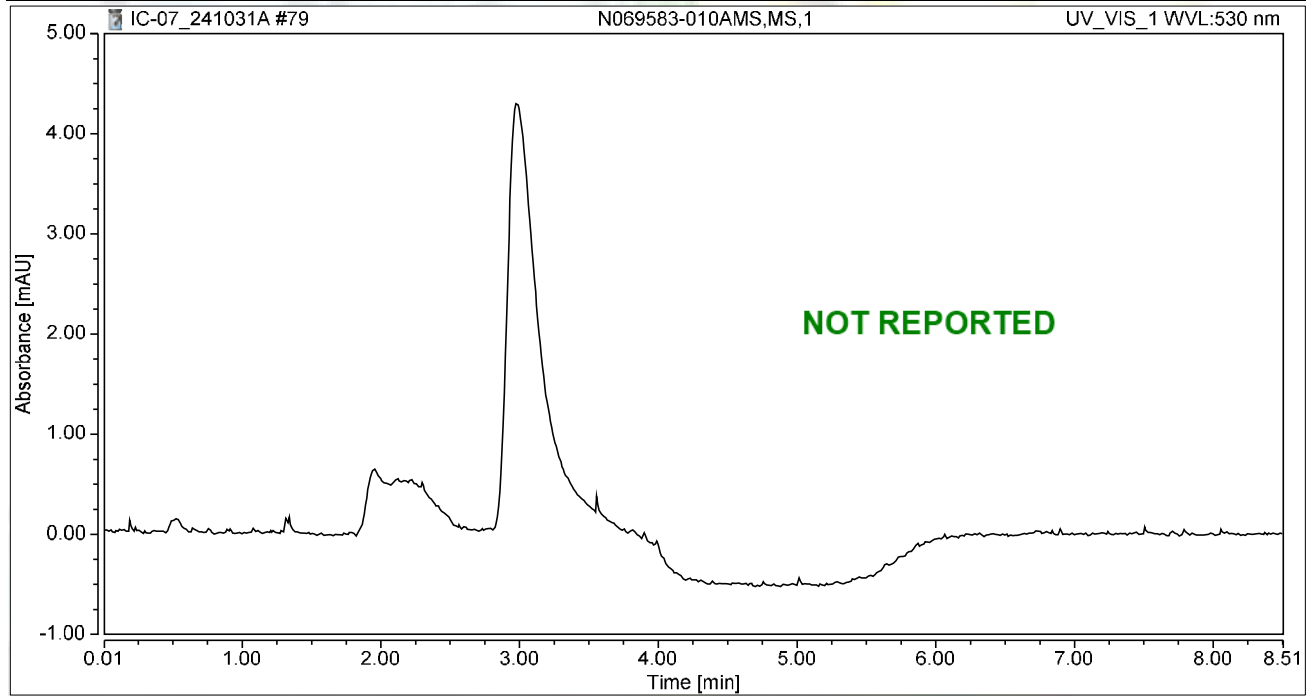
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-010AMS,MS,1	Run Time (min):	8.50
Vial Number:	38	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 21:56	Sample Weight:	1.0000

Chromatogram



Integration Results

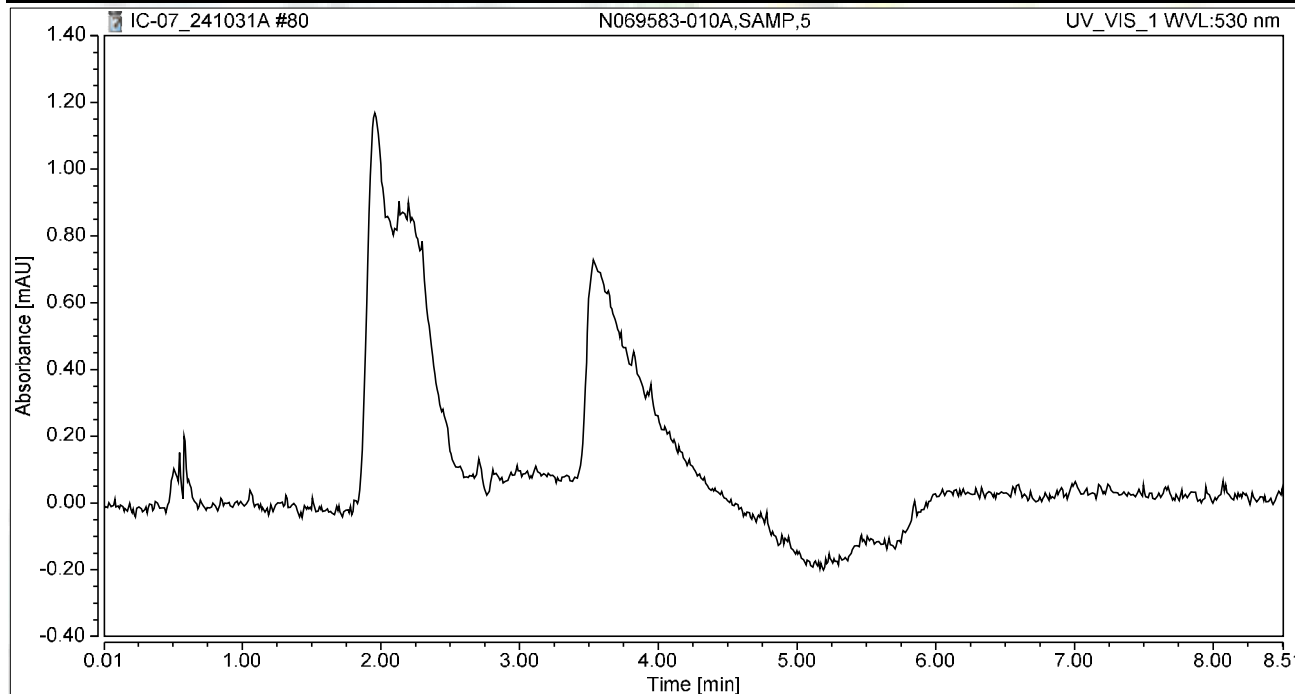
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-010A,SAMP,5	Run Time (min):	8.50
Vial Number:	39	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 22:06	Sample Weight:	1.0000

Chromatogram



Integration Results

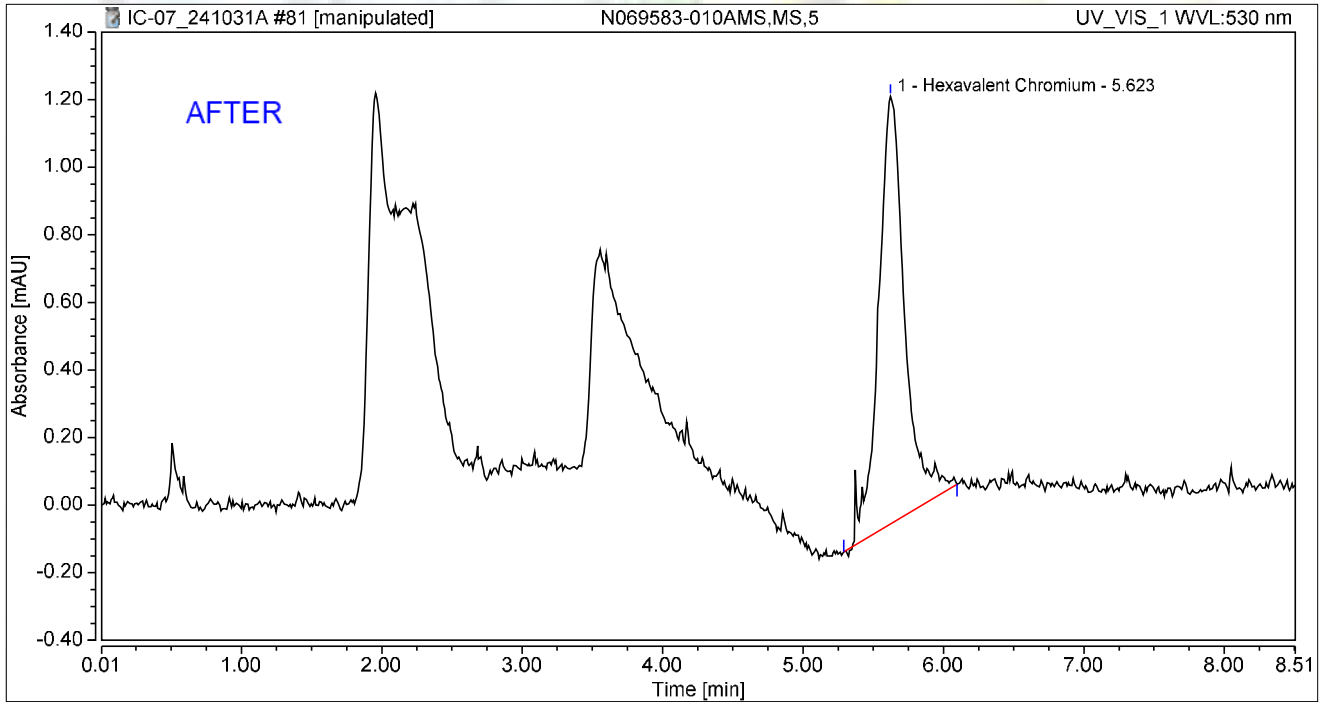
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-010AMS,MS,5	Run Time (min):	8.50
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 22:15	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.623	0.275	1.265	100.00	100.00	0.9680
Total:			0.275	1.265	100.00	100.00	

Reviewed by:

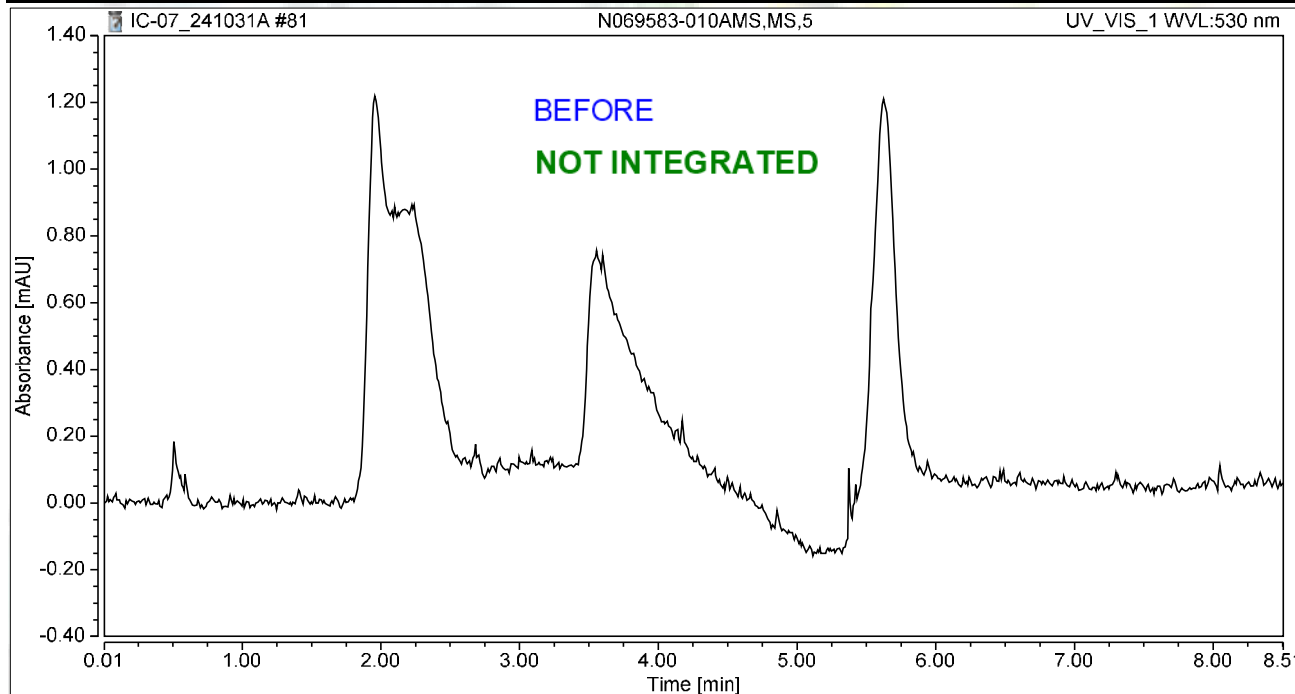
d/Recha 11/13/2024

Chromatogram and Results

Injection Details

Injection Name:	N069583-010AMS,MS,5	Run Time (min):	8.50
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 22:15	Sample Weight:	1.0000

Chromatogram



Integration Results

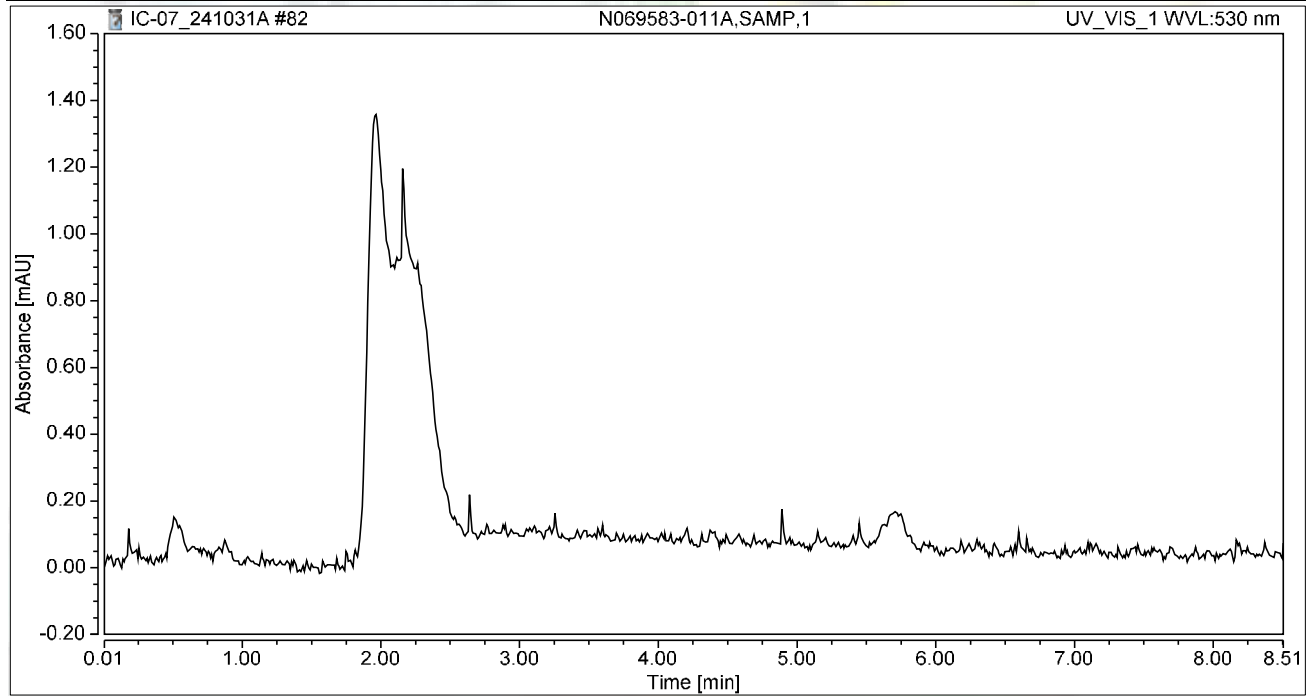
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-011A,SAMP,1	Run Time (min):	8.50
Vial Number:	41	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 22:25	Sample Weight:	1.0000

Chromatogram



Integration Results

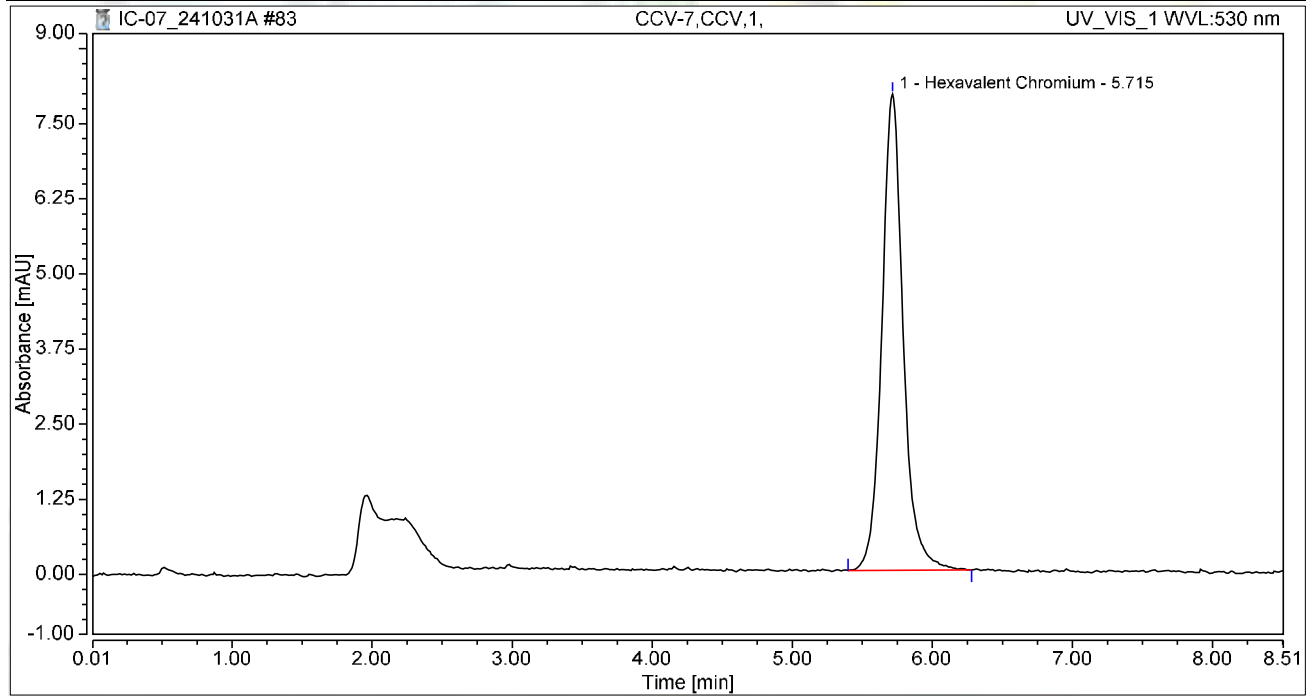
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-7,CCV,1,	Run Time (min):	8.50
Vial Number:	42	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 22:34	Sample Weight:	1.0000

Chromatogram



Integration Results

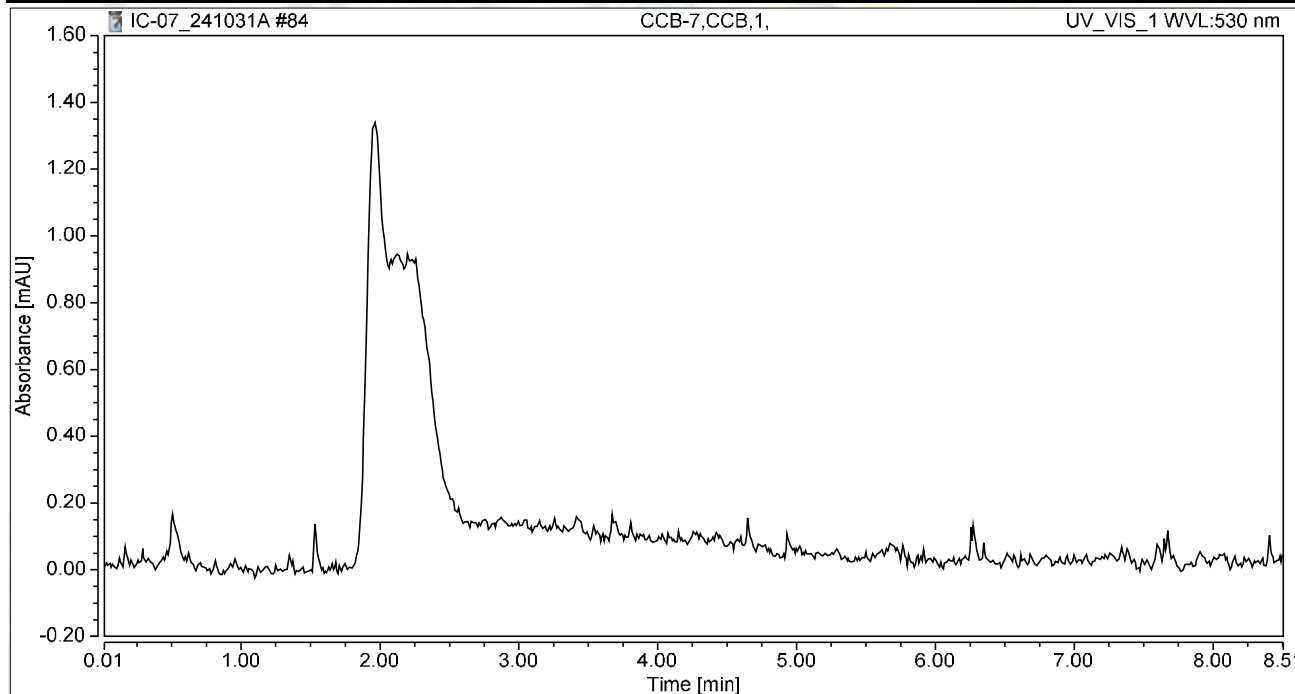
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	1.403	7.927	100.00	100.00	4.9432
Total:			1.403	7.927	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-7,CCB,1,	Run Time (min):	8.49
Vial Number:	43	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 22:44	Sample Weight:	1.0000

Chromatogram



Integration Results

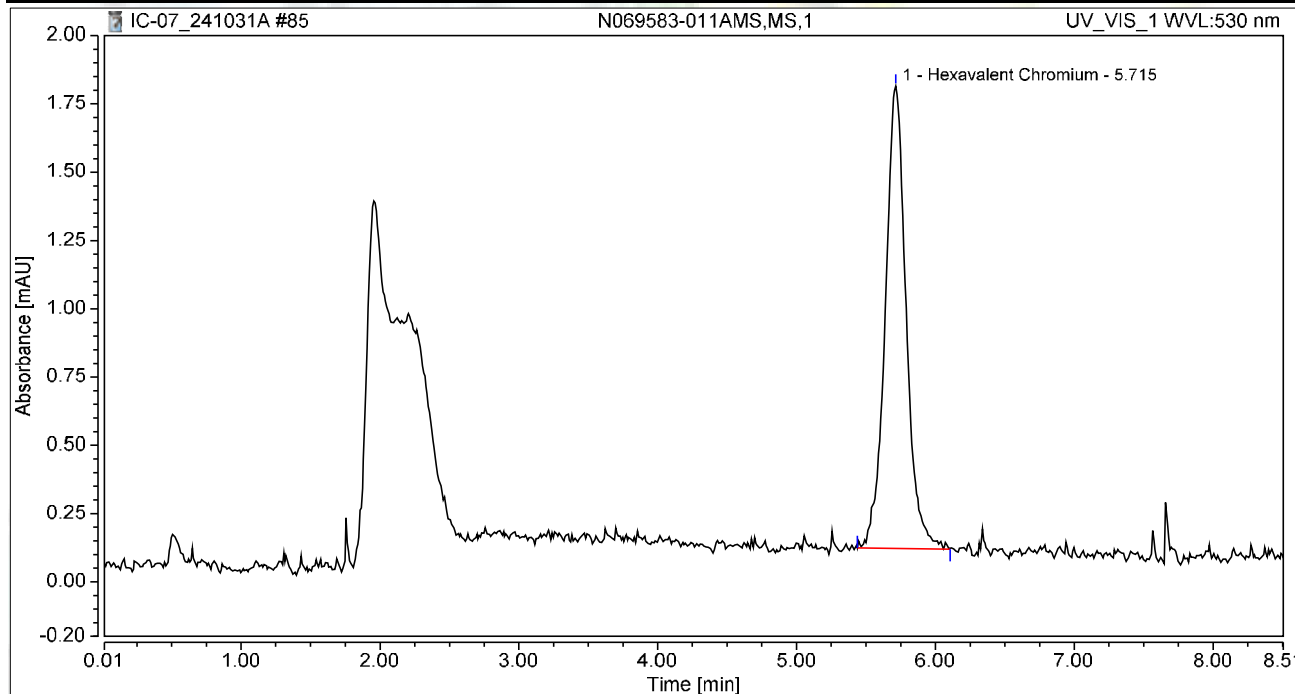
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-011AMS,MS,1	Run Time (min):	8.49
Vial Number:	44	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 22:53	Sample Weight:	1.0000

Chromatogram



Integration Results

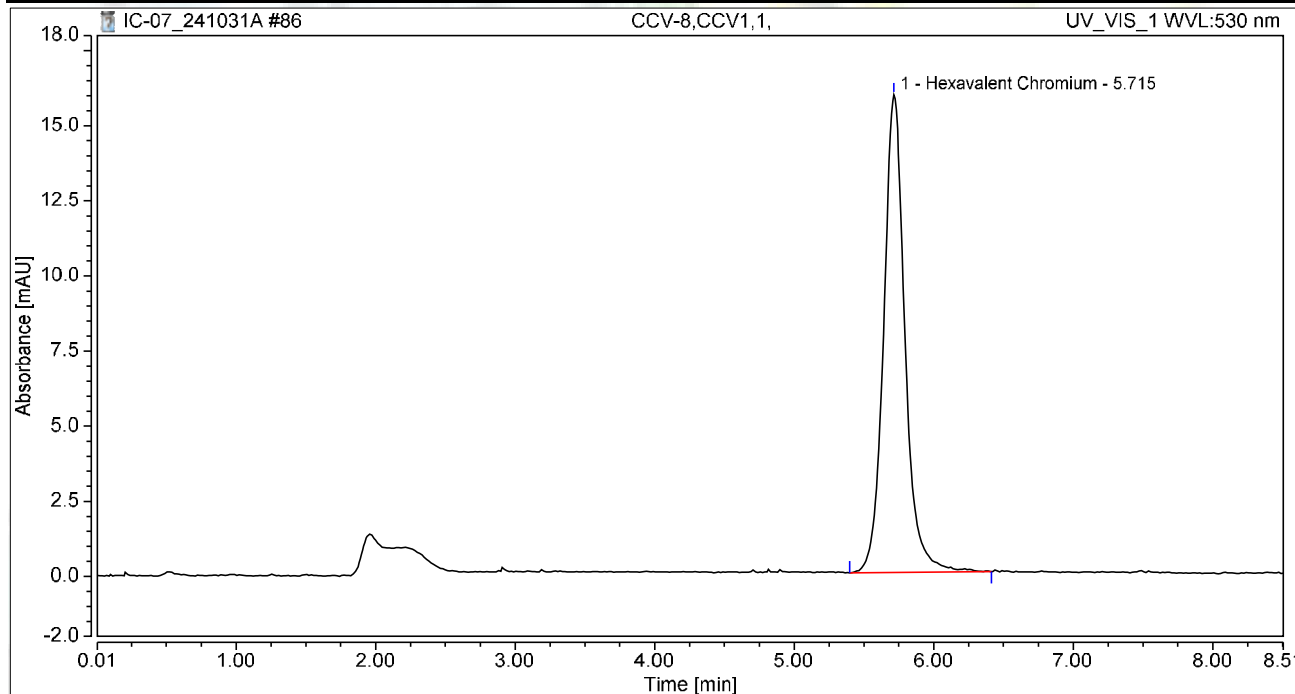
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.296	1.693	100.00	100.00	1.0434
Total:			0.296	1.693	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-8,CCV1,1,	Run Time (min):	8.50
Vial Number:	45	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 23:03	Sample Weight:	1.0000

Chromatogram



Integration Results

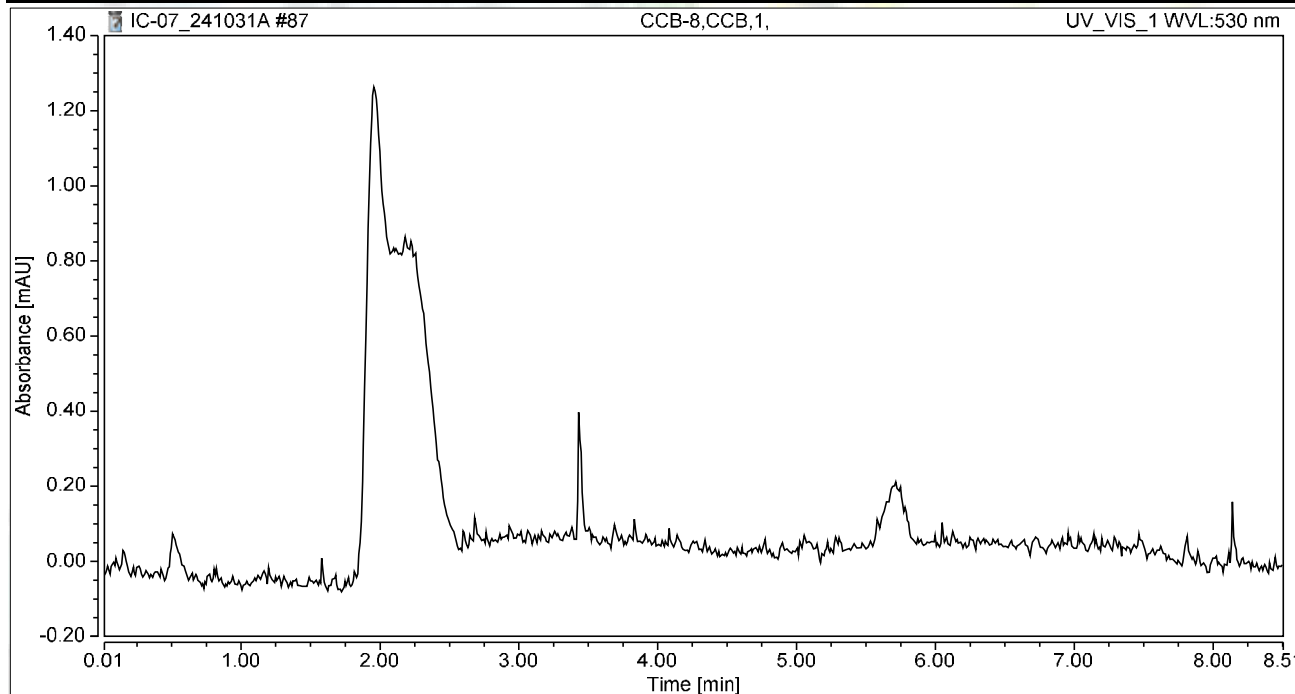
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.806	15.894	100.00	100.00	9.8907
Total:			2.806	15.894	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-8,CCB,1,	Run Time (min):	8.49
Vial Number:	46	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 23:12	Sample Weight:	1.0000

Chromatogram



Integration Results

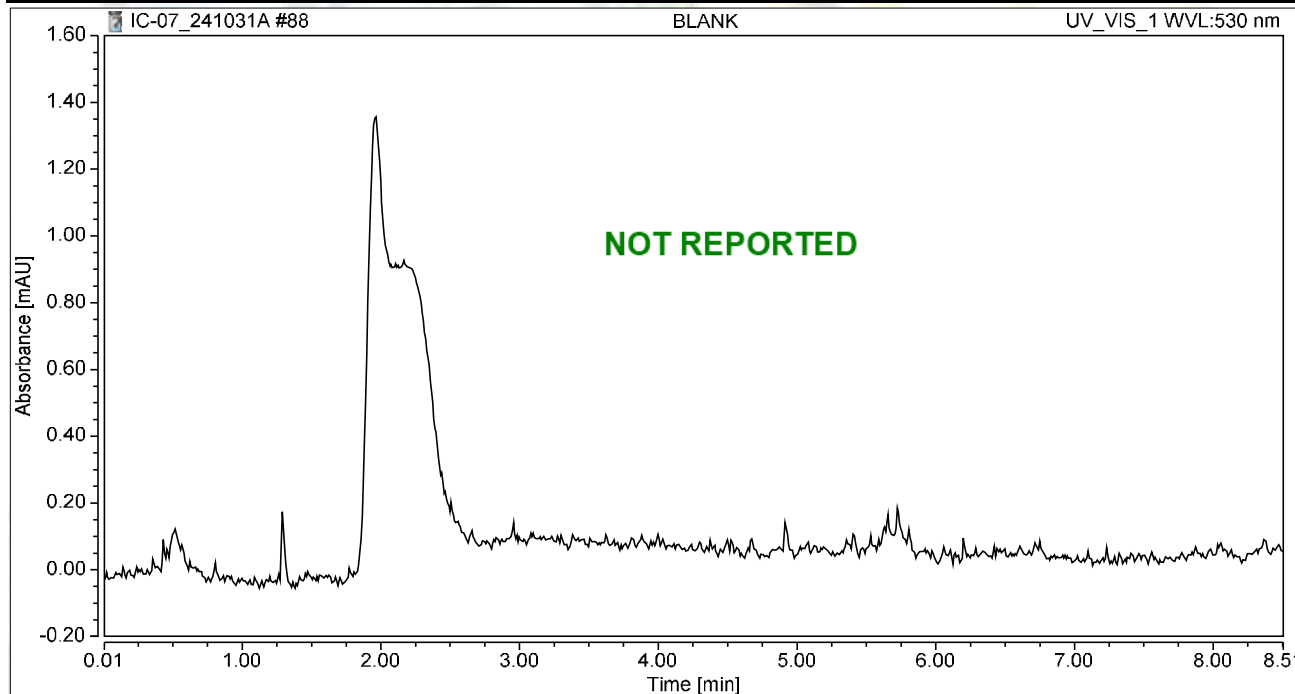
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	47	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 23:22	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

EPA 300.0



ASSET LABORATORIES
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P: 702.307.2659 F: 702.307.2691

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IC Technical Batch Review Checklist (ARCUS02)

ASSET LABORATORIES - LAS VEGAS

IC ARCUS
REV 2.0
011416

QC Batch Number: R195037
ASSET # N069582 / N069583 / N069585

Instrument ID: NV00922-IC9
Analyst: RBA
Date Analyzed: 10/31/2024

Method:

- EPA 300.0
- EPA 7199

- EPA 218.6/EPA 218.7
- EPA 218.6/EPA 218.7 LL
- Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria ?(r = 0.995, r =0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)			X			X
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?			X			X
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?			X			X
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
14. For Hinkley DOM samples, matrix spike protocol performed on all samples ? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed ?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)			X			X
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments: **Please see CAR 8236**

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA
2nd Level Reviewer jrb 11/5/2024

Date: _____
Date: _____

SAMPLE CALCULATION



ASSET LABORATORIES
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Sample Calculation

METHOD: EPA 300
TEST NAME: INORGANIC ANIONS BY IC
MATRIX: GROUNDWATER

FORMULA:

Calculate the Nitrate concentration, in mg/L, in the original sample as follows:

$$\text{Nitrate, mg/L} = A * DF$$

where:

A = mg/L, IC calculated concentration
DF = dilution factor

For **N069583-001C** concentration in mg/L is calculated as follows:

$$\text{Nitrate, mg/L} = 0 * 5$$

$$= 0$$

Since the Reporting limit is 0.25 mg/L

~~Reporting result in two significant figures,~~

$$\text{Nitrate, mg/L} = \text{ND}$$

Reviewed by:

d/Recha 12/2/2024

ANALYSIS RUN LOG



ASSET LABORATORIES
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Sequence: IC-09_241028A
Operator: IC-05

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 9

Created: 10/28/2024 9:32:32 AM by IC-05
Last Update: 10/28/2024 12:46:27 PM by IC-05


No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions_Default	EPA 300_0_240928A	Finished
2	Std - 0	Standard	2	1000.0	Anions_Default	EPA 300_0_240928A	Finished
3	Std - 1	Standard	4	1000.0	Anions_Default	EPA 300_0_240928A	Finished
4	Std - 2	Standard	5	1000.0	Anions_Default	EPA 300_0_240928A	Finished
5	Std - 3	Standard	6	1000.0	Anions_Default	EPA 300_0_240928A	Finished
6	Std - 4	Standard	7	1000.0	Anions_Default	EPA 300_0_240928A	Finished
7	Std - 5	Standard	8	1000.0	Anions_Default	EPA 300_0_240928A	Finished
8	ICV,ICV,1	Unknown	9	1000.0	Anions_Default	EPA 300_0_240928A	Finished
9	ICB,ICB,1	Unknown	10	1000.0	Anions_Default	EPA 300_0_240928A	Finished

EPA 300.0_0_241028A

 11/18/2024
for RBA

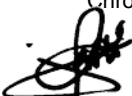
Note: Method name typographical error. Calibration standard files confirmed with 10/28/2024 analysis dates.

Reviewed by:

 11/5/2024

Processed by:

Chromeleon © Dionex Corporation, Version 6.80 SR10 Build 2818 (166959)



10/29/2024

NV00922-IC9 RBA 10/29/2024 1:11:12 AM

220

Sequence: IC-09_241028A
Operator: IC-05

Page 2 of 2
Printed: 10/29/2024 1:07:03 AM

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 9
Created: 10/28/2024 9:32:32 AM by IC-05
Last Update: 10/28/2024 12:46:27 PM by IC-05


No.	Name	Inj. Date/Time	Comment
1	BLANK	10/28/2024 9:39:25 AM	BLANK
2	Std - 0	10/28/2024 9:54:44 AM	IBLANK
3	Std - 1	10/28/2024 10:10:40 AM	STD-LOW
4	Std - 2	10/28/2024 10:26:36 AM	STD
5	Std - 3	10/28/2024 10:42:31 AM	STD
6	Std - 4	10/28/2024 10:58:27 AM	STD
7	Std - 5	10/28/2024 11:14:23 AM	STD-HIGH
8	ICV,ICV,1	10/28/2024 11:36:10 AM	ICV, IWST-241023B
9	ICB,ICB,1	10/28/2024 11:52:05 AM	ICB

Sequence: IC-09_241031A
Operator: IC-05

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 34

Created: 10/30/2024 10:53:12 AM by IC-05
Last Update: 10/31/2024 11:26:04 AM by IC-05

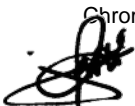
No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions_Default	EPA 300_0_240928A	Finished
2	Std - 0	Standard	2	1000.0	Anions_Default	EPA 300_0_240928A	Finished
3	Std - 1	Standard	4	1000.0	Anions_Default	EPA 300_0_240928A	Finished
4	Std - 2	Standard	5	1000.0	Anions_Default	EPA 300_0_240928A	Finished
5	Std - 3	Standard	6	1000.0	Anions_Default	EPA 300_0_240928A	Finished
6	Std - 4	Standard	7	1000.0	Anions_Default	EPA 300_0_240928A	Finished
7	Std - 5	Standard	8	1000.0	Anions_Default	EPA 300_0_240928A	Finished
8	BLANK	Unknown	1	1000.0	Anions_Default	EPA 300_0_240928A	Finished
9	CCV-1,CCV,1	Unknown	2	1000.0	Anions_Default	EPA 300_0_240928A	Finished
10	CCB-1,CCB,1	Unknown	3	1000.0	Anions_Default	EPA 300_0_240928A	Finished
11	MB-H2O,MBLK,1	Unknown	4	1000.0	Anions_Default	EPA 300_0_240928A	Finished
12	LCS-H2O,LCS,1	Unknown	5	1000.0	Anions_Default	EPA 300_0_240928A	Finished
13	N069585-001C,SAMP,10	Unknown	1	1000.0	Anions_Default	EPA 300_0_240928A	Finished
14	N069583-003C,SAMP,10	Unknown	2	1000.0	Anions_Default	EPA 300_0_240928A	Finished
15	N069582-002C,SAMP,10	Unknown	3	1000.0	Anions_Default	EPA 300_0_240928A	Finished
16	N069583-001C,SAMP,5	Unknown	4	1000.0	Anions_Default	EPA 300_0_240928A	Finished
17	N069583-002C,SAMP,5	Unknown	5	1000.0	Anions_Default	EPA 300_0_240928A	Finished
18	N069583-004C,SAMP,10	Unknown	6	1000.0	Anions_Default	EPA 300_0_240928A	Finished
19	N069583-006C,SAMP,5	Unknown	7	1000.0	Anions_Default	EPA 300_0_240928A	Finished
20	N069583-008C,SAMP,5	Unknown	8	1000.0	Anions_Default	EPA 300_0_240928A	Finished
21	CCV-2,CCV,1	Unknown	9	1000.0	Anions_Default	EPA 300_0_240928A	Finished
22	CCB-2,CCB,1	Unknown	10	1000.0	Anions_Default	EPA 300_0_240928A	Finished
23	N069583-009C,SAMP,10	Unknown	11	1000.0	Anions_Default	EPA 300_0_240928A	Finished
24	N069583-010C,SAMP,10	Unknown	12	1000.0	Anions_Default	EPA 300_0_240928A	Finished
25	N069582-006C,SAMP,10	Unknown	13	1000.0	Anions_Default	EPA 300_0_240928A	Finished
26	N069582-003C,SAMP,10	Unknown	14	1000.0	Anions_Default	EPA 300_0_240928A	Finished
27	N069582-004C,SAMP,20	Unknown	15	1000.0	Anions_Default	EPA 300_0_240928A	Finished
28	N069582-005C,SAMP,10	Unknown	16	1000.0	Anions_Default	EPA 300_0_240928A	Finished
29	N069583-003CMS,MS,10	Unknown	17	1000.0	Anions_Default	EPA 300_0_240928A	Finished
30	N069583-003CMSD,MSD,10	Unknown	18	1000.0	Anions_Default	EPA 300_0_240928A	Finished
31	N069582-006CDUP,DUP,10	Unknown	19	1000.0	Anions_Default	EPA 300_0_240928A	Finished
32	N069583-006CMS,MS,10	Unknown	20	1000.0	Anions_Default	EPA 300_0_240928A	Finished
33	CCV-3,CCV,1	Unknown	21	1000.0	Anions_Default	EPA 300_0_240928A	Finished
34	CCB-3,CCB,1	Unknown	22	1000.0	Anions_Default	EPA 300_0_240928A	Finished

 11/25/2024

For RBA

Note: Method name typographical error. Calibration standard files confirmed with 10/28/2024 analysis dates.

Processed by:



10/31/2024

NV00922-IC9 RBA 10/31/2024 6:14:05 PM

Sequence: IC-09_241031A
Operator: IC-05

Page 2 of 2
Printed: 10/31/2024 6:13:36 PM

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 34
Created: 10/30/2024 10:53:12 AM by IC-05
Last Update: 10/31/2024 11:26:04 AM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	10/28/2024 9:39:25 AM	BLANK
2	Std - 0	10/28/2024 9:54:44 AM	IBLANK
3	Std - 1	10/28/2024 10:10:40 AM	STD-LOW
4	Std - 2	10/28/2024 10:26:36 AM	STD
5	Std - 3	10/28/2024 10:42:31 AM	STD
6	Std - 4	10/28/2024 10:58:27 AM	STD
7	Std - 5	10/28/2024 11:14:23 AM	STD-HIGH
8	BLANK	10/31/2024 9:49:11 AM	BLANK
9	CCV-1,CCV,1	10/31/2024 10:04:30 AM	CCV, IWST-241031A
10	CCB-1,CCB,1	10/31/2024 10:20:25 AM	CCB
11	MB-H2O,MBLK,1	10/31/2024 10:36:20 AM	MB
12	LCS-H2O,LCS,1	10/31/2024 10:52:16 AM	LCS, IWST-241031B
13	N069585-001C,SAMP,10	10/31/2024 11:19:44 AM	SAMP,1>10mL,
14	N069583-003C,SAMP,10	10/31/2024 11:35:12 AM	SAMP,1>10mL,
15	N069582-002C,SAMP,10	10/31/2024 11:51:07 AM	SAMP,1>10mL,
16	N069583-001C,SAMP,5	10/31/2024 12:07:02 PM	SAMP,2>10mL,
17	N069583-002C,SAMP,5	10/31/2024 12:22:57 PM	SAMP,2>10mL,
18	N069583-004C,SAMP,10	10/31/2024 12:38:53 PM	SAMP,1>10mL,
19	N069583-006C,SAMP,5	10/31/2024 12:54:49 PM	SAMP,2>10mL,
20	N069583-008C,SAMP,5	10/31/2024 1:10:44 PM	SAMP,2>10mL,
21	CCV-2,CCV,1	10/31/2024 1:26:40 PM	CCV, IWST-241031A
22	CCB-2,CCB,1	10/31/2024 1:42:35 PM	CCB
23	N069583-009C,SAMP,10	10/31/2024 1:58:31 PM	SAMP,1>10mL,
24	N069583-010C,SAMP,10	10/31/2024 2:14:27 PM	SAMP,1>10mL,
25	N069582-006C,SAMP,10	10/31/2024 2:30:23 PM	SAMP,1>10mL,
26	N069582-003C,SAMP,10	10/31/2024 2:46:19 PM	SAMP,1>10mL,
27	N069582-004C,SAMP,20	10/31/2024 3:02:14 PM	SAMP,0.5>10mL,
28	N069582-005C,SAMP,10	10/31/2024 3:18:09 PM	SAMP,1>10mL,
29	N069583-003CMS,MS,10	10/31/2024 3:34:05 PM	MS,1>10mL,
30	N069583-003CMSD,MSD,10	10/31/2024 3:50:01 PM	MSD,1>10mL,
31	N069582-006CDUP,DUP,10	10/31/2024 4:05:56 PM	DUP,1>10mL,
32	N069583-006CMS,MS,10	10/31/2024 4:21:52 PM	MS,1>10mL,
33	CCV-3,CCV,1	10/31/2024 4:37:47 PM	CCV, IWST-241031A
34	CCB-3,CCB,1	10/31/2024 4:53:43 PM	CCB

INITIAL CALIBRATION DATA SUMMARY



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"Serving Clients with Passion and Professionalism"

(EPA 300) - INITIAL CALIBRATION

Instrument ID: NV00922-IC9

Date Calibrated: 10/28/2024

Initial Calibration:

Nitrate	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in mg/L	0	0.05	0.25	0.5	1.25	2.5	R ²
Area,mAU*min	0.0000	0.0196	0.0913	0.1839	0.4636	0.9621	1.000
Measured, in mg/L	0.000000	0.067100	0.253300	0.493900	1.220400	2.515400	
Relative Error (%RE)		34.2%		-1.2%			

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST-240705D

Calibration Acceptance Criteria: > 0.995 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID ICV	SampType: ICV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195037						
Client ID: ICV	Batch ID: R195037	TestNo: EPA 300.0		Analysis Date: 10/28/2024	SeqNo: 6277707						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.328	0.050	1.250	0	106	90	110				

Sample ID CCV-1	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195037						
Client ID: CCV	Batch ID: R195037	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6277709						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.320	0.050	1.250	0	106	90	110				

Sample ID CCV-2	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195037						
Client ID: CCV	Batch ID: R195037	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6277721						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.286	0.050	1.250	0	103	90	110				

Sample ID CCV-3	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195037						
Client ID: CCV	Batch ID: R195037	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6277733						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.341	0.050	1.250	0	107	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

SUMMARY OF INSTRUMENT BLANKS



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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID ICB	SampType: ICB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195037						
Client ID: ICB	Batch ID: R195037	TestNo: EPA 300.0		Analysis Date: 10/28/2024	SeqNo: 6277708						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID CCB-1	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195037						
Client ID: CCB	Batch ID: R195037	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6277710						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID CCB-2	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195037						
Client ID: CCB	Batch ID: R195037	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6277722						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID CCB-3	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195037						
Client ID: CCB	Batch ID: R195037	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6277734						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

RETENTION TIME SUMMARY



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RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC9

Analytical Sequence

Date Analyzed: 10/31/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Nitrate 6.721	
CCV-1	Nitrate 6.717	
CCV-2	Nitrate 6.764	
CCV-3	Nitrate 6.801	

Average 6.761
Applied RT Window 6.561 - 6.961

MB-R195037_NO3	Nitrate	N.A.	N.A.
LCS-R195037_NO3	Nitrate	6.771	PASS
N069583-003C	Nitrate	N.A.	N.A.
N069583-001C	Nitrate	N.A.	N.A.
N069583-002C	Nitrate	6.751	PASS
N069583-004C	Nitrate	N.A.	N.A.
N069583-006C	Nitrate	6.741	PASS
N069583-008C	Nitrate	N.A.	N.A.
N069583-009C	Nitrate	N.A.	N.A.
N069583-010C	Nitrate	N.A.	N.A.
N069583-003CMS	Nitrate	6.781	PASS
N069583-003CMSD	Nitrate	6.774	PASS
N069582-006CDUP	Nitrate	6.757	PASS
N069583-006CMS	Nitrate	6.784	PASS

Reviewed by:

dRecha 12/2/2024

CORRECTIVE ACTION DOCUMENTATION



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ASSET Laboratories
Corrective Action Report (CAR)

Date Initiated: 02-Dec-24
Initiated By: Ria Abes

Corrective Action Report ID: 8236
Department: II-2(Anions&Per)

Corrective Action Description

CAR Summary: Method name error in anions

Description of Nonconformance: Typographical error in method name was committed when calibration performed 10/28/2024 was named EPA 300_0_240928A instead of 300_0_241028A. However, calibration standard files confirmed with 10/28/2024 analysis dates.

Description of Corrective Action: Ensuring that all entries in the sequence are correct is a must during analysis.

Performed By: Ria Abes

Completion Date: 02-Dec-24

Client Notification

Client Notification Required: No

Notified By:

Comment:

Quality Assurance Review

Corrective Action: Deficiency


Further Action required by QA:

Approval and Closure

CAR Closed By:

Close Date:

QA Reviewed By:

 12/2/2024

QA Date:

MDL STUDY



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METHOD DETECTION LIMIT (Spiked)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): 10/5/2022, 12/14/2022, 3/22/2023, 7/10/2023; 10/3/2023 & 11/14/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: mg/L

Instrument Name: **IC-08 & IC-09**

Datafile IC-08 221005A #24 IC-08 221214A #30 IC-08 230322A #35 IC-08 230710A #13 IC-09 231003A #14 IC-08 231114A #24 IC-09 231114A #19

Analyte	#1	#2	#3	#4	#5	#6	#7	Spike Conc., mg/L	SD	t _(n-1) value	MDLs	MDL	PQL
Fluoride	0.100	0.103	0.108	0.118	0.110	0.098	0.126	0.10	0.0101	3.143	0.0318	0.0318	0.10
Chloride	0.480	0.418	0.472	0.653	0.624	0.587	0.622	0.50	0.0922	3.143	0.2898	0.2898	0.50
Nitrite	0.068	0.061	0.060	0.071	0.063	0.061	0.070	0.05	0.0047	3.143	0.0149	0.0149	0.05
Bromide	0.526	0.502	0.509	0.522	0.536	0.527	0.520	0.50	0.0116	3.143	0.0364	0.0364	0.50
Nitrate	0.073	0.058	0.059	0.073	0.074	0.068	0.073	0.05	0.0068	3.143	0.0215	0.0240	0.05
Phosphate	0.112	0.096	0.114	0.120	0.130	0.093	0.124	0.10	0.0138	3.143	0.0433	0.0433	0.10
Sulfate	0.501	0.609	0.638	0.401	0.704	0.620	0.697	0.50	0.1092	3.143	0.3432	0.3432	0.50

METHOD DETECTION LIMIT (Blanks)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Analyte	MDLb	# of Records
Fluoride	0	63
Chloride	0.1456	80
Nitrite	0.0147	64
Bromide	0	18
Nitrate	0.0240	132
Phosphate	0.0237	34
Sulfate	0.2579	107

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

EPA 6010B Dissolved



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 113745
ASSET #: N069583

Instrument ID: NV00922-ICP4
Analyst: DBJ

Method:

EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 10/31/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)			X			X
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
2nd Level Reviewer NS 11142024

Date: _____
Date: _____

SAMPLE CALCULATION



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SAMPLE CALCULATION

METHOD: EPA 6010B
TEST NAME: Heavy Metals by ICP
MATRIX: Groundwater

FORMULA:

Calculate the Iron concentration, in ug/L, in the original sample as follows:

$$\text{Iron, ug/L} = A * DF * PF * CF$$

where:

A = mg/L, calculated concentration

DF = Dilution Factor

PF = Final Volume of Digestate, mL / Amount of Sample, mL

CF= Conversion Factor from mg/L to ug/L, 1000

For Sample **N069583-003B**, the concentration in ug/L is calculated as follows:

$$\text{Iron, ug/L} = 0.14567 * 1 * (25/25) * 1000$$

$$\text{Iron, ug/L} = 145.67$$

Reporting results in two significant figures,

$$\text{Iron, ug/L} = \mathbf{150}$$

Reviewed by:

M Rocha 12/2/2024

% RSD SUMMARY



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RSD SUMMARY: 241031A

Instrument ID: NV00922-ICP4

PQL: 0.02 mg/L

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
Blank	BLK	1	Fe	0	-	15	PASS
Standard 1	ICAL	1	Fe	0.02	-	15	PASS
Standard 2	ICAL	1	Fe	0.05	-	15	PASS
Standard 3	ICAL	1	Fe	2	-	15	PASS
Standard 4	ICAL	1	Fe	5	-	15	PASS
Standard 5	ICAL	1	Fe	7.5	-	15	PASS
Standard 6	ICAL	1	Fe	10	-	15	PASS
Standard 7	ICAL	1	Fe	20	-	15	PASS
ICV	ICV	1	Fe	10.0326	0.08	15	PASS
ICB	ICB	1	Fe	-0.0034	2.43	15	PASS
LLCCV1	CCV1	1	Fe	0.01601	0.37	20	PASS
LLCCV2	CCV1	1	Fe	0.38979	0.74	20	PASS
ICSA1	ICSA	1	Fe	10.55578	0.55	15	PASS
ICSAB1	ICSAB	1	Fe	10.33902	0.05	15	PASS
LLCCV1	CCV1	1	Fe	0.01641	2.00	20	PASS
CCV1	CCV	1	Fe	10.18353	0.13	15	PASS
CCB1	CCB	1	Fe	-0.00065	36.16	15	< PQL
CCV2	CCV	1	Fe	10.14552	0.03	15	PASS
CCB2	CCB	1	Fe	-0.00296	8.46	15	PASS
CCV3	CCV	1	Fe	10.1451	0.11	15	PASS
CCB3	CCB	1	Fe	-0.00272	9.89	15	PASS
CCV4	CCV	1	Fe	10.13171	0.08	15	PASS
CCB4	CCB	1	Fe	-0.00309	16.10	15	< PQL
CCV5	CCV	1	Fe	10.13816	0.15	15	PASS
CCB5	CCB	1	Fe	-0.00299	1.06	15	PASS
ICSA2	ICSA	1	Fe	10.54401	0.27	15	PASS
ICSAB2	ICSAB	1	Fe	10.32707	0.05	15	PASS
CCV6	CCV	1	Fe	10.24703	0.11	15	PASS
CCB6	CCB	1	Fe	0.00486	36.69	15	< PQL
CCV7	CCV	1	Fe	10.20544	0.11	15	PASS
CCB7	CCB	1	Fe	0.00372	31.59	15	< PQL
CCV8	CCV	1	Fe	10.20189	0.13	15	PASS
CCB8	CCB	1	Fe	0.0022	21.16	15	< PQL
ICSA3	ICSA	1	Fe	10.5728	0.24	15	PASS
ICSAB3	ICSAB	1	Fe	10.30669	0.13	15	PASS
CCV9	CCV	1	Fe	10.12033	0.17	15	PASS
CCB9	CCB	1	Fe	-0.001	17.37	15	< PQL
CCV10	CCV	1	Fe	10.10562	0.11	15	PASS
CCB10	CCB	1	Fe	-0.00237	18.24	15	< PQL
CCV11	CCV	1	Fe	10.07569	0.08	15	PASS
CCB11	CCB	1	Fe	-0.00241	8.99	15	PASS

RSD SUMMARY: 241031A

Instrument ID: NV00922-ICP4

PQL: 0.02 mg/L

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
ICSA4	ICSA	1	Fe	10.49484	0.56	15	PASS
ICSAB4	ICSAB	1	Fe	10.28564	0.09	15	PASS
CCV12	CCV	1	Fe	10.13522	0.06	15	PASS
CCB12	CCB	1	Fe	-0.00227	12.58	15	PASS
CCV13	CCV	1	Fe	10.09442	0.16	15	PASS
CCB13	CCB	1	Fe	-0.00202	4.71	15	PASS
MB-113745	MBLK	1	Fe	-0.00464	2.00	15	PASS
LCS-113745	LCS	1	Fe	0.11161	0.31	15	PASS
N069583-001B	SAMP	1	Fe	1.43205	0.11	15	PASS
N069583-002B	SAMP	1	Fe	-0.00221	9.67	15	PASS
N069583-003B	SAMP	1	Fe	0.14567	0.10	15	PASS
N069583-003B	SAMP	5	Fe	0.02496	1.68	15	PASS
N069583-003B-PS	PS	1	Fe	0.26369	0.33	15	PASS
N069583-003BMS	MS	1	Fe	0.26504	0.20	15	PASS
N069583-003BMSD	MSD	1	Fe	0.25806	0.17	15	PASS
N069583-004B	SAMP	1	Fe	0.02402	0.08	15	PASS
CCV14	CCV	1	Fe	10.08047	0.05	15	PASS
CCB14	CCB	1	Fe	-0.00211	14.83	15	PASS
N069583-006B	SAMP	1	Fe	0.00027	130.78	15	< PQL
N069583-008B	SAMP	1	Fe	0.14664	0.21	15	PASS
N069583-009B	SAMP	1	Fe	13.4759	0.09	15	PASS
N069583-010B	SAMP	1	Fe	12.36216	0.06	15	PASS
N060585-001B	SAMP	1	Fe	0.00252	16.38	15	< PQL
CCV15	CCV	1	Fe	10.08888	0.05	15	PASS
CCB15	CCB	1	Fe	-0.00231	14.01	15	PASS
ICSA5	ICSA	1	Fe	10.44208	0.51	15	PASS
ICSAB5	ICSAB	1	Fe	10.24734	0.07	15	PASS

ANALYSIS RUN LOG



ASSET LABORATORIES
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CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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P: 702.307.2659 F: 702.307.2691

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INJECTION LOG: 241031A

Instrument ID: NV00922-ICP4

STANDARD CODE	
Standard1	MWST-240820N, 0.5<50mL
Standard2	MWST-240820O
Standard3	MWST-240820P, 5<50mL
Standard4	MWST-240820P,12.5<50mL
Standard5	MWST-240820P, 15<40mL
Standard6	MWST-240820P, 25<50mL
Standard7	MWST-240820P
ICV	MWST-240820AG
CCV	MWST-240820P, 25<50mL
ICSA/ICSAB	MWST-240820Q / MWST-240820R
Int. Std	MSST-240801A/240801B
PS Spike	MWST-240820Y/Z/AA

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
1	Blank	BLK	1	10/31/2024	8:40:23 PM
2	Standard 1	ICAL	1	10/31/2024	8:42:40 PM
3	Standard 2	ICAL	1	10/31/2024	8:44:57 PM
4	Standard 3	ICAL	1	10/31/2024	8:47:14 PM
5	Standard 4	ICAL	1	10/31/2024	8:49:31 PM
6	Standard 5	ICAL	1	10/31/2024	8:51:48 PM
7	Standard 6	ICAL	1	10/31/2024	8:54:05 PM
8	Standard 7	ICAL	1	10/31/2024	8:56:22 PM
9	ICV	ICV	1	10/31/2024	9:05:31 PM
10	ICB	ICB	1	10/31/2024	9:07:48 PM
11	LLCCV1	CCV1	1	10/31/2024	9:10:05 PM
12	LLCCV2	CCV1	1	10/31/2024	9:12:23 PM
13	ICSA1	ICSA	1	10/31/2024	9:14:39 PM
14	ICSAB1	ICSAB	1	10/31/2024	9:16:56 PM
15	LLCCV1	CCV1	1	10/31/2024	9:21:57 PM
16	MB1-113648	MBLK	1	10/31/2024	9:24:14 PM
17	MB-113550 STLC	MBLK	5	10/31/2024	9:26:31 PM
18	LCS-113648	LCS	1	10/31/2024	9:28:48 PM
19	N068784-001C	SAMP	5	10/31/2024	9:31:05 PM
20	N068784-001C	SAMP	25	10/31/2024	9:33:22 PM
21	N068784-001C-PS	PS	5	10/31/2024	9:35:39 PM
22	N068784-001C-MS	MS	5	10/31/2024	9:37:56 PM
23	N068784-001C-MSD	MSD	5	10/31/2024	9:40:13 PM
24	N068369-001A	SAMP	50	10/31/2024	9:42:30 PM
25	CCV1	CCV	1	10/31/2024	9:44:47 PM
26	CCB1	CCB	1	10/31/2024	9:47:04 PM
27	MB1-113677	MBLK	1	10/31/2024	9:49:21 PM
28	MB2-113677	MBLK	1	10/31/2024	9:51:39 PM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
29	MB1-113573 TCLP	MBLK	1	10/31/2024	9:53:56 PM
30	MB2-113573 TCLP	MBLK	1	10/31/2024	9:56:13 PM
31	LCS-113677	LCS	1	10/31/2024	9:58:30 PM
32	N069423-019A	SAMP	1	10/31/2024	10:00:47 PM
33	N069423-019A	SAMP	5	10/31/2024	10:03:04 PM
34	N069423-019A-PS	PS	1	10/31/2024	10:05:21 PM
35	N069423-019A-MS	MS	1	10/31/2024	10:07:39 PM
36	N069423-019A-MSD	MSD	1	10/31/2024	10:09:56 PM
37	CCV2	CCV	1	10/31/2024	10:12:13 PM
38	CCB2	CCB	1	10/31/2024	10:14:29 PM
39	N069423-020A	SAMP	1	10/31/2024	10:16:47 PM
40	N069423-021A	SAMP	1	10/31/2024	10:19:04 PM
41	N069423-022A	SAMP	1	10/31/2024	10:21:21 PM
42	N069423-023A	SAMP	1	10/31/2024	10:23:38 PM
43	N069423-024A	SAMP	1	10/31/2024	10:25:55 PM
44	N069423-025A	SAMP	1	10/31/2024	10:28:13 PM
45	N069423-025A-DUP	DUP	1	10/31/2024	10:30:30 PM
46	N069423-026A	SAMP	1	10/31/2024	10:32:47 PM
47	N069423-026A-MS	MS	1	10/31/2024	10:35:04 PM
48	N069423-027A	SAMP	1	10/31/2024	10:37:21 PM
49	CCV3	CCV	1	10/31/2024	10:39:37 PM
50	CCB3	CCB	1	10/31/2024	10:41:54 PM
51	N069423-028A	SAMP	1	10/31/2024	10:44:11 PM
52	N069423-029A	SAMP	1	10/31/2024	10:46:29 PM
53	N069423-030A	SAMP	1	10/31/2024	10:48:46 PM
54	N069423-031A	SAMP	1	10/31/2024	10:51:04 PM
55	N069423-032A	SAMP	1	10/31/2024	10:53:21 PM
56	N069423-033A	SAMP	1	10/31/2024	10:55:38 PM
57	N069423-034A	SAMP	1	10/31/2024	10:57:55 PM
58	N069423-035A	SAMP	1	10/31/2024	11:00:12 PM
59	N069423-035A-DUP	DUP	1	10/31/2024	11:02:29 PM
60	N069423-036A	SAMP	1	10/31/2024	11:04:46 PM
61	CCV4	CCV	1	10/31/2024	11:07:03 PM
62	CCB4	CCB	1	10/31/2024	11:09:20 PM
63	N069423-037A	SAMP	1	10/31/2024	11:11:37 PM
64	N069423-038A	SAMP	1	10/31/2024	11:13:54 PM
65	CCV5	CCV	1	10/31/2024	11:16:11 PM
66	CCB5	CCB	1	10/31/2024	11:18:28 PM
67	ICSA2	ICSA	1	10/31/2024	11:20:45 PM
68	ICSAB2	ICSAB	1	10/31/2024	11:23:01 PM
69	MB-113749	MBLK	1	10/31/2024	11:25:18 PM
70	LCS-113749	LCS	1	10/31/2024	11:27:35 PM
71	N069574-001A	SAMP	1	10/31/2024	11:29:53 PM
72	N069574-001A	SAMP	5	10/31/2024	11:32:10 PM
73	N069574-001A-PS	PS	1	10/31/2024	11:34:27 PM
74	N069574-001A-MS	MS	1	10/31/2024	11:36:44 PM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
75	N069574-001A-MSD	MSD	1	10/31/2024	11:39:01 PM
76	N069574-002A	SAMP	1	10/31/2024	11:41:18 PM
77	N069575-001A	SAMP	1	10/31/2024	11:43:35 PM
78	N069575-002A	SAMP	1	10/31/2024	11:45:52 PM
79	CCV6	CCV	1	10/31/2024	11:48:09 PM
80	CCB6	CCB	1	10/31/2024	11:50:26 PM
81	N069575-003A	SAMP	1	10/31/2024	11:52:43 PM
82	N069575-004A	SAMP	1	10/31/2024	11:55:01 PM
83	N069575-005A	SAMP	1	10/31/2024	11:57:18 PM
84	N069575-006A	SAMP	1	10/31/2024	11:59:35 PM
85	N069575-007A	SAMP	1	11/1/2024	12:01:51 AM
86	N069575-008A	SAMP	1	11/1/2024	12:04:08 AM
87	N069575-009A	SAMP	1	11/1/2024	12:06:25 AM
88	N069576-001A	SAMP	1	11/1/2024	12:15:23 AM
89	N069576-002A	SAMP	1	11/1/2024	12:17:40 AM
90	N069577-001A	SAMP	1	11/1/2024	12:19:57 AM
91	CCV7	CCV	1	11/1/2024	12:22:14 AM
92	CCB7	CCB	1	11/1/2024	12:24:31 AM
93	N069578-001A	SAMP	1	11/1/2024	12:26:48 AM
94	N069578-002A	SAMP	1	11/1/2024	12:29:05 AM
95	N069579-001A	SAMP	1	11/1/2024	12:31:22 AM
96	CCV8	CCV	1	11/1/2024	12:33:39 AM
97	CCB8	CCB	1	11/1/2024	12:35:56 AM
98	ICSA3	ICSA	1	11/1/2024	12:38:13 AM
99	ICSAB3	ICSAB	1	11/1/2024	12:40:31 AM
100	MB-113742	MBLK	1	11/1/2024	12:42:48 AM
101	MB-113711 TCLP	MBLK	1	11/1/2024	12:45:05 AM
102	LCS-113742	LCS	1	11/1/2024	12:47:22 AM
103	N069474-003A	SAMP	1	11/1/2024	12:49:39 AM
104	N069474-003A	SAMP	5	11/1/2024	12:51:56 AM
105	N069474-003A-PS	PS	1	11/1/2024	12:54:13 AM
106	N069474-003A-MS	MS	1	11/1/2024	12:56:30 AM
107	N069474-003A-MSD	MSD	1	11/1/2024	12:58:47 AM
108	N069528-001B	SAMP	1	11/1/2024	1:01:04 AM
109	N069528-002A	SAMP	1	11/1/2024	1:03:21 AM
110	CCV9	CCV	1	11/1/2024	1:05:37 AM
111	CCB9	CCB	1	11/1/2024	1:07:54 AM
112	N069531-001A	SAMP	1	11/1/2024	1:10:11 AM
113	N069534-001A	SAMP	1	11/1/2024	1:12:28 AM
114	N069534-002A	SAMP	1	11/1/2024	1:14:45 AM
115	N069534-003A	SAMP	1	11/1/2024	1:17:02 AM
116	N069534-004A	SAMP	1	11/1/2024	1:19:19 AM
117	N069534-005A	SAMP	1	11/1/2024	1:21:36 AM
118	N069534-006A	SAMP	1	11/1/2024	1:23:53 AM
119	N069535-001A	SAMP	1	11/1/2024	1:26:10 AM
120	N069535-002A	SAMP	1	11/1/2024	1:28:27 AM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
121	N069535-003A	SAMP	1	11/1/2024	1:30:44 AM
122	CCV10	CCV	1	11/1/2024	1:33:01 AM
123	CCB10	CCB	1	11/1/2024	1:35:18 AM
124	N069535-004A	SAMP	1	11/1/2024	1:37:35 AM
125	N069535-005A	SAMP	1	11/1/2024	1:39:52 AM
126	N069535-006A	SAMP	1	11/1/2024	1:42:09 AM
127	N069535-007A	SAMP	1	11/1/2024	1:44:26 AM
128	N069540-001A	SAMP	1	11/1/2024	1:46:43 AM
129	N069541-001A	SAMP	1	11/1/2024	1:48:59 AM
130	CCV11	CCV	1	11/1/2024	1:51:16 AM
131	CCB11	CCB	1	11/1/2024	1:53:33 AM
132	ICSA4	ICSA	1	11/1/2024	1:55:51 AM
133	ICSAB4	ICSAB	1	11/1/2024	1:58:08 AM
134	MB-113741	MBLK	1	11/1/2024	2:00:25 AM
135	MB-113682 STLC	MBLK	5	11/1/2024	2:02:43 AM
136	LCS-113741	LCS	1	11/1/2024	2:05:01 AM
137	N069495-001A	SAMP	5	11/1/2024	2:07:19 AM
138	N069496-001A	SAMP	5	11/1/2024	2:09:37 AM
139	N069496-002A	SAMP	5	11/1/2024	2:11:54 AM
140	N069496-003A	SAMP	5	11/1/2024	2:14:12 AM
141	N069496-003A	SAMP	25	11/1/2024	2:16:29 AM
142	N069496-003A-PS	PS	5	11/1/2024	2:18:47 AM
143	N069496-003A-MS	MS	5	11/1/2024	2:21:05 AM
144	CCV12	CCV	1	11/1/2024	2:23:22 AM
145	CCB12	CCB	1	11/1/2024	2:25:39 AM
146	N069496-003A-MSD	MSD	5	11/1/2024	2:27:57 AM
147	N069496-004A	SAMP	5	11/1/2024	2:30:15 AM
148	N069496-005A	SAMP	5	11/1/2024	2:32:33 AM
149	N069496-006A	SAMP	5	11/1/2024	2:34:50 AM
150	N069496-007A	SAMP	5	11/1/2024	2:37:08 AM
151	N069497-001A	SAMP	5	11/1/2024	2:39:27 AM
152	N069496-004A	SAMP	5	11/1/2024	2:41:44 AM
153	CCV13	CCV	1	11/1/2024	2:44:02 AM
154	CCB13	CCB	1	11/1/2024	2:46:19 AM
155	MB-113745	MBLK	1	11/1/2024	2:48:36 AM
156	LCS-113745	LCS	1	11/1/2024	2:50:55 AM
157	N069583-001B	SAMP	1	11/1/2024	2:53:12 AM
158	N069583-002B	SAMP	1	11/1/2024	2:55:30 AM
159	N069583-003B	SAMP	1	11/1/2024	2:57:48 AM
160	N069583-003B	SAMP	5	11/1/2024	3:00:06 AM
161	N069583-003B-PS	PS	1	11/1/2024	3:02:24 AM
162	N069583-003BMS	MS	1	11/1/2024	3:04:42 AM
163	N069583-003BMSD	MSD	1	11/1/2024	3:06:59 AM
164	N069583-004B	SAMP	1	11/1/2024	3:09:17 AM
165	CCV14	CCV	1	11/1/2024	3:11:34 AM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
166	CCB14	CCB	1	11/1/2024	3:13:51 AM
167	N069583-006B	SAMP	1	11/1/2024	3:16:09 AM
168	N069583-008B	SAMP	1	11/1/2024	3:18:26 AM
169	N069583-009B	SAMP	1	11/1/2024	3:20:44 AM
170	N069583-010B	SAMP	1	11/1/2024	3:23:02 AM
171	N060585-001B	SAMP	1	11/1/2024	3:25:20 AM
172	CCV15	CCV	1	11/1/2024	3:27:37 AM
173	CCB15	CCB	1	11/1/2024	3:29:54 AM
174	ICSA5	ICSA	1	11/1/2024	3:32:11 AM
175	ICSAB5	ICSAB	1	11/1/2024	3:34:27 AM

SAMPLE PREPARATION LOG



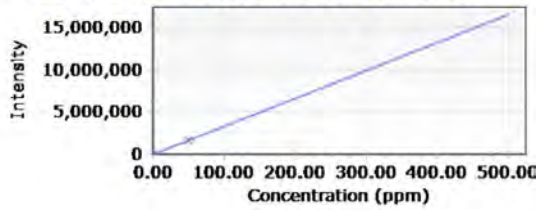
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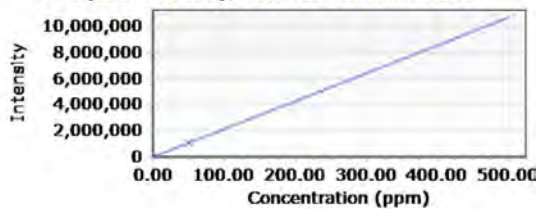
Cu I (324.754 nm), Interferent Calibration



Intensity = 33101.85948620 * Concentration + 684.20878678
 Correlation coefficient: 1.00000
 %RSE:N/A

Standards	Intensity	Method Conc	Calculated Conc	% Error
IEC Blank	684.20879	0.00000	0.00000	N/A
Interferent 09 (Cu)	1655777.1 8310	50.00000	50.00000	0.00000

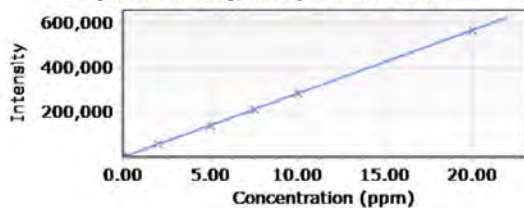
Fe I (239.563 nm), Interferent Calibration



Intensity = 21449.83771380 * Concentration + 29.10415739
 Correlation coefficient: 1.00000
 %RSE:N/A

Standards	Intensity	Method Conc	Calculated Conc	% Error
IEC Blank	29.10416	0.00000	0.00000	N/A
Interferent 10 (Fe)	1072520.9 8985	50.00000	50.00000	0.00000

Fe (259.940 nm), Analyte Calibration

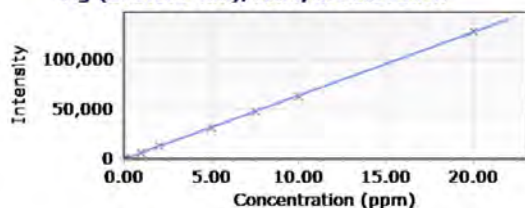


Intensity = 28506.87829741 * Concentration + 172.91935323
 Correlation coefficient: 1.00000
 %RSE:11.35463321

Standards	Intensity	Method Conc	Calculated Conc	% Error
Blank	43.61119	0.00000	-0.00454	N/A

Standards	Intensity	Method Conc	Calculated Conc	% Error
Standard 1	619.06346	0.02000	0.01565	21.74799
Standard 2	1784.95303	0.05000	0.05655	13.09787
Standard 3	57360.57937	2.00000	2.00610	0.30502
Standard 4	142722.24049	5.00000	5.00052	0.01047
Standard 5	213935.11087	7.50000	7.49862	0.01843
Standard 6	285074.83872	10.00000	9.99415	0.05853
Standard 7	569680.22094	20.00000	19.97789	0.11055

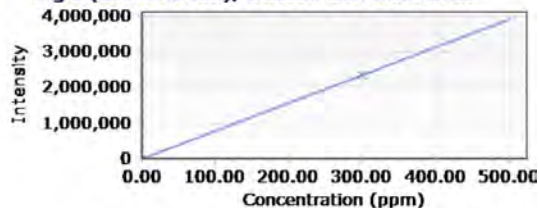
Mg (279.078 nm), Analyte Calibration



Intensity = 6435.13703482 * Concentration + 39.92635937
 Correlation coefficient: 0.99998
 %RSE:2.79435040

Standards	Intensity	Method Conc	Calculated Conc	% Error
Blank	28.63960	0.00000	-0.00175	N/A
Standard 1	718.20707	0.10000	0.10540	5.40268
Standard 2	6663.03831	1.00000	1.02921	2.92107
Standard 3	12905.27897	2.00000	1.99924	0.03824
Standard 4	32181.39524	5.00000	4.99468	0.10634
Standard 5	47854.41086	7.50000	7.43022	0.93040
Standard 6	64004.43082	10.00000	9.93988	0.60118
Standard 7	129107.81821	20.00000	20.05674	0.28372

Mg I (279.078 nm), Interferent Calibration



Intensity = 7830.79440384 * Concentration + 25.13274543

INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 10/31/2024 9:00:41 AM

Reviewed/ Date: d/Rocha 12/2/2024

Page: 1 of 2

Prep End Date: 10/31/2024 1:00:00 PM

Initials/ Date: for

Prep Factor Units Temp. (°C): Location:

Prep Batch 113745 Prep Code:3010_W_DISS

Technician: Jocelyn Rivera

mL / mL

95 DB-4-38

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-113745	Aqueous		25	<input type="checkbox"/>	25	1.000		
50ML LOT # MP3971								
LCS2-113745	Aqueous	<2	25	<input type="checkbox"/>	25	1.000		
MB-113745	Aqueous		25	<input type="checkbox"/>	25	1.000		
THERMOMETER ID: DIGESTION 7								
N069583-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-002B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-003B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-003BMS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-003BMSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-004B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-006B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-008B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-009B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-010B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17140	NITRIC ACID
17147	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
MSST-231025E	Sodium	LCS,MS,MSD	0.025
MSST-231025F	Potassium	LCS,MS,MSD	0.025
MWST-240820AA	ICP Solution C	LCS,MS,MSD	0.5
MWST-240820Y	ICP Solution A	LCS,MS,MSD	0.5
MWST-240820Z	ICP Solution B	LCS,MS,MSD	0.5

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 10/31/2024 9:00:41 AM

Reviewed/ Date: M Rocha 12/2/2024

Page 2 of 2

Prep End Date: 10/31/2024 1:00:00 PM

Initials/ Date: for

Prep Factor Units Temp. (°C): Location:

Prep Batch 113745 Prep Code:3010_W_DISS

Technician: Jocelyn Rivera

mL / mL

95 DB-4-38

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N069585-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069585-001B-MS2	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069585-001B-MSD2	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17140	NITRIC ACID
17147	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
MSST-231025E	Sodium	LCS,MS,MSD	0.025
MSST-231025F	Potassium	LCS,MS,MSD	0.025
MWST-240820AA	ICP Solution C	LCS,MS,MSD	0.5
MWST-240820Y	ICP Solution A	LCS,MS,MSD	0.5
MWST-240820Z	ICP Solution B	LCS,MS,MSD	0.5

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICV	SampType: ICV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: ICV	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281531						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10032.600	20	10000	0	100	90	110				
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Sample ID: LLCCV1	SampType: CCV1	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: ZZZZZZ	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281533						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	16.010	20	20.00	0	80.1	80	120				
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Sample ID: CCV1	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCV	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281547						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10183.530	20	10000	0	102	90	110				
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Sample ID: CCV2	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCV	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281559						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10145.520	20	10000	0	101	90	110				
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Sample ID: CCV3	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCV	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281571						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10145.100	20	10000	0	101	90	110				
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: CCV4	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCV	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281583						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10131.710	20	10000	0	101	90	110				
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Sample ID: CCV5	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCV	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281587						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10138.160	20	10000	0	101	90	110				
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Sample ID: CCV6	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCV	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281601						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10247.030	20	10000	0	102	90	110				
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Sample ID: CCV7	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCV	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6281613						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10205.440	20	10000	0	102	90	110				
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Sample ID: CCV8	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCV	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6281618						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10201.890	20	10000	0	102	90	110				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPB

Sample ID: CCV9	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCV	Batch ID: R195107	TestNo: EPA 6010B	Analysis Date: 11/1/2024	SeqNo: 6281632							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10120.330	20	10000	0	101	90	110				
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Sample ID: CCV10	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCV	Batch ID: R195107	TestNo: EPA 6010B	Analysis Date: 11/1/2024	SeqNo: 6281644							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10105.620	20	10000	0	101	90	110				
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Sample ID: CCV11	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCV	Batch ID: R195107	TestNo: EPA 6010B	Analysis Date: 11/1/2024	SeqNo: 6281652							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10075.690	20	10000	0	101	90	110				
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Sample ID: CCV12	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCV	Batch ID: R195107	TestNo: EPA 6010B	Analysis Date: 11/1/2024	SeqNo: 6281666							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10135.220	20	10000	0	101	90	110				
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Sample ID: CCV13	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCV	Batch ID: R195107	TestNo: EPA 6010B	Analysis Date: 11/1/2024	SeqNo: 6281675							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10094.420	20	10000	0	101	90	110				
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Qualifiers:

B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit	R RPD outside accepted recovery limits	S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out	Calculations are based on raw values	(M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPB

Sample ID: CCV14	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCV	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6281687						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10080.470	20	10000	0	101	90	110				
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Sample ID: CCV15	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCV	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6281694						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10088.880	20	10000	0	101	90	110				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICB	SampType: ICB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: ICB	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281532						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -3.4 20

Sample ID: CCB1	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCB	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281548						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -0.65 20

Sample ID: CCB2	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCB	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281560						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -2.96 20

Sample ID: CCB3	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCB	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281572						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -2.72 20

Sample ID: CCB4	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCB	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281584						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -3.09 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPB

Sample ID: CCB5	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107
Client ID: CCB	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281588
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Iron	-2.99	20
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Sample ID: CCB6	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107
Client ID: CCB	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281602
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Iron	4.860	20
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Sample ID: CCB7	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107
Client ID: CCB	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6281614
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Iron	3.720	20
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Sample ID: CCB8	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107
Client ID: CCB	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6281619
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Iron	2.200	20
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Sample ID: CCB9	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107
Client ID: CCB	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6281633
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Iron	-1.	20
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPB

Sample ID: CCB10	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCB	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6281645						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	-2.37	20									
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Sample ID: CCB11	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCB	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6281653						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	-2.41	20									
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Sample ID: CCB12	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCB	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6281667						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	-2.27	20									
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Sample ID: CCB13	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCB	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6281676						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	-2.02	20									
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Sample ID: CCB14	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCB	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6281688						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	-2.11	20									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID: CCB15	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCB	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6281695						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	-2.31	20									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out

E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values

H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
(M) Test is modified

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPB

Sample ID: ICSA1	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: ICSA	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281535						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10256.820	50	10000	0	103	80	120				
Calcium	9975.130	500	10000	0	99.8	80	120				
Iron	10555.780	20	10000	0	106	80	120				
Magnesium	9999.140	100	10000	0	100	80	120				

Sample ID: ICSA1	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: ICSA	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281536						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10234.200	50	10000	0	102	80	120				
Calcium	9823.670	500	10000	0	98.2	80	120				
Iron	10339.020	20	10000	0	103	80	120				
Magnesium	9816.300	100	10000	0	98.2	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: ICSA	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281589						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10245.250	50	10000	0	102	80	120				
Calcium	9833.600	500	10000	0	98.3	80	120				
Iron	10544.010	20	10000	0	105	80	120				
Magnesium	9819.760	100	10000	0	98.2	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: ICSA	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281590						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10237.550	50	10000	0	102	80	120				
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICSAB2		SampType: ICSAB		TestCode: 6010_WDPG		Units: µg/L		Prep Date:		RunNo: 195107		
Client ID: ICSAB		Batch ID: R195107		TestNo: EPA 6010B				Analysis Date: 10/31/2024		SeqNo: 6281590		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Calcium	9652.610	500	10000	0	96.5	80	120					
Iron	10327.070	20	10000	0	103	80	120					
Magnesium	9696.800	100	10000	0	97.0	80	120					

Sample ID: ICSA3		SampType: ICSA		TestCode: 6010_WDPG		Units: µg/L		Prep Date:		RunNo: 195107		
Client ID: ICSA		Batch ID: R195107		TestNo: EPA 6010B				Analysis Date: 11/1/2024		SeqNo: 6281620		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	10235.630	50	10000	0	102	80	120					
Calcium	9820.160	500	10000	0	98.2	80	120					
Iron	10572.800	20	10000	0	106	80	120					
Magnesium	9854.340	100	10000	0	98.5	80	120					

Sample ID: ICSAB3		SampType: ICSAB		TestCode: 6010_WDPG		Units: µg/L		Prep Date:		RunNo: 195107		
Client ID: ICSAB		Batch ID: R195107		TestNo: EPA 6010B				Analysis Date: 11/1/2024		SeqNo: 6281621		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	10231.390	50	10000	0	102	80	120					
Calcium	9677.340	500	10000	0	96.8	80	120					
Iron	10306.690	20	10000	0	103	80	120					
Magnesium	9753.770	100	10000	0	97.5	80	120					

Sample ID: ICSA4		SampType: ICSA		TestCode: 6010_WDPG		Units: µg/L		Prep Date:		RunNo: 195107		
Client ID: ICSA		Batch ID: R195107		TestNo: EPA 6010B				Analysis Date: 11/1/2024		SeqNo: 6281654		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	10224.200	50	10000	0	102	80	120					
Calcium	9843.160	500	10000	0	98.4	80	120					
Iron	10494.840	20	10000	0	105	80	120					

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICSA4	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: ICSA	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6281654						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Magnesium	9861.420	100	10000	0	98.6	80	120				
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Sample ID: ICSA4	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: ICSA	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6281655						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10242.100	50	10000	0	102	80	120				
Calcium	9679.900	500	10000	0	96.8	80	120				
Iron	10285.640	20	10000	0	103	80	120				
Magnesium	9750.700	100	10000	0	97.5	80	120				

Sample ID: ICSA5	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: ICSA	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6281696						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10226.750	50	10000	0	102	80	120				
Calcium	9849.760	500	10000	0	98.5	80	120				
Iron	10442.080	20	10000	0	104	80	120				
Magnesium	9884.860	100	10000	0	98.8	80	120				

Sample ID: ICSA5	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: ICSA	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6281697						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10247.350	50	10000	0	102	80	120				
Calcium	9713.250	500	10000	0	97.1	80	120				
Iron	10247.340	20	10000	0	102	80	120				
Magnesium	9776.930	100	10000	0	97.8	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

INTERNAL STANDARD SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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NEVADA
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P: 702.307.2659 F: 702.307.2691

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INTERNAL STANDARD: 241031A

Instrument ID: NV00922-ICP4

Sample Name	Type	DF	Yttrium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
Blank	BLK	1	1	100	65-125	PASS
Standard 1	ICAL	1	1.03	103	65-125	PASS
Standard 2	ICAL	1	1.04	104	65-125	PASS
Standard 3	ICAL	1	1.05	105	65-125	PASS
Standard 4	ICAL	1	1.05	105	65-125	PASS
Standard 5	ICAL	1	1.05	105	65-125	PASS
Standard 6	ICAL	1	1.06	106	65-125	PASS
Standard 7	ICAL	1	1.06	106	65-125	PASS
ICV	ICV	1	1.06	106	65-125	PASS
ICB	ICB	1	1.07	107	65-125	PASS
LLCCV1	CCV1	1	1.08	108	65-125	PASS
LLCCV2	CCV1	1	1.08	108	65-125	PASS
ICSA1	ICSA	1	1.1	110	65-125	PASS
ICSAB1	ICSAB	1	1.11	111	65-125	PASS
LLCCV1	CCV1	1	1.08	108	65-125	PASS
CCV1	CCV	1	1.09	109	65-125	PASS
CCB1	CCB	1	1.1	110	65-125	PASS
CCV2	CCV	1	1.12	112	65-125	PASS
CCB2	CCB	1	1.12	112	65-125	PASS
CCV3	CCV	1	1.13	113	65-125	PASS
CCB3	CCB	1	1.13	113	65-125	PASS
CCV4	CCV	1	1.14	114	65-125	PASS
CCB4	CCB	1	1.13	113	65-125	PASS
CCV5	CCV	1	1.14	114	65-125	PASS
CCB5	CCB	1	1.13	113	65-125	PASS
ICSA2	ICSA	1	1.16	116	65-125	PASS
ICSAB2	ICSAB	1	1.16	116	65-125	PASS
CCV6	CCV	1	1.14	114	65-125	PASS
CCB6	CCB	1	1.13	113	65-125	PASS
CCV7	CCV	1	1.14	114	65-125	PASS
CCB7	CCB	1	1.13	113	65-125	PASS
CCV8	CCV	1	1.13	113	65-125	PASS
CCB8	CCB	1	1.13	113	65-125	PASS
ICSA3	ICSA	1	1.15	115	65-125	PASS
ICSAB3	ICSAB	1	1.16	116	65-125	PASS
CCV9	CCV	1	1.14	114	65-125	PASS
CCB9	CCB	1	1.13	113	65-125	PASS
CCV10	CCV	1	1.13	113	65-125	PASS
CCB10	CCB	1	1.12	112	65-125	PASS
CCV11	CCV	1	1.14	114	65-125	PASS
CCB11	CCB	1	1.13	113	65-125	PASS

INTERNAL STANDARD: 241031A

Instrument ID: NV00922-ICP4

Sample Name	Type	DF	Yttrium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
ICSA4	ICSA	1	1.12	112	65-125	PASS
ICSAB4	ICSAB	1	1.16	116	65-125	PASS
CCV12	CCV	1	1.12	112	65-125	PASS
CCB12	CCB	1	1.12	112	65-125	PASS
CCV13	CCV	1	1.12	112	65-125	PASS
CCB13	CCB	1	1.12	112	65-125	PASS
MB-113745	MBLK	1	1.12	112	65-125	PASS
LCS-113745	LCS	1	1.07	107	65-125	PASS
N069583-001B	SAMP	1	1.11	111	65-125	PASS
N069583-002B	SAMP	1	1.06	106	65-125	PASS
N069583-003B	SAMP	1	1.05	105	65-125	PASS
N069583-003B	SAMP	5	1.11	111	65-125	PASS
N069583-003B-PS	PS	1	1	100	65-125	PASS
N069583-003BMS	MS	1	1.06	106	65-125	PASS
N069583-003BMSD	MSD	1	1.06	106	65-125	PASS
N069583-004B	SAMP	1	1.05	105	65-125	PASS
CCV14	CCV	1	1.13	113	65-125	PASS
CCB14	CCB	1	1.12	112	65-125	PASS
N069583-006B	SAMP	1	1.1	110	65-125	PASS
N069583-008B	SAMP	1	1.06	106	65-125	PASS
N069583-009B	SAMP	1	1.02	102	65-125	PASS
N069583-010B	SAMP	1	1.01	101	65-125	PASS
N060585-001B	SAMP	1	1.1	110	65-125	PASS
CCV15	CCV	1	1.13	113	65-125	PASS
CCB15	CCB	1	1.12	112	65-125	PASS
ICSA5	ICSA	1	1.11	111	65-125	PASS
ICSAB5	ICSAB	1	1.16	116	65-125	PASS

SERIAL DILUTION/ POST DIGESTION SPIKE



ASSET LABORATORIES
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ASSET Laboratories

ICP-Metals in Water

Work Order No.: N069583
Test Method: EPA 6010B
Analysis Date: 11/1/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 113745

Instrument ID: NV00922-ICP4
Instrument Description: Agilent 5800VDV

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Fe. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069583-003B DT 5x	Iron	Fe	µg/L	124.8	NA	145.67	14.33%	10

Reviewed by:

d/Rocha 12/2/2024

Note: NA - Not Applicable

11/19/24 17:55

N069583_6010B_113745_DT

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID: N069583-003B-PS	SampType: PS	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: ZZZZZZ	Batch ID: 113745	TestNo: EPA 6010B EPA 3010A	Analysis Date: 11/1/2024	SeqNo: 6281683							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	263.690	20	100.0	145.7	118	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

MDL STUDY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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P: 702.307.2659 F: 702.307.2691

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Method Detection Limits

Analytical Method: EPA 6010B
Digestion Method: 3010_W
Digestion Date: 1/31/2024-2/16/24
Instrument Name: ICP2/ ICP3
Analyst/Technician: DJ

Matrix: WATER
Unit: mg/L

Analyte	1	2	3	4	5	6	7	SD	AMT SPIKED (ppm)	MDLs	PQL	MDL
Beryllium	0.0010	0.0010	0.0010	0.0012	0.0012	0.0009	0.0009	0.00013	0.0010	0.00042	0.0010	0.0004
Boron	0.1015	0.0996	0.0981	0.0955	0.0962	0.0921	0.0811	0.00679	0.1000	0.02134	0.1000	0.0519
Magnesium	0.1018	0.1005	0.1004	0.1023	0.1006	0.0924	0.0926	0.00426	0.1000	0.01340	0.1000	0.0134
Silicon	0.0175	0.0205	0.0214	0.0114	0.0100	0.0210	0.0211	0.00489	0.0200	0.01537	0.0200	0.0154
Chromium	0.0009	0.0009	0.0009	0.0011	0.0009	0.0009	0.0010	0.00007	0.0010	0.00023	0.0010	0.0002
Manganese	0.0096	0.0095	0.0093	0.0101	0.0102	0.0102	0.0104	0.00042	0.0100	0.00133	0.0100	0.0013
Iron	0.0219	0.0207	0.0210	0.0226	0.0224	0.0193	0.0175	0.00184	0.0200	0.00577	0.0200	0.0058
Cobalt	0.0020	0.0018	0.0019	0.0019	0.0018	0.0021	0.0020	0.00013	0.0025	0.00039	0.0025	0.0004
Nickel	0.0055	0.0055	0.0052	0.0028	0.0033	0.0048	0.0047	0.00109	0.0050	0.00342	0.0050	0.0034
Copper	0.0056	0.0058	0.0054	0.0063	0.0058	0.0050	0.0053	0.00041	0.0050	0.00128	0.0050	0.0014
Zinc	0.0110	0.0103	0.0100	0.0106	0.0108	0.0092	0.0088	0.00086	0.0100	0.00269	0.0100	0.0027
Arsenic	0.0100	0.0080	0.0060	0.0084	0.0112	0.0132	0.0065	0.00256	0.0100	0.00805	0.0100	0.0081
Selenium	0.0110	0.0126	0.0120	0.0079	0.0137	0.0079	0.0072	0.00264	0.0100	0.00829	0.0100	0.0083
Molybdenum	0.0056	0.0053	0.0057	0.0044	0.0045	0.0051	0.0044	0.00056	0.0050	0.00177	0.0050	0.0018
Silver	0.0025	0.0025	0.0024	0.0019	0.0018	0.0033	0.0031	0.00056	0.0025	0.00175	0.0025	0.0018
Cadmium	0.0027	0.0026	0.0026	0.0016	0.0018	0.0023	0.0025	0.00043	0.0025	0.00136	0.0025	0.0014
Tin	0.0104	0.0095	0.0097	0.0114	0.0111	0.0087	0.0089	0.00104	0.0100	0.00328	0.0100	0.0033
Antimony	0.0090	0.0093	0.0110	0.0136	0.0122	0.0112	0.0087	0.00180	0.0100	0.00565	0.0100	0.0056
Barium	0.0026	0.0026	0.0026	0.0028	0.0028	0.0024	0.0024	0.00016	0.0025	0.00051	0.0025	0.0005
Thallium	0.0172	0.0169	0.0170	0.0165	0.0144	0.0131	0.0130	0.00188	0.0150	0.00592	0.0150	0.0059
Lead	0.0058	0.0060	0.0061	0.0046	0.0083	0.0049	0.0048	0.00125	0.0050	0.00393	0.0050	0.0039
Calcium	0.2188	0.2125	0.2073	0.2186	0.2230	0.1767	0.1699	0.02155	0.2000	0.06772	0.2000	0.0677
Vanadium	0.0026	0.0025	0.0027	0.0030	0.0029	0.0024	0.0023	0.00026	0.0025	0.00081	0.0025	0.0008
Aluminum	0.0523	0.0513	0.0508	0.0490	0.0501	0.0509	0.0482	0.00140	0.0500	0.00439	0.0500	0.0044
Titanium	0.0119	0.0116	0.0108	0.0100	0.0103	0.0105	0.0107	0.00069	0.0100	0.00216	0.0100	0.0022

Method Detection Limits (Blanks)

Analyte	1	2	3	4	5	6	7	SD	Average	MDLb
Beryllium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00006	0.0000	0.00019
Boron	0.000	0.000	-0.001	-0.005	-0.006	-0.045	-0.047	0.02126	-0.0149	0.05194
Magnesium	-0.001	-0.001	-0.001	0.000	0.001	0.000	-0.001	0.00074	-0.0004	0.00192
Silicon	-0.001	-0.004	-0.004	-0.002	-0.001	-0.012	-0.011	0.00477	-0.0049	0.01013
Chromium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00004	-0.0001	0.00008
Manganese	-0.001	-0.001	-0.001	0.000	0.000	0.000	0.000	0.00044	-0.0005	0.00090
Iron	0.000	0.000	0.000	-0.001	-0.001	-0.003	-0.003	0.00140	-0.0010	0.00337
Cobalt	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00012	-0.0001	0.00029
Nickel	0.000	0.000	0.000	-0.002	-0.002	0.000	0.000	0.00089	-0.0006	0.00224
Copper	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.00033	0.0003	0.00138
Zinc	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.00033	0.0000	0.00102
Arsenic	-0.001	-0.003	0.000	0.000	0.000	0.000	0.000	0.00091	-0.0007	0.00221
Selenium	0.004	0.000	0.002	0.001	0.003	-0.001	0.002	0.00153	0.0017	0.00649
Molybdenum	0.000	0.000	0.000	-0.001	-0.001	0.000	0.000	0.00032	-0.0003	0.00074
Silver	-0.001	-0.001	-0.001	-0.001	-0.001	0.000	0.000	0.00049	-0.0007	0.00083
Cadmium	0.000	0.000	0.000	-0.001	0.000	0.000	0.000	0.00029	-0.0001	0.00081
Tin	-0.001	-0.001	-0.001	0.001	0.000	0.000	-0.001	0.00063	-0.0005	0.00150
Antimony	0.000	-0.001	0.000	0.000	-0.001	0.004	0.000	0.00161	0.0002	0.00524
Barium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00008	0.0000	0.00025
Thallium	0.001	0.000	0.002	0.001	0.000	-0.001	-0.001	0.00104	0.0002	0.00343
Lead	0.000	-0.001	-0.001	-0.001	0.000	0.001	-0.001	0.00068	-0.0004	0.00173
Calcium	0.001	0.001	0.001	-0.003	-0.005	-0.003	-0.017	0.00638	-0.0036	0.01650
Vanadium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00012	0.0000	0.00038
Aluminum	0.000	0.001	0.001	-0.001	-0.001	-0.001	-0.002	0.00105	-0.0003	0.00300
Titanium	0.001	0.000	0.001	-0.001	-0.001	-.00003	0.000	0.00064	0.0000	0.00199

Note: Higher value between MDLs and MDLb will be used.

Method Detection Limits

Analytical Method: EPA 6010B
Digestion Method: EPA 3010A
Digestion Date: 2/8-2/12/2024
Analysis Date: 2/16-2/23/2024
Instrument Name: ICP-04
Analyst/Technician: NS/DBJ

Matrix: WATER
Unit: mg/L

Analyte	1	2	3	4	5	6	7	SD	AMT SPIKED (ppm)	MDLs	PQL	MDL
Beryllium	0.00096	0.00098	0.00096	0.00094	0.00114	0.00100	0.00093	0.00007	0.0010	0.00022	0.0010	0.0004
Boron	0.09627	0.09657	0.09643	0.09117	0.09044	0.09475	0.09499	0.00255	0.1000	0.00800	0.1000	0.0080
Magnesium	0.10052	0.10036	0.09959	0.10705	0.10731	0.09987	0.10054	0.00344	0.1000	0.01079	0.1000	0.0153
Silicon	0.01997	0.01949	0.01947	0.02053	0.02103	0.02063	0.02079	0.00063	0.0200	0.00198	0.0200	0.0020
Chromium	0.00100	0.00096	0.00096	0.00116	0.00117	0.00109	0.00115	0.00009	0.0010	0.00030	0.0010	0.0005
Manganese	0.00965	0.00966	0.00962	0.00727	0.00736	0.00964	0.00963	0.00113	0.0100	0.00356	0.0100	0.0037
Iron	0.01670	0.01666	0.01669	0.01930	0.01911	0.01418	0.01399	0.00209	0.0200	0.00657	0.0200	0.0066
Cobalt	0.00276	0.00227	0.00246	0.00248	0.00246	0.00188	0.00221	0.00028	0.0025	0.00087	0.0025	0.0009
Nickel	0.00479	0.00493	0.00510	0.00476	0.00489	0.00457	0.00453	0.00020	0.0050	0.00063	0.0050	0.0006
Copper	0.00508	0.00506	0.00488	0.00503	0.00521	0.00474	0.00486	0.00016	0.0050	0.00050	0.0050	0.0005
Zinc	0.01247	0.01227	0.01233	0.01015	0.01017	0.00939	0.00952	0.00139	0.0100	0.00438	0.0100	0.0044
Arsenic	0.00990	0.00949	0.00882	0.01052	0.01052	0.01070	0.01000	0.00067	0.0100	0.00210	0.0100	0.0021
Selenium	0.00898	0.00986	0.01063	0.01176	0.01126	0.01021	0.01046	0.00091	0.0100	0.00286	0.0100	0.0032
Molybdenum	0.00546	0.00537	0.00512	0.00602	0.00529	0.00458	0.00502	0.00044	0.0050	0.00139	0.0050	0.0021
Silver	0.00245	0.00240	0.00249	0.00200	0.00194	0.00221	0.00211	0.00022	0.0025	0.00070	0.0025	0.0010
Cadmium	0.00248	0.00248	0.00244	0.00239	0.00240	0.00219	0.00224	0.00012	0.0025	0.00036	0.0025	0.0004
Tin	0.00982	0.01010	0.00968	0.01041	0.01050	0.00990	0.00999	0.00030	0.0100	0.00095	0.0100	0.0010
Antimony	0.01076	0.01056	0.00998	0.01034	0.01208	0.00938	0.00979	0.00087	0.0100	0.00274	0.0100	0.0027
Barium	0.00266	0.00257	0.00258	0.00258	0.00257	0.00249	0.00254	0.00005	0.0025	0.00016	0.0025	0.0008
Thallium	0.01580	0.01557	0.01597	0.01222	0.01292	0.01486	0.01560	0.00151	0.0150	0.00475	0.0150	0.0048
Lead	0.00431	0.00500	0.00446	0.00447	0.00503	0.00422	0.00371	0.00046	0.0050	0.00144	0.0050	0.0014
Calcium	0.20228	0.20108	0.20096	0.20023	0.20038	0.19290	0.19351	0.00386	0.2000	0.01211	0.2000	0.0121
Vanadium	0.00265	0.00253	0.00241	0.00232	0.00229	0.00240	0.00246	0.00012	0.0025	0.00039	0.0025	0.0006
Aluminum	0.05361	0.05332	0.05336	0.05134	0.05238	0.05032	0.04987	0.00153	0.0500	0.00482	0.0500	0.0075
Titanium	0.01017	0.01017	0.01014	0.01005	0.01003	0.01004	0.01004	0.00007	0.0100	0.00020	0.0100	0.0012
Sodium	0.10464	0.10886	0.11103	0.10060	0.10108	0.10829	0.10960	0.00421	0.1000	0.01321	0.1000	0.0132
Strontium	0.02468	0.02576	0.02592	0.02543	0.02579	0.02513	0.02569	0.00044	0.0250	0.00139	0.0250	0.0014

BLANK

Analyte	1	2	3	4	5	6	7	SD	Average	MDL	PQL
Beryllium	-0.00048	-0.00014	-0.00014	0.00001	0.00001	-0.00003	-0.00002	0.00017	-0.00011	0.00043	0.0010
Boron	-0.00209	-0.00259	-0.00248	-0.00694	-0.00772	-0.00175	-0.00221	0.00252	-0.00368	0.00423	0.1000
Magnesium	0.00244	0.00147	0.00205	0.00943	0.00934	0.00459	0.00401	0.00334	0.00476	0.01526	0.1000
Silicon	-0.00009	-0.00039	-0.00061	-0.00016	-0.00044	-0.00044	-0.00071	0.00022	-0.00041	0.00029	0.0200
Chromium	0.00017	0.00009	0.00006	0.00027	0.00032	0.00008	0.00012	0.00010	0.00016	0.00047	0.0010
Manganese	-0.00054	-0.00051	-0.00054	-0.00311	-0.00312	0.00037	0.00037	0.00149	-0.00101	0.00368	0.0100
Iron	-0.00361	-0.00368	-0.00350	-0.00126	-0.00121	0.00037	-0.00627	0.00219	-0.00274	0.00416	0.0200
Cobalt	-0.00033	0.00009	-0.00016	-0.00021	-0.00058	-0.00032	-0.00036	0.00021	-0.00027	0.00038	0.0025
Nickel	-0.00036	-0.00009	-0.00024	-0.00021	-0.00033	-0.00022	-0.00023	0.00009	-0.00024	0.00004	0.0050
Copper	0.00005	0.00002	0.00000	0.00019	0.00028	-0.00001	0.00000	0.00011	0.00008	0.00043	0.0050
Zinc	0.00056	-0.00003	-0.00006	-0.00024	-0.00022	-0.00079	-0.00081	0.00047	-0.00023	0.00126	0.0100
Arsenic	-0.00003	-0.00086	-0.00030	-0.00052	0.00012	0.00051	0.00034	0.00049	-0.00011	0.00142	0.0100
Selenium	-0.00105	-0.00101	0.00003	-0.00013	-0.00033	0.00092	0.00175	0.00101	0.00003	0.00321	0.0100
Molybdenum	0.00035	0.00064	-0.00012	0.00102	0.00080	-0.00015	-0.00059	0.00059	0.00028	0.00212	0.0050
Silver	-0.00021	-0.00023	-0.00022	-0.00146	-0.00143	-0.00071	-0.00064	0.00055	-0.00070	0.00102	0.0025
Cadmium	-0.00003	-0.00002	-0.00003	-0.00008	-0.00009	-0.00026	-0.00030	0.00012	-0.00012	0.00025	0.0025
Tin	-0.00048	-0.00035	0.00010	-0.00014	0.00016	-0.00005	-0.00008	0.00023	-0.00012	0.00060	0.0100
Antimony	0.00008	0.00020	0.00049	-0.00016	0.00141	0.00021	0.00121	0.00059	0.00049	0.00236	0.0100
Barium	0.00006	0.00062	0.00005	0.00003	-0.00010	-0.00003	-0.00006	0.00024	0.00008	0.00085	0.0025
Thallium	0.00113	0.00056	0.00015	0.00095	0.00031	0.00135	0.00088	0.00044	0.00076	0.00214	0.0150
Lead	-0.00006	-0.00093	-0.00022	-0.00025	-0.00031	-0.00180	-0.00134	0.00067	-0.00070	0.00139	0.0050
Calcium	-0.00505	0.00006	0.00001	-0.00038	-0.00024	-0.00119	-0.00204	0.00183	-0.00126	0.00450	0.2000
Vanadium	0.00027	0.00033	0.00044	0.00022	0.00016	0.00010	0.00011	0.00012	0.00023	0.00062	0.0025
Aluminum	0.00375	0.00381	0.00445	0.00041	0.00100	0.00108	0.00110	0.00169	0.00223	0.00754	0.0500
Titanium	0.00001	0.00001	-0.00001	-0.00006	-0.00010	0.00000	0.00088	0.00034	0.00010	0.00119	0.0100
Sodium	0.00136	0.00379	0.00132	-0.00038	-0.00214	-0.00015	0.00331	0.00210	0.00102	0.00761	0.1000
Strontium	-0.00115	-0.00166	-0.00116	-0.00120	-0.00012	-0.00045	-0.00044	0.00055	-0.00088	0.00085	0.0200

Note: ICP-04 is an additional instrument, MDL is within 0.5 to 2.0 of existing MDL. Retain existing MDL.

EPA 6020 Dissolved



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 113746
ASSET #: N069583

Instrument ID: NV00922-ICP8
Analyst: DBJ

Method:
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 11/1/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?		X			X	
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.		X			X	
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)		X			X	
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?		X			X	
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?	X			X		
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits		X			X	
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

%Rec of Se in N069583-003B-PS/MS/MSD failed, low bias. However, LCS passed criteria.
 %Rec of As in CCV7 and CCV8 failed, low bias. For rerun.
 Ba is OLR in N069583-001B, 009B. For dilution.
 Mn is OLR in N069583-004B, 008B, 009B and 010B. For dilution.
 Mn is OLR in N069583-003B (SampRef), PS, MS and MSD. For dilution.
 %RSD of Se in N069583-003BMSD failed. For rerun.
 %RSD of As in N069583-008B failed. For rerun.
 N069583-004B (first run) = 0.15 ug/L ; confirmation: 0.12 ug/L; N069583-004A (218.6) = 2.0 ug/L ; confirmation: 0.10 ug/L

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
2nd Level Reviewer NS 11/12/2024

Date: _____
Date: _____



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 113746
ASSET #: N069583

Instrument ID: NV00922-ICP8
Analyst: DBJ

Method:

- EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 11/3/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)		X			X	
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

As,Se rerun
Ba and Mn dilution.
% Rec of Se in N069583-003B-PS/MS failed. However, LCS passed criteria.
% RSD of As in N069583-003B failed (sample ref). Failed. For rerun.

	Yes	No	N/A
1. All assigned sample(s) analyzed	x		
2. Matrix / units correct	x		
3. Does batch meet QC requirements?	x		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	x		
5. Is first level review correct and complete?	x		

1st Level Reviewer DBJ
2nd Level Reviewer NS 11/12/2024

Date: _____
Date: _____



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 113746
ASSET #: N069583

Instrument ID: NV00922-ICP8
Analyst: DBJ

Method:

EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 11/5/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MMS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.			X			X
24. LCS compounds within control limits.			X			X
25. MS/MSD, RPD's are within control limits			X			X
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

As rerun.

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
2nd Level Reviewer NS 11/12/2024

Date: _____
Date: _____



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 114151
ASSET #: N069583

Instrument ID: NV00922-ICP8
Analyst: DBJ

Method:

- EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 11/16/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MMS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?	X		X	X		X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

Cr confirmation

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
2nd Level Reviewer NS 11/19/2024

Date: _____
Date: _____

SAMPLE CALCULATION



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

SAMPLE CALCULATION

METHOD: EPA 6020
TEST NAME: Heavy Metals by ICP-MS
MATRIX: Groundwater

FORMULA:

Calculate the Molybdenum concentration, in ug/L in the original sample as follows:

$$\text{Molybdenum, ug/L} = A * DF * PF$$

where:

A = ug/L, calculated concentration
DF = Dilution Factor
PF = Final Volume of Digestate, mL / Amount of Sample, mL

For Sample **N069583-009B**, the concentration in ug/L is calculated as follows:


$$\text{Molybdenum, ug/L} = 8.18120 * 1 * (25 / 25)$$

$$\text{Molybdenum, ug/L} = 8.181204$$

Reporting results in two significant figures,

$$\text{Molybdenum, ug/L} = 8.2$$

Reviewed by:

 12/20/2024

% RSD SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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"Serving Clients with Passion and Professionalism"

PERCENT RSD SUMMARY: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	137 Ba [3]				52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.1	28.992	15	<PQL	0.09	22.391	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.48	15.656	15	<PQL	0.48	3.967	15	PASS
Std3-5/50 ppb	ICAL	1	4.77	3.225	15	PASS	4.65	3.476	15	PASS
Std4-10/100 ppb	ICAL	1	9.35	2.086	15	PASS	9.36	3.708	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.26	0.768	15	PASS	18.47	1.601	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	38.63	0.446	15	PASS	37.68	2.102	15	PASS
Std7-100/1000 ppb	ICAL	1	97.98	0.955	15	PASS	98.85	0.823	15	PASS
Std8-200/2000 ppb	ICAL	1	201.4	0.592	15	PASS	201.23	0.396	15	PASS
ICV	ICV	1	9.53	1.544	15	PASS	9.79	1.295	15	PASS
ICB	ICB	1	0	149.924	15	<PQL	0	569.601	15	<PQL
LLCCV1	CCV1	1	0.1	10.341	20	PASS	0.09	21.034	20	<PQL
LLCCV1	CCV1	1	1.03	9.184	20	PASS	0.97	2.498	20	PASS
MLCCV1	CCV	1	19.09	0.205	15	PASS	18.99	2.161	15	PASS
ICSA1	ICSA	1	0.16	8.787	15	PASS	0.1	12.889	15	PASS
ICSA1	ICSA	1	0.01	26.403	15	<PQL	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	19.39	1.922	15	PASS	19.02	2.019	15	PASS
CCV1	CCV	1	18.93	0.954	15	PASS	18.77	1.142	15	PASS
CCB1	CCB	1	0.01	60.799	15	<PQL	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	0.02	65.171	15	<PQL	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	18.99	2.515	15	PASS	19.58	2.103	15	PASS
CCV2	CCV	1	17.99	0.489	15	PASS	18.89	1.663	15	PASS
CCB2	CCB	1	0.01	1.432	15	PASS	0.01	379.958	15	<PQL
CCV3	CCV	1	19.81	1.385	15	PASS	18.51	0.622	15	PASS
CCB3	CCB	1	0.01	76.4	15	<PQL	<0.000	N/A	15	<PQL
CCV4	CCV	1	19.38	0.648	15	PASS	18.92	1.056	15	PASS
CCB4	CCB	1	0	246.672	15	<PQL	0.01	105.878	15	<PQL
CCV5	CCV	1	19.23	3.558	15	PASS	18.64	1.536	15	PASS
CCB5	CCB	1	0.01	63.832	15	<PQL	<0.000	N/A	15	<PQL
CCV6	CCV	1	19.48	3.485	15	PASS	18.6	1.552	15	PASS
CCB6	CCB	1	0.01	38.602	15	<PQL	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	0.01	57.28	15	<PQL	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	20.23	1.777	15	PASS	19.01	0.72	15	PASS
MB-113746	MBLK	1	0.01	1.778	15	PASS	<0.000	N/A	15	<PQL
LCS-113746	LCS	1	9.78	1.574	15	PASS	9.71	2.675	15	PASS
N069542-001B	SAMP	1	12.79	3.256	15	PASS	0.28	4.963	15	PASS
N069542-002B	SAMP	1	33.07	1.168	15	PASS	0.42	12.938	15	PASS
N069542-003B	SAMP	1	13.28	1.354	15	PASS	0.35	13.705	15	PASS
N069582-002B	SAMP	1	59.78	1.142	15	PASS	20.97	0.715	15	PASS
N069582-003B	SAMP	1	48.09	1.138	15	PASS	37.38	1.476	15	PASS
N069582-004B	SAMP	1	70.95	0.772	15	PASS	445.72	1.555	15	PASS

PERCENT RSD SUMMARY: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	137 Ba [3]				52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N069582-005B	SAMP	1	27.57	2.11	15	PASS	803.61	2.263	15	PASS
CCV7	CCV	1	19.25	0.881	15	PASS	18.72	0.783	15	PASS
CCB7	CCB	1	0.01	101.063	15	<PQL	0.01	116.349	15	<PQL
N069582-006B	SAMP	1	53.63	1.933	15	PASS	318.65	1.193	15	PASS
N069583-001B	SAMP	1	188.38	0.697	15	PASS	0.43	5.016	15	PASS
N069583-002B	SAMP	1	54.57	1.087	15	PASS	0.05	12.456	15	PASS
N069583-003B	SAMP	1	41.59	1.547	15	PASS	0.09	39.625	15	<PQL
N069583-003B	SAMP	5	8.92	3.574	15	PASS	<0.000	N/A	15	<PQL
N069583-003B-PS	PS	1	52.14	1.137	15	PASS	9.07	2.798	15	PASS
N069583-003BMS	MS	1	52.4	1.313	15	PASS	8.83	1.914	15	PASS
N069583-003BMSD	MSD	1	51.72	2.298	15	PASS	8.75	2.774	15	PASS
N069583-004B	SAMP	1	50.72	0.617	15	PASS	0.14	15.939	15	<PQL
CCV8	CCV	1	19.42	0.893	15	PASS	18.74	1.495	15	PASS
CCB8	CCB	1	0.01	36.575	15	<PQL	0.02	13.762	15	PASS
N069583-006B	SAMP	1	88.62	1.492	15	PASS	0.04	9.906	15	PASS
N069583-008B	SAMP	1	25.15	0.88	15	PASS	1.34	2.715	15	PASS
N069583-009B	SAMP	1	219.89	1.109	15	PASS	0.45	4.49	15	PASS
N069583-010B	SAMP	1	89.86	2	15	PASS	0.13	15.018	15	<PQL
N069585-001B	SAMP	1	39.41	1.013	15	PASS	25.51	1.829	15	PASS
CCV9	CCV	1	19.89	1.658	15	PASS	18.57	0.178	15	PASS
CCB9	CCB	1	0.01	58.885	15	<PQL	<0.000	N/A	15	<PQL
ICSA4	ICSA	1	0.02	41.554	15	<PQL	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	20.27	1.469	15	PASS	19.05	2.318	15	PASS

PERCENT RSD SUMMARY: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.1	31.174	15	<PQL	0.07	31.267	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.42	10.345	15	PASS	0.49	18.652	15	FAIL
Std3-5/50 ppb	ICAL	1	4.83	1.702	15	PASS	4.98	5.725	15	PASS
Std4-10/100 ppb	ICAL	1	9.4	3.522	15	PASS	9.44	7.267	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.36	1.207	15	PASS	18.8	4.353	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	38.07	1.716	15	PASS	39.94	4.285	15	PASS
Std7-100/1000 ppb	ICAL	1	98.77	1.248	15	PASS	95.88	2.592	15	PASS
Std8-200/2000 ppb	ICAL	1	201.1	0.23	15	PASS	202.22	1.143	15	PASS
ICV	ICV	1	96.81	1.325	15	PASS	9.84	0.64	15	PASS
ICB	ICB	1	0	357.537	15	<PQL	<0.000	N/A	15	<PQL
LLCCV1	CCV1	1	0.1	11.035	20	PASS	0.1	60.127	20	FAIL
LLCCV1	CCV1	1	0.5	9.122	20	PASS	0.12	32.98	20	FAIL
MLCCV1	CCV	1	20.05	1.961	15	PASS	19.62	1.385	15	PASS
ICSA1	ICSA	1	0.27	10.484	15	PASS	<0.000	N/A	15	<PQL
ICSA1	ICSA	1	0.01	85.215	15	<PQL	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	19.11	2.113	15	PASS	19.31	0.281	15	PASS
CCV1	CCV	1	19.53	1.345	15	PASS	18.85	5.053	15	PASS
CCB1	CCB	1	0	535.825	15	<PQL	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	0.01	21.988	15	<PQL	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	19.44	1.35	15	PASS	19.12	2.83	15	PASS
CCV2	CCV	1	19.4	1.359	15	PASS	18.75	1.13	15	PASS
CCB2	CCB	1	0.01	76.12	15	<PQL	<0.000	N/A	15	<PQL
CCV3	CCV	1	19.46	1.714	15	PASS	17.97	0.752	15	PASS
CCB3	CCB	1	0	84.421	15	<PQL	0.02	213.997	15	<PQL
CCV4	CCV	1	19.28	1.343	15	PASS	18.35	6.145	15	PASS
CCB4	CCB	1	0.01	25.723	15	<PQL	<0.000	N/A	15	<PQL
CCV5	CCV	1	19.15	1.761	15	PASS	17.78	4.976	15	PASS
CCB5	CCB	1	0.02	44.792	15	<PQL	<0.000	N/A	15	<PQL
CCV6	CCV	1	19.27	2.379	15	PASS	18.6	5.378	15	PASS
CCB6	CCB	1	0.02	51.034	15	<PQL	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	0.03	22.433	15	<PQL	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	19.03	0.43	15	PASS	18.38	5.411	15	PASS
MB-113746	MBLK	1	0.01	10.984	15	PASS	<0.000	N/A	15	<PQL
LCS-113746	LCS	1	92.18	1.154	15	PASS	9.51	2.615	15	PASS
N069542-001B	SAMP	1	327.61	0.521	15	PASS	5.01	5.513	15	PASS
N069542-002B	SAMP	1	400.98	0.611	15	PASS	4.96	5.418	15	PASS
N069542-003B	SAMP	1	385.9	1.648	15	PASS	6.31	3.562	15	PASS
N069582-002B	SAMP	1	11.92	0.745	15	PASS	4.8	4.125	15	PASS
N069582-003B	SAMP	1	0.54	10.078	15	PASS	4.61	4.756	15	PASS
N069582-004B	SAMP	1	0.89	10.063	15	PASS	1.11	3.025	15	PASS

PERCENT RSD SUMMARY: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N069582-005B	SAMP	1	1.36	3.932	15	PASS	3.07	5.293	15	PASS
CCV7	CCV	1	19.17	1.232	15	PASS	17.87	0.863	15	PASS
CCB7	CCB	1	0	162.806	15	<PQL	<0.000	N/A	15	<PQL
N069582-006B	SAMP	1	34.57	1.435	15	PASS	3.27	2.244	15	PASS
N069583-001B	SAMP	1	108.63	2.187	15	PASS	7.69	3.294	15	PASS
N069583-002B	SAMP	1	243.13	0.841	15	PASS	0.84	13.156	15	PASS
N069583-003B	SAMP	1	431.31	2.397	15	PASS	1.21	3.969	15	PASS
N069583-003B	SAMP	5	91.45	1.608	15	PASS	0.25	7.821	15	PASS
N069583-003B-PS	PS	1	522.35	0.701	15	PASS	10.88	6.298	15	PASS
N069583-003BMS	MS	1	508.59	0.72	15	PASS	10.54	1.966	15	PASS
N069583-003BMSD	MSD	1	515.13	1.162	15	PASS	10.33	3.459	15	PASS
N069583-004B	SAMP	1	922.69	1.61	15	PASS	0.49	3.345	15	PASS
CCV8	CCV	1	19.06	2.704	15	PASS	17.32	3.38	15	PASS
CCB8	CCB	1	0.03	48.398	15	<PQL	<0.000	N/A	15	<PQL
N069583-006B	SAMP	1	5.65	3.309	15	PASS	1.12	7.441	15	PASS
N069583-008B	SAMP	1	343.09	1.167	15	PASS	0.67	19.706	15	NR!
N069583-009B	SAMP	1	424.26	1.539	15	PASS	6.89	4.01	15	PASS
N069583-010B	SAMP	1	2227.56	2.478	15	PASS	18.54	3.745	15	PASS
N069585-001B	SAMP	1	1.54	8.232	15	PASS	5.07	7.002	15	PASS
CCV9	CCV	1	19.34	1.622	15	PASS	18.45	2.617	15	PASS
CCB9	CCB	1	0.02	35.663	15	<PQL	<0.000	N/A	15	<PQL
ICSA4	ICSA	1	0.03	3.057	15	PASS	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	18.79	1.351	15	PASS	18.57	1.167	15	PASS

PERCENT RSD SUMMARY: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	78 Se [1]				95 Mo [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.08	36.466	15	<PQL	0.11	6.486	15	PASS
Std2-0.5/5 ppb	ICAL	1	0.39	19.134	15	<PQL	0.43	4.104	15	PASS
Std3-5/50 ppb	ICAL	1	4.57	0.724	15	PASS	4.59	2.195	15	PASS
Std4-10/100 ppb	ICAL	1	9.06	5.089	15	PASS	9.3	0.699	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	18.35	2.233	15	PASS	18.65	0.586	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	38.66	3.275	15	PASS	38.23	0.465	15	PASS
Std7-100/1000 ppb	ICAL	1	96.18	0.94	15	PASS	96.12	1.213	15	PASS
Std8-200/2000 ppb	ICAL	1	202.4	1.077	15	PASS	202.47	0.578	15	PASS
ICV	ICV	1	10.08	6.658	15	PASS	9.53	1.069	15	PASS
ICB	ICB	1	0.01	171.077	15	<PQL	0.06	16.138	15	<PQL
LLCCV1	CCV1	1	0.07	39.213	20	<PQL	0.12	16.519	20	PASS
LLCCV1	CCV1	1	0.43	22.564	20	<PQL	0.49	1.449	20	PASS
MLCCV1	CCV	1	19.48	4.03	15	PASS	18.76	2.068	15	PASS
ICSA1	ICSA	1	0.06	63.549	15	<PQL	0.08	16.277	15	<PQL
ICSA1	ICSA	1	0.01	177.885	15	<PQL	0.01	10.798	15	PASS
ICSAB1	ICSAB	1	19.33	6.385	15	PASS	19.05	1.983	15	PASS
CCV1	CCV	1	18.09	1.667	15	PASS	18.5	1.373	15	PASS
CCB1	CCB	1	0	5178.335	15	<PQL	0.06	21.708	15	<PQL
ICSA2	ICSA	1	<0.000	0	15	PASS	0.01	114.039	15	<PQL
ICSAB2	ICSAB	1	19.28	1.063	15	PASS	18.91	0.65	15	PASS
CCV2	CCV	1	18.69	6.822	15	PASS	18.12	0.769	15	PASS
CCB2	CCB	1	0.04	118.513	15	<PQL	0.04	12.433	15	PASS
CCV3	CCV	1	19.33	0.588	15	PASS	18.72	2.299	15	PASS
CCB3	CCB	1	0.01	171.851	15	<PQL	0.05	18.686	15	<PQL
CCV4	CCV	1	18.93	4.464	15	PASS	18.84	0.619	15	PASS
CCB4	CCB	1	0.03	42.02	15	<PQL	0.05	20.27	15	<PQL
CCV5	CCV	1	19.06	4.562	15	PASS	18.9	1.534	15	PASS
CCB5	CCB	1	0.02	55.817	15	<PQL	0.07	9.999	15	PASS
CCV6	CCV	1	19.18	3.356	15	PASS	18.83	2.557	15	PASS
CCB6	CCB	1	0.04	156.706	15	<PQL	0.06	8.168	15	PASS
ICSA3	ICSA	1	<0.000	0	15	PASS	0.03	52.149	15	<PQL
ICSAB3	ICSAB	1	19.72	1.733	15	PASS	19.13	2.814	15	PASS
MB-113746	MBLK	1	0.04	157.125	15	<PQL	0.05	18.363	15	<PQL
LCS-113746	LCS	1	9.79	2.618	15	PASS	9.77	1.508	15	PASS
N069542-001B	SAMP	1	1.53	9.595	15	PASS	18.43	1.343	15	PASS
N069542-002B	SAMP	1	0.91	9.776	15	PASS	13.94	0.852	15	PASS
N069542-003B	SAMP	1	1.35	8.268	15	PASS	20.4	1.596	15	PASS
N069582-002B	SAMP	1	0.3	7.685	15	PASS	51.23	0.816	15	PASS
N069582-003B	SAMP	1	4.86	15.532	15	NR!	8.84	2.617	15	PASS
N069582-004B	SAMP	1	9.1	3.364	15	PASS	2.72	0.937	15	PASS

PERCENT RSD SUMMARY: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	78 Se [1]				95 Mo [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N069582-005B	SAMP	1	6	11.659	15	PASS	43.01	0.637	15	PASS
CCV7	CCV	1	19.79	3.314	15	PASS	18.9	2.313	15	PASS
CCB7	CCB	1	0.02	140.907	15	<PQL	0.06	18.345	15	<PQL
N069582-006B	SAMP	1	2.82	8.855	15	PASS	75.81	1.101	15	PASS
N069583-001B	SAMP	1	0.25	27.667	15	<PQL	14.51	1.329	15	PASS
N069583-002B	SAMP	1	0.05	2.367	15	PASS	8.51	1.666	15	PASS
N069583-003B	SAMP	1	0.04	53.994	15	<PQL	3.69	3.556	15	PASS
N069583-003B	SAMP	5	0.01	141.933	15	<PQL	0.81	3.117	15	PASS
N069583-003B-PS	PS	1	6.44	4.867	15	PASS	14.04	2.849	15	PASS
N069583-003BMS	MS	1	5.92	3.506	15	PASS	14.1	0.981	15	PASS
N069583-003BMSD	MSD	1	6.04	15.44	15	NR!	14.24	2.366	15	PASS
N069583-004B	SAMP	1	0.07	26.379	15	<PQL	13.59	2.213	15	PASS
CCV8	CCV	1	18.75	3.762	15	PASS	18.87	1.655	15	PASS
CCB8	CCB	1	0.04	59.778	15	<PQL	0.07	20.847	15	<PQL
N069583-006B	SAMP	1	0.2	55.648	15	<PQL	4.37	3.137	15	PASS
N069583-008B	SAMP	1	0.06	56.724	15	<PQL	22.24	0.675	15	PASS
N069583-009B	SAMP	1	0.45	23.251	15	<PQL	8.18	0.878	15	PASS
N069583-010B	SAMP	1	0.25	24.35	15	<PQL	56.38	2.177	15	PASS
N069585-001B	SAMP	1	1.25	5.795	15	PASS	5.86	2.648	15	PASS
CCV9	CCV	1	18.93	3.16	15	PASS	18.8	1.632	15	PASS
CCB9	CCB	1	0.01	156.136	15	<PQL	0.04	23.71	15	<PQL
ICSA4	ICSA	1	0.02	142.725	15	<PQL	0.01	129.738	15	<PQL
ICSAB4	ICSAB	1	19.45	1.26	15	PASS	19.35	1.428	15	PASS

PERCENT RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	137 Ba [3]				52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.1	11.141	15	PASS	0.1	2.746	15	PASS
Std2-0.5/5 ppb	ICAL	1	0.45	9.056	15	PASS	0.48	3.48	15	PASS
Std3-5/50 ppb	ICAL	1	4.72	4.848	15	PASS	4.73	2.948	15	PASS
Std4-10/100 ppb	ICAL	1	9.35	1.592	15	PASS	9.49	1.571	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	18.68	1.73	15	PASS	18.91	2.242	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	37.95	1.055	15	PASS	38.49	0.946	15	PASS
Std7-100/1000 ppb	ICAL	1	98.06	1.813	15	PASS	97.48	1.076	15	PASS
Std8-200/2000 ppb	ICAL	1	201.55	0.478	15	PASS	201.7	2.211	15	PASS
ICV	ICV	1	9.3	1.902	15	PASS	9.77	1.476	15	PASS
ICB	ICB	1	0	1979.074	15	<PQL	<0.000	N/A	15	<PQL
LLCCV1	CCV1	1	0.1	19.747	20	PASS	0.07	24.333	20	<PQL
LLCCV2	CCV1	1	0.98	4.946	20	PASS	0.98	3.403	20	PASS
MLCCV1	CCV	1	18.69	1.653	15	PASS	19.22	1.057	15	PASS
ICSA1	ICSA	1	0.01	118.643	15	<PQL	<0.000	N/A	15	<PQL
ICSA1	ICSA	1	0.01	17.568	15	<PQL	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	19.06	0.391	15	PASS	19.5	3.261	15	PASS
CCV1	CCV	1	18.86	1.011	15	PASS	19.38	1.356	15	PASS
CCB1	CCB	1	0.01	71.719	15	<PQL	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	0	95.356	15	<PQL	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	19.64	0.691	15	PASS	19.36	1.169	15	PASS
CCV2	CCV	1	20.37	0.611	15	PASS	18.61	1.401	15	PASS
CCB2	CCB	1	0	146.178	15	<PQL	<0.000	N/A	15	<PQL
CCV3	CCV	1	20.23	0.702	15	PASS	18.5	1.936	15	PASS
CCB3	CCB	1	0	1226.985	15	<PQL	<0.000	N/A	15	<PQL
CCV4	CCV	1	20.63	1.234	15	PASS	18.54	0.977	15	PASS
CCB4	CCB	1	0	84.972	15	<PQL	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	0	141.516	15	<PQL	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	20.37	2.356	15	PASS	18.57	1.492	15	PASS
MB-113746	MBLK	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
LCS-113746	LCS	1	9.84	0.351	15	PASS	9.64	1.1	15	PASS
N069542-001B	SAMP	10	1.42	4.97	15	PASS	0	481.633	15	<PQL
N069542-002B	SAMP	10	3.54	3.121	15	PASS	0.02	56.48	15	<PQL
N069542-003B	SAMP	10	1.93	5.041	15	PASS	0.04	48.967	15	<PQL
N069582-002B	SAMP	1	62.4	1.172	15	PASS	21.25	1.032	15	PASS
N069582-003B	SAMP	1	48.71	1.539	15	PASS	37.34	0.479	15	PASS
N069582-004B	SAMP	1	73.2	0.622	15	PASS	451.7	0.662	15	PASS
N069582-005B	SAMP	1	28.31	0.351	15	PASS	804.52	1.121	15	PASS
CCV4	CCV	1	20.19	1.149	15	PASS	19.12	1.362	15	PASS
CCB4	CCB	1	0	183.951	15	<PQL	0.01	167.893	15	<PQL
N069582-006B	SAMP	1	53.86	0.85	15	PASS	319.24	3.023	15	PASS

PERCENT RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	137 Ba [3]				52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N069583-001B	SAMP	1	193.32	0.748	15	PASS	0.45	5.863	15	PASS
N069583-001B	SAMP	10	21	1.329	15	PASS	0.04	47.583	15	<PQL
N069583-002B	SAMP	1	55.05	0.568	15	PASS	0.04	30.054	15	<PQL
N069583-002B	SAMP	10	5.84	0.85	15	PASS	0	270.711	15	<PQL
N069583-003B	SAMP	1	42.62	1.29	15	PASS	0.11	22.728	15	<PQL
N069583-003B	SAMP	5	8.41	3.357	15	PASS	<0.000	N/A	15	<PQL
N069583-003B	SAMP	10	4.36	1.029	15	PASS	0.01	98.316	15	<PQL
N069583-003B	SAMP	50	0.85	7.436	15	PASS	<0.000	N/A	15	<PQL
CCV5	CCV	1	19.93	2.092	15	PASS	18.91	1.153	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
N069583-003B-PS	PS	1	52.07	1.176	15	PASS	9.17	0.759	15	PASS
N069583-003B-PS	PS	10	13.94	1.217	15	PASS	9.1	0.53	15	PASS
N069583-003BMS	MS	1	51.92	1.72	15	PASS	9.09	1.641	15	PASS
N069583-003BMS	MS	10	5.37	4.426	15	PASS	0.92	1.396	15	PASS
N069583-003BMSD	MSD	1	52.02	1.168	15	PASS	9.07	1.371	15	PASS
N069583-003BMSD	MSD	10	5.5	1.18	15	PASS	0.93	6.521	15	PASS
N069583-004B	SAMP	1	50.16	1.171	15	PASS	0.15	13.08	15	PASS
N069583-004B	SAMP	10	5.38	0.799	15	PASS	<0.000	N/A	15	<PQL
N069583-006B	SAMP	1	90.4	1.49	15	PASS	0.02	63.886	15	<PQL
CCV6	CCV	1	19.96	1.818	15	PASS	19.01	2.242	15	PASS
CCB6	CCB	1	<0.000	N/A	15	<PQL	0	8628.481	15	<PQL
N069583-008B	SAMP	1	24.69	3.024	15	PASS	1.31	6.415	15	PASS
N069583-008B	SAMP	10	2.6	1.418	15	PASS	0.11	4.415	15	PASS
N069583-009B	SAMP	1	221.56	0.774	15	PASS	0.44	9.361	15	PASS
N069583-009B	SAMP	10	23.25	1.022	15	PASS	0.04	98.258	15	<PQL
N069583-010B	SAMP	1	92.25	0.7	15	PASS	0.09	21.007	15	<PQL
N069583-010B	SAMP	100	1	4.458	15	PASS	<0.000	N/A	15	<PQL
N069585-001B	SAMP	1	40.5	1.182	15	PASS	25.5	0.526	15	PASS
CCV7	CCV	1	20.38	0.728	15	PASS	19.22	2.191	15	PASS
CCB7	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA4	ICSA	1	0.01	47.89	15	<PQL	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	20.1	0.641	15	PASS	18.6	1.753	15	PASS
CCV8	CCV	1	20.38	0.357	15	PASS	19.14	0.962	15	PASS
CCB8	CCB	1	0	285.06	15	<PQL	<0.000	N/A	15	<PQL
CCV9	CCV	1	21.1	1.867	15	PASS	18.39	1.827	15	PASS
CCB9	CCB	1	0	383.356	15	<PQL	<0.000	N/A	15	<PQL
CCV10	CCV	1	20.48	0.829	15	PASS	19.14	1.887	15	PASS
CCB10	CCB	1	0	177.546	15	<PQL	<0.000	N/A	15	<PQL
CCV11	CCV	1	20.48	0.986	15	PASS	18.69	2.273	15	PASS
CCB11	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA5	ICSA	1	0.01	21.123	15	<PQL	<0.000	N/A	15	<PQL

PERCENT RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	137 Ba [3]				52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
ICSAB5	ICSAB	1	19.6	0.51	15	PASS	18.87	0.732	15	PASS

PERCENT RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.09	3.422	15	PASS	0.13	42.953	15	FAIL
Std2-0.5/5 ppb	ICAL	1	0.48	14.645	15	PASS	0.54	10.145	15	PASS
Std3-5/50 ppb	ICAL	1	4.76	1.641	15	PASS	4.51	6.574	15	PASS
Std4-10/100 ppb	ICAL	1	9.52	2.342	15	PASS	9.64	2.92	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.74	1.78	15	PASS	18.81	0.85	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	38.39	0.737	15	PASS	38.2	4.623	15	PASS
Std7-100/1000 ppb	ICAL	1	97.85	0.305	15	PASS	98.44	4.1	15	PASS
Std8-200/2000 ppb	ICAL	1	201.45	1.92	15	PASS	201.29	1.784	15	PASS
ICV	ICV	1	95.76	0.747	15	PASS	9.65	4.812	15	PASS
ICB	ICB	1	0	351.948	15	<PQL	0.01	326.628	15	<PQL
LLCCV1	CCV1	1	0.09	33.007	20	<PQL	0.08	49.159	20	<PQL
LLCCV2	CCV1	1	0.52	9.662	20	PASS	0.12	51.25	20	FAIL
MLCCV1	CCV	1	20.18	3.505	15	PASS	18.69	3.354	15	PASS
ICSA1	ICSA	1	0.02	38.28	15	<PQL	0.02	86.414	15	<PQL
ICSA1	ICSA	1	0.02	30.041	15	<PQL	0.02	42.121	15	<PQL
ICSAB1	ICSAB	1	19.79	0.776	15	PASS	19.26	5.434	15	PASS
CCV1	CCV	1	19.68	1.792	15	PASS	18.22	3.511	15	PASS
CCB1	CCB	1	0.01	35.568	15	<PQL	0.01	149.398	15	<PQL
ICSA2	ICSA	1	0.02	20.226	15	<PQL	0.02	42.695	15	<PQL
ICSAB2	ICSAB	1	19.17	1.605	15	PASS	19.19	2.139	15	PASS
CCV2	CCV	1	19.36	1.558	15	PASS	18.56	3.978	15	PASS
CCB2	CCB	1	0	259.076	15	<PQL	0.01	159.22	15	<PQL
CCV3	CCV	1	19.12	1.333	15	PASS	18.43	4.538	15	PASS
CCB3	CCB	1	0	113.839	15	<PQL	0.04	112.271	15	<PQL
CCV4	CCV	1	18.98	2.542	15	PASS	19.23	2.918	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL	0.01	159.18	15	<PQL
ICSA3	ICSA	1	0.01	56.927	15	<PQL	0.02	158.939	15	<PQL
ICSAB3	ICSAB	1	19.03	1.617	15	PASS	17.98	3.367	15	PASS
MB-113746	MBLK	1	0	243.57	15	<PQL	0.03	76.964	15	<PQL
LCS-113746	LCS	1	93.16	0.999	15	PASS	9.12	7.088	15	PASS
N069542-001B	SAMP	10	35.71	1.056	15	PASS	0.6	6.717	15	PASS
N069542-002B	SAMP	10	44.29	1.424	15	PASS	0.55	18.867	15	NR!
N069542-003B	SAMP	10	53.44	1.343	15	PASS	0.97	12.179	15	PASS
N069582-002B	SAMP	1	12.16	1.877	15	PASS	4.96	16.586	15	NR!
N069582-003B	SAMP	1	0.57	3.716	15	PASS	4.95	2.639	15	PASS
N069582-004B	SAMP	1	0.86	6.09	15	PASS	1.06	11.98	15	PASS
N069582-005B	SAMP	1	1.34	2.399	15	PASS	3.47	5.041	15	PASS
CCV4	CCV	1	19.54	0.874	15	PASS	19.12	3.351	15	PASS
CCB4	CCB	1	0.01	171.83	15	<PQL	0.03	162.345	15	<PQL
N069582-006B	SAMP	1	35.39	3.556	15	PASS	3.51	4.277	15	PASS

PERCENT RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N069583-001B	SAMP	1	108.88	2.819	15	PASS	8.14	3.011	15	PASS
N069583-001B	SAMP	10	11.97	0.344	15	PASS	0.91	9.498	15	PASS
N069583-002B	SAMP	1	243.06	3.504	15	PASS	1.21	7.839	15	PASS
N069583-002B	SAMP	10	26.5	1.482	15	PASS	0.17	28.237	15	NR!
N069583-003B	SAMP	1	438.32	1.119	15	PASS	1.26	18.025	15	NR!
N069583-003B	SAMP	5	84.93	0.99	15	PASS	0.23	18.397	15	NR!
N069583-003B	SAMP	10	44.65	1.046	15	PASS	0.13	64.792	15	NR!
N069583-003B	SAMP	50	9.14	1.774	15	PASS	0.07	36.586	15	<PQL
CCV5	CCV	1	19.3	0.897	15	PASS	18.71	5.814	15	PASS
CCB5	CCB	1	0.01	194.264	15	<PQL	0	46824.375	15	<PQL
N069583-003B-PS	PS	1	526.29	0.798	15	PASS	10.54	2.466	15	PASS
N069583-003B-PS	PS	10	134.08	3.086	15	PASS	10.08	4.608	15	PASS
N069583-003BMS	MS	1	529.85	0.434	15	PASS	11.46	5.206	15	PASS
N069583-003BMS	MS	10	55.59	1.087	15	PASS	1	9.894	15	PASS
N069583-003BMSD	MSD	1	520.1	1.792	15	PASS	11.31	3.723	15	PASS
N069583-003BMSD	MSD	10	54.54	0.469	15	PASS	1.13	15.152	15	NR!
N069583-004B	SAMP	1	948.33	0.942	15	PASS	0.5	14.524	15	PASS
N069583-004B	SAMP	10	100.59	2.36	15	PASS	0.07	20.551	15	<PQL
N069583-006B	SAMP	1	5.61	1.936	15	PASS	1.02	3.088	15	PASS
CCV6	CCV	1	19.24	2.756	15	PASS	19.26	2.211	15	PASS
CCB6	CCB	1	0	306.035	15	<PQL	0.03	73.995	15	<PQL
N069583-008B	SAMP	1	350.82	1.311	15	PASS	0.72	8.883	15	PASS
N069583-008B	SAMP	10	36.03	3.079	15	PASS	0.11	13.476	15	PASS
N069583-009B	SAMP	1	433.53	2.008	15	PASS	6.98	9.069	15	PASS
N069583-009B	SAMP	10	45.89	2.998	15	PASS	0.68	7.049	15	PASS
N069583-010B	SAMP	1	2269.26	0.427	15	PASS	19.27	1.696	15	PASS
N069583-010B	SAMP	100	25.66	0.971	15	PASS	0.25	14.055	15	PASS
N069585-001B	SAMP	1	1.64	4.192	15	PASS	4.97	5.371	15	PASS
CCV7	CCV	1	19.35	2.895	15	PASS	18.84	2.852	15	PASS
CCB7	CCB	1	0.01	59.704	15	<PQL	0.01	151.109	15	<PQL
ICSA4	ICSA	1	0.02	69.269	15	<PQL	0.04	67.415	15	<PQL
ICSAB4	ICSAB	1	19.1	0.382	15	PASS	18.65	3.86	15	PASS
CCV8	CCV	1	19.33	1.501	15	PASS	19.62	1.057	15	PASS
CCB8	CCB	1	0	4.568	15	PASS	0.03	106.449	15	<PQL
CCV9	CCV	1	18.95	1.826	15	PASS	19.46	0.822	15	PASS
CCB9	CCB	1	0	415.712	15	<PQL	0.03	125.315	15	<PQL
CCV10	CCV	1	19.2	2.069	15	PASS	18.78	1.152	15	PASS
CCB10	CCB	1	0.01	124.17	15	<PQL	0.02	60.37	15	<PQL
CCV11	CCV	1	18.87	0.182	15	PASS	18.2	2.781	15	PASS
CCB11	CCB	1	0	228.524	15	<PQL	0.01	171.917	15	<PQL
ICSA5	ICSA	1	0.02	2.342	15	PASS	0.01	146.87	15	<PQL

PERCENT RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
ICSAB5	ICSAB	1	19.37	2.196	15	PASS	18.73	4.101	15	PASS

PERCENT RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	78 Se [1]			
			Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.11	68.579	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.5	8.352	15	PASS
Std3-5/50 ppb	ICAL	1	4.79	6.677	15	PASS
Std4-10/100 ppb	ICAL	1	9.33	7.346	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	18.43	1.905	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	38.34	1.105	15	PASS
Std7-100/1000 ppb	ICAL	1	96.14	1.504	15	PASS
Std8-200/2000 ppb	ICAL	1	202.46	1.198	15	PASS
ICV	ICV	1	9.68	2.456	15	PASS
ICB	ICB	1	0.02	173.205	15	<PQL
LLCCV1	CCV1	1	0.13	71.188	20	<PQL
LLCCV2	CCV1	1	0.53	32.46	20	FAIL
MLCCV1	CCV	1	18.78	3.912	15	PASS
ICSA1	ICSA	1	0.01	173.205	15	<PQL
ICSA1	ICSA	1	0.01	173.205	15	<PQL
ICSAB1	ICSAB	1	18.98	0.502	15	PASS
CCV1	CCV	1	18.79	2.414	15	PASS
CCB1	CCB	1	0.04	91.329	15	<PQL
ICSA2	ICSA	1	0.04	92.053	15	<PQL
ICSAB2	ICSAB	1	18.99	3.292	15	PASS
CCV2	CCV	1	19.05	4.52	15	PASS
CCB2	CCB	1	0.01	173.205	15	<PQL
CCV3	CCV	1	18.01	3.075	15	PASS
CCB3	CCB	1	0	N/A	15	<PQL
CCV4	CCV	1	18.28	4.138	15	PASS
CCB4	CCB	1	0.03	115.342	15	<PQL
ICSA3	ICSA	1	0.02	99.399	15	<PQL
ICSAB3	ICSAB	1	18.43	1.617	15	PASS
MB-113746	MBLK	1	0.02	97.932	15	<PQL
LCS-113746	LCS	1	9.09	4.418	15	PASS
N069542-001B	SAMP	10	0.19	26.477	15	<PQL
N069542-002B	SAMP	10	0.1	43.199	15	<PQL
N069542-003B	SAMP	10	0.2	32.733	15	<PQL
N069582-002B	SAMP	1	0.16	69.164	15	<PQL
N069582-003B	SAMP	1	4.41	6.65	15	PASS
N069582-004B	SAMP	1	8.54	3.322	15	PASS
N069582-005B	SAMP	1	5.12	7.765	15	PASS
CCV4	CCV	1	18.29	2.82	15	PASS
CCB4	CCB	1	0	N/A	15	<PQL
N069582-006B	SAMP	1	2.51	6.16	15	PASS

PERCENT RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	78 Se [1]			
			Conc. [ppb]	RSD	Criteria	Comment
N069583-001B	SAMP	1	0.22	76.016	15	<PQL
N069583-001B	SAMP	10	0.03	44.209	15	<PQL
N069583-002B	SAMP	1	0.09	58.39	15	<PQL
N069583-002B	SAMP	10	0.03	43.086	15	<PQL
N069583-003B	SAMP	1	0.07	99.861	15	<PQL
N069583-003B	SAMP	5	0.02	86.603	15	<PQL
N069583-003B	SAMP	10	0.01	173.205	15	<PQL
N069583-003B	SAMP	50	0.03	173.205	15	<PQL
CCV5	CCV	1	19.35	2.551	15	PASS
CCB5	CCB	1	0.02	100.254	15	<PQL
N069583-003B-PS	PS	1	6.03	5.857	15	PASS
N069583-003B-PS	PS	10	8.96	10.307	15	PASS
N069583-003BMS	MS	1	5.85	1.397	15	PASS
N069583-003BMS	MS	10	0.74	24.502	15	NR!
N069583-003BMSD	MSD	1	5.9	10.449	15	PASS
N069583-003BMSD	MSD	10	0.8	15.036	15	NR!
N069583-004B	SAMP	1	0.05	36.148	15	<PQL
N069583-004B	SAMP	10	0.02	86.615	15	<PQL
N069583-006B	SAMP	1	0.12	33.936	15	<PQL
CCV6	CCV	1	18.44	1.185	15	PASS
CCB6	CCB	1	0.02	173.205	15	<PQL
N069583-008B	SAMP	1	0.06	50.272	15	<PQL
N069583-008B	SAMP	10	0.02	86.625	15	<PQL
N069583-009B	SAMP	1	0.45	14.24	15	PASS
N069583-009B	SAMP	10	0.04	92.311	15	<PQL
N069583-010B	SAMP	1	0.25	30.365	15	<PQL
N069583-010B	SAMP	100	0	N/A	15	<PQL
N069585-001B	SAMP	1	1.11	11.397	15	PASS
CCV7	CCV	1	19.05	3.495	15	PASS
CCB7	CCB	1	0.02	100.758	15	<PQL
ICSA4	ICSA	1	0.02	86.623	15	<PQL
ICSAB4	ICSAB	1	18.37	3.681	15	PASS
CCV8	CCV	1	18.78	3.906	15	PASS
CCB8	CCB	1	0.02	86.615	15	<PQL
CCV9	CCV	1	18.59	2.96	15	PASS
CCB9	CCB	1	0.02	86.627	15	<PQL
CCV10	CCV	1	19.42	3.947	15	PASS
CCB10	CCB	1	0.03	42.921	15	<PQL
CCV11	CCV	1	19.08	2.878	15	PASS
CCB11	CCB	1	0.02	173.205	15	<PQL
ICSA5	ICSA	1	0.02	86.604	15	<PQL

PERCENT RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	78 Se [1]			
			Conc. [ppb]	RSD	Criteria	Comment
ICSAB5	ICSAB	1	19.51	1.622	15	PASS

PERCENT RSD SUMMARY: 241105B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.06	73.782	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.46	18.784	15	FAIL
Std3-5/50 ppb	ICAL	1	4.88	2.548	15	PASS
Std4-10/100 ppb	ICAL	1	9.38	5.875	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	20.16	0.849	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.04	2.941	15	PASS
Std7-100/1000 ppb	ICAL	1	98.47	2.217	15	PASS
Std8-200/2000 ppb	ICAL	1	200.98	2.799	15	PASS
ICV	ICV	1	9.9	4.718	15	PASS
ICB	ICB	1	0.05	49.366	15	<PQL
LLCCV1	CCV1	1	0.07	49.079	20	<PQL
LLCCV2	CCV1	1	0.09	33.099	20	<PQL
MLCCV1	CCV	1	19.47	4.523	15	PASS
ICSA1	ICSA	1	0.03	57.68	15	<PQL
ICSAB1	ICSAB	1	19.51	2.889	15	PASS
CCV1	CCV	1	19.27	1.81	15	PASS
CCB1	CCB	1	0.01	363.462	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	19.2	2.624	15	PASS
CCV2	CCV	1	20.05	4.527	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL
CCV3	CCV	1	19.61	1.135	15	PASS
CCB3	CCB	1	0.01	244.122	15	<PQL
CCV4	CCV	1	19.36	3.637	15	PASS
CCB4	CCB	1	0.03	116.713	15	<PQL
CCV5	CCV	1	19.36	8.309	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL
CCV6	CCV	1	19.56	2.656	15	PASS
CCB6	CCB	1	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	20.4	2.403	15	PASS
N069583-003B	SAMP	1	1.29	13.887	15	PASS
N069583-003B	SAMP	1	1.21	8.587	15	PASS
N069583-003B	SAMP	1	1.34	12.252	15	PASS
CCV7	CCV	1	19.54	0.574	15	PASS
CCB7	CCB	1	0.02	152.548	15	<PQL
CCV8	CCV	1	19.6	2.322	15	PASS
CCB8	CCB	1	<0.000	N/A	15	<PQL
CCV9	CCV	1	18.83	4.194	15	PASS
CCB9	CCB	1	<0.000	N/A	15	<PQL

PERCENT RSD SUMMARY: 241105B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
ICSA4	ICSA	1	0.04	28.68	15	<PQL
ICSAB4	ICSAB	1	18.84	3.808	15	PASS

PERCENT RSD SUMMARY: 241116D

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.08	8.432	15	PASS
Std2-0.5/5 ppb	ICAL	1	0.49	3.188	15	PASS
Std3-5/50 ppb	ICAL	1	4.81	2.891	15	PASS
Std4-10/100 ppb	ICAL	1	9.75	1.329	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.91	1.021	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.4	1.104	15	PASS
Std7-100/1000 ppb	ICAL	1	99.37	1.148	15	PASS
Std8-200/2000 ppb	ICAL	1	200.46	1.372	15	PASS
ICV	ICV	1	10.28	0.536	15	PASS
ICB	ICB	1	0.01	252.448	15	<PQL
LLCCV1	CCV1	1	0.11	16.263	20	PASS
LLCCV2	CCV1	1	1.07	3.145	20	PASS
MLCCV1	CCV	1	19.48	0.603	15	PASS
ICSA1	ICSA	1	0.01	148.108	15	<PQL
ICSAB1	ICSAB	1	20.68	2.262	15	PASS
CCV1	CCV	1	19.87	2.195	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	20.49	4.101	15	PASS
CCV2	CCV	1	19.6	1.427	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	20.65	1.364	15	PASS
CCV3	CCV	1	20.16	1.286	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL
CCV4	CCV	1	19.97	0.983	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	20.46	0.186	15	PASS
MB-114151	MBLK	1	<0.000	N/A	15	<PQL
LCS-114151	LCS	1	10.36	2.698	15	PASS
N069991-002B	SAMP	1	0.42	2.516	15	PASS
N069991-003B	SAMP	1	0.11	19.009	15	<PQL
N069991-004B	SAMP	1	7.43	1.345	15	PASS
N069991-005B	SAMP	1	0.11	2.537	15	PASS
N069991-007C	SAMP	1	0.38	8.021	15	PASS
N069991-008C	SAMP	1	0.96	2.124	15	PASS
N069991-009C	SAMP	1	0.12	28.458	15	<PQL
CCV5	CCV	1	20.33	0.869	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL

PERCENT RSD SUMMARY: 241116D

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment
N069991-010C	SAMP	1	0.13	17.255	15	<PQL
N069996-001B	SAMP	1	0.66	3.726	15	PASS
N069996-002C	SAMP	1	0.74	6.749	15	PASS
N069996-003B	SAMP	1	0.68	6.389	15	PASS
N069996-004B	SAMP	1	0.29	5.41	15	PASS
N069996-006C	SAMP	1	8.96	2.33	15	PASS
N069996-007B	SAMP	1	0.09	10.537	15	PASS
N069996-008C	SAMP	1	1.29	0.691	15	PASS
N069996-009C	SAMP	1	7.97	1.501	15	PASS
CCV6	CCV	1	20.45	1.845	15	PASS
CCB6	CCB	1	<0.000	N/A	15	<PQL
N069996-010C	SAMP	1	3.87	0.981	15	PASS
N069996-010C	SAMP	5	0.75	4.851	15	PASS
N069996-010C-PS	PS	1	14.19	3.349	15	PASS
N069996-010CMS	MS	1	14.2	0.479	15	PASS
N069996-010CMSD	MSD	1	14.08	0.948	15	PASS
N069996-011C	SAMP	1	3.94	3.592	15	PASS
N069583-008B	SAMP	1	0.04	42.843	15	<PQL
CCV7	CCV	1	20.65	1.895	15	PASS
CCB7	CCB	1	<0.000	N/A	15	<PQL
ICSA5	ICSA	1	<0.000	N/A	15	<PQL
ICSAB5	ICSAB	1	21.51	1.956	15	PASS
CCV8	CCV	1	20.55	0.222	15	PASS
CCB8	CCB	1	<0.000	N/A	15	<PQL
CCV9	CCV	1	20.03	1.296	15	PASS
CCB9	CCB	1	<0.000	N/A	15	<PQL
CCV10	CCV	1	20.13	1.127	15	PASS
CCB10	CCB	1	<0.000	N/A	15	<PQL
ICSA6	ICSA	1	0	219.204	15	<PQL
ICSAB6	ICSAB	1	21.12	0.759	15	PASS
CCV11	CCV	1	20.44	0.758	15	PASS
CCB11	CCB	1	0.02	49.68	15	<PQL
CCV12	CCV	1	20.42	0.973	15	PASS
CCB12	CCB	1	<0.000	N/A	15	<PQL
CCV13	CCV	1	20.29	1.317	15	PASS
CCB13	CCB	1	<0.000	N/A	15	<PQL
ICSA7	ICSA	1	<0.000	N/A	15	<PQL
ICSAB7	ICSAB	1	20.54	1.352	15	PASS

ANALYSIS RUN LOG



ASSET LABORATORIES
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INJECTION LOG: 241101C

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1101001.d	RINSE	ICAL	1	11/01/24 8:03 PM
B1101002.d	RINSE	ICAL	1	11/01/24 8:09 PM
B1101003.d	RINSE	ICAL	1	11/01/24 8:14 PM
B1101004.d	Cal Blk	IBLK	1	11/01/24 8:20 PM
B1101005.d	Std1-0.1/1 ppb	ICAL	1	11/01/24 8:26 PM
B1101006.d	Std2-0.5/5 ppb	ICAL	1	11/01/24 8:32 PM
B1101007.d	Std3-5/50 ppb	ICAL	1	11/01/24 8:39 PM
B1101008.d	Std4-10/100 ppb	ICAL	1	11/01/24 8:45 PM
B1101009.d	Std5-4.0/20/200 ppb	ICAL	1	11/01/24 8:51 PM
B1101010.d	Std6-8.0/40/400 ppb	ICAL	1	11/01/24 8:57 PM
B1101011.d	Std7-100/1000 ppb	ICAL	1	11/01/24 9:03 PM
B1101012.d	Std8-200/2000 ppb	ICAL	1	11/01/24 9:09 PM
B1101013.d	ICV	ICV	1	11/01/24 9:33 PM
B1101014.d	ICB	ICB	1	11/01/24 9:39 PM
B1101015.d	LLCCV1	CCV1	1	11/01/24 9:45 PM
B1101016.d	LLCCV1	CCV1	1	11/01/24 9:51 PM
B1101017.d	MLCCV1	CCV	1	11/01/24 9:57 PM
B1101018.d	ICSA1	ICSA	1	11/01/24 10:03 PM
B1101019.d	ICSA1	ICSA	1	11/01/24 10:08 PM
B1101020.d	ICSAB1	ICSAB	1	11/01/24 10:14 PM
B1101022.d	N069234-002A	SAMP	1	11/01/24 10:20 PM
B1101023.d	N069234-002D	SAMP	1	11/01/24 10:26 PM
B1101024.d	N069234-007A	SAMP	1	11/01/24 10:32 PM
B1101025.d	N069234-007D	SAMP	1	11/01/24 10:38 PM
B1101026.d	N069234-016A	SAMP	1	11/01/24 10:44 PM
B1101027.d	N069234-016D	SAMP	1	11/01/24 10:50 PM
B1101028.d	RINSE	ICAL	1	11/01/24 10:56 PM
B1101029.d	CCV1	CCV	1	11/01/24 11:01 PM
B1101030.d	CCB1	CCB	1	11/01/24 11:07 PM
B1101031.d	ICSA2	ICSA	1	11/01/24 11:13 PM
B1101032.d	ICSAB2	ICSAB	1	11/01/24 11:19 PM
B1101033.d	N069263-001B	SAMP	1	11/01/24 11:25 PM
B1101034.d	N069498-003B	SAMP	1	11/01/24 11:31 PM
B1101035.d	N069498-006B	SAMP	1	11/01/24 11:37 PM
B1101036.d	N069498-008B	SAMP	1	11/01/24 11:43 PM
B1101037.d	CCV2	CCV	1	11/02/24 1:01 AM
B1101038.d	CCB2	CCB	1	11/02/24 1:07 AM
B1101039.d	MB-113718	MBLK	1	11/02/24 1:13 AM
B1101040.d	LCS-113718	LCS	1	11/02/24 1:19 AM
B1101041.d	N069543-001B	SAMP	1	11/02/24 1:25 AM
B1101042.d	N069543-002B	SAMP	1	11/02/24 1:31 AM
B1101043.d	N069543-002B	SAMP	5	11/02/24 1:37 AM

INJECTION LOG: 241101C

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1101044.d	N069543-002B	SAMP	10	11/02/24 1:43 AM
B1101045.d	N069543-002B	SAMP	50	11/02/24 1:49 AM
B1101046.d	N069543-002B-PS	PS	1	11/02/24 1:54 AM
B1101047.d	N069543-002B-PS	PS	10	11/02/24 2:00 AM
B1101048.d	CCV3	CCV	1	11/02/24 2:06 AM
B1101049.d	CCB3	CCB	1	11/02/24 2:12 AM
B1101050.d	N069543-002B-MS	MS	1	11/02/24 2:18 AM
B1101051.d	N069543-002B-MS	MS	10	11/02/24 2:24 AM
B1101052.d	N069543-002B-MSD	MSD	1	11/02/24 2:30 AM
B1101053.d	N069543-002B-MSD	MSD	10	11/02/24 2:36 AM
B1101054.d	N069543-003B	SAMP	1	11/02/24 2:42 AM
B1101055.d	N069543-003B	SAMP	10	11/02/24 2:48 AM
B1101056.d	N069543-004B	SAMP	1	11/02/24 2:54 AM
B1101057.d	N069543-005B	SAMP	1	11/02/24 3:00 AM
B1101058.d	N069543-006B	SAMP	1	11/02/24 3:06 AM
B1101059.d	RINSE	ICAL	1	11/02/24 3:12 AM
B1101060.d	CCV4	CCV	1	11/02/24 3:17 AM
B1101061.d	CCB4	CCB	1	11/02/24 3:23 AM
B1101062.d	N069543-007B	SAMP	1	11/02/24 3:29 AM
B1101063.d	N069543-008B	SAMP	1	11/02/24 3:35 AM
B1101064.d	N069543-009B	SAMP	1	11/02/24 3:41 AM
B1101065.d	N069543-010B	SAMP	1	11/02/24 3:47 AM
B1101066.d	N069543-011B	SAMP	1	11/02/24 3:53 AM
B1101067.d	N069543-012B	SAMP	1	11/02/24 3:59 AM
B1101068.d	N069543-013B	SAMP	1	11/02/24 4:05 AM
B1101069.d	N069543-014B	SAMP	1	11/02/24 4:11 AM
B1101070.d	N069543-015B	SAMP	1	11/02/24 4:17 AM
B1101071.d	RINSE	ICAL	1	11/02/24 4:23 AM
B1101072.d	CCV5	CCV	1	11/02/24 4:29 AM
B1101073.d	CCB5	CCB	1	11/02/24 4:35 AM
B1101074.d	N069543-016B	SAMP	1	11/02/24 4:40 AM
B1101075.d	N069543-017B	SAMP	1	11/02/24 4:46 AM
B1101076.d	N069543-019B	SAMP	1	11/02/24 4:52 AM
B1101077.d	N069543-020B	SAMP	1	11/02/24 4:58 AM
B1101078.d	RINSE	ICAL	1	11/02/24 5:04 AM
B1101079.d	CCV6	CCV	1	11/02/24 5:10 AM
B1101080.d	CCB6	CCB	1	11/02/24 5:16 AM
B1101081.d	ICSA3	ICSA	1	11/02/24 5:22 AM
B1101082.d	ICSAB3	ICSAB	1	11/02/24 5:28 AM
B1101083.d	MB-113746	MBLK	1	11/02/24 5:34 AM
B1101084.d	LCS-113746	LCS	1	11/02/24 5:39 AM
B1101085.d	N069542-001B	SAMP	1	11/02/24 5:45 AM

INJECTION LOG: 241101C

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1101086.d	N069542-002B	SAMP	1	11/02/24 5:51 AM
B1101087.d	N069542-003B	SAMP	1	11/02/24 5:57 AM
B1101088.d	N069582-002B	SAMP	1	11/02/24 6:03 AM
B1101089.d	N069582-003B	SAMP	1	11/02/24 6:09 AM
B1101090.d	N069582-004B	SAMP	1	11/02/24 6:15 AM
B1101091.d	N069582-005B	SAMP	1	11/02/24 6:21 AM
B1101092.d	RINSE	ICAL	1	11/02/24 6:27 AM
B1101093.d	CCV7	CCV	1	11/02/24 6:33 AM
B1101094.d	CCB7	CCB	1	11/02/24 6:39 AM
B1101095.d	N069582-006B	SAMP	1	11/02/24 6:44 AM
B1101096.d	N069583-001B	SAMP	1	11/02/24 6:50 AM
B1101097.d	N069583-002B	SAMP	1	11/02/24 6:56 AM
B1101098.d	N069583-003B	SAMP	1	11/02/24 7:02 AM
B1101099.d	N069583-003B	SAMP	5	11/02/24 7:08 AM
B1101100.d	N069583-003B-PS	PS	1	11/02/24 7:14 AM
B1101101.d	N069583-003BMS	MS	1	11/02/24 7:20 AM
B1101102.d	N069583-003BMSD	MSD	1	11/02/24 7:26 AM
B1101103.d	N069583-004B	SAMP	1	11/02/24 7:32 AM
B1101104.d	RINSE	ICAL	1	11/02/24 7:38 AM
B1101105.d	CCV8	CCV	1	11/02/24 7:44 AM
B1101106.d	CCB8	CCB	1	11/02/24 7:49 AM
B1101107.d	N069583-006B	SAMP	1	11/02/24 7:55 AM
B1101108.d	N069583-008B	SAMP	1	11/02/24 8:01 AM
B1101109.d	N069583-009B	SAMP	1	11/02/24 8:07 AM
B1101110.d	N069583-010B	SAMP	1	11/02/24 8:13 AM
B1101111.d	N069585-001B	SAMP	1	11/02/24 8:19 AM
B1101112.d	RINSE	ICAL	1	11/02/24 8:25 AM
B1101113.d	CCV9	CCV	1	11/02/24 8:31 AM
B1101114.d	CCB9	CCB	1	11/02/24 8:37 AM
B1101115.d	ICSA4	ICSA	1	11/02/24 8:42 AM
B1101116.d	ICSAB4	ICSAB	1	11/02/24 8:48 AM
B1101117.d	RINSE	ICAL	1	11/02/24 8:54 AM
B1101118.d	RINSE	ICAL	1	11/02/24 9:00 AM
B1101119.d	RINSE	ICAL	1	11/02/24 9:06 AM

INJECTION LOG: 241103B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1103001.d	RINSE	ICAL	1	11/03/24 10:21 PM
A1103002.d	RINSE	ICAL	1	11/03/24 10:27 PM
A1103003.d	RINSE	ICAL	1	11/03/24 10:33 PM
A1103004.d	Cal Blk	IBLK	1	11/03/24 10:39 PM
A1103005.d	Std1-0.1/1 ppb	ICAL	1	11/03/24 10:45 PM
A1103006.d	Std2-0.5/5 ppb	ICAL	1	11/03/24 10:51 PM
A1103007.d	Std3-5/50 ppb	ICAL	1	11/03/24 10:57 PM
A1103008.d	Std4-10/100 ppb	ICAL	1	11/03/24 11:03 PM
A1103009.d	Std5-4.0/20/200 ppb	ICAL	1	11/03/24 11:09 PM
A1103010.d	Std6-8.0/40/400 ppb	ICAL	1	11/03/24 11:15 PM
A1103011.d	Std7-100/1000 ppb	ICAL	1	11/03/24 11:21 PM
A1103012.d	Std8-200/2000 ppb	ICAL	1	11/03/24 11:27 PM
A1103013.d	ICV	ICV	1	11/03/24 11:53 PM
A1103014.d	ICB	ICB	1	11/03/24 11:59 PM
A1103015.d	LLCCV1	CCV1	1	11/04/24 12:05 AM
A1103016.d	LLCCV2	CCV1	1	11/04/24 12:11 AM
A1103017.d	MLCCV1	CCV	1	11/04/24 12:17 AM
A1103018.d	ICSA1	ICSA	1	11/04/24 12:22 AM
A1103019.d	ICSA1	ICSA	1	11/04/24 12:28 AM
A1103020.d	ICSAB1	ICSAB	1	11/04/24 12:34 AM
A1103021.d	N069306-004A	SAMP	1	11/04/24 12:40 AM
A1103022.d	N069306-004D	SAMP	1	11/04/24 12:46 AM
A1103023.d	N069306-005A	SAMP	1	11/04/24 12:52 AM
A1103024.d	N069306-005D	SAMP	1	11/04/24 12:57 AM
A1103025.d	N069306-008A	SAMP	1	11/04/24 1:03 AM
A1103026.d	N069306-008D	SAMP	1	11/04/24 1:09 AM
A1103027.d	RINSE	ICAL	1	11/04/24 1:15 AM
A1103028.d	CCV1	CCV	1	11/04/24 1:21 AM
A1103029.d	CCB1	CCB	1	11/04/24 1:27 AM
A1103030.d	ICSA2	ICSA	1	11/04/24 1:33 AM
A1103031.d	ICSAB2	ICSAB	1	11/04/24 1:39 AM
A1103032.d	MB-113718	MBLK	1	11/04/24 1:44 AM
A1103033.d	LCS-113718	LCS	1	11/04/24 1:50 AM
A1103034.d	N069543-001B	SAMP	1	11/04/24 1:56 AM
A1103035.d	N069543-002B	SAMP	1	11/04/24 2:02 AM
A1103036.d	N069543-002B	SAMP	5	11/04/24 2:08 AM
A1103037.d	N069543-002B-PS	PS	1	11/04/24 2:14 AM
A1103038.d	N069543-002B-MS	MS	1	11/04/24 2:20 AM
A1103039.d	N069543-002B-MSD	MSD	1	11/04/24 2:26 AM
A1103040.d	N069543-003B	SAMP	1	11/04/24 2:32 AM
A1103041.d	RINSE	ICAL	1	11/04/24 2:38 AM
A1103042.d	CCV2	CCV	1	11/04/24 2:44 AM

INJECTION LOG: 241103B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1103043.d	CCB2	CCB	1	11/04/24 2:50 AM
A1103044.d	N069543-004B	SAMP	1	11/04/24 2:55 AM
A1103045.d	N069543-005B	SAMP	1	11/04/24 3:01 AM
A1103046.d	N069543-006B	SAMP	1	11/04/24 3:07 AM
A1103047.d	N069543-007B	SAMP	1	11/04/24 3:13 AM
A1103048.d	N069543-008B	SAMP	1	11/04/24 3:19 AM
A1103049.d	N069543-009B	SAMP	1	11/04/24 3:25 AM
A1103050.d	N069543-010B	SAMP	1	11/04/24 3:31 AM
A1103051.d	N069543-011B	SAMP	1	11/04/24 3:37 AM
A1103052.d	N069543-012B	SAMP	1	11/04/24 3:43 AM
A1103053.d	RINSE	ICAL	1	11/04/24 3:49 AM
A1103054.d	CCV3	CCV	1	11/04/24 3:55 AM
A1103055.d	CCB3	CCB	1	11/04/24 4:01 AM
A1103056.d	N069543-013B	SAMP	1	11/04/24 4:07 AM
A1103057.d	N069543-014B	SAMP	1	11/04/24 4:13 AM
A1103058.d	N069543-015B	SAMP	1	11/04/24 4:19 AM
A1103059.d	N069543-016B	SAMP	1	11/04/24 4:25 AM
A1103060.d	N069543-017B	SAMP	1	11/04/24 4:30 AM
A1103061.d	N069543-019B	SAMP	1	11/04/24 4:36 AM
A1103062.d	N069543-020B	SAMP	1	11/04/24 4:42 AM
A1103063.d	N069543-005B	SAMP	1	11/04/24 4:48 AM
A1103064.d	N069543-006B	SAMP	1	11/04/24 4:54 AM
A1103065.d	N069543-005B	SAMP	1	11/04/24 5:00 AM
A1103066.d	CCV4	CCV	1	11/04/24 5:09 AM
A1103067.d	CCB4	CCB	1	11/04/24 5:15 AM
A1103068.d	ICSA3	ICSA	1	11/04/24 5:21 AM
A1103069.d	ICSAB3	ICSAB	1	11/04/24 5:27 AM
A1103070.d	MB-113746	MBLK	1	11/04/24 5:32 AM
A1103071.d	LCS-113746	LCS	1	11/04/24 5:38 AM
A1103072.d	N069542-001B	SAMP	10	11/04/24 5:44 AM
A1103073.d	N069542-002B	SAMP	10	11/04/24 5:50 AM
A1103074.d	N069542-003B	SAMP	10	11/04/24 5:56 AM
A1103075.d	N069582-002B	SAMP	1	11/04/24 6:02 AM
A1103076.d	N069582-003B	SAMP	1	11/04/24 6:08 AM
A1103077.d	N069582-004B	SAMP	1	11/04/24 6:14 AM
A1103078.d	N069582-005B	SAMP	1	11/04/24 6:19 AM
A1103079.d	RINSE	ICAL	1	11/04/24 6:25 AM
A1103080.d	CCV4	CCV	1	11/04/24 6:31 AM
A1103081.d	CCB4	CCB	1	11/04/24 6:37 AM
A1103082.d	N069582-006B	SAMP	1	11/04/24 6:43 AM
A1103083.d	N069583-001B	SAMP	1	11/04/24 6:49 AM
A1103084.d	N069583-001B	SAMP	10	11/04/24 6:55 AM

INJECTION LOG: 241103B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1103085.d	N069583-002B	SAMP	1	11/04/24 7:01 AM
A1103086.d	N069583-002B	SAMP	10	11/04/24 7:07 AM
A1103087.d	N069583-003B	SAMP	1	11/04/24 7:12 AM
A1103088.d	N069583-003B	SAMP	5	11/04/24 7:18 AM
A1103089.d	N069583-003B	SAMP	10	11/04/24 7:24 AM
A1103090.d	N069583-003B	SAMP	50	11/04/24 7:30 AM
A1103091.d	CCV5	CCV	1	11/04/24 7:36 AM
A1103092.d	CCB5	CCB	1	11/04/24 7:42 AM
A1103093.d	N069583-003B-PS	PS	1	11/04/24 7:48 AM
A1103094.d	N069583-003B-PS	PS	10	11/04/24 7:54 AM
A1103095.d	N069583-003BMS	MS	1	11/04/24 8:00 AM
A1103096.d	N069583-003BMS	MS	10	11/04/24 8:05 AM
A1103097.d	N069583-003BMSD	MSD	1	11/04/24 8:11 AM
A1103098.d	N069583-003BMSD	MSD	10	11/04/24 8:17 AM
A1103099.d	N069583-004B	SAMP	1	11/04/24 8:23 AM
A1103100.d	N069583-004B	SAMP	10	11/04/24 8:29 AM
A1103101.d	N069583-006B	SAMP	1	11/04/24 8:35 AM
A1103102.d	RINSE	ICAL	1	11/04/24 8:41 AM
A1103103.d	CCV6	CCV	1	11/04/24 8:47 AM
A1103104.d	CCB6	CCB	1	11/04/24 8:53 AM
A1103105.d	N069583-008B	SAMP	1	11/04/24 8:58 AM
A1103106.d	N069583-008B	SAMP	10	11/04/24 9:04 AM
A1103107.d	N069583-009B	SAMP	1	11/04/24 9:10 AM
A1103108.d	N069583-009B	SAMP	10	11/04/24 9:16 AM
A1103109.d	N069583-010B	SAMP	1	11/04/24 9:22 AM
A1103110.d	N069583-010B	SAMP	100	11/04/24 9:28 AM
A1103111.d	N069585-001B	SAMP	1	11/04/24 9:34 AM
A1103112.d	RINSE	ICAL	1	11/04/24 9:40 AM
A1103113.d	CCV7	CCV	1	11/04/24 9:46 AM
A1103114.d	CCB7	CCB	1	11/04/24 9:52 AM
A1103115.d	ICSA4	ICSA	1	11/04/24 9:57 AM
A1103116.d	ICSAB4	ICSAB	1	11/04/24 10:03 AM
A1103117.d	MB-113831	MBLK	1	11/04/24 10:09 AM
A1103118.d	LCS-113831	LCS	1	11/04/24 10:15 AM
A1103119.d	N069629-001B	SAMP	1	11/04/24 10:21 AM
A1103120.d	N069629-001B	SAMP	5	11/04/24 10:27 AM
A1103121.d	N069629-001B-PS	PS	1	11/04/24 10:33 AM
A1103122.d	N069629-001B-MS	MS	1	11/04/24 10:39 AM
A1103123.d	N069629-001B-MSD	MSD	1	11/04/24 10:45 AM
A1103124.d	N069629-002B	SAMP	1	11/04/24 10:50 AM
A1103125.d	N069631-008B	SAMP	1	11/04/24 10:56 AM
A1103126.d	RINSE	ICAL	1	11/04/24 11:02 AM

INJECTION LOG: 241103B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1103127.d	CCV8	CCV	1	11/04/24 11:08 AM
A1103128.d	CCB8	CCB	1	11/04/24 11:14 AM
A1103129.d	N069631-009B	SAMP	1	11/04/24 11:20 AM
A1103130.d	N069631-010B	SAMP	1	11/04/24 11:26 AM
A1103131.d	N069631-011B	SAMP	1	11/04/24 11:32 AM
A1103132.d	N069631-012B	SAMP	1	11/04/24 11:38 AM
A1103133.d	N069631-013B	SAMP	1	11/04/24 11:44 AM
A1103134.d	N069631-014B	SAMP	1	11/04/24 11:50 AM
A1103135.d	N069638-001B	SAMP	1	11/04/24 11:56 AM
A1103136.d	N069638-002B	SAMP	1	11/04/24 12:02 PM
A1103137.d	N069638-003B	SAMP	1	11/04/24 12:08 PM
A1103138.d	RINSE	ICAL	1	11/04/24 12:14 PM
A1103139.d	CCV9	CCV	1	11/04/24 12:20 PM
A1103140.d	CCB9	CCB	1	11/04/24 12:25 PM
A1103141.d	N069638-007B	SAMP	1	11/04/24 12:31 PM
A1103142.d	N069638-008B	SAMP	1	11/04/24 12:37 PM
A1103143.d	N069638-009B	SAMP	1	11/04/24 12:43 PM
A1103144.d	RINSE	ICAL	1	11/04/24 12:49 PM
A1103145.d	CCV10	CCV	1	11/04/24 12:55 PM
A1103146.d	CCB10	CCB	1	11/04/24 1:01 PM
A1103147.d	MB-113832	MBLK	1	11/04/24 1:07 PM
A1103148.d	LCS-113832	LCS	1	11/04/24 1:12 PM
A1103149.d	N069542-001C	SAMP	1	11/04/24 1:18 PM
A1103150.d	N069542-001C	SAMP	5	11/04/24 1:24 PM
A1103151.d	N069542-001C-PS	PS	1	11/04/24 1:30 PM
A1103152.d	N069542-001C-MS	MS	1	11/04/24 1:36 PM
A1103153.d	N069542-001C-MSD	MSD	1	11/04/24 1:42 PM
A1103154.d	N069542-002C	SAMP	1	11/04/24 1:48 PM
A1103155.d	N069542-003C	SAMP	1	11/04/24 1:54 PM
A1103156.d	RINSE	ICAL	1	11/04/24 2:00 PM
A1103157.d	CCV11	CCV	1	11/04/24 2:06 PM
A1103158.d	CCB11	CCB	1	11/04/24 2:12 PM
A1103159.d	ICSA5	ICSA	1	11/04/24 2:17 PM
A1103160.d	ICSAB5	ICSAB	1	11/04/24 2:23 PM
A1103161.d	RINSE	ICAL	1	11/04/24 2:29 PM
A1103162.d	RINSE	ICAL	1	11/04/24 2:35 PM

INJECTION LOG: 241105B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1105001.d	RINSE	ICAL	1	11/05/24 4:12 PM
B1105002.d	RINSE	ICAL	1	11/05/24 4:18 PM
B1105003.d	Cal Blk	IBLK	1	11/05/24 4:24 PM
B1105004.d	Std1-0.1/1 ppb	ICAL	1	11/05/24 4:30 PM
B1105005.d	Std2-0.5/5 ppb	ICAL	1	11/05/24 4:36 PM
B1105006.d	Std3-5/50 ppb	ICAL	1	11/05/24 4:42 PM
B1105007.d	Std4-10/100 ppb	ICAL	1	11/05/24 4:48 PM
B1105008.d	Std5-4.0/20/200 ppb	ICAL	1	11/05/24 4:54 PM
B1105009.d	Std6-8.0/40/400 ppb	ICAL	1	11/05/24 5:00 PM
B1105010.d	Std7-100/1000 ppb	ICAL	1	11/05/24 5:06 PM
B1105011.d	Std8-200/2000 ppb	ICAL	1	11/05/24 5:12 PM
B1105012.d	ICV	ICV	1	11/05/24 5:20 PM
B1105013.d	ICB	ICB	1	11/05/24 5:26 PM
B1105014.d	LLCCV1	CCV1	1	11/05/24 5:32 PM
B1105015.d	LLCCV2	CCV1	1	11/05/24 5:38 PM
B1105016.d	MLCCV1	CCV	1	11/05/24 5:44 PM
B1105017.d	ICSA1	ICSA	1	11/05/24 5:50 PM
B1105018.d	ICSAB1	ICSAB	1	11/05/24 5:56 PM
B1105019.d	MB-113875	MBLK	1	11/05/24 6:01 PM
B1105020.d	LCS-113875	LCS	1	11/05/24 6:07 PM
B1105021.d	N069694-003B	SAMP	1	11/05/24 6:13 PM
B1105022.d	N069694-003B	SAMP	5	11/05/24 6:19 PM
B1105023.d	N069694-003B-PS	PS	1	11/05/24 6:25 PM
B1105024.d	N069694-003B-MS	MS	1	11/05/24 6:31 PM
B1105025.d	N069694-003B-MSD	MSD	1	11/05/24 6:37 PM
B1105026.d	RINSE	ICAL	1	11/05/24 6:43 PM
B1105027.d	CCV1	CCV	1	11/05/24 6:48 PM
B1105028.d	CCB1	CCB	1	11/05/24 6:54 PM
B1105029.d	ICSA2	ICSA	1	11/05/24 7:00 PM
B1105030.d	ICSAB2	ICSAB	1	11/05/24 7:06 PM
B1105031.d	MB-113874	MBLK	1	11/05/24 7:12 PM
B1105032.d	LCS-113874	LCS	1	11/05/24 7:18 PM
B1105033.d	N069234-016D	SAMP	1	11/05/24 7:23 PM
B1105034.d	N069234-016D	SAMP	5	11/05/24 7:29 PM
B1105035.d	N069234-016D-PS	PS	1	11/05/24 7:35 PM
B1105036.d	N069234-016D-MS	MS	1	11/05/24 7:41 PM
B1105037.d	N069234-016D-MSD	MSD	1	11/05/24 7:47 PM
B1105038.d	RINSE	ICAL	1	11/05/24 7:53 PM
B1105039.d	CCV2	CCV	1	11/05/24 7:59 PM
B1105040.d	CCB2	CCB	1	11/05/24 8:04 PM
B1105041.d	MB-113864	MBLK	1	11/05/24 8:10 PM
B1105042.d	LCS-113864	LCS	1	11/05/24 8:16 PM

INJECTION LOG: 241105B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1105043.d	N069694-001B	SAMP	1	11/05/24 8:22 PM
B1105044.d	N069694-002B	SAMP	1	11/05/24 8:28 PM
B1105045.d	N069694-003B	SAMP	1	11/05/24 8:34 PM
B1105046.d	N069694-004B	SAMP	1	11/05/24 8:40 PM
B1105047.d	N069695-001B	SAMP	1	11/05/24 8:45 PM
B1105048.d	N069695-001B	SAMP	5	11/05/24 8:51 PM
B1105049.d	N069695-001B-PS	PS	1	11/05/24 8:57 PM
B1105050.d	RINSE	ICAL	1	11/05/24 9:03 PM
B1105051.d	CCV3	CCV	1	11/05/24 9:09 PM
B1105052.d	CCB3	CCB	1	11/05/24 9:15 PM
B1105053.d	N069695-001BMS	MS	1	11/05/24 9:21 PM
B1105054.d	N069695-001BMSD	MSD	1	11/05/24 9:26 PM
B1105055.d	N069695-002B	SAMP	1	11/05/24 9:32 PM
B1105056.d	N069695-003B	SAMP	1	11/05/24 9:38 PM
B1105057.d	N069695-003B	SAMP	5	11/05/24 9:44 PM
B1105058.d	N069695-003B-PS	PS	1	11/05/24 9:50 PM
B1105059.d	N069695-003BMS	MS	1	11/05/24 9:56 PM
B1105060.d	N069695-003BMSD	MSD	1	11/05/24 10:02 PM
B1105061.d	N069697-001B	SAMP	1	11/05/24 10:08 PM
B1105062.d	RINSE	ICAL	1	11/05/24 10:13 PM
B1105063.d	CCV4	CCV	1	11/05/24 10:19 PM
B1105064.d	CCB4	CCB	1	11/05/24 10:25 PM
B1105065.d	N069697-002B	SAMP	1	11/05/24 10:31 PM
B1105066.d	N069697-003B	SAMP	1	11/05/24 10:37 PM
B1105067.d	N069697-004B	SAMP	1	11/05/24 10:43 PM
B1105068.d	N069697-005B	SAMP	1	11/05/24 10:49 PM
B1105069.d	N069697-006B	SAMP	1	11/05/24 10:54 PM
B1105070.d	N069697-007B	SAMP	1	11/05/24 11:00 PM
B1105071.d	N069697-008B	SAMP	1	11/05/24 11:06 PM
B1105072.d	N069697-009B	SAMP	1	11/05/24 11:12 PM
B1105073.d	N069697-010D	SAMP	1	11/05/24 11:18 PM
B1105074.d	RINSE	ICAL	1	11/05/24 11:24 PM
B1105075.d	CCV5	CCV	1	11/05/24 11:30 PM
B1105076.d	CCB5	CCB	1	11/05/24 11:36 PM
B1105077.d	N069697-011D	SAMP	1	11/05/24 11:41 PM
B1105078.d	N069697-012D	SAMP	1	11/05/24 11:48 PM
B1105079.d	N069697-013D	SAMP	1	11/05/24 11:54 PM
B1105080.d	RINSE	ICAL	1	11/06/24 12:00 AM
B1105081.d	CCV6	CCV	1	11/06/24 12:06 AM
B1105082.d	CCB6	CCB	1	11/06/24 12:11 AM
B1105083.d	ICSA3	ICSA	1	11/06/24 12:17 AM
B1105084.d	ICSAB3	ICSAB	1	11/06/24 12:23 AM

INJECTION LOG: 241105B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1105085.d	N069582-002B	SAMP	1	11/06/24 12:29 AM
B1105086.d	N069582-002B	SAMP	1	11/06/24 12:35 AM
B1105087.d	N069582-002B	SAMP	1	11/06/24 12:41 AM
B1105088.d	N069582-004B	SAMP	10	11/06/24 12:47 AM
B1105089.d	N069582-005B	SAMP	10	11/06/24 12:53 AM
B1105090.d	N069582-006B	SAMP	10	11/06/24 12:59 AM
B1105091.d	N069583-003B	SAMP	1	11/06/24 1:05 AM
B1105092.d	N069583-003B	SAMP	1	11/06/24 1:10 AM
B1105093.d	N069583-003B	SAMP	1	11/06/24 1:16 AM
B1105094.d	RINSE	ICAL	1	11/06/24 1:22 AM
B1105095.d	CCV7	CCV	1	11/06/24 1:28 AM
B1105096.d	CCB7	CCB	1	11/06/24 1:34 AM
B1105097.d	N069629-001B	SAMP	1	11/06/24 1:40 AM
B1105098.d	N069631-008B	SAMP	10	11/06/24 1:46 AM
B1105099.d	N069631-009B	SAMP	1	11/06/24 1:52 AM
B1105100.d	N069631-010B	SAMP	1	11/06/24 1:58 AM
B1105101.d	N069631-010B	SAMP	10	11/06/24 2:04 AM
B1105102.d	N069631-011B	SAMP	10	11/06/24 2:10 AM
B1105103.d	N069631-012B	SAMP	10	11/06/24 2:16 AM
B1105104.d	N069631-013B	SAMP	10	11/06/24 2:22 AM
B1105105.d	N069631-014B	SAMP	10	11/06/24 2:28 AM
B1105106.d	N069638-001B	SAMP	10	11/06/24 2:33 AM
B1105107.d	CCV8	CCV	1	11/06/24 2:39 AM
B1105108.d	CCB8	CCB	1	11/06/24 2:45 AM
B1105109.d	N069638-007B	SAMP	1	11/06/24 2:51 AM
B1105110.d	N069629-001B	SAMP	1	11/06/24 2:57 AM
B1105111.d	N069631-009B	SAMP	1	11/06/24 3:03 AM
B1105112.d	N069631-010B	SAMP	1	11/06/24 3:09 AM
B1105113.d	N069629-001B	SAMP	1	11/06/24 3:15 AM
B1105114.d	N069631-009B	SAMP	1	11/06/24 3:21 AM
B1105115.d	N069631-010B	SAMP	1	11/06/24 3:27 AM
B1105116.d	N069638-007B	SAMP	1	11/06/24 3:33 AM
B1105117.d	N069638-008B	SAMP	10	11/06/24 3:39 AM
B1105118.d	N069638-009B	SAMP	100	11/06/24 3:45 AM
B1105119.d	CCV9	CCV	1	11/06/24 3:50 AM
B1105120.d	CCB9	CCB	1	11/06/24 3:56 AM
B1105121.d	ICSA4	ICSA	1	11/06/24 4:02 AM
B1105122.d	ICSAB4	ICSAB	1	11/06/24 4:08 AM
B1105123.d	RINSE	ICAL	1	11/06/24 4:14 AM
B1105124.d	RINSE	ICAL	1	11/06/24 4:20 AM
B1105125.d	RINSE	ICAL	1	11/06/24 4:26 AM

INJECTION LOG: 241116D

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
D1116001.d	RINSE	ICAL	1	11/16/24 10:43 PM
D1116002.d	RINSE	ICAL	1	11/16/24 10:48 PM
D1116003.d	Cal Blk	IBLK	1	11/16/24 10:54 PM
D1116004.d	Std1-0.1/1 ppb	ICAL	1	11/16/24 11:00 PM
D1116005.d	Std2-0.5/5 ppb	ICAL	1	11/16/24 11:06 PM
D1116006.d	Std3-5/50 ppb	ICAL	1	11/16/24 11:12 PM
D1116007.d	Std4-10/100 ppb	ICAL	1	11/16/24 11:19 PM
D1116008.d	Std5-4.0/20/200 ppb	ICAL	1	11/16/24 11:25 PM
D1116009.d	Std6-8.0/40/400 ppb	ICAL	1	11/16/24 11:31 PM
D1116010.d	Std7-100/1000 ppb	ICAL	1	11/16/24 11:37 PM
D1116011.d	Std8-200/2000 ppb	ICAL	1	11/16/24 11:43 PM
D1116012.d	ICV	ICV	1	11/17/24 12:02 AM
D1116013.d	ICB	ICB	1	11/17/24 12:08 AM
D1116014.d	LLCCV1	CCV1	1	11/17/24 12:14 AM
D1116015.d	LLCCV2	CCV1	1	11/17/24 12:20 AM
D1116016.d	MLCCV1	CCV	1	11/17/24 12:25 AM
D1116017.d	ICSA1	ICSA	1	11/17/24 12:31 AM
D1116018.d	ICSAB1	ICSAB	1	11/17/24 12:37 AM
D1116019.d	N069839-004D	SAMP	1	11/17/24 12:43 AM
D1116020.d	MB-114153	MBLK	1	11/17/24 12:50 AM
D1116021.d	LCS-114153	LCS	1	11/17/24 12:56 AM
D1116022.d	N069824-001D	SAMP	1	11/17/24 1:02 AM
D1116023.d	N069824-001D	SAMP	5	11/17/24 1:07 AM
D1116024.d	N069824-001D-PS	PS	1	11/17/24 1:13 AM
D1116025.d	N069824-001D-MS	MS	1	11/17/24 1:19 AM
D1116026.d	N069824-001D-MSD	MSD	1	11/17/24 1:25 AM
D1116027.d	CCV1	CCV	1	11/17/24 1:31 AM
D1116028.d	CCB1	CCB	1	11/17/24 1:37 AM
D1116029.d	ICSA2	ICSA	1	11/17/24 1:43 AM
D1116030.d	ICSAB2	ICSAB	1	11/17/24 1:49 AM
D1116031.d	MB-114162	MBLK	1	11/17/24 1:55 AM
D1116032.d	LCS-114162	LCS	1	11/17/24 2:00 AM
D1116033.d	N069923-001C	SAMP	1	11/17/24 2:06 AM
D1116034.d	N069923-001C	SAMP	5	11/17/24 2:12 AM
D1116035.d	N069923-001C-PS	PS	1	11/17/24 2:18 AM
D1116036.d	N069923-001C-MS	MS	1	11/17/24 2:24 AM
D1116037.d	N069923-001C-MSD	MSD	1	11/17/24 2:30 AM
D1116038.d	N069923-002C	SAMP	1	11/17/24 2:36 AM
D1116039.d	N069923-003C	SAMP	1	11/17/24 2:42 AM
D1116040.d	RINSE	ICAL	1	11/17/24 2:48 AM
D1116041.d	CCV2	CCV	1	11/17/24 2:54 AM
D1116042.d	CCB2	CCB	1	11/17/24 2:59 AM

INJECTION LOG: 241116D

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
D1116043.d	ICSA3	ICSA	1	11/17/24 3:05 AM
D1116044.d	ICSAB3	ICSAB	1	11/17/24 3:11 AM
D1116045.d	MB-114150	MBLK	1	11/17/24 3:17 AM
D1116046.d	LCS-114150	LCS	1	11/17/24 3:23 AM
D1116047.d	N069993-001C	SAMP	1	11/17/24 3:29 AM
D1116048.d	N069993-001C	SAMP	5	11/17/24 3:34 AM
D1116049.d	N069993-001C-PS	PS	1	11/17/24 3:40 AM
D1116050.d	N069993-001CMS	MS	1	11/17/24 3:46 AM
D1116051.d	N069993-001CMSD	MSD	1	11/17/24 3:52 AM
D1116052.d	N069993-002C	SAMP	1	11/17/24 3:58 AM
D1116053.d	N069993-003C	SAMP	1	11/17/24 4:04 AM
D1116054.d	N069993-004C	SAMP	1	11/17/24 4:10 AM
D1116055.d	CCV3	CCV	1	11/17/24 4:16 AM
D1116056.d	CCB3	CCB	1	11/17/24 4:21 AM
D1116057.d	N069993-005C	SAMP	1	11/17/24 4:27 AM
D1116058.d	N069993-006C	SAMP	1	11/17/24 4:33 AM
D1116059.d	N069993-007C	SAMP	1	11/17/24 4:39 AM
D1116060.d	N069993-008C	SAMP	1	11/17/24 4:45 AM
D1116061.d	N069993-009C	SAMP	1	11/17/24 4:51 AM
D1116062.d	N069993-010C	SAMP	1	11/17/24 4:57 AM
D1116063.d	N069993-011C	SAMP	1	11/17/24 5:03 AM
D1116064.d	N069993-012C	SAMP	1	11/17/24 5:09 AM
D1116065.d	N069993-013C	SAMP	1	11/17/24 5:14 AM
D1116066.d	RINSE	ICAL	1	11/17/24 5:20 AM
D1116067.d	CCV4	CCV	1	11/17/24 5:26 AM
D1116068.d	CCB4	CCB	1	11/17/24 5:32 AM
D1116069.d	ICSA4	ICSA	1	11/17/24 5:38 AM
D1116070.d	ICSAB4	ICSAB	1	11/17/24 5:44 AM
D1116071.d	MB-114151	MBLK	1	11/17/24 5:50 AM
D1116072.d	LCS-114151	LCS	1	11/17/24 5:55 AM
D1116073.d	N069991-002B	SAMP	1	11/17/24 6:01 AM
D1116074.d	N069991-003B	SAMP	1	11/17/24 6:07 AM
D1116075.d	N069991-004B	SAMP	1	11/17/24 6:13 AM
D1116076.d	N069991-005B	SAMP	1	11/17/24 6:19 AM
D1116077.d	N069991-007C	SAMP	1	11/17/24 6:25 AM
D1116078.d	N069991-008C	SAMP	1	11/17/24 6:31 AM
D1116079.d	N069991-009C	SAMP	1	11/17/24 6:37 AM
D1116080.d	RINSE	ICAL	1	11/17/24 6:43 AM
D1116081.d	CCV5	CCV	1	11/17/24 6:49 AM
D1116082.d	CCB5	CCB	1	11/17/24 6:55 AM
D1116083.d	N069991-010C	SAMP	1	11/17/24 7:00 AM
D1116084.d	N069996-001B	SAMP	1	11/17/24 7:06 AM

INJECTION LOG: 241116D

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
D1116085.d	N069996-002C	SAMP	1	11/17/24 7:12 AM
D1116086.d	N069996-003B	SAMP	1	11/17/24 7:18 AM
D1116087.d	N069996-004B	SAMP	1	11/17/24 7:24 AM
D1116088.d	N069996-006C	SAMP	1	11/17/24 7:30 AM
D1116089.d	N069996-007B	SAMP	1	11/17/24 7:36 AM
D1116090.d	N069996-008C	SAMP	1	11/17/24 7:42 AM
D1116091.d	N069996-009C	SAMP	1	11/17/24 7:48 AM
D1116092.d	RINSE	ICAL	1	11/17/24 7:54 AM
D1116093.d	CCV6	CCV	1	11/17/24 8:00 AM
D1116094.d	CCB6	CCB	1	11/17/24 8:06 AM
D1116095.d	N069996-010C	SAMP	1	11/17/24 8:12 AM
D1116096.d	N069996-010C	SAMP	5	11/17/24 8:18 AM
D1116097.d	N069996-010C-PS	PS	1	11/17/24 8:24 AM
D1116098.d	N069996-010CMS	MS	1	11/17/24 8:29 AM
D1116099.d	N069996-010CMSD	MSD	1	11/17/24 8:35 AM
D1116100.d	N069996-011C	SAMP	1	11/17/24 8:41 AM
D1116101.d	N069583-008B	SAMP	1	11/17/24 8:47 AM
D1116102.d	RINSE	ICAL	1	11/17/24 8:53 AM
D1116103.d	CCV7	CCV	1	11/17/24 8:59 AM
D1116104.d	CCB7	CCB	1	11/17/24 9:05 AM
D1116105.d	ICSA5	ICSA	1	11/17/24 9:11 AM
D1116106.d	ICSAB5	ICSAB	1	11/17/24 9:17 AM
D1116107.d	MB-114121	MBLK	1	11/17/24 9:22 AM
D1116108.d	LCS-114121	LCS	1	11/17/24 9:28 AM
D1116109.d	N069958-001C	SAMP	1	11/17/24 9:34 AM
D1116110.d	N069958-002C	SAMP	1	11/17/24 9:40 AM
D1116111.d	N069958-002C	SAMP	5	11/17/24 9:46 AM
D1116112.d	N069958-002C-PS	PS	1	11/17/24 9:52 AM
D1116113.d	N069958-002C-MS	MS	1	11/17/24 9:58 AM
D1116114.d	N069958-002C-MSD	MSD	1	11/17/24 10:04 AM
D1116115.d	N069958-003C	SAMP	1	11/17/24 10:09 AM
D1116116.d	RINSE	ICAL	1	11/17/24 10:15 AM
D1116117.d	CCV8	CCV	1	11/17/24 10:21 AM
D1116118.d	CCB8	CCB	1	11/17/24 10:27 AM
D1116119.d	N069958-004C	SAMP	1	11/17/24 10:33 AM
D1116120.d	N069958-005C	SAMP	1	11/17/24 10:39 AM
D1116121.d	N069958-006B	SAMP	1	11/17/24 10:45 AM
D1116122.d	N069958-007C	SAMP	1	11/17/24 10:51 AM
D1116123.d	N069958-008C	SAMP	1	11/17/24 10:56 AM
D1116124.d	N069958-009C	SAMP	1	11/17/24 11:02 AM
D1116125.d	N069958-010C	SAMP	1	11/17/24 11:08 AM
D1116126.d	N069958-011C	SAMP	1	11/17/24 11:14 AM

INJECTION LOG: 241116D

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
D1116127.d	N069958-012C	SAMP	1	11/17/24 11:20 AM
D1116128.d	RINSE	ICAL	1	11/17/24 11:26 AM
D1116129.d	CCV9	CCV	1	11/17/24 11:32 AM
D1116130.d	CCB9	CCB	1	11/17/24 11:38 AM
D1116131.d	N069958-013C	SAMP	1	11/17/24 11:43 AM
D1116132.d	N069958-014C	SAMP	1	11/17/24 11:49 AM
D1116133.d	N069958-015C	SAMP	1	11/17/24 11:55 AM
D1116134.d	RINSE	ICAL	1	11/17/24 12:01 PM
D1116135.d	CCV10	CCV	1	11/17/24 12:07 PM
D1116136.d	CCB10	CCB	1	11/17/24 12:13 PM
D1116137.d	ICSA6	ICSA	1	11/17/24 12:19 PM
D1116138.d	ICSAB6	ICSAB	1	11/17/24 12:24 PM
D1116139.d	MB-114123	MBLK	1	11/17/24 12:30 PM
D1116140.d	LCS-114123	LCS	1	11/17/24 12:36 PM
D1116141.d	N069965-001B	SAMP	1	11/17/24 12:42 PM
D1116142.d	N069965-002B	SAMP	1	11/17/24 12:48 PM
D1116143.d	N069965-004C	SAMP	1	11/17/24 12:54 PM
D1116144.d	N069965-004C	SAMP	5	11/17/24 1:00 PM
D1116145.d	N069965-004C-PS	PS	1	11/17/24 1:06 PM
D1116146.d	N069965-004C-MS	MS	1	11/17/24 1:12 PM
D1116147.d	N069965-004C-MSD	MSD	1	11/17/24 1:18 PM
D1116148.d	RINSE	ICAL	1	11/17/24 1:24 PM
D1116149.d	CCV11	CCV	1	11/17/24 1:29 PM
D1116150.d	CCB11	CCB	1	11/17/24 1:35 PM
D1116151.d	N069965-005C	SAMP	1	11/17/24 1:41 PM
D1116152.d	N069965-006C	SAMP	1	11/17/24 1:47 PM
D1116153.d	N069965-007C	SAMP	1	11/17/24 1:53 PM
D1116154.d	N069965-008C	SAMP	1	11/17/24 1:59 PM
D1116155.d	N069965-009C	SAMP	1	11/17/24 2:05 PM
D1116156.d	N069965-010C	SAMP	1	11/17/24 2:11 PM
D1116157.d	N069965-011C	SAMP	1	11/17/24 2:17 PM
D1116158.d	N069965-013B	SAMP	1	11/17/24 2:23 PM
D1116159.d	N069965-014B	SAMP	1	11/17/24 2:29 PM
D1116160.d	RINSE	ICAL	1	11/17/24 2:35 PM
D1116161.d	CCV12	CCV	1	11/17/24 2:40 PM
D1116162.d	CCB12	CCB	1	11/17/24 2:46 PM
D1116163.d	N069965-015B	SAMP	1	11/17/24 2:52 PM
D1116164.d	N069965-017B	SAMP	1	11/17/24 2:58 PM
D1116165.d	N069965-018C	SAMP	1	11/17/24 3:04 PM
D1116166.d	N069965-019C	SAMP	1	11/17/24 3:10 PM
D1116167.d	RINSE	ICAL	1	11/17/24 3:16 PM
D1116168.d	CCV13	CCV	1	11/17/24 3:22 PM

INJECTION LOG: 241116D

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
D1116169.d	CCB13	CCB	1	11/17/24 3:28 PM
D1116170.d	ICSA7	ICSA	1	11/17/24 3:33 PM
D1116171.d	ICSAB7	ICSAB	1	11/17/24 3:39 PM
D1116172.d	RINSE	ICAL	1	11/17/24 3:45 PM
D1116173.d	RINSE	ICAL	1	11/17/24 3:51 PM
D1116174.d	RINSE	ICAL	1	11/17/24 3:57 PM

SAMPLE PREPARATION LOG



ASSET LABORATORIES
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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: **10/31/2024 9:01:04 AM**
 Prep End Date: **10/31/2024 12:45:00 PM**

Reviewed/ Date: JRB 11/19/2024

Page: 1 of 2

Prep Batch **113746** Prep Code: **3010_W_MSDISS_TPK**

Initials/ Date: for
 Technician: **Diane Jetajobe**

Prep Factor Units Temp. (°C): Location:
 mL / mL **95 DB-4-38**

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-113746 50ML LOT# J96406-5447	Aqueous		25	<input type="checkbox"/>	25	1.000		
MB-113746 THERMOMETER ID: DIGESTION 7	Aqueous		25	<input type="checkbox"/>	25	1.000		
N069542-001B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069542-002B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069542-003B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069582-002B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069582-003B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069582-004B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069582-005B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069582-006B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-002B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-003B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17140	NITRIC ACID
17147	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-240815C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-240815D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-240815E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-240815F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: **10/31/2024 9:01:04 AM**
 Prep End Date: **10/31/2024 12:45:00 PM**

Reviewed/ Date: JRB 11/19/2024
 for _____

Page: 2 of 2

Prep Batch **113746** Prep Code: **3010_W_MSDISS_TPK**

Initials/ Date: _____
 Technician: **Diane Jetajobe**

Prep Factor Units Temp. (°C): Location:
 mL / mL **95 DB-4-38**

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N069583-003BMS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-003BMSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-004B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-006B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-008B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-009B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-010B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069585-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17140	NITRIC ACID
17147	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-240815C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-240815D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-240815E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-240815F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: **11/15/2024 1:32:00 PM**

Reviewed/ Date: *JRB* 11/19/2024

Page: 1 of 2

Prep End Date: **11/15/2024 5:45:00 PM**

Initials/ Date: _____ for _____

Prep Factor Units Temp. (°C): Location:

Prep Batch **114151** Prep Code: **3010_W_MSDISS_TPK**

Technician: **Diane Jetajobe**

mL / mL **95.1 DB-4-51**

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-114151 50ML LOT# J96406-5447	Aqueous		25	<input type="checkbox"/>	25	1.000		
MB-114151 THERMOMETER ID: DIGESTION 7	Aqueous		25	<input type="checkbox"/>	25	1.000		
N069583-008B REDIGEST	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069991-002B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069991-003B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069991-004B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069991-005B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069991-007C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069991-008C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069991-009C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069991-010C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069996-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17150	HYDROCHLORIC ACID
17254	NITRIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-240815C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-240815D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-240815E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-240815F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: **11/15/2024 1:32:00 PM**

Prep End Date: **11/15/2024 5:45:00 PM**

Prep Batch **114151** Prep Code:**3010_W_MSDISS_TPK**

Reviewed/ Date: *JRB* **11/19/2024**

Initials/ Date: *JRB* for _____

Technician: **Diane Jetajobe**

Page:2 of 2

Prep Factor Units mL / mL Temp. (°C): **95.1** Location: **DB-4-51**

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N069996-002C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069996-003B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069996-004B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069996-006C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069996-007B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069996-008C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069996-009C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069996-010C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069996-010CMS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069996-010CMSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069996-011C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17150	HYDROCHLORIC ACID
17254	NITRIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-240815C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-240815D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-240815E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-240815F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

INSTRUMENT TUNING CHECK



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\241031A2.b
Acq. Date-Time 2024-11-01 08:40:26
Report Comment —
Instrument Name G8421A SG19193757

[No Gas]

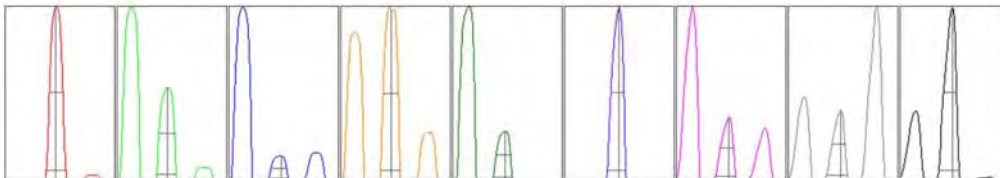
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	7356	73559.99	500.00		2.032	5.000
24	10.00	20517	205168.32	500.00		2.486	5.000
25	10.00	2713	27133.34	500.00		3.226	5.000
26	10.00	3106	31059.03	500.00		2.715	5.000
59	10.00	30751	307510.11	500.00		3.166	5.000
115	10.00	39048	390475.77	500.00		1.887	5.000
206	10.00	8592	85918.90	500.00		1.818	5.000
207	10.00	6781	67813.70	500.00		1.630	5.000
208	10.00	16982	169817.76	500.00		1.559	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.370 %
Doubly Charged 70 / 140 0.996 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	7530.09	8.90	8.90 - 9.10	
24	20369.50	23.90	23.90 - 24.10	
25	2614.33	24.95	24.90 - 25.10	
26	3048.83	25.90	25.90 - 26.10	
59	29609.26	58.95	58.90 - 59.10	
115	37460.70	115.00	114.90 - 115.10	
206	8565.55	205.95	205.90 - 206.10	
207	7135.03	206.95	206.90 - 207.10	
208	17872.34	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.38	0.526	0.900	
24	0.43	0.539	0.900	
25	0.43	0.533	0.900	
26	0.42	0.537	0.900	
59	0.40	0.498	0.900	
115	0.37	0.490	0.900	
206	0.37	0.559	0.900	
207	0.36	0.582	0.900	
208	0.36	0.573	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.2 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2635 V Pulse HV 1863 V

[H2]

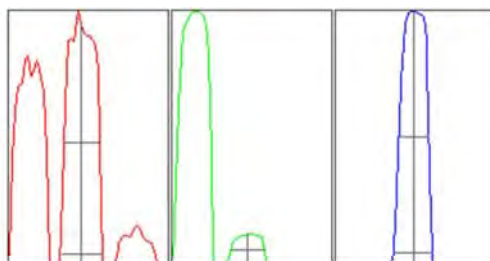
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		163	1628.88			9.264	
59		3302	33015.53			3.035	
115		32124	321242.76			1.905	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.266 %
 Doubly Charged 70 / 140 0.332 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	160.26	25.90	25.90 - 26.10	
59	3418.62	58.95	58.90 - 59.10	
115	33020.69	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.67	0.788	0.900	
59	0.63	0.738	0.900	
115	0.57	0.732	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0003	QP Bias	-15.0 V
Mass Offset	126	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2635 V	Pulse HV	1863 V
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[He]

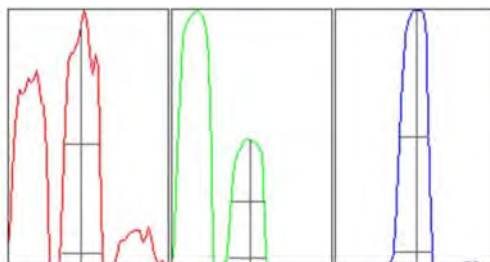
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		68	684.01			14.980	
59		5890	58899.04			2.185	
115		5350	53501.17			2.585	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.114 %
Doubly Charged	70 / 140 1.167 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	72.75	25.90	25.90 - 26.10	
59	6029.36	59.00	58.90 - 59.10	
115	5411.85	115.05	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.66	0.790	0.900	
59	0.62	0.740	0.900	
115	0.56	0.730	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0003	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2635 V	Pulse HV	1863 V
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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\241101C.b
Acq. Date-Time 2024-11-03 22:07:00
Report Comment —
Instrument Name G8421A SG19193757

[No Gas]

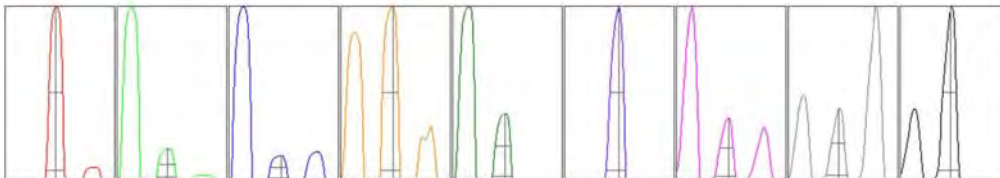
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	5417	54171.13	500.00		3.895	5.000
24	10.00	18113	181134.68	500.00		3.162	5.000
25	10.00	2399	23988.24	500.00		3.991	5.000
26	10.00	2740	27402.98	500.00		3.005	5.000
59	10.00	27813	278128.90	500.00		2.762	5.000
115	10.00	37760	377603.09	500.00		2.136	5.000
206	10.00	7957	79573.41	500.00		2.578	5.000
207	10.00	6230	62297.19	500.00		2.171	5.000
208	10.00	15627	156271.60	500.00		1.981	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.488 %
Doubly Charged 70 / 140 0.858 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	5382.53	8.90	8.90 - 9.10	
24	18039.81	23.90	23.90 - 24.10	
25	2372.48	24.95	24.90 - 25.10	
26	2782.62	25.95	25.90 - 26.10	
59	27056.27	58.95	58.90 - 59.10	
115	37443.11	115.00	114.90 - 115.10	
206	8208.37	205.95	205.90 - 206.10	
207	6843.19	206.90	206.90 - 207.10	
208	16836.48	207.90	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.38	0.490	0.900	
24	0.45	0.541	0.900	
25	0.45	0.548	0.900	
26	0.44	0.542	0.900	
59	0.42	0.538	0.900	
115	0.39	0.531	0.900	
206	0.37	0.582	0.900	
207	0.36	0.606	0.900	
208	0.38	0.594	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.1 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2640 V Pulse HV 1872 V

[H2]

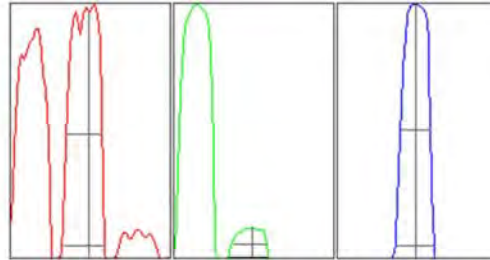
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		161	1614.68			6.992	
59		2324	23240.02			3.102	
115		32900	328995.40			2.512	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.408 %
 Doubly Charged 70 / 140 0.277 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	161.26	26.00	25.90 - 26.10	
59	2408.83	59.00	58.90 - 59.10	
115	34382.52	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.68	0.792	0.900	
59	0.65	0.743	0.900	
115	0.57	0.732	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	132	Axis Gain	1.0001	QP Bias	-15.0 V
Mass Offset	126	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.1 mm
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EM

Discriminator	4.5 mV	Analog HV	2640 V	Pulse HV	1872 V
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[He]

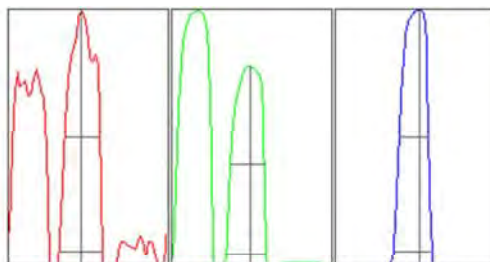
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		70	703.81			10.429	
59		6107	61071.23			1.630	
115		5125	51248.17			1.987	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.177 %
Doubly Charged	70 / 140 1.101 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	73.25	25.90	25.90 - 26.10	
59	6259.21	59.00	58.90 - 59.10	
115	5150.25	115.10	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.67	0.821	0.900	
59	0.64	0.742	0.900	
115	0.56	0.729	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	132	Axis Gain	1.0001	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.1 mm
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EM

Discriminator	4.5 mV	Analog HV	2640 V	Pulse HV	1872 V
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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\241103A.b
Acq. Date-Time 2024-11-05 11:29:09
Report Comment —
Instrument Name G8421A SG19193757

[No Gas]

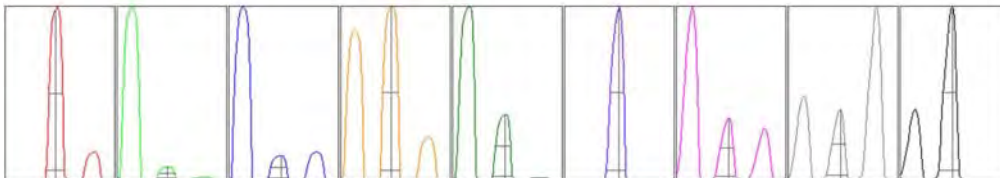
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	4888	48879.00	500.00		3.959	5.000
24	10.00	19646	196455.35	500.00		3.227	5.000
25	10.00	2583	25831.32	500.00		3.555	5.000
26	10.00	2951	29510.30	500.00		3.669	5.000
59	10.00	27289	272887.21	500.00		3.534	5.000
115	10.00	39232	392321.11	500.00		2.442	5.000
206	10.00	8820	88200.38	500.00		2.327	5.000
207	10.00	6890	68901.30	500.00		2.386	5.000
208	10.00	17379	173789.93	500.00		1.774	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.544 %
Doubly Charged 70 / 140 0.797 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	4794.02	8.90	8.90 - 9.10	
24	19543.03	23.90	23.90 - 24.10	
25	2564.02	24.95	24.90 - 25.10	
26	2983.95	25.90	25.90 - 26.10	
59	26620.55	58.95	58.90 - 59.10	
115	38574.62	115.00	114.90 - 115.10	
206	8742.39	205.95	205.90 - 206.10	
207	7306.93	206.95	206.90 - 207.10	
208	18171.35	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.38	0.489	0.900	
24	0.44	0.541	0.900	
25	0.44	0.543	0.900	
26	0.43	0.540	0.900	
59	0.41	0.536	0.900	
115	0.38	0.527	0.900	
206	0.37	0.580	0.900	
207	0.36	0.598	0.900	
208	0.37	0.582	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.2 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2642 V Pulse HV 1876 V

[H2]

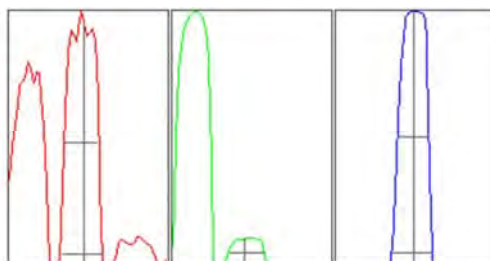
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		159	1586.87			8.791	
59		1988	19877.87			3.412	
115		32511	325106.03			2.213	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.449 %
 Doubly Charged 70 / 140 0.256 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	167.51	25.95	25.90 - 26.10	
59	2044.08	58.90	58.90 - 59.10	
115	33309.86	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.65	0.788	0.900	
59	0.66	0.782	0.900	
115	0.59	0.767	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0004	QP Bias	-15.0 V
Mass Offset	126	Axis Offset	-0.04		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2642 V	Pulse HV	1876 V
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[He]

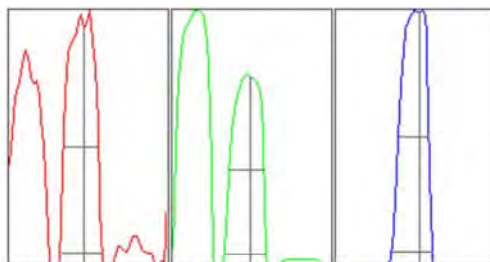
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		74	743.02			13.233	
59		5859	58589.96			2.236	
115		4989	49891.29			2.303	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.178 %
Doubly Charged	70 / 140 1.034 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	73.50	25.95	25.90 - 26.10	
59	5880.57	59.00	58.90 - 59.10	
115	5058.67	115.10	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.65	0.787	0.900	
59	0.65	0.785	0.900	
115	0.58	0.764	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0004	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	-0.04		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2642 V	Pulse HV	1876 V
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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\241116D.b
Acq. Date-Time 2024-11-16 22:37:14
Report Comment —
Instrument Name G8421A SG19193757

[No Gas]

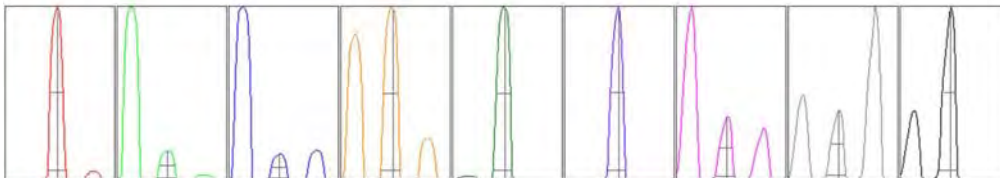
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	2712	27119.44	500.00		3.136	5.000
24	10.00	9127	91272.56	500.00		2.610	5.000
25	10.00	1226	12258.20	500.00		3.850	5.000
26	10.00	1418	14179.09	500.00		3.882	5.000
59	10.00	23254	232538.42	500.00		2.772	5.000
115	10.00	4296	42955.38	500.00		3.331	5.000
206	10.00	5184	51835.30	500.00		2.472	5.000
207	10.00	4180	41800.80	500.00		2.814	5.000
208	10.00	10416	104163.64	500.00		2.109	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.638 %
Doubly Charged 70 / 140 0.707 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	2761.29	8.95	8.90 - 9.10	
24	9073.13	23.90	23.90 - 24.10	
25	1267.51	24.90	24.90 - 25.10	
26	1485.95	25.95	25.90 - 26.10	
59	23353.57	58.95	58.90 - 59.10	
115	4465.66	115.00	114.90 - 115.10	
206	5467.99	205.90	205.90 - 206.10	
207	4495.20	206.90	206.90 - 207.10	
208	11288.19	207.90	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.37	0.486	0.900	
24	0.42	0.532	0.900	
25	0.42	0.519	0.900	
26	0.41	0.534	0.900	
59	0.40	0.526	0.900	
115	0.36	0.490	0.900	
206	0.36	0.554	0.900	
207	0.37	0.555	0.900	
208	0.37	0.539	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.20 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.6 V	Deflect	15.8 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-70 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	1.1 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2099 V Pulse HV 954 V

[H2]

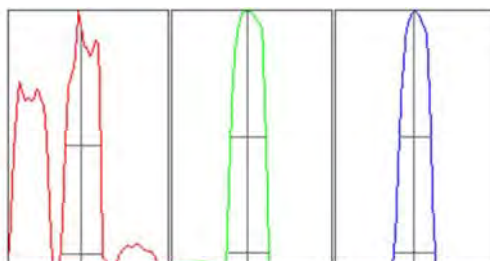
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		106	1061.03			10.287	
59		1838	18375.55			3.693	
115		5209	52087.13			3.256	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.506 %
 Doubly Charged 70 / 140 0.259 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	117.26	25.90	25.90 - 26.10	
59	1824.56	58.95	58.90 - 59.10	
115	5479.11	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.67	0.785	0.900	
59	0.66	0.788	0.900	
115	0.60	0.772	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.20 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.6 V	Deflect	3.6 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-70 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0005	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	1.1 mm
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EM

Discriminator	4.5 mV	Analog HV	2099 V	Pulse HV	954 V
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[He]

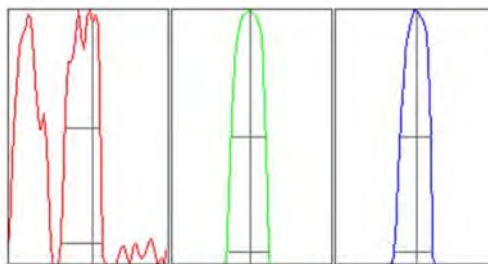
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		47	467.21			14.855	
59		6096	60957.05			2.389	
115		1133	11326.02			4.029	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.219 %
Doubly Charged	70 / 140 0.817 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	45.25	26.10	25.90 - 26.10	
59	6157.85	59.00	58.90 - 59.10	
115	1177.97	115.05	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.67	0.780	0.900	
59	0.65	0.787	0.900	
115	0.58	0.729	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.20 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.6 V	Deflect	4.0 V
Extract 2	-195.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-80 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0005	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	1.1 mm
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EM

Discriminator	4.5 mV	Analog HV	2099 V	Pulse HV	954 V
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INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INITIAL CALIBRATION SUMMARY: 241101C

Instrument ID: NV00922-ICP8

Analyte	Data File	B1101004.d	B1101005.d	B1101006.d	B1101007.d	B1101008.d	B1101009.d	B1101010.d	B1101011.d	B1101012.d	R
	Acq. Date-Time	11/01/2024 08:20 PM	11/01/2024 08:26 PM	11/01/2024 08:32 PM	11/01/2024 08:39 PM	11/01/2024 08:45 PM	11/01/2024 08:51 PM	11/01/2024 08:57 PM	11/01/2024 09:03 PM	11/01/2024 09:09 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
	Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	
45 Sc (ISTD) [2]	CPS	30750.5		30119.4	30091.5	29964.6	30468.9	30167.2	28974	28449.8	
55 Mn [2]	CPS	10		490	5495.4	10636.8	22279.4	43357.7	108019.2	215945.1	0.9999
52 Cr [2]	CPS	184.4		1235.6	10339.9	20532.7	41047.2	82708.9	208144.8	415878.9	0.9999
72 Ge (ISTD) [1]	CPS	62044.8		61219.4	61029.9	61363.3	61225.1	60591.6	58450.6	56620.9	
78 Se [1]	CPS	1.1		63.3	720	1432.3	2895.8	6034.5	14479.8	29513.4	0.9997
72 Ge (ISTD) [2]	CPS	17199.1	17383.7	17099	17053.4	16748.6	16859.8	16586.2	16517.2	15996.8	
75 As [2]	CPS	8.9	25.6	126.7	1202.3	2231.3	4457.3	9311.6	22255.2	45449.7	0.9997
103 Rh (ISTD) [2]	CPS	473624.3		467022.8	467887.7	464006	463543.8	458018	452543.8	436771.3	
95 Mo [2]	CPS	17.8		534.5	5553.2	11140.6	22302.2	45149.8	112136.8	227941.3	0.9997
159 Tb (ISTD) [3]	CPS	1386094.3		1388129.1	1391676.6	1399156.9	1396798.8	1391352.1	1369373.4	1340923	
137 Ba [3]	CPS	3.3		1356.7	13389.3	26362.7	54217.8	108301.3	270326.7	544174.7	0.9999

Standard Code
ICAL: 2MSST-240311B
ICAL: 2MSST-240311C
ICAL: 2MWST-240815K
ICV: 2MWST-240815G
LLICV: 2MWST-240815J
IS Mix: 2MWST-240815A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Analyte	Data File	A1103004.d	A1103005.d	A1103006.d	A1103007.d	A1103008.d	A1103009.d	A1103010.d	A1103011.d	A1103012.d	R
	Acq. Date-Time	11/03/2024 10:39 PM	11/03/2024 10:45 PM	11/03/2024 10:51 PM	11/03/2024 10:57 PM	11/03/2024 11:03 PM	11/03/2024 11:09 PM	11/03/2024 11:15 PM	11/03/2024 11:21 PM	11/03/2024 11:27 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L		
45 Sc (ISTD) [2]	CPS	26765.9		26996.3	27130.9	26916.1	27340.1	26553.3	25875.6	25225.7	
55 Mn [2]	CPS	8.9		493.3	4865.2	9641.7	20284.7	38317.5	95170.5	190903.8	0.9999
52 Cr [2]	CPS	157.8		1127.8	9755.1	19275.7	38840.8	76616.9	188873.7	380687.2	0.9999
72 Ge (ISTD) [1]	CPS	53422.4		53060.1	52838.3	53216.2	53129.2	52707.8	51282.2	49004.1	
78 Se [1]	CPS	0		71.1	674.5	1323.4	2610.2	5387.6	13143.1	26450.4	0.9997
72 Ge (ISTD) [2]	CPS	16330.4	16444.9	16499.4	16386	16102.4	16486.1	15896.7	15498.5	15186	
75 As [2]	CPS	1.1	30	123.3	1025.6	2151.3	4301.7	8412.2	21140.4	42362.5	0.9999
159 Tb (ISTD) [3]	CPS	1440059.4		1454342.2	1448589.3	1449230.7	1450435.7	1439544.6	1380000.8	1358444.7	
137 Ba [3]	CPS	20		1336.7	13752.9	27250.8	54482	109852.1	271992.9	550430.7	0.9999

Standard Code
ICAL: 2MSST-240311B
ICAL: 2MSST-240311C
ICAL: 2MWST-240815K
ICV: 2MWST-240815G
LLICV: 2MWST-240815J
IS Mix: 2MWST-240815A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION SUMMARY: 241105B

Instrument ID: NV00922-ICP8

Analyte	Data File	B1105003.d	B1105004.d	B1105005.d	B1105006.d	B1105007.d	B1105008.d	B1105009.d	B1105010.d	B1105011.d	
	Acq. Date-Time	11/05/2024 04:24 PM	11/05/2024 04:30 PM	11/05/2024 04:36 PM	11/05/2024 04:42 PM	11/05/2024 04:48 PM	11/05/2024 04:54 PM	11/05/2024 05:00 PM	11/05/2024 05:06 PM	11/05/2024 05:12 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
	Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	R
72 Ge (ISTD) [2]	CPS	15888.9	15710.9	15716.5	15534.1	15756.5	15703.1	15547.4	15260.5	15210.4	
75 As [2]	CPS	4.4	17.8	102.2	1018.9	1984.6	4246.1	8139.8	20142.4	40958.9	0.9999

Standard Code
ICAL: 2MSST-240311B
ICAL: 2MSST-240311C
ICAL: 2MWST-240815K
ICV: 2MWST-240815G
LLICV: 2MWST-240815J
IS Mix: 2MWST-240815A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION SUMMARY: 241116D

Instrument ID: NV00922-ICP8

Analyte	Data File	D1116003.d	D1116005.d	D1116006.d	D1116007.d	D1116008.d	D1116009.d	D1116010.d	D1116011.d	R
	Acq. Date-Time	11/16/2024 10:54 PM	11/16/2024 11:06 PM	11/16/2024 11:12 PM	11/16/2024 11:19 PM	11/16/2024 11:25 PM	11/16/2024 11:31 PM	11/16/2024 11:37 PM	11/16/2024 11:43 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
	Concentration	0.00	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	
45 Sc (ISTD) [2]	CPS	38868.5	37146.8	38409.7	38577.9	37427.4	37970.9	37991	38604.6	
52 Cr [2]	CPS	205.6	1562.3	13958.1	28169.5	55630.7	111489.9	281008.4	575821.5	1.0000

Standard Code
ICAL: 2MSST-240311B
ICAL: 2MSST-240311C
ICAL: 2MWST-240815K
ICV: 2MWST-240815G
LLICV: 2MWST-240815J
IS Mix: 2MWST-240815A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ICV	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282936							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	9.839	0.10	10.00	0	98.4	90	110				
Barium	9.532	1.0	10.00	0	95.3	90	110				
Manganese	96.812	0.50	100.0	0	96.8	90	110				
Molybdenum	9.526	0.50	10.00	0	95.3	90	110				
Selenium	10.076	0.50	10.00	0	101	90	110				

Sample ID LLCCV1	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ZZZZZZ	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282938							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.102	0.10	0.1000	0	102	80	120				
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Sample ID LLCCV2	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ZZZZZZ	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282939							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Barium	1.032	1.0	1.000	0	103	80	120				
Manganese	0.499	0.50	0.5000	0	99.7	80	120				
Molybdenum	0.487	0.50	0.5000	0	97.4	80	120				
Selenium	0.432	0.50	0.5000	0	86.4	80	120				

Sample ID MLCCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282940							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.620	0.10	20.00	0	98.1	90	110				
Barium	19.089	1.0	20.00	0	95.4	90	110				
Manganese	20.047	0.50	20.00	0	100	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
 Work Order: N069583
 Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID MLCCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020		Analysis Date: 11/1/2024	SeqNo: 6282940						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	18.763	0.50	20.00	0	93.8	90	110				
Selenium	19.477	0.50	20.00	0	97.4	90	110				

Sample ID CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020		Analysis Date: 11/1/2024	SeqNo: 6282950						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.848	0.10	20.00	0	94.2	90	110				
Barium	18.928	1.0	20.00	0	94.6	90	110				
Manganese	19.526	0.50	20.00	0	97.6	90	110				
Molybdenum	18.498	0.50	20.00	0	92.5	90	110				
Selenium	18.094	0.50	20.00	0	90.5	90	110				

Sample ID CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020		Analysis Date: 11/2/2024	SeqNo: 6282958						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.754	0.10	20.00	0	93.8	90	110				
Barium	17.985	1.0	20.00	0	89.9	90	110				S
Manganese	19.397	0.50	20.00	0	97.0	90	110				
Molybdenum	18.124	0.50	20.00	0	90.6	90	110				
Selenium	18.689	0.50	20.00	0	93.4	90	110				

Sample ID CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020		Analysis Date: 11/2/2024	SeqNo: 6282969						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	17.972	0.10	20.00	0	89.9	90	110				S
Barium	19.810	1.0	20.00	0	99.1	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

% Rec of As in several IQCS failed. However, As is reported at run number 195287 and 195177.

[Signature] 12/3/2024

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282969							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	19.458	0.50	20.00	0	97.3	90	110				
Molybdenum	18.722	0.50	20.00	0	93.6	90	110				
Selenium	19.333	0.50	20.00	0	96.7	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282980							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.346	0.10	20.00	0	91.7	90	110				
Barium	19.383	1.0	20.00	0	96.9	90	110				
Manganese	19.280	0.50	20.00	0	96.4	90	110				
Molybdenum	18.837	0.50	20.00	0	94.2	90	110				
Selenium	18.927	0.50	20.00	0	94.6	90	110				

Sample ID CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282991							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	17.778	0.10	20.00	0	88.9	90	110				S
Barium	19.228	1.0	20.00	0	96.1	90	110				
Manganese	19.155	0.50	20.00	0	95.8	90	110				
Molybdenum	18.902	0.50	20.00	0	94.5	90	110				
Selenium	19.058	0.50	20.00	0	95.3	90	110				

Sample ID CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282997							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.605	0.10	20.00	0	93.0	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282997							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	19.477	1.0	20.00	0	97.4	90	110				
Manganese	19.265	0.50	20.00	0	96.3	90	110				
Molybdenum	18.826	0.50	20.00	0	94.1	90	110				
Selenium	19.176	0.50	20.00	0	95.9	90	110				

Sample ID CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6283010							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	17.866	0.10	20.00	0	89.3	90	110				S
Barium	19.251	1.0	20.00	0	96.3	90	110				
Manganese	19.172	0.50	20.00	0	95.9	90	110				
Molybdenum	18.900	0.50	20.00	0	94.5	90	110				
Selenium	19.791	0.50	20.00	0	99.0	90	110				

Sample ID CCV8	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6283021							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	17.322	0.10	20.00	0	86.6	90	110				S
Barium	19.425	1.0	20.00	0	97.1	90	110				
Manganese	19.055	0.50	20.00	0	95.3	90	110				
Molybdenum	18.872	0.50	20.00	0	94.4	90	110				
Selenium	18.755	0.50	20.00	0	93.8	90	110				

Sample ID CCV9	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6283028							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV9	SampType: CCV	TestCode: 6020_DIS_TP Units: µg/L				Prep Date:			RunNo: 195133		
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020				Analysis Date: 11/2/2024			SeqNo: 6283028		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.453	0.10	20.00	0	92.3	90	110				
Barium	19.892	1.0	20.00	0	99.5	90	110				
Manganese	19.344	0.50	20.00	0	96.7	90	110				
Molybdenum	18.798	0.50	20.00	0	94.0	90	110				
Selenium	18.928	0.50	20.00	0	94.6	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
 Work Order: N069583
 Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/3/2024	SeqNo: 6285974							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.646	0.10	10.00	0	96.5	90	110				
Barium	9.298	1.0	10.00	0	93.0	90	110				
Manganese	95.762	0.50	100.0	0	95.8	90	110				
Molybdenum	9.511	0.50	10.00	0	95.1	90	110				
Selenium	9.675	0.50	10.00	0	96.8	90	110				

Sample ID LLCCV2	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ZZZZZZ	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285977							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.118	0.10	0.1000	0	118	80	120				
Barium	0.982	1.0	1.000	0	98.2	80	120				
Manganese	0.521	0.50	0.5000	0	104	80	120				
Molybdenum	0.474	0.50	0.5000	0	94.8	80	120				
Selenium	0.532	0.50	0.5000	0	106	80	120				

Sample ID MLCCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285978							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.692	0.10	20.00	0	93.5	90	110				
Barium	18.689	1.0	20.00	0	93.4	90	110				
Manganese	20.181	0.50	20.00	0	101	90	110				
Molybdenum	18.482	0.50	20.00	0	92.4	90	110				
Selenium	18.785	0.50	20.00	0	93.9	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285988							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.225	0.10	20.00	0	91.1	90	110				
Barium	18.859	1.0	20.00	0	94.3	90	110				
Manganese	19.677	0.50	20.00	0	98.4	90	110				
Molybdenum	18.394	0.50	20.00	0	92.0	90	110				
Selenium	18.785	0.50	20.00	0	93.9	90	110				

Sample ID CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286001							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.563	0.10	20.00	0	92.8	90	110				
Barium	20.368	1.0	20.00	0	102	90	110				
Manganese	19.361	0.50	20.00	0	96.8	90	110				
Molybdenum	19.358	0.50	20.00	0	96.8	90	110				
Selenium	19.054	0.50	20.00	0	95.3	90	110				

Sample ID CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286012							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.431	0.10	20.00	0	92.2	90	110				
Barium	20.230	1.0	20.00	0	101	90	110				
Manganese	19.116	0.50	20.00	0	95.6	90	110				
Molybdenum	19.177	0.50	20.00	0	95.9	90	110				
Selenium	18.005	0.50	20.00	0	90.0	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286024							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.233	0.10	20.00	0	96.2	90	110				
Barium	20.628	1.0	20.00	0	103	90	110				
Manganese	18.981	0.50	20.00	0	94.9	90	110				
Molybdenum	19.434	0.50	20.00	0	97.2	90	110				
Selenium	18.278	0.50	20.00	0	91.4	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286037							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.118	0.10	20.00	0	95.6	90	110				
Barium	20.193	1.0	20.00	0	101	90	110				
Manganese	19.540	0.50	20.00	0	97.7	90	110				
Molybdenum	19.403	0.50	20.00	0	97.0	90	110				
Selenium	18.290	0.50	20.00	0	91.4	90	110				

Sample ID CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286048							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.712	0.10	20.00	0	93.6	90	110				
Barium	19.928	1.0	20.00	0	99.6	90	110				
Manganese	19.301	0.50	20.00	0	96.5	90	110				
Molybdenum	19.474	0.50	20.00	0	97.4	90	110				
Selenium	19.351	0.50	20.00	0	96.8	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286059							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.263	0.10	20.00	0	96.3	90	110				
Barium	19.960	1.0	20.00	0	99.8	90	110				
Manganese	19.240	0.50	20.00	0	96.2	90	110				
Molybdenum	19.180	0.50	20.00	0	95.9	90	110				
Selenium	18.437	0.50	20.00	0	92.2	90	110				

Sample ID CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286068							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.836	0.10	20.00	0	94.2	90	110				
Barium	20.381	1.0	20.00	0	102	90	110				
Manganese	19.354	0.50	20.00	0	96.8	90	110				
Molybdenum	19.434	0.50	20.00	0	97.2	90	110				
Selenium	19.051	0.50	20.00	0	95.3	90	110				

Sample ID CCV8	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286081							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.621	0.10	20.00	0	98.1	90	110				
Barium	20.375	1.0	20.00	0	102	90	110				
Manganese	19.331	0.50	20.00	0	96.7	90	110				
Molybdenum	19.364	0.50	20.00	0	96.8	90	110				
Selenium	18.775	0.50	20.00	0	93.9	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV9	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286092							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.463	0.10	20.00	0	97.3	90	110				
Barium	21.099	1.0	20.00	0	105	90	110				
Manganese	18.952	0.50	20.00	0	94.8	90	110				
Molybdenum	19.617	0.50	20.00	0	98.1	90	110				
Selenium	18.590	0.50	20.00	0	93.0	90	110				

Sample ID CCV10	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286097							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.781	0.10	20.00	0	93.9	90	110				
Barium	20.477	1.0	20.00	0	102	90	110				
Manganese	19.204	0.50	20.00	0	96.0	90	110				
Molybdenum	19.533	0.50	20.00	0	97.7	90	110				
Selenium	19.420	0.50	20.00	0	97.1	90	110				

Sample ID CCV11	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286108							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.199	0.10	20.00	0	91.0	90	110				
Barium	20.476	1.0	20.00	0	102	90	110				
Manganese	18.873	0.50	20.00	0	94.4	90	110				
Molybdenum	19.438	0.50	20.00	0	97.2	90	110				
Selenium	19.082	0.50	20.00	0	95.4	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ICV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293418							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.899	0.10	10.00	0	99.0	90	110				
Manganese	97.561	0.50	100.0	0	97.6	90	110				

Sample ID LLCCV2	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ZZZZZZ	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293421							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.086	0.10	0.1000	0	86.5	80	120				
Manganese	0.533	0.50	0.5000	0	107	80	120				

Sample ID MLCCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293422							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.468	0.10	20.00	0	97.3	90	110				
Manganese	19.463	0.50	20.00	0	97.3	90	110				

Sample ID CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293432							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.267	0.10	20.00	0	96.3	90	110				
Manganese	19.436	0.50	20.00	0	97.2	90	110				

Sample ID CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293443							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.047	0.10	20.00	0	100	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293443	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese	19.182	0.50	20.00	0	95.9	90	110
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Sample ID CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293454	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	19.611	0.10	20.00	0	98.1	90	110
Manganese	19.356	0.50	20.00	0	96.8	90	110

Sample ID CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293465	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	19.357	0.10	20.00	0	96.8	90	110
Manganese	19.396	0.50	20.00	0	97.0	90	110

Sample ID CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293476	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	19.359	0.10	20.00	0	96.8	90	110
Manganese	19.330	0.50	20.00	0	96.6	90	110

Sample ID CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293481	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	19.564	0.10	20.00	0	97.8	90	110
Manganese	20.089	0.50	20.00	0	100	90	110

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293494							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.544	0.10	20.00	0	97.7	90	110				
Manganese	18.960	0.50	20.00	0	94.8	90	110				

Sample ID CCV8	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293506							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.604	0.10	20.00	0	98.0	90	110				
Manganese	19.183	0.50	20.00	0	95.9	90	110				

Sample ID CCV9	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293518							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.830	0.10	20.00	0	94.1	90	110				
Manganese	19.544	0.50	20.00	0	97.7	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ICV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/3/2024	SeqNo: 6286829							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.773	1.0	10.00	0	97.7	90	110				

Sample ID LLCCV2	SampType: CCV1	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ZZZZZ	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286832							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	0.978	1.0	1.000	0	97.8	80	120				

Sample ID MLCCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286833							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.221	1.0	20.00	0	96.1	90	110				

Sample ID CCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286843							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.377	1.0	20.00	0	96.9	90	110				

Sample ID CCV2	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286856							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.614	1.0	20.00	0	93.1	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCV3	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286867							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.501	1.0	20.00	0	92.5	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286879							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.540	1.0	20.00	0	92.7	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286892							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.121	1.0	20.00	0	95.6	90	110				

Sample ID CCV5	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286903							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.914	1.0	20.00	0	94.6	90	110				

Sample ID CCV6	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286914							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.013	1.0	20.00	0	95.1	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCV7	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286923	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	19.225	1.0	20.00	0	96.1	90	110
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Sample ID CCV8	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286936	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	19.138	1.0	20.00	0	95.7	90	110
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Sample ID CCV9	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286947	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	18.393	1.0	20.00	0	92.0	90	110
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Sample ID CCV10	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286952	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	19.142	1.0	20.00	0	95.7	90	110
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Sample ID CCV11	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286963	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	18.693	1.0	20.00	0	93.5	90	110
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782						
Client ID: ICV	Batch ID: R195782	TestNo: EPA 6020	Analysis Date: 11/17/2024	SeqNo: 6323203							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	10.279	1.0	10.00	0	103	90	110				

Sample ID LLCCV2	SampType: CCV1	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782						
Client ID: ZZZZZ	Batch ID: R195782	TestNo: EPA 6020	Analysis Date: 11/17/2024	SeqNo: 6323206							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	1.069	1.0	1.000	0	107	80	120				

Sample ID MLCCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782						
Client ID: CCV	Batch ID: R195782	TestNo: EPA 6020	Analysis Date: 11/17/2024	SeqNo: 6323207							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.478	1.0	20.00	0	97.4	90	110				

Sample ID CCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782						
Client ID: CCV	Batch ID: R195782	TestNo: EPA 6020	Analysis Date: 11/17/2024	SeqNo: 6323218							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.871	1.0	20.00	0	99.4	90	110				

Sample ID CCV2	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782						
Client ID: CCV	Batch ID: R195782	TestNo: EPA 6020	Analysis Date: 11/17/2024	SeqNo: 6323231							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.599	1.0	20.00	0	98.0	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCV3	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782						
Client ID: CCV	Batch ID: R195782	TestNo: EPA 6020	Analysis Date: 11/17/2024	SeqNo: 6323245							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.163	1.0	20.00	0	101	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782						
Client ID: CCV	Batch ID: R195782	TestNo: EPA 6020	Analysis Date: 11/17/2024	SeqNo: 6323256							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.965	1.0	20.00	0	99.8	90	110				

Sample ID CCV5	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782						
Client ID: CCV	Batch ID: R195782	TestNo: EPA 6020	Analysis Date: 11/17/2024	SeqNo: 6323269							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.329	1.0	20.00	0	102	90	110				

Sample ID CCV6	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782						
Client ID: CCV	Batch ID: R195782	TestNo: EPA 6020	Analysis Date: 11/17/2024	SeqNo: 6323280							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.454	1.0	20.00	0	102	90	110				

Sample ID CCV7	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782						
Client ID: CCV	Batch ID: R195782	TestNo: EPA 6020	Analysis Date: 11/17/2024	SeqNo: 6323289							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.648	1.0	20.00	0	103	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCV8	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782						
Client ID: CCV	Batch ID: R195782	TestNo: EPA 6020	Analysis Date: 11/17/2024	SeqNo: 6323302							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.552	1.0	20.00	0	103	90	110				

Sample ID CCV9	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782						
Client ID: CCV	Batch ID: R195782	TestNo: EPA 6020	Analysis Date: 11/17/2024	SeqNo: 6323313							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.030	1.0	20.00	0	100	90	110				

Sample ID CCV10	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782						
Client ID: CCV	Batch ID: R195782	TestNo: EPA 6020	Analysis Date: 11/17/2024	SeqNo: 6323318							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.130	1.0	20.00	0	101	90	110				

Sample ID CCV11	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782						
Client ID: CCV	Batch ID: R195782	TestNo: EPA 6020	Analysis Date: 11/17/2024	SeqNo: 6323331							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.438	1.0	20.00	0	102	90	110				

Sample ID CCV12	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782						
Client ID: CCV	Batch ID: R195782	TestNo: EPA 6020	Analysis Date: 11/17/2024	SeqNo: 6323342							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.420	1.0	20.00	0	102	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCV13	SampType: CCV	TestCode: 6020DIS_CrP Units: µg/L				Prep Date:			RunNo: 195782		
Client ID: CCV	Batch ID: R195782	TestNo: EPA 6020				Analysis Date: 11/17/2024			SeqNo: 6323348		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.287	1.0	20.00	0	101	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ICB	Batch ID: R195133	TestNo: EPA 6020		Analysis Date: 11/1/2024	SeqNo: 6282937						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCB	Batch ID: R195133	TestNo: EPA 6020		Analysis Date: 11/1/2024	SeqNo: 6282951						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCB	Batch ID: R195133	TestNo: EPA 6020		Analysis Date: 11/2/2024	SeqNo: 6282959						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCB	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282970							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCB	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282981							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCB	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282992							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	0.066	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCB	Batch ID: R195133	TestNo: EPA 6020		Analysis Date: 11/2/2024	SeqNo: 6282998						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCB	Batch ID: R195133	TestNo: EPA 6020		Analysis Date: 11/2/2024	SeqNo: 6283011						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCB	Batch ID: R195133	TestNo: EPA 6020		Analysis Date: 11/2/2024	SeqNo: 6283022						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	0.068	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCB	Batch ID: R195133	TestNo: EPA 6020		Analysis Date: 11/2/2024	SeqNo: 6283029						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10								
Barium	ND	1.0								
Manganese	ND	0.50								
Molybdenum	ND	0.50								
Selenium	ND	0.50								

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICB	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/3/2024	SeqNo: 6285975						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6285989						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286002						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286013							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286025							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286038							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286049							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286060							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286069							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286082							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286093							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB10	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286098							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID	CCB11	SampType:	CCB	TestCode:	6020_DIS_TP	Units:	µg/L	Prep Date:		RunNo:	195177											
Client ID:	CCB	Batch ID:	R195177	TestNo:	EPA 6020			Analysis Date:	11/4/2024	SeqNo:	6286109											
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ICB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6293419						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Manganese	ND	0.50

Sample ID CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6293433						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Manganese	ND	0.50

Sample ID CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6293444						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Manganese	ND	0.50

Sample ID CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6293455						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Manganese	ND	0.50

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6293466						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6293466						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese ND 0.50

Sample ID CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6293477						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.10
Manganese ND 0.50

Sample ID CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/6/2024	SeqNo: 6293482						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.10
Manganese ND 0.50

Sample ID CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/6/2024	SeqNo: 6293495						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.10
Manganese ND 0.50

Sample ID CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/6/2024	SeqNo: 6293507						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.10
Manganese ND 0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/6/2024	SeqNo: 6293519						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ICB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/3/2024	SeqNo: 6286830	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB1	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286844	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB2	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286857	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB3	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286868	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB4	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286880	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCB4	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286893							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium ND 1.0

Sample ID CCB5	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286904							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium ND 1.0

Sample ID CCB6	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286915							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium ND 1.0

Sample ID CCB7	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286924							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium ND 1.0

Sample ID CCB8	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286937							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium ND 1.0

Qualifiers:

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|----|---|---|--------------------------------------|-----|--|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out | | Calculations are based on raw values | (M) | Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCB9	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286948	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB10	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286953	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB11	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286964	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782
Client ID: ICB	Batch ID: R195782	TestNo: EPA 6020		Analysis Date: 11/17/2024	SeqNo: 6323204
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB1	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782
Client ID: CCB	Batch ID: R195782	TestNo: EPA 6020		Analysis Date: 11/17/2024	SeqNo: 6323219
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB2	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782
Client ID: CCB	Batch ID: R195782	TestNo: EPA 6020		Analysis Date: 11/17/2024	SeqNo: 6323232
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB3	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782
Client ID: CCB	Batch ID: R195782	TestNo: EPA 6020		Analysis Date: 11/17/2024	SeqNo: 6323246
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB4	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782
Client ID: CCB	Batch ID: R195782	TestNo: EPA 6020		Analysis Date: 11/17/2024	SeqNo: 6323257
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCB5	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782						
Client ID: CCB	Batch ID: R195782	TestNo: EPA 6020		Analysis Date: 11/17/2024	SeqNo: 6323270						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID CCB6	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782						
Client ID: CCB	Batch ID: R195782	TestNo: EPA 6020		Analysis Date: 11/17/2024	SeqNo: 6323281						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID CCB7	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782						
Client ID: CCB	Batch ID: R195782	TestNo: EPA 6020		Analysis Date: 11/17/2024	SeqNo: 6323290						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID CCB8	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782						
Client ID: CCB	Batch ID: R195782	TestNo: EPA 6020		Analysis Date: 11/17/2024	SeqNo: 6323303						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID CCB9	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782						
Client ID: CCB	Batch ID: R195782	TestNo: EPA 6020		Analysis Date: 11/17/2024	SeqNo: 6323314						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCB10	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782
Client ID: CCB	Batch ID: R195782	TestNo: EPA 6020	Analysis Date: 11/17/2024	SeqNo: 6323319	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0
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Sample ID CCB11	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782
Client ID: CCB	Batch ID: R195782	TestNo: EPA 6020	Analysis Date: 11/17/2024	SeqNo: 6323332	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0
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Sample ID CCB12	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782
Client ID: CCB	Batch ID: R195782	TestNo: EPA 6020	Analysis Date: 11/17/2024	SeqNo: 6323343	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0
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Sample ID CCB13	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782
Client ID: CCB	Batch ID: R195782	TestNo: EPA 6020	Analysis Date: 11/17/2024	SeqNo: 6323349	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ICSA	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282942							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ICSA	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282943							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.313	0.10	20.00	0	96.6	80	120				
Barium	19.388	1.0	20.00	0	96.9	80	120				
Manganese	19.107	0.50	20.00	0	95.5	80	120				
Molybdenum	19.050	0.50	20.00	0	95.2	80	120				
Selenium	19.334	0.50	20.00	0	96.7	80	120				

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ICSA	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282952							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSAB2	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ICSAB	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282953							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.116	0.10	20.00	0	95.6	80	120				
Barium	18.985	1.0	20.00	0	94.9	80	120				
Manganese	19.440	0.50	20.00	0	97.2	80	120				
Molybdenum	18.914	0.50	20.00	0	94.6	80	120				
Selenium	19.276	0.50	20.00	0	96.4	80	120				

Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ICSA	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282999							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSAB3	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ICSAB	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6283000							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.380	0.10	20.00	0	91.9	80	120				
Barium	20.234	1.0	20.00	0	101	80	120				
Manganese	19.026	0.50	20.00	0	95.1	80	120				
Molybdenum	19.126	0.50	20.00	0	95.6	80	120				
Selenium	19.719	0.50	20.00	0	98.6	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ICSA	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6283030							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10								
Barium	ND	1.0								
Manganese	ND	0.50								
Molybdenum	ND	0.50								
Selenium	ND	0.50								

Sample ID ICSAB4	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ICSAB	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6283031							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	18.565	0.10	20.00	0	92.8	80	120			
Barium	20.271	1.0	20.00	0	101	80	120			
Manganese	18.787	0.50	20.00	0	93.9	80	120			
Molybdenum	19.354	0.50	20.00	0	96.8	80	120			
Selenium	19.453	0.50	20.00	0	97.3	80	120			

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6285980						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSAB1	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSAB	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6285981						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.262	0.10	20.00	0	96.3	80	120				
Barium	19.061	1.0	20.00	0	95.3	80	120				
Manganese	19.789	0.50	20.00	0	98.9	80	120				
Molybdenum	19.059	0.50	20.00	0	95.3	80	120				
Selenium	18.977	0.50	20.00	0	94.9	80	120				

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6285980						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSAB2	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSAB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285991							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.187	0.10	20.00	0	95.9	80	120				
Barium	19.642	1.0	20.00	0	98.2	80	120				
Manganese	19.169	0.50	20.00	0	95.8	80	120				
Molybdenum	19.160	0.50	20.00	0	95.8	80	120				
Selenium	18.989	0.50	20.00	0	94.9	80	120				

Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286026							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSAB3	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSAB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286027							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	17.976	0.10	20.00	0	89.9	80	120				
Barium	20.373	1.0	20.00	0	102	80	120				
Manganese	19.029	0.50	20.00	0	95.1	80	120				
Molybdenum	19.078	0.50	20.00	0	95.4	80	120				
Selenium	18.431	0.50	20.00	0	92.2	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286070						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSAB4	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSAB	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286071						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	18.648	0.10	20.00	0	93.2	80	120				
Barium	20.098	1.0	20.00	0	100	80	120				
Manganese	19.103	0.50	20.00	0	95.5	80	120				
Molybdenum	18.924	0.50	20.00	0	94.6	80	120				
Selenium	18.371	0.50	20.00	0	91.9	80	120				

Sample ID ICSA5	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286110						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID	ICSAB5	SampType:	ICSAB	TestCode:	6020_DIS_TP	Units:	µg/L	Prep Date:	RunNo:	195177	
Client ID:	ICSAB	Batch ID:	R195177	TestNo:	EPA 6020			Analysis Date:	11/4/2024	SeqNo:	6286111
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.729	0.10	20.00	0	93.6	80	120				
Barium	19.602	1.0	20.00	0	98.0	80	120				
Manganese	19.371	0.50	20.00	0	96.9	80	120				
Molybdenum	19.005	0.50	20.00	0	95.0	80	120				
Selenium	19.510	0.50	20.00	0	97.5	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6293423						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic
Manganese

ND 0.10
ND 0.50

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6293423						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic
Manganese

19.505 0.10 20.00 0 97.5 80 120
19.812 0.50 20.00 0 99.1 80 120

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6293434						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic
Manganese

ND 0.10
ND 0.50

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6293435						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic
Manganese

19.198 0.10 20.00 0 96.0 80 120
19.720 0.50 20.00 0 98.6 80 120

Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/6/2024	SeqNo: 6293483						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic

ND 0.10

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293483	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Manganese	ND	0.50									
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Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293483	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	20.398	0.10	20.00	0	102	80	120				
Manganese	19.958	0.50	20.00	0	99.8	80	120				

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293520	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293521	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	18.844	0.10	20.00	0	94.2	80	120				
Manganese	19.951	0.50	20.00	0	99.8	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286835						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286835						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.496	1.0	20.00	0	97.5	80	120				
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Sample ID ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286845						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286846						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.363	1.0	20.00	0	96.8	80	120				
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Sample ID ICSA3	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286881						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICSAB3	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ICSAB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286882	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium 18.565 1.0 20.00 0 92.8 80 120

Sample ID ICSA4	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286925	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID ICSAB4	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ICSAB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286926	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium 18.601 1.0 20.00 0 93.0 80 120

Sample ID ICSA5	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286965	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID ICSAB5	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ICSAB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286966	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium 18.868 1.0 20.00 0 94.3 80 120

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782						
Client ID: ICSA	Batch ID: R195782	TestNo: EPA 6020		Analysis Date: 11/17/2024	SeqNo: 6323208						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782						
Client ID: ICSA	Batch ID: R195782	TestNo: EPA 6020		Analysis Date: 11/17/2024	SeqNo: 6323208						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.680	1.0	20.00	0	103	80	120				
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Sample ID ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782						
Client ID: ICSA	Batch ID: R195782	TestNo: EPA 6020		Analysis Date: 11/17/2024	SeqNo: 6323220						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782						
Client ID: ICSA	Batch ID: R195782	TestNo: EPA 6020		Analysis Date: 11/17/2024	SeqNo: 6323221						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.488	1.0	20.00	0	102	80	120				
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Sample ID ICSA3	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782						
Client ID: ICSA	Batch ID: R195782	TestNo: EPA 6020		Analysis Date: 11/17/2024	SeqNo: 6323233						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICSAB3	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782						
Client ID: ICSAB	Batch ID: R195782	TestNo: EPA 6020	Analysis Date: 11/17/2024	SeqNo: 6323234							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.655	1.0	20.00	0	103	80	120				

Sample ID ICSA4	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782						
Client ID: ICSA	Batch ID: R195782	TestNo: EPA 6020	Analysis Date: 11/17/2024	SeqNo: 6323258							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID ICSAB4	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782						
Client ID: ICSAB	Batch ID: R195782	TestNo: EPA 6020	Analysis Date: 11/17/2024	SeqNo: 6323259							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.458	1.0	20.00	0	102	80	120				

Sample ID ICSA5	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782						
Client ID: ICSA	Batch ID: R195782	TestNo: EPA 6020	Analysis Date: 11/17/2024	SeqNo: 6323291							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID ICSAB5	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782						
Client ID: ICSAB	Batch ID: R195782	TestNo: EPA 6020	Analysis Date: 11/17/2024	SeqNo: 6323292							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	21.513	1.0	20.00	0	108	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICSA6	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782						
Client ID: ICSA	Batch ID: R195782	TestNo: EPA 6020		Analysis Date: 11/17/2024	SeqNo: 6323320						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID ICSA6	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782						
Client ID: ICSA	Batch ID: R195782	TestNo: EPA 6020		Analysis Date: 11/17/2024	SeqNo: 6323321						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	21.122	1.0	20.00	0	106	80	120				
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Sample ID ICSA7	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782						
Client ID: ICSA	Batch ID: R195782	TestNo: EPA 6020		Analysis Date: 11/17/2024	SeqNo: 6323350						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID ICSA7	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195782						
Client ID: ICSA	Batch ID: R195782	TestNo: EPA 6020		Analysis Date: 11/17/2024	SeqNo: 6323351						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.545	1.0	20.00	0	103	80	120				
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

INTERNAL STANDARD SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INTERNAL STANDARD: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	1386094.3	1386094.3	100	PASS	30-150	30750.5	30750.5	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	1381590.3	1386094.3	99.68	PASS	30-150	30550.1	30750.5	99.35	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	1388129.1	1386094.3	100.15	PASS	30-150	30119.4	30750.5	97.95	PASS	30-150
Std3-5/50 ppb	ICAL	1	1391676.6	1386094.3	100.4	PASS	30-150	30091.5	30750.5	97.86	PASS	30-150
Std4-10/100 ppb	ICAL	1	1399156.9	1386094.3	100.94	PASS	30-150	29964.6	30750.5	97.44	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	1396798.8	1386094.3	100.77	PASS	30-150	30468.9	30750.5	99.08	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	1391352.1	1386094.3	100.38	PASS	30-150	30167.2	30750.5	98.1	PASS	30-150
Std7-100/1000 ppb	ICAL	1	1369373.4	1386094.3	98.79	PASS	30-150	28974	30750.5	94.22	PASS	30-150
Std8-200/2000 ppb	ICAL	1	1340923	1386094.3	96.74	PASS	30-150	28449.8	30750.5	92.52	PASS	30-150
ICV	ICV	1	1425371	1386094.3	102.83	PASS	30-150	29290.1	30750.5	95.25	PASS	30-150
ICB	ICB	1	1415227.3	1386094.3	102.1	PASS	30-150	29825.5	30750.5	96.99	PASS	30-150
LLCCV1	CCV1	1	1427849.1	1386094.3	103.01	PASS	30-150	29663	30750.5	96.46	PASS	30-150
LLCCV1	CCV1	1	1412646.4	1386094.3	101.92	PASS	30-150	29506	30750.5	95.95	PASS	30-150
MLCCV1	CCV	1	1405928.3	1386094.3	101.43	PASS	30-150	29745.4	30750.5	96.73	PASS	30-150
ICSA1	ICSA	1	1297287.6	1386094.3	93.59	PASS	30-150	30173.9	30750.5	98.12	PASS	30-150
ICSA1	ICSA	1	1437607	1386094.3	103.72	PASS	30-150	31781.3	30750.5	103.35	PASS	30-150
ICSAB1	ICSAB	1	1445588.4	1386094.3	104.29	PASS	30-150	31837	30750.5	103.53	PASS	30-150
CCV1	CCV	1	1467535.5	1386094.3	105.88	PASS	30-150	29829.9	30750.5	97.01	PASS	30-150
CCB1	CCB	1	1455555.2	1386094.3	105.01	PASS	30-150	29388	30750.5	95.57	PASS	30-150
ICSA2	ICSA	1	1459223.7	1386094.3	105.28	PASS	30-150	29335.7	30750.5	95.4	PASS	30-150
ICSAB2	ICSAB	1	1477731.8	1386094.3	106.61	PASS	30-150	29310.2	30750.5	95.32	PASS	30-150
CCV2	CCV	1	1422636.3	1386094.3	102.64	PASS	30-150	28762.5	30750.5	93.54	PASS	30-150
CCB2	CCB	1	1369426.3	1386094.3	98.8	PASS	30-150	27768.7	30750.5	90.3	PASS	30-150
CCV3	CCV	1	1313932	1386094.3	94.79	PASS	30-150	32384.7	30750.5	105.31	PASS	30-150
CCB3	CCB	1	1308425.2	1386094.3	94.4	PASS	30-150	31519.7	30750.5	102.5	PASS	30-150
CCV4	CCV	1	1240470	1386094.3	89.49	PASS	30-150	30756.1	30750.5	100.02	PASS	30-150
CCB4	CCB	1	1244960.1	1386094.3	89.82	PASS	30-150	30394.3	30750.5	98.84	PASS	30-150
CCV5	CCV	1	1233203.5	1386094.3	88.97	PASS	30-150	31549.8	30750.5	102.6	PASS	30-150
CCB5	CCB	1	1242067.5	1386094.3	89.61	PASS	30-150	30885.2	30750.5	100.44	PASS	30-150
CCV6	CCV	1	1236127.8	1386094.3	89.18	PASS	30-150	30963.1	30750.5	100.69	PASS	30-150
CCB6	CCB	1	1236801.3	1386094.3	89.23	PASS	30-150	29991.3	30750.5	97.53	PASS	30-150
ICSA3	ICSA	1	1238401.6	1386094.3	89.34	PASS	30-150	30671.4	30750.5	99.74	PASS	30-150
ICSAB3	ICSAB	1	1271607	1386094.3	91.74	PASS	30-150	30025.8	30750.5	97.64	PASS	30-150
MB-113746	MBLK	1	1228174	1386094.3	88.61	PASS	30-150	28546.7	30750.5	92.83	PASS	30-150
LCS-113746	LCS	1	1247887.7	1386094.3	90.03	PASS	30-150	28741.4	30750.5	93.47	PASS	30-150
N069542-001B	SAMP	1	1044632	1386094.3	75.37	PASS	30-150	24462.4	30750.5	79.55	PASS	30-150
N069542-002B	SAMP	1	1017871.5	1386094.3	73.43	PASS	30-150	25182.4	30750.5	81.89	PASS	30-150
N069542-003B	SAMP	1	993981.9	1386094.3	71.71	PASS	30-150	24515.8	30750.5	79.72	PASS	30-150
N069582-002B	SAMP	1	781868.4	1386094.3	56.41	PASS	30-150	21997.8	30750.5	71.54	PASS	30-150
N069582-003B	SAMP	1	1078803.8	1386094.3	77.83	PASS	30-150	27391.4	30750.5	89.08	PASS	30-150
N069582-004B	SAMP	1	1097148.8	1386094.3	79.15	PASS	30-150	27238.9	30750.5	88.58	PASS	30-150

INTERNAL STANDARD: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
N069582-005B	SAMP	1	945645.1	1386094.3	68.22	PASS	30-150	24685	30750.5	80.28	PASS	30-150
CCV7	CCV	1	1149365.8	1386094.3	82.92	PASS	30-150	28826	30750.5	93.74	PASS	30-150
CCB7	CCB	1	1134847.5	1386094.3	81.87	PASS	30-150	28323	30750.5	92.11	PASS	30-150
N069582-006B	SAMP	1	854885.1	1386094.3	61.68	PASS	30-150	23515.5	30750.5	76.47	PASS	30-150
N069583-001B	SAMP	1	1125338.2	1386094.3	81.19	PASS	30-150	27363.5	30750.5	88.99	PASS	30-150
N069583-002B	SAMP	1	1001787.3	1386094.3	72.27	PASS	30-150	25213.5	30750.5	81.99	PASS	30-150
N069583-003B	SAMP	1	938241.4	1386094.3	67.69	PASS	30-150	24123	30750.5	78.45	PASS	30-150
N069583-003B	SAMP	5	1088768	1386094.3	78.55	PASS	30-150	27386.9	30750.5	89.06	PASS	30-150
N069583-003B-PS	PS	1	923055.3	1386094.3	66.59	PASS	30-150	24288.8	30750.5	78.99	PASS	30-150
N069583-003BMS	MS	1	929115	1386094.3	67.03	PASS	30-150	25807.7	30750.5	83.93	PASS	30-150
N069583-003BMSD	MSD	1	928834.5	1386094.3	67.01	PASS	30-150	25675.3	30750.5	83.5	PASS	30-150
N069583-004B	SAMP	1	901346.6	1386094.3	65.03	PASS	30-150	24934.2	30750.5	81.09	PASS	30-150
CCV8	CCV	1	1159706.3	1386094.3	83.67	PASS	30-150	30013.6	30750.5	97.6	PASS	30-150
CCB8	CCB	1	1169120.3	1386094.3	84.35	PASS	30-150	29026.3	30750.5	94.39	PASS	30-150
N069583-006B	SAMP	1	1103209	1386094.3	79.59	PASS	30-150	26039.2	30750.5	84.68	PASS	30-150
N069583-008B	SAMP	1	977464	1386094.3	70.52	PASS	30-150	23923.8	30750.5	77.8	PASS	30-150
N069583-009B	SAMP	1	843831	1386094.3	60.88	PASS	30-150	22827.8	30750.5	74.24	PASS	30-150
N069583-010B	SAMP	1	713659.9	1386094.3	51.49	PASS	30-150	20570.5	30750.5	66.89	PASS	30-150
N069585-001B	SAMP	1	1076715.5	1386094.3	77.68	PASS	30-150	28022.4	30750.5	91.13	PASS	30-150
CCV9	CCV	1	1165334	1386094.3	84.07	PASS	30-150	30059.2	30750.5	97.75	PASS	30-150
CCB9	CCB	1	1176816.1	1386094.3	84.9	PASS	30-150	29677.4	30750.5	96.51	PASS	30-150
ICSA4	ICSA	1	1207785.8	1386094.3	87.14	PASS	30-150	29351.3	30750.5	95.45	PASS	30-150
ICSAB4	ICSAB	1	1199268.9	1386094.3	86.52	PASS	30-150	29635.1	30750.5	96.37	PASS	30-150

INTERNAL STANDARD: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]					72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	17199.1	17199.1	100	PASS	30-150	62044.8	62044.8	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	17383.7	17199.1	101.07	PASS	30-150	61865.3	62044.8	99.71	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	17099	17199.1	99.42	PASS	30-150	61219.4	62044.8	98.67	PASS	30-150
Std3-5/50 ppb	ICAL	1	17053.4	17199.1	99.15	PASS	30-150	61029.9	62044.8	98.36	PASS	30-150
Std4-10/100 ppb	ICAL	1	16748.6	17199.1	97.38	PASS	30-150	61363.3	62044.8	98.9	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	16859.8	17199.1	98.03	PASS	30-150	61225.1	62044.8	98.68	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	16586.2	17199.1	96.44	PASS	30-150	60591.6	62044.8	97.66	PASS	30-150
Std7-100/1000 ppb	ICAL	1	16517.2	17199.1	96.04	PASS	30-150	58450.6	62044.8	94.21	PASS	30-150
Std8-200/2000 ppb	ICAL	1	15996.8	17199.1	93.01	PASS	30-150	56620.9	62044.8	91.26	PASS	30-150
ICV	ICV	1	16673	17199.1	96.94	PASS	30-150	60744.4	62044.8	97.9	PASS	30-150
ICB	ICB	1	16804.2	17199.1	97.7	PASS	30-150	60794.5	62044.8	97.98	PASS	30-150
LLCCV1	CCV1	1	16598.4	17199.1	96.51	PASS	30-150	59880.2	62044.8	96.51	PASS	30-150
LLCCV1	CCV1	1	16759.7	17199.1	97.45	PASS	30-150	60161.2	62044.8	96.96	PASS	30-150
MLCCV1	CCV	1	16531.7	17199.1	96.12	PASS	30-150	60341.8	62044.8	97.26	PASS	30-150
ICSA1	ICSA	1	16271.5	17199.1	94.61	PASS	30-150	57259.7	62044.8	92.29	PASS	30-150
ICSA1	ICSA	1	17651.8	17199.1	102.63	PASS	30-150	63268.3	62044.8	101.97	PASS	30-150
ICSAB1	ICSAB	1	17605.1	17199.1	102.36	PASS	30-150	64087	62044.8	103.29	PASS	30-150
CCV1	CCV	1	17122.3	17199.1	99.55	PASS	30-150	60145.5	62044.8	96.94	PASS	30-150
CCB1	CCB	1	17002.2	17199.1	98.86	PASS	30-150	60414.3	62044.8	97.37	PASS	30-150
ICSA2	ICSA	1	16799.8	17199.1	97.68	PASS	30-150	59631.4	62044.8	96.11	PASS	30-150
ICSAB2	ICSAB	1	17048.9	17199.1	99.13	PASS	30-150	59723	62044.8	96.26	PASS	30-150
CCV2	CCV	1	16337.1	17199.1	94.99	PASS	30-150	55940.7	62044.8	90.16	PASS	30-150
CCB2	CCB	1	15821	17199.1	91.99	PASS	30-150	55526	62044.8	89.49	PASS	30-150
CCV3	CCV	1	18001	17199.1	104.66	PASS	30-150	62737.3	62044.8	101.12	PASS	30-150
CCB3	CCB	1	17885.4	17199.1	103.99	PASS	30-150	61750.2	62044.8	99.53	PASS	30-150
CCV4	CCV	1	17333.7	17199.1	100.78	PASS	30-150	59867.8	62044.8	96.49	PASS	30-150
CCB4	CCB	1	17205.7	17199.1	100.04	PASS	30-150	58661.3	62044.8	94.55	PASS	30-150
CCV5	CCV	1	17848.7	17199.1	103.78	PASS	30-150	60008.4	62044.8	96.72	PASS	30-150
CCB5	CCB	1	17832	17199.1	103.68	PASS	30-150	58796.2	62044.8	94.76	PASS	30-150
CCV6	CCV	1	17563.9	17199.1	102.12	PASS	30-150	59058.3	62044.8	95.19	PASS	30-150
CCB6	CCB	1	17032.2	17199.1	99.03	PASS	30-150	57459.3	62044.8	92.61	PASS	30-150
ICSA3	ICSA	1	17340.3	17199.1	100.82	PASS	30-150	57580.9	62044.8	92.81	PASS	30-150
ICSAB3	ICSAB	1	17185.7	17199.1	99.92	PASS	30-150	57266.5	62044.8	92.3	PASS	30-150
MB-113746	MBLK	1	16419.4	17199.1	95.47	PASS	30-150	55183.8	62044.8	88.94	PASS	30-150
LCS-113746	LCS	1	16548.4	17199.1	96.22	PASS	30-150	54057.8	62044.8	87.13	PASS	30-150
N069542-001B	SAMP	1	13782.5	17199.1	80.14	PASS	30-150	42330.2	62044.8	68.23	PASS	30-150
N069542-002B	SAMP	1	13828.1	17199.1	80.4	PASS	30-150	43039.8	62044.8	69.37	PASS	30-150
N069542-003B	SAMP	1	13780.3	17199.1	80.12	PASS	30-150	42528.4	62044.8	68.54	PASS	30-150
N069582-002B	SAMP	1	12136.8	17199.1	70.57	PASS	30-150	36231.1	62044.8	58.4	PASS	30-150
N069582-003B	SAMP	1	15290.5	17199.1	88.9	PASS	30-150	49453.3	62044.8	79.71	PASS	30-150
N069582-004B	SAMP	1	15313.9	17199.1	89.04	PASS	30-150	49813.3	62044.8	80.29	PASS	30-150

INTERNAL STANDARD: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]					72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
N069582-005B	SAMP	1	13594.6	17199.1	79.04	PASS	30-150	42338	62044.8	68.24	PASS	30-150
CCV7	CCV	1	16475	17199.1	95.79	PASS	30-150	55052.2	62044.8	88.73	PASS	30-150
CCB7	CCB	1	16328.2	17199.1	94.94	PASS	30-150	53811.4	62044.8	86.73	PASS	30-150
N069582-006B	SAMP	1	13179.8	17199.1	76.63	PASS	30-150	38780.3	62044.8	62.5	PASS	30-150
N069583-001B	SAMP	1	15535.2	17199.1	90.33	PASS	30-150	50088.6	62044.8	80.73	PASS	30-150
N069583-002B	SAMP	1	14351.9	17199.1	83.45	PASS	30-150	44010.1	62044.8	70.93	PASS	30-150
N069583-003B	SAMP	1	13446.7	17199.1	78.18	PASS	30-150	41531.4	62044.8	66.94	PASS	30-150
N069583-003B	SAMP	5	15537.4	17199.1	90.34	PASS	30-150	48675.5	62044.8	78.45	PASS	30-150
N069583-003B-PS	PS	1	13465.6	17199.1	78.29	PASS	30-150	40992.3	62044.8	66.07	PASS	30-150
N069583-003BMS	MS	1	14210.6	17199.1	82.62	PASS	30-150	43877.5	62044.8	70.72	PASS	30-150
N069583-003BMSD	MSD	1	13997.1	17199.1	81.38	PASS	30-150	43064.2	62044.8	69.41	PASS	30-150
N069583-004B	SAMP	1	13738	17199.1	79.88	PASS	30-150	41757.5	62044.8	67.3	PASS	30-150
CCV8	CCV	1	17446	17199.1	101.44	PASS	30-150	56521.6	62044.8	91.1	PASS	30-150
CCB8	CCB	1	16481.7	17199.1	95.83	PASS	30-150	55135.8	62044.8	88.86	PASS	30-150
N069583-006B	SAMP	1	15083.7	17199.1	87.7	PASS	30-150	47454.1	62044.8	76.48	PASS	30-150
N069583-008B	SAMP	1	13659.1	17199.1	79.42	PASS	30-150	41657.3	62044.8	67.14	PASS	30-150
N069583-009B	SAMP	1	12320.2	17199.1	71.63	PASS	30-150	37269	62044.8	60.07	PASS	30-150
N069583-010B	SAMP	1	11205	17199.1	65.15	PASS	30-150	33096.8	62044.8	53.34	PASS	30-150
N069585-001B	SAMP	1	16185.8	17199.1	94.11	PASS	30-150	52016.8	62044.8	83.84	PASS	30-150
CCV9	CCV	1	17117.9	17199.1	99.53	PASS	30-150	57523.9	62044.8	92.71	PASS	30-150
CCB9	CCB	1	17179.1	17199.1	99.88	PASS	30-150	55618.6	62044.8	89.64	PASS	30-150
ICSA4	ICSA	1	16805.3	17199.1	97.71	PASS	30-150	55794.6	62044.8	89.93	PASS	30-150
ICSAB4	ICSAB	1	16976.6	17199.1	98.71	PASS	30-150	55699.9	62044.8	89.77	PASS	30-150

INTERNAL STANDARD: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	103 Rh (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	473624.3	473624.3	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	470369.7	473624.3	99.31	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	467022.8	473624.3	98.61	PASS	30-150
Std3-5/50 ppb	ICAL	1	467887.7	473624.3	98.79	PASS	30-150
Std4-10/100 ppb	ICAL	1	464006	473624.3	97.97	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	463543.8	473624.3	97.87	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	458018	473624.3	96.7	PASS	30-150
Std7-100/1000 ppb	ICAL	1	452543.8	473624.3	95.55	PASS	30-150
Std8-200/2000 ppb	ICAL	1	436771.3	473624.3	92.22	PASS	30-150
ICV	ICV	1	459583.3	473624.3	97.04	PASS	30-150
ICB	ICB	1	462442	473624.3	97.64	PASS	30-150
LLCCV1	CCV1	1	464288.9	473624.3	98.03	PASS	30-150
LLCCV1	CCV1	1	459609.1	473624.3	97.04	PASS	30-150
MLCCV1	CCV	1	461640.2	473624.3	97.47	PASS	30-150
ICSA1	ICSA	1	415090	473624.3	87.64	PASS	30-150
ICSA1	ICSA	1	478548	473624.3	101.04	PASS	30-150
ICSAB1	ICSAB	1	479430.7	473624.3	101.23	PASS	30-150
CCV1	CCV	1	465000.6	473624.3	98.18	PASS	30-150
CCB1	CCB	1	463639.6	473624.3	97.89	PASS	30-150
ICSA2	ICSA	1	464755.9	473624.3	98.13	PASS	30-150
ICSAB2	ICSAB	1	464970	473624.3	98.17	PASS	30-150
CCV2	CCV	1	443639.2	473624.3	93.67	PASS	30-150
CCB2	CCB	1	433984.3	473624.3	91.63	PASS	30-150
CCV3	CCV	1	459040.9	473624.3	96.92	PASS	30-150
CCB3	CCB	1	456800.9	473624.3	96.45	PASS	30-150
CCV4	CCV	1	434935.5	473624.3	91.83	PASS	30-150
CCB4	CCB	1	431058.1	473624.3	91.01	PASS	30-150
CCV5	CCV	1	442417	473624.3	93.41	PASS	30-150
CCB5	CCB	1	437725.4	473624.3	92.42	PASS	30-150
CCV6	CCV	1	434437.9	473624.3	91.73	PASS	30-150
CCB6	CCB	1	426394.3	473624.3	90.03	PASS	30-150
ICSA3	ICSA	1	438551	473624.3	92.59	PASS	30-150
ICSAB3	ICSAB	1	436002.4	473624.3	92.06	PASS	30-150
MB-113746	MBLK	1	414025.6	473624.3	87.42	PASS	30-150
LCS-113746	LCS	1	418417.7	473624.3	88.34	PASS	30-150
N069542-001B	SAMP	1	323509.3	473624.3	68.31	PASS	30-150
N069542-002B	SAMP	1	324890.9	473624.3	68.6	PASS	30-150
N069542-003B	SAMP	1	320433.7	473624.3	67.66	PASS	30-150
N069582-002B	SAMP	1	266974.8	473624.3	56.37	PASS	30-150
N069582-003B	SAMP	1	361524.8	473624.3	76.33	PASS	30-150
N069582-004B	SAMP	1	359890.6	473624.3	75.99	PASS	30-150

INTERNAL STANDARD: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	103 Rh (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
N069582-005B	SAMP	1	315977.5	473624.3	66.71	PASS	30-150
CCV7	CCV	1	408934.4	473624.3	86.34	PASS	30-150
CCB7	CCB	1	409383.2	473624.3	86.44	PASS	30-150
N069582-006B	SAMP	1	297813.4	473624.3	62.88	PASS	30-150
N069583-001B	SAMP	1	374596.8	473624.3	79.09	PASS	30-150
N069583-002B	SAMP	1	327907.1	473624.3	69.23	PASS	30-150
N069583-003B	SAMP	1	309654.9	473624.3	65.38	PASS	30-150
N069583-003B	SAMP	5	364283.9	473624.3	76.91	PASS	30-150
N069583-003B-PS	PS	1	309293.4	473624.3	65.3	PASS	30-150
N069583-003BMS	MS	1	318899.4	473624.3	67.33	PASS	30-150
N069583-003BMSD	MSD	1	316795	473624.3	66.89	PASS	30-150
N069583-004B	SAMP	1	306589.7	473624.3	64.73	PASS	30-150
CCV8	CCV	1	416931.7	473624.3	88.03	PASS	30-150
CCB8	CCB	1	412229.6	473624.3	87.04	PASS	30-150
N069583-006B	SAMP	1	354868.5	473624.3	74.93	PASS	30-150
N069583-008B	SAMP	1	314968.1	473624.3	66.5	PASS	30-150
N069583-009B	SAMP	1	278278.3	473624.3	58.76	PASS	30-150
N069583-010B	SAMP	1	247054.2	473624.3	52.16	PASS	30-150
N069585-001B	SAMP	1	373125.7	473624.3	78.78	PASS	30-150
CCV9	CCV	1	424004.1	473624.3	89.52	PASS	30-150
CCB9	CCB	1	423989.8	473624.3	89.52	PASS	30-150
ICSA4	ICSA	1	420345.4	473624.3	88.75	PASS	30-150
ICSAB4	ICSAB	1	427899.1	473624.3	90.35	PASS	30-150

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	1440059.4	1440059.4	100	PASS	30-150	26765.9	26765.9	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	1436247	1440059.4	99.74	PASS	30-150	27294.5	26765.9	101.97	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	1454342.2	1440059.4	100.99	PASS	30-150	26996.3	26765.9	100.86	PASS	30-150
Std3-5/50 ppb	ICAL	1	1448589.3	1440059.4	100.59	PASS	30-150	27130.9	26765.9	101.36	PASS	30-150
Std4-10/100 ppb	ICAL	1	1449230.7	1440059.4	100.64	PASS	30-150	26916.1	26765.9	100.56	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	1450435.7	1440059.4	100.72	PASS	30-150	27340.1	26765.9	102.15	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	1439544.6	1440059.4	99.96	PASS	30-150	26553.3	26765.9	99.21	PASS	30-150
Std7-100/1000 ppb	ICAL	1	1380000.8	1440059.4	95.83	PASS	30-150	25875.6	26765.9	96.67	PASS	30-150
Std8-200/2000 ppb	ICAL	1	1358444.7	1440059.4	94.33	PASS	30-150	25225.7	26765.9	94.25	PASS	30-150
ICV	ICV	1	1437762.4	1440059.4	99.84	PASS	30-150	25439.4	26765.9	95.04	PASS	30-150
ICB	ICB	1	1375689.3	1440059.4	95.53	PASS	30-150	24627.1	26765.9	92.01	PASS	30-150
LLCCV1	CCV1	1	1444764.6	1440059.4	100.33	PASS	30-150	26190.5	26765.9	97.85	PASS	30-150
LLCCV2	CCV1	1	1463621.9	1440059.4	101.64	PASS	30-150	26673.5	26765.9	99.65	PASS	30-150
MLCCV1	CCV	1	1466702.2	1440059.4	101.85	PASS	30-150	26586.7	26765.9	99.33	PASS	30-150
ICSA1	ICSA	1	1483046.5	1440059.4	102.99	PASS	30-150	26764.8	26765.9	100	PASS	30-150
ICSA1	ICSA	1	1491421.8	1440059.4	103.57	PASS	30-150	26869.4	26765.9	100.39	PASS	30-150
ICSAB1	ICSAB	1	1510898.8	1440059.4	104.92	PASS	30-150	26735.9	26765.9	99.89	PASS	30-150
CCV1	CCV	1	1479633.1	1440059.4	102.75	PASS	30-150	26644.6	26765.9	99.55	PASS	30-150
CCB1	CCB	1	1475685.9	1440059.4	102.47	PASS	30-150	26461	26765.9	98.86	PASS	30-150
ICSA2	ICSA	1	1480512.2	1440059.4	102.81	PASS	30-150	26772.6	26765.9	100.03	PASS	30-150
ICSAB2	ICSAB	1	1482415.5	1440059.4	102.94	PASS	30-150	27142	26765.9	101.41	PASS	30-150
CCV2	CCV	1	1315106.9	1440059.4	91.32	PASS	30-150	31141.2	26765.9	116.35	PASS	30-150
CCB2	CCB	1	1329625.5	1440059.4	92.33	PASS	30-150	30647	26765.9	114.5	PASS	30-150
CCV3	CCV	1	1331956.8	1440059.4	92.49	PASS	30-150	30123.8	26765.9	112.55	PASS	30-150
CCB3	CCB	1	1334018.4	1440059.4	92.64	PASS	30-150	29699.7	26765.9	110.96	PASS	30-150
CCV4	CCV	1	1323690.7	1440059.4	91.92	PASS	30-150	31815.8	26765.9	118.87	PASS	30-150
CCB4	CCB	1	1312522.3	1440059.4	91.14	PASS	30-150	30662.5	26765.9	114.56	PASS	30-150
ICSA3	ICSA	1	1340139.2	1440059.4	93.06	PASS	30-150	30348.7	26765.9	113.39	PASS	30-150
ICSAB3	ICSAB	1	1312846.6	1440059.4	91.17	PASS	30-150	29474.9	26765.9	110.12	PASS	30-150
MB-113746	MBLK	1	1307139.2	1440059.4	90.77	PASS	30-150	28344	26765.9	105.9	PASS	30-150
LCS-113746	LCS	1	1371922.9	1440059.4	95.27	PASS	30-150	28873.9	26765.9	107.88	PASS	30-150
N069542-001B	SAMP	10	1312455.3	1440059.4	91.14	PASS	30-150	26632.4	26765.9	99.5	PASS	30-150
N069542-002B	SAMP	10	1329917	1440059.4	92.35	PASS	30-150	26493.2	26765.9	98.98	PASS	30-150
N069542-003B	SAMP	10	1344025.4	1440059.4	93.33	PASS	30-150	26264	26765.9	98.12	PASS	30-150
N069582-002B	SAMP	1	928353.5	1440059.4	64.47	PASS	30-150	22441.8	26765.9	83.84	PASS	30-150
N069582-003B	SAMP	1	1283051.9	1440059.4	89.1	PASS	30-150	27262.3	26765.9	101.85	PASS	30-150
N069582-004B	SAMP	1	1291057.6	1440059.4	89.65	PASS	30-150	26730.3	26765.9	99.87	PASS	30-150
N069582-005B	SAMP	1	1123404.5	1440059.4	78.01	PASS	30-150	24669.4	26765.9	92.17	PASS	30-150
CCV4	CCV	1	1387449.1	1440059.4	96.35	PASS	30-150	28705.8	26765.9	107.25	PASS	30-150
CCB4	CCB	1	1376998.3	1440059.4	95.62	PASS	30-150	27766.4	26765.9	103.74	PASS	30-150
N069582-006B	SAMP	1	1054390.4	1440059.4	73.22	PASS	30-150	23301.9	26765.9	87.06	PASS	30-150

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
N069583-001B	SAMP	1	1322159.7	1440059.4	91.81	PASS	30-150	27068.6	26765.9	101.13	PASS	30-150
N069583-001B	SAMP	10	1335621.2	1440059.4	92.75	PASS	30-150	26950.6	26765.9	100.69	PASS	30-150
N069583-002B	SAMP	1	1162704.8	1440059.4	80.74	PASS	30-150	24474.6	26765.9	91.44	PASS	30-150
N069583-002B	SAMP	10	1312488	1440059.4	91.14	PASS	30-150	26385.3	26765.9	98.58	PASS	30-150
N069583-003B	SAMP	1	1074573.8	1440059.4	74.62	PASS	30-150	23392	26765.9	87.39	PASS	30-150
N069583-003B	SAMP	5	1242179.2	1440059.4	86.26	PASS	30-150	26834.9	26765.9	100.26	PASS	30-150
N069583-003B	SAMP	10	1298060.5	1440059.4	90.14	PASS	30-150	26443.1	26765.9	98.79	PASS	30-150
N069583-003B	SAMP	50	1346762.6	1440059.4	93.52	PASS	30-150	26402	26765.9	98.64	PASS	30-150
CCV5	CCV	1	1425154.3	1440059.4	98.96	PASS	30-150	27696.3	26765.9	103.48	PASS	30-150
CCB5	CCB	1	1411967.1	1440059.4	98.05	PASS	30-150	26584.5	26765.9	99.32	PASS	30-150
N069583-003B-PS	PS	1	1072561.2	1440059.4	74.48	PASS	30-150	22727.7	26765.9	84.91	PASS	30-150
N069583-003B-PS	PS	10	1300214	1440059.4	90.29	PASS	30-150	25917.9	26765.9	96.83	PASS	30-150
N069583-003BMS	MS	1	1094421.1	1440059.4	76	PASS	30-150	23613.3	26765.9	88.22	PASS	30-150
N069583-003BMS	MS	10	1290399.9	1440059.4	89.61	PASS	30-150	26488.8	26765.9	98.96	PASS	30-150
N069583-003BMSD	MSD	1	1077417	1440059.4	74.82	PASS	30-150	23989.5	26765.9	89.63	PASS	30-150
N069583-003BMSD	MSD	10	1269453.3	1440059.4	88.15	PASS	30-150	26974	26765.9	100.78	PASS	30-150
N069583-004B	SAMP	1	1024770.5	1440059.4	71.16	PASS	30-150	23405.3	26765.9	87.44	PASS	30-150
N069583-004B	SAMP	10	1217935.3	1440059.4	84.58	PASS	30-150	26481	26765.9	98.94	PASS	30-150
N069583-006B	SAMP	1	1263059.1	1440059.4	87.71	PASS	30-150	25490.6	26765.9	95.24	PASS	30-150
CCV6	CCV	1	1372563.4	1440059.4	95.31	PASS	30-150	26998.5	26765.9	100.87	PASS	30-150
CCB6	CCB	1	1372760.9	1440059.4	95.33	PASS	30-150	26378.6	26765.9	98.55	PASS	30-150
N069583-008B	SAMP	1	1168406.1	1440059.4	81.14	PASS	30-150	23248.4	26765.9	86.86	PASS	30-150
N069583-008B	SAMP	10	1337599.5	1440059.4	92.89	PASS	30-150	25723.1	26765.9	96.1	PASS	30-150
N069583-009B	SAMP	1	1004492.4	1440059.4	69.75	PASS	30-150	22366.1	26765.9	83.56	PASS	30-150
N069583-009B	SAMP	10	1225538	1440059.4	85.1	PASS	30-150	26446.5	26765.9	98.81	PASS	30-150
N069583-010B	SAMP	1	852651.1	1440059.4	59.21	PASS	30-150	21209	26765.9	79.24	PASS	30-150
N069583-010B	SAMP	100	1211833.2	1440059.4	84.15	PASS	30-150	28033.5	26765.9	104.74	PASS	30-150
N069585-001B	SAMP	1	1264600.2	1440059.4	87.82	PASS	30-150	27670.7	26765.9	103.38	PASS	30-150
CCV7	CCV	1	1326761.8	1440059.4	92.13	PASS	30-150	28511	26765.9	106.52	PASS	30-150
CCB7	CCB	1	1328752.8	1440059.4	92.27	PASS	30-150	27431.4	26765.9	102.49	PASS	30-150
ICSA4	ICSA	1	1365100.7	1440059.4	94.79	PASS	30-150	27096.4	26765.9	101.23	PASS	30-150
ICSAB4	ICSAB	1	1355570.5	1440059.4	94.13	PASS	30-150	26741.4	26765.9	99.91	PASS	30-150
CCV8	CCV	1	1418578.8	1440059.4	98.51	PASS	30-150	27671.8	26765.9	103.38	PASS	30-150
CCB8	CCB	1	1388959.2	1440059.4	96.45	PASS	30-150	26714.7	26765.9	99.81	PASS	30-150
CCV9	CCV	1	1288909.6	1440059.4	89.5	PASS	30-150	30216.2	26765.9	112.89	PASS	30-150
CCB9	CCB	1	1287672.5	1440059.4	89.42	PASS	30-150	28827.1	26765.9	107.7	PASS	30-150
CCV10	CCV	1	1322579.1	1440059.4	91.84	PASS	30-150	28712.4	26765.9	107.27	PASS	30-150
CCB10	CCB	1	1298221.9	1440059.4	90.15	PASS	30-150	27744.2	26765.9	103.66	PASS	30-150
CCV11	CCV	1	1312665.4	1440059.4	91.15	PASS	30-150	27636.2	26765.9	103.25	PASS	30-150
CCB11	CCB	1	1292828.9	1440059.4	89.78	PASS	30-150	26505.5	26765.9	99.03	PASS	30-150
ICSA5	ICSA	1	1331792.4	1440059.4	92.48	PASS	30-150	26799.3	26765.9	100.12	PASS	30-150

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
ICSAB5	ICSAB	1	1310680.6	1440059.4	91.02	PASS	30-150	25436	26765.9	95.03	PASS	30-150

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]					72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	16330.4	16330.4	100	PASS	30-150	53422.4	53422.4	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	16444.9	16330.4	100.7	PASS	30-150	53779.1	53422.4	100.67	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	16499.4	16330.4	101.04	PASS	30-150	53060.1	53422.4	99.32	PASS	30-150
Std3-5/50 ppb	ICAL	1	16386	16330.4	100.34	PASS	30-150	52838.3	53422.4	98.91	PASS	30-150
Std4-10/100 ppb	ICAL	1	16102.4	16330.4	98.6	PASS	30-150	53216.2	53422.4	99.61	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	16486.1	16330.4	100.95	PASS	30-150	53129.2	53422.4	99.45	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	15896.7	16330.4	97.34	PASS	30-150	52707.8	53422.4	98.66	PASS	30-150
Std7-100/1000 ppb	ICAL	1	15498.5	16330.4	94.91	PASS	30-150	51282.2	53422.4	95.99	PASS	30-150
Std8-200/2000 ppb	ICAL	1	15186	16330.4	92.99	PASS	30-150	49004.1	53422.4	91.73	PASS	30-150
ICV	ICV	1	15547.4	16330.4	95.21	PASS	30-150	50796.3	53422.4	95.08	PASS	30-150
ICB	ICB	1	14906.8	16330.4	91.28	PASS	30-150	48944	53422.4	91.62	PASS	30-150
LLCCV1	CCV1	1	15984.5	16330.4	97.88	PASS	30-150	51435	53422.4	96.28	PASS	30-150
LLCCV2	CCV1	1	16202.5	16330.4	99.22	PASS	30-150	52552.9	53422.4	98.37	PASS	30-150
MLCCV1	CCV	1	16255.9	16330.4	99.54	PASS	30-150	52522.8	53422.4	98.32	PASS	30-150
ICSA1	ICSA	1	16071.3	16330.4	98.41	PASS	30-150	52491.6	53422.4	98.26	PASS	30-150
ICSA1	ICSA	1	16109.1	16330.4	98.64	PASS	30-150	53210.5	53422.4	99.6	PASS	30-150
ICSAB1	ICSAB	1	15932.2	16330.4	97.56	PASS	30-150	53530.5	53422.4	100.2	PASS	30-150
CCV1	CCV	1	16217	16330.4	99.31	PASS	30-150	52364.5	53422.4	98.02	PASS	30-150
CCB1	CCB	1	16017.9	16330.4	98.09	PASS	30-150	52765.8	53422.4	98.77	PASS	30-150
ICSA2	ICSA	1	16200.3	16330.4	99.2	PASS	30-150	52830.5	53422.4	98.89	PASS	30-150
ICSAB2	ICSAB	1	16095.7	16330.4	98.56	PASS	30-150	53220.6	53422.4	99.62	PASS	30-150
CCV2	CCV	1	18084.5	16330.4	110.74	PASS	30-150	60611.7	53422.4	113.46	PASS	30-150
CCB2	CCB	1	17948.8	16330.4	109.91	PASS	30-150	60761.2	53422.4	113.74	PASS	30-150
CCV3	CCV	1	17583.9	16330.4	107.68	PASS	30-150	59040.3	53422.4	110.52	PASS	30-150
CCB3	CCB	1	17972.1	16330.4	110.05	PASS	30-150	59056	53422.4	110.55	PASS	30-150
CCV4	CCV	1	18471.6	16330.4	113.11	PASS	30-150	61755.9	53422.4	115.6	PASS	30-150
CCB4	CCB	1	17793	16330.4	108.96	PASS	30-150	59179.9	53422.4	110.78	PASS	30-150
ICSA3	ICSA	1	17878.7	16330.4	109.48	PASS	30-150	59115.2	53422.4	110.66	PASS	30-150
ICSAB3	ICSAB	1	17414.9	16330.4	106.64	PASS	30-150	56782.6	53422.4	106.29	PASS	30-150
MB-113746	MBLK	1	17080	16330.4	104.59	PASS	30-150	56199.5	53422.4	105.2	PASS	30-150
LCS-113746	LCS	1	17393.8	16330.4	106.51	PASS	30-150	55929.5	53422.4	104.69	PASS	30-150
N069542-001B	SAMP	10	15766.5	16330.4	96.55	PASS	30-150	51238.8	53422.4	95.91	PASS	30-150
N069542-002B	SAMP	10	15812.1	16330.4	96.83	PASS	30-150	51984.4	53422.4	97.31	PASS	30-150
N069542-003B	SAMP	10	15762.1	16330.4	96.52	PASS	30-150	49582.6	53422.4	92.81	PASS	30-150
N069582-002B	SAMP	1	13145.3	16330.4	80.5	PASS	30-150	38698.9	53422.4	72.44	PASS	30-150
N069582-003B	SAMP	1	15906.7	16330.4	97.41	PASS	30-150	51959.9	53422.4	97.26	PASS	30-150
N069582-004B	SAMP	1	15796.6	16330.4	96.73	PASS	30-150	51135.1	53422.4	95.72	PASS	30-150
N069582-005B	SAMP	1	14209.5	16330.4	87.01	PASS	30-150	43742.7	53422.4	81.88	PASS	30-150
CCV4	CCV	1	17409.3	16330.4	106.61	PASS	30-150	56816	53422.4	106.35	PASS	30-150
CCB4	CCB	1	16869.8	16330.4	103.3	PASS	30-150	55388.9	53422.4	103.68	PASS	30-150
N069582-006B	SAMP	1	13691.3	16330.4	83.84	PASS	30-150	41107	53422.4	76.95	PASS	30-150

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]					72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
N069583-001B	SAMP	1	15710.9	16330.4	96.21	PASS	30-150	51399.3	53422.4	96.21	PASS	30-150
N069583-001B	SAMP	10	15940	16330.4	97.61	PASS	30-150	53752.4	53422.4	100.62	PASS	30-150
N069583-002B	SAMP	1	14195.1	16330.4	86.92	PASS	30-150	44036.8	53422.4	82.43	PASS	30-150
N069583-002B	SAMP	10	15798.8	16330.4	96.74	PASS	30-150	51922	53422.4	97.19	PASS	30-150
N069583-003B	SAMP	1	13640.2	16330.4	83.53	PASS	30-150	42254.4	53422.4	79.1	PASS	30-150
N069583-003B	SAMP	5	15243.8	16330.4	93.35	PASS	30-150	49478.9	53422.4	92.62	PASS	30-150
N069583-003B	SAMP	10	15505.2	16330.4	94.95	PASS	30-150	50832	53422.4	95.15	PASS	30-150
N069583-003B	SAMP	50	15891.1	16330.4	97.31	PASS	30-150	52247.5	53422.4	97.8	PASS	30-150
CCV5	CCV	1	16845.4	16330.4	103.15	PASS	30-150	55038.8	53422.4	103.03	PASS	30-150
CCB5	CCB	1	16214.7	16330.4	99.29	PASS	30-150	53668.7	53422.4	100.46	PASS	30-150
N069583-003B-PS	PS	1	13257.6	16330.4	81.18	PASS	30-150	40487.7	53422.4	75.79	PASS	30-150
N069583-003B-PS	PS	10	15466.2	16330.4	94.71	PASS	30-150	50736.1	53422.4	94.97	PASS	30-150
N069583-003BMS	MS	1	13589	16330.4	83.21	PASS	30-150	42799.1	53422.4	80.11	PASS	30-150
N069583-003BMS	MS	10	15922.2	16330.4	97.5	PASS	30-150	50984.6	53422.4	95.44	PASS	30-150
N069583-003BMSD	MSD	1	13590.1	16330.4	83.22	PASS	30-150	42683.2	53422.4	79.9	PASS	30-150
N069583-003BMSD	MSD	10	15921.1	16330.4	97.49	PASS	30-150	50772.9	53422.4	95.04	PASS	30-150
N069583-004B	SAMP	1	13495.6	16330.4	82.64	PASS	30-150	41014.6	53422.4	76.77	PASS	30-150
N069583-004B	SAMP	10	15764.3	16330.4	96.53	PASS	30-150	50924.4	53422.4	95.32	PASS	30-150
N069583-006B	SAMP	1	14819	16330.4	90.74	PASS	30-150	48636.4	53422.4	91.04	PASS	30-150
CCV6	CCV	1	15974.5	16330.4	97.82	PASS	30-150	51998.9	53422.4	97.34	PASS	30-150
CCB6	CCB	1	16074.6	16330.4	98.43	PASS	30-150	51937.7	53422.4	97.22	PASS	30-150
N069583-008B	SAMP	1	13763.6	16330.4	84.28	PASS	30-150	42068.4	53422.4	78.75	PASS	30-150
N069583-008B	SAMP	10	15129.3	16330.4	92.65	PASS	30-150	49404.2	53422.4	92.48	PASS	30-150
N069583-009B	SAMP	1	12722.8	16330.4	77.91	PASS	30-150	38508.5	53422.4	72.08	PASS	30-150
N069583-009B	SAMP	10	15717.6	16330.4	96.25	PASS	30-150	50101.9	53422.4	93.78	PASS	30-150
N069583-010B	SAMP	1	11849.9	16330.4	72.56	PASS	30-150	34939.4	53422.4	65.4	PASS	30-150
N069583-010B	SAMP	100	16640.7	16330.4	101.9	PASS	30-150	56158.2	53422.4	105.12	PASS	30-150
N069585-001B	SAMP	1	16446.1	16330.4	100.71	PASS	30-150	53982	53422.4	101.05	PASS	30-150
CCV7	CCV	1	16984.4	16330.4	104	PASS	30-150	56526	53422.4	105.81	PASS	30-150
CCB7	CCB	1	16408.3	16330.4	100.48	PASS	30-150	54577.3	53422.4	102.16	PASS	30-150
ICSA4	ICSA	1	16159.1	16330.4	98.95	PASS	30-150	54489.3	53422.4	102	PASS	30-150
ICSAB4	ICSAB	1	15827.7	16330.4	96.92	PASS	30-150	52404.8	53422.4	98.1	PASS	30-150
CCV8	CCV	1	16861	16330.4	103.25	PASS	30-150	55617.4	53422.4	104.11	PASS	30-150
CCB8	CCB	1	15987.9	16330.4	97.9	PASS	30-150	54427.9	53422.4	101.88	PASS	30-150
CCV9	CCV	1	17377	16330.4	106.41	PASS	30-150	58252	53422.4	109.04	PASS	30-150
CCB9	CCB	1	17262.5	16330.4	105.71	PASS	30-150	57011.1	53422.4	106.72	PASS	30-150
CCV10	CCV	1	17232.4	16330.4	105.52	PASS	30-150	55398.9	53422.4	103.7	PASS	30-150
CCB10	CCB	1	16481.7	16330.4	100.93	PASS	30-150	54949.7	53422.4	102.86	PASS	30-150
CCV11	CCV	1	16592.9	16330.4	101.61	PASS	30-150	53813.6	53422.4	100.73	PASS	30-150
CCB11	CCB	1	15954.5	16330.4	97.7	PASS	30-150	52687.8	53422.4	98.62	PASS	30-150
ICSA5	ICSA	1	15833.3	16330.4	96.96	PASS	30-150	51925.4	53422.4	97.2	PASS	30-150

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]					72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
ICSAB5	ICSAB	1	15496.3	16330.4	94.89	PASS	30-150	50010.6	53422.4	93.61	PASS	30-150

INTERNAL STANDARD: 241105B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	15888.9	15888.9	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	15710.9	15888.9	98.88	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	15716.5	15888.9	98.91	PASS	30-150
Std3-5/50 ppb	ICAL	1	15534.1	15888.9	97.77	PASS	30-150
Std4-10/100 ppb	ICAL	1	15756.5	15888.9	99.17	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	15703.1	15888.9	98.83	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	15547.4	15888.9	97.85	PASS	30-150
Std7-100/1000 ppb	ICAL	1	15260.5	15888.9	96.05	PASS	30-150
Std8-200/2000 ppb	ICAL	1	15210.4	15888.9	95.73	PASS	30-150
ICV	ICV	1	16022.3	15888.9	100.84	PASS	30-150
ICB	ICB	1	15748.7	15888.9	99.12	PASS	30-150
LLCCV1	CCV1	1	15783.2	15888.9	99.33	PASS	30-150
LLCCV2	CCV1	1	16176.9	15888.9	101.81	PASS	30-150
MLCCV1	CCV	1	15278.3	15888.9	96.16	PASS	30-150
ICSA1	ICSA	1	16009	15888.9	100.76	PASS	30-150
ICSAB1	ICSAB	1	15943.4	15888.9	100.34	PASS	30-150
CCV1	CCV	1	15724.3	15888.9	98.96	PASS	30-150
CCB1	CCB	1	15388.4	15888.9	96.85	PASS	30-150
ICSA2	ICSA	1	16109.1	15888.9	101.39	PASS	30-150
ICSAB2	ICSAB	1	15911.1	15888.9	100.14	PASS	30-150
CCV2	CCV	1	15558.5	15888.9	97.92	PASS	30-150
CCB2	CCB	1	15545.2	15888.9	97.84	PASS	30-150
CCV3	CCV	1	15672	15888.9	98.63	PASS	30-150
CCB3	CCB	1	15445.1	15888.9	97.21	PASS	30-150
CCV4	CCV	1	15849.9	15888.9	99.75	PASS	30-150
CCB4	CCB	1	15727.6	15888.9	98.98	PASS	30-150
CCV5	CCV	1	15420.6	15888.9	97.05	PASS	30-150
CCB5	CCB	1	15709.8	15888.9	98.87	PASS	30-150
CCV6	CCV	1	15479.6	15888.9	97.42	PASS	30-150
CCB6	CCB	1	15430.7	15888.9	97.12	PASS	30-150
ICSA3	ICSA	1	15716.5	15888.9	98.91	PASS	30-150
ICSAB3	ICSAB	1	15657.5	15888.9	98.54	PASS	30-150
N069583-003B	SAMP	1	13014.1	15888.9	81.91	PASS	30-150
N069583-003B	SAMP	1	13088.6	15888.9	82.38	PASS	30-150
N069583-003B	SAMP	1	13134.2	15888.9	82.66	PASS	30-150
CCV7	CCV	1	16386	15888.9	103.13	PASS	30-150
CCB7	CCB	1	15853.3	15888.9	99.78	PASS	30-150
CCV8	CCV	1	15698.7	15888.9	98.8	PASS	30-150
CCB8	CCB	1	15605.3	15888.9	98.22	PASS	30-150
CCV9	CCV	1	15618.6	15888.9	98.3	PASS	30-150
CCB9	CCB	1	15601.9	15888.9	98.19	PASS	30-150

INTERNAL STANDARD: 241105B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
ICSA4	ICSA	1	15911.1	15888.9	100.14	PASS	30-150
ICSAB4	ICSAB	1	15811	15888.9	99.51	PASS	30-150

INTERNAL STANDARD: 241116D

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	38868.5	38868.5	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	38065.6	38868.5	97.93	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	37146.8	38868.5	95.57	PASS	30-150
Std3-5/50 ppb	ICAL	1	38409.7	38868.5	98.82	PASS	30-150
Std4-10/100 ppb	ICAL	1	38577.9	38868.5	99.25	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	37427.4	38868.5	96.29	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	37970.9	38868.5	97.69	PASS	30-150
Std7-100/1000 ppb	ICAL	1	37991	38868.5	97.74	PASS	30-150
Std8-200/2000 ppb	ICAL	1	38604.6	38868.5	99.32	PASS	30-150
ICV	ICV	1	37291.7	38868.5	95.94	PASS	30-150
ICB	ICB	1	35033.4	38868.5	90.13	PASS	30-150
LLCCV1	CCV1	1	35368.6	38868.5	91	PASS	30-150
LLCCV2	CCV1	1	35839.6	38868.5	92.21	PASS	30-150
MLCCV1	CCV	1	35928.7	38868.5	92.44	PASS	30-150
ICSA1	ICSA	1	35642.4	38868.5	91.7	PASS	30-150
ICSAB1	ICSAB	1	35723.9	38868.5	91.91	PASS	30-150
CCV1	CCV	1	37228.1	38868.5	95.78	PASS	30-150
CCB1	CCB	1	36439.8	38868.5	93.75	PASS	30-150
ICSA2	ICSA	1	37070	38868.5	95.37	PASS	30-150
ICSAB2	ICSAB	1	37536.6	38868.5	96.57	PASS	30-150
CCV2	CCV	1	37350.7	38868.5	96.1	PASS	30-150
CCB2	CCB	1	36258.2	38868.5	93.28	PASS	30-150
ICSA3	ICSA	1	36926.4	38868.5	95	PASS	30-150
ICSAB3	ICSAB	1	37617.9	38868.5	96.78	PASS	30-150
CCV3	CCV	1	40479.1	38868.5	104.14	PASS	30-150
CCB3	CCB	1	39878.7	38868.5	102.6	PASS	30-150
CCV4	CCV	1	40979.1	38868.5	105.43	PASS	30-150
CCB4	CCB	1	40132.6	38868.5	103.25	PASS	30-150
ICSA4	ICSA	1	40343.2	38868.5	103.79	PASS	30-150
ICSAB4	ICSAB	1	40862.2	38868.5	105.13	PASS	30-150
MB-114151	MBLK	1	39750.5	38868.5	102.27	PASS	30-150
LCS-114151	LCS	1	38943.2	38868.5	100.19	PASS	30-150
N069991-002B	SAMP	1	28583.4	38868.5	73.54	PASS	30-150
N069991-003B	SAMP	1	29270.1	38868.5	75.31	PASS	30-150
N069991-004B	SAMP	1	25551.8	38868.5	65.74	PASS	30-150
N069991-005B	SAMP	1	28186.1	38868.5	72.52	PASS	30-150
N069991-007C	SAMP	1	27333.5	38868.5	70.32	PASS	30-150
N069991-008C	SAMP	1	25219.1	38868.5	64.88	PASS	30-150
N069991-009C	SAMP	1	25906.8	38868.5	66.65	PASS	30-150
CCV5	CCV	1	33709.6	38868.5	86.73	PASS	30-150
CCB5	CCB	1	33095.1	38868.5	85.15	PASS	30-150

INTERNAL STANDARD: 241116D

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
N069991-010C	SAMP	1	25190.2	38868.5	64.81	PASS	30-150
N069996-001B	SAMP	1	30123.9	38868.5	77.5	PASS	30-150
N069996-002C	SAMP	1	31345	38868.5	80.64	PASS	30-150
N069996-003B	SAMP	1	16662.8	38868.5	42.87	PASS	30-150
N069996-004B	SAMP	1	19608.3	38868.5	50.45	PASS	30-150
N069996-006C	SAMP	1	22075.8	38868.5	56.8	PASS	30-150
N069996-007B	SAMP	1	22938	38868.5	59.01	PASS	30-150
N069996-008C	SAMP	1	23897.2	38868.5	61.48	PASS	30-150
N069996-009C	SAMP	1	22899.1	38868.5	58.91	PASS	30-150
CCV6	CCV	1	29259	38868.5	75.28	PASS	30-150
CCB6	CCB	1	28947.4	38868.5	74.48	PASS	30-150
N069996-010C	SAMP	1	22292.7	38868.5	57.35	PASS	30-150
N069996-010C	SAMP	5	26550.1	38868.5	68.31	PASS	30-150
N069996-010C-PS	PS	1	22072.5	38868.5	56.79	PASS	30-150
N069996-010CMS	MS	1	22574.2	38868.5	58.08	PASS	30-150
N069996-010CMSD	MSD	1	22580.9	38868.5	58.1	PASS	30-150
N069996-011C	SAMP	1	22852.4	38868.5	58.79	PASS	30-150
N069583-008B	SAMP	1	23877.2	38868.5	61.43	PASS	30-150
CCV7	CCV	1	28794.9	38868.5	74.08	PASS	30-150
CCB7	CCB	1	28517.7	38868.5	73.37	PASS	30-150
ICSA5	ICSA	1	28891.7	38868.5	74.33	PASS	30-150
ICSAB5	ICSAB	1	30132.8	38868.5	77.52	PASS	30-150
CCV8	CCV	1	31977.4	38868.5	82.27	PASS	30-150
CCB8	CCB	1	30894.2	38868.5	79.48	PASS	30-150
CCV9	CCV	1	33248.7	38868.5	85.54	PASS	30-150
CCB9	CCB	1	32226.6	38868.5	82.91	PASS	30-150
CCV10	CCV	1	33337.8	38868.5	85.77	PASS	30-150
CCB10	CCB	1	32079.7	38868.5	82.53	PASS	30-150
ICSA6	ICSA	1	32195.5	38868.5	82.83	PASS	30-150
ICSAB6	ICSAB	1	32764.4	38868.5	84.3	PASS	30-150
CCV11	CCV	1	31094.5	38868.5	80	PASS	30-150
CCB11	CCB	1	30854.1	38868.5	79.38	PASS	30-150
CCV12	CCV	1	32428.2	38868.5	83.43	PASS	30-150
CCB12	CCB	1	31922.7	38868.5	82.13	PASS	30-150
CCV13	CCV	1	33017.1	38868.5	84.95	PASS	30-150
CCB13	CCB	1	32810	38868.5	84.41	PASS	30-150
ICSA7	ICSA	1	33588.2	38868.5	86.41	PASS	30-150
ICSAB7	ICSAB	1	34338.6	38868.5	88.35	PASS	30-150

SERIAL DILUTION/ POST DIGESTION SPIKE



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ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N069583
 Test Method: EPA 6020
 Analysis Date: 11/1,3/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 113746

Instrument ID: NV00922-ICP8 (ICPMS-03)
 Instrument Description: Agilent 7800


Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to several analytes. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069583-003B DT 5x	Barium	Ba	µg/L	44.60151	PASS	41.58536	7.25%	10
N069583-003B DT 5x	Molybdenum	Mo	µg/L	4.038065	NA	3.69116	9.40%	10
N069583-003B DT 5x	Selenium	Se	µg/L	0	NA	0		10
N069583-003B DT 5x	Arsenic	As	µg/L	1.130018	NA	1.294523	12.71%	10
N069583-003B DT 5x	Chromium	Cr	µg/L	0	NA	0		10
N069583-003B DT 50x	Manganese	Mn	µg/L	456.8206	PASS	446.5084	2.31%	10

Reviewed by:

 12/20/2024

Note: NA - Not Applicable

11/13/24 00:47

N069583_6020_113746_DT

ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N069583
Test Method: EPA 6020
Analysis Date: 11/17/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 114151

Instrument ID: NV00922-ICP8 (ICPMS-03)
Instrument Description: Agilent 7800


Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Cr. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069996-010C DT 5x	Chromium	Cr	µg/L	3.727971	NA	3.867949	3.62%	10

Reviewed by:

 12/20/2024

Note: NA - Not Applicable

12/03/24 19:39

N069583_6020_114151_DT

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID N069583-003B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ZZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/2/2024	SeqNo: 6283017						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	52.141	1.0	10.00	41.59	106	80	120				
Molybdenum	14.040	0.50	10.00	3.691	103	80	120				

Sample ID N069583-003B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ZZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286050						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	6.029	0.50	10.00	0	60.3	80	120				S

Sample ID N069583-003B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ZZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286051						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	1340.810	5.0	1000	446.5	89.4	80	120				

Sample ID N069583-003B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ZZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6293881						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.536	0.10	10.00	1.295	92.4	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID N069996-010C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195774						
Client ID: ZZZZZZ	Batch ID: 114151	TestNo: EPA 6020	EPA 3010A	Analysis Date: 11/17/2024	SeqNo: 6322917						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	11.362	0.10	10.00	1.100	103	80	120				
Barium	83.727	1.0	10.00	74.58	91.5	80	120				
Manganese	142.482	0.50	100.0	41.14	101	80	120				
Molybdenum	14.243	0.50	10.00	3.361	109	80	120				
Selenium	10.609	0.50	10.00	0	106	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID N069583-003B-PS	SampType: PS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ZZZZZZ	Batch ID: 113746	TestNo: EPA 6020	EPA 3010A	Analysis Date: 11/4/2024	SeqNo: 6286905						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.171	1.0	10.00	0	91.7	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID	N069996-010C-PS	SampType:	PS	TestCode:	6020DIS_CrP		Units:	µg/L		Prep Date:	RunNo: 195782		
Client ID:	ZZZZZZ	Batch ID:	114151	TestNo:	EPA 6020	EPA 3010A				Analysis Date:	11/17/2024		SeqNo: 6323284
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium		14.193		1.0	10.00	3.868	103	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

MDL STUDY



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Method Detection Limit

Analytical Method: **EPA 6020B**
 Digestion Method: **3010**
 Date of Analysis: **2/15-2/19/2024**
 Digestion Date: **2/15-2/19/2024**
 Instrument Name: **NV0922-ICP8**
 Analysts: **DJ**

Matrix: **Water**
 Unit: **ug/L**

Analyte	1	2	3	4	5	6	7	AMT SPIKED, ppb	SD	MDLs	PQL	MDL
ANTIMONY	0.543	0.521	0.559	0.527	0.573	0.559	0.572	0.50	0.0208	0.0653	0.50	0.0653
ARSENIC	0.102	0.123	0.107	0.116	0.096	0.161	0.115	0.10	0.0212	0.0668	0.10	0.0668
BARIUM	1.103	1.065	1.083	1.081	1.094	1.066	1.060	1.00	0.0159	0.0499	1.00	0.0499
BERYLLIUM	0.533	0.524	0.557	0.541	0.564	0.565	0.502	0.50	0.0233	0.0733	0.50	0.0733
CADMIUM	0.523	0.562	0.529	0.559	0.491	0.544	0.533	0.50	0.0243	0.0763	0.50	0.0763
CHROMIUM	1.015	0.996	1.000	1.100	1.030	1.081	1.052	1.00	0.0402	0.1264	1.00	0.1264
COBALT	0.524	0.523	0.541	0.559	0.528	0.534	0.551	0.50	0.0138	0.0433	0.50	0.0433
COPPER	1.043	1.028	1.026	1.016	1.068	1.098	1.021	1.00	0.0301	0.0947	1.00	0.0947
IRON	11.041	10.660	10.783	11.168	10.989	10.919	10.802	10.00	0.1734	0.5449	10.00	0.5449
LEAD	1.076	1.068	1.091	1.077	1.083	1.040	1.040	1.00	0.0203	0.0637	1.00	0.0637
MANGANESE	0.558	0.529	0.519	0.541	0.532	0.525	0.554	0.50	0.0148	0.0465	0.50	0.0465
MOLYBDENUM	0.564	0.571	0.574	0.537	0.518	0.554	0.550	0.50	0.0200	0.0629	0.50	0.0629
NICKEL	1.025	1.059	1.057	0.947	0.974	1.069	1.036	1.00	0.0465	0.1461	1.00	0.1461
SELENIUM	0.679	0.622	0.547	0.429	0.439	0.552	0.506	0.50	0.0911	0.2863	0.50	0.2863
SILVER	0.525	0.538	0.555	0.545	0.551	0.530	0.518	0.50	0.0140	0.0439	0.50	0.0439
THALLIUM	0.503	0.493	0.491	0.555	0.525	0.504	0.499	0.50	0.0227	0.0713	0.50	0.0713
URANIUM	0.517	0.513	0.528	0.542	0.526	0.533	0.523	0.50	0.0097	0.0306	0.50	0.0306
VANADIUM	1.081	1.076	1.027	1.054	1.069	1.043	1.080	1.00	0.0209	0.0658	1.00	0.0658
ZINC	10.646	10.643	10.661	10.514	10.927	10.516	10.419	10.00	0.1631	0.5126	10.00	0.7534
ALUMINUM	10.305	10.064	10.146	10.336	10.592	10.459	10.670	10.00	0.2224	0.6990	10.00	0.6990



Method Detection Limit (Blanks)

Analyte	1	2	3	4	5	6	7	Mean	SD	MDLb
ANTIMONY	0.011	0.009	0.001	0.001	0.003	0.018	0.012	0.0080	0.0065	0.0285
ARSENIC	0.021	0.013	0.004	0.008	0.000	0.001	0.000	0.0067	0.0079	0.0316
BARIUM	0.000	0.018	0.014	0.000	0.003	0.001	0.003	0.0054	0.0072	0.0280
BERYLLIUM	0.003	0.005	0.007	0.002	0.005	0.014	0.003	0.0057	0.0039	0.0179
CADMIUM	0.000	0.002	0.000	0.000	0.000	0.001	0.000	0.0004	0.0007	0.0026
CHROMIUM	0.000	0.000	0.000	0.000	0.000	0.001	0.004	0.0008	0.0016	0.0059
COBALT	0.000	0.000	0.000	0.000	0.000	0.003	0.001	0.0006	0.0012	0.0042
COPPER	0.000	0.000	0.069	0.000	0.010	0.000	0.000	0.0113	0.0258	0.0924
IRON	0.000	0.000	0.000	0.236	0.187	0.020	0.112	0.0792	0.0996	0.3922
LEAD	0.001	0.000	0.000	0.002	0.001	0.001	0.001	0.0011	0.0009	0.0037
MANGANESE	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.0008	0.0020	0.0071
MOLYBDENUM	0.017	0.013	0.007	0.015	0.004	0.022	0.009	0.0126	0.0062	0.0321
NICKEL	0.000	0.000	0.062	0.000	0.000	0.017	0.013	0.0132	0.0228	0.0849
SELENIUM	0.007	0.027	0.000	0.000	0.019	0.000	0.013	0.0093	0.0107	0.0428
SILVER	0.004	0.002	0.002	0.000	0.000	0.001	0.000	0.0012	0.0014	0.0057
THALLIUM	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.0003	0.0008	0.0028
URANIUM	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.0001	0.0004	0.0013
VANADIUM	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.0003	0.0004	0.0016
ZINC	0.000	0.000	0.257	0.175	0.513	0.000	0.000	0.1350	0.1968	0.7534
ALUMINUM	0.000	0.000	0.106	0.000	0.000	0.170	0.295	0.0816	0.1160	0.4460

Note: Higher value between **MDLs** and **MDLb** will be used.



LOD PQL VERIFICATION 2024

Analytical Method: EPA 6020 / 200.8
Digestion Method: EPA 3010A
Date of Analysis: 1/20/2024
Digestion Date: 1/20/2024
Instrument Name: ICPMS3
Analysts: DBJ

Matrix: Water
Units: ug/L

N062388

Analyte	MDLs	LOD	ACTUAL LOD	PQL	ACTUAL PQL	% RECOVERY
ANTIMONY	0.0652	0.025	0.288	0.50	0.552	110
ARSENIC	0.0667	0.050	0.055	0.10	0.107	107
BARIUM	0.0498	0.500	0.547	1.00	1.049	105
BERYLLIUM	0.0732	0.250	0.253	0.50	0.502	100
CADMIUM	0.0763	0.250	0.255	0.50	0.498	100
CHROMIUM	0.1263	0.500	0.536	1.00	1.048	105
COBALT	0.0433	0.250	0.261	0.50	0.518	104
COPPER	0.0946	0.100	0.620	1.00	0.941	94
IRON	0.5444	5.000	5.219	10.00	10.531	105
LEAD	0.0636	0.500	0.513	1.00	1.035	104
MANGANESE	0.0464	0.250	0.261	0.50	0.602	120
MOLYBDENUM	0.0628	0.250	0.275	0.50	0.534	107
NICKEL	0.1460	0.500	0.492	1.00	1.184	118
SELENIUM	0.2861	0.250	0.272	0.50	0.536	107
SILVER	0.0438	0.250	0.277	0.50	0.534	107
THALLIUM	0.0712	0.250	0.264	0.50	0.508	102
URANIUM	0.0306	0.250	0.261	0.50	0.523	105
VANADIUM	0.0657	0.500	0.557	1.00	1.063	106
ZINC	0.5121	5.000	5.394	10.00	10.481	105
ALUMINUM	0.6983	5.000	5.519	10.00	10.395	104



Enthalpy Analytical
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enthalpy.com

Lab Job Number : 519440
Report Level : II
Report Date : 11/19/2024

Analytical Report *prepared for:*

Sonny Lorenzo
Asset Laboratories
11110 Artersia Blvd,
Suite B
Cerritos, CA 90703

Location: N069584

Authorized for release by:

Quynhgiao Le, Project Manager
714-7716900
quynhgiao.le@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

Sample Summary

Sonny Lorenzo
Asset Laboratories
11110 Artersia
Blvd,
Suite B
Cerritos, CA 90703

Lab Job #: 519440
Location: N069584
Date Received: 11/01/24

Sample ID	Lab ID	Collected	Matrix
N069584-001A/MW-86-030-Q424	519440-001	10/30/24 09:16	Water
N069584-002A/MW-86-066-Q424	519440-002	10/30/24 08:49	Water
N069584-003A/MW-86-120-Q424	519440-003	10/30/24 09:44	Water
N069584-004A/MW-86-140-Q424	519440-004	10/30/24 10:16	Water
N069584-005A/MW-28-025-Q424	519440-005	10/30/24 11:25	Water
N069584-006A/MW-28-090-Q424	519440-006	10/30/24 12:03	Water
N069584-007A/MW-90-031-Q424	519440-007	10/30/24 12:44	Water
N069584-008A/MW-22-Q424	519440-008	10/30/24 13:40	Water

Case Narrative

Asset Laboratories
11110 Artersia Blvd,
Suite B
Cerritos, CA 90703
Sonny Lorenzo

Lab Job Number: 519440
Location: N069584
Date Received: 11/01/24

- This data package contains sample and QC results for eight water samples, requested for the above referenced project on 11/01/24. The samples were received cold and intact.
- Level II is also requested.

519440

CHAIN-OF-CUSTODY RECORD

ASSET Laboratories
 3151-3153 W Post Rd., Las Vegas, NV 89118
 www.asset-labs.com
 TEL: 7023072659 FAX: 7023072691



QC Level: Level IV

Subcontractor: Enthelby Analytical
 931 W. Barkley Ave.
 Orange, CA 92868

Field Sampler: Riggie Tep

TEL: (714) 771-6900
 FAX: (714) 538-1209
 Acct #:

31-Oct-24

Sample ID	Matrix	Date Collected	Bottle Type	SM5310B	Requested Tests	
N069584-001A / MW-86-030-Q424	Groundwater	10/30/2024 9:16:00 AM	8OZA	1		
N069584-002A / MW-86-066-Q424	Groundwater	10/30/2024 8:49:00 AM	8OZA	1		
N069584-003A / MW-86-120-Q424	Groundwater	10/30/2024 9:44:00 AM	8OZA	1	MS/MSD	
N069584-004A / MW-86-140-Q424	Groundwater	10/30/2024 10:16:00 AM	8OZA	1		
N069584-005A / MW-28-025-Q424	Groundwater	10/30/2024 11:25:00 AM	8OZA	1		
N069584-006A / MW-28-090-Q424	Groundwater	10/30/2024 12:03:00 PM	8OZA	1		
N069584-007A / MW-90-031-Q424	Groundwater	10/30/2024 12:44:00 PM	8OZA	1		
N069584-008A / MW-22-Q424	Groundwater	10/30/2024 1:40:00 PM	8OZA	1		

4.1/4.2 IRV

General Comments: PLEASE EMAIL SAMPLE RECEIPT ACKNOWLEDGEMENT TO THE PM. ALWAYS CC: sonny.lorenzo@assetlaboratories.com
 Please use PO#N69584A Please email Invoices and Account Receivable Statements to elvira@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by Standard TAT
 Please analyze TOC by SM5310B. EDD requirement Labspec7 edata.

GLS#: 562200583

Relinquished by: Efanegof Date/Time: 10/31/2024 1600

Relinquished by: [Signature] Date/Time: 11/11/24 1147

SAMPLE RECEIPT CHECKLIST



Section 1: General Info

Date Received: 11/01/24 WO# 5191440 Client: Asset Labs

Section 2: Shipping / Custody

Are custody seals present? Yes No

Custody seals intact on arrival? N/A Yes No On cooler / box On samples

Shipping Info: _____

Section 3a: Condition / Packaging

Outside 0.0 - 6.0°C (0.0 - 10.0°C for microbiology) (PM notified)

Date Opened 11/01/24 By (initials) EA-Orange Type of ice used: Wet Blue/Gel None

Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatures)

Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures)

If no cooler: Observed/Adjusted Temp (°C): _____ / _____ Thermometer/IR Gun: JRU CF: -10.1

Cooler Temp (°C) #1: 4.1 / 4.2 #2: _____ / _____ #3: _____ / _____ #4: _____ / _____ #5: _____ / _____ #6: _____ / _____

Section 3b: Microbiology Samples

No microbiology samples submitted (skip 3b)

Within temp range 0.0 - 10.0°C or received on ice directly from field.

Adequate headspace for microbiology analysis.

Section 3c: Air Samples

No air samples submitted (skip 3c)

1.4L Canisters 6L Canisters Tedlar Bags MCE Cassettes Sorbent Tubes Other _____

Section 4: Containers / Labels / Samples

	YES	NO	N/A
1) Were custody papers present, filled properly, and legible?	/		
2) Is the sampler's name present on the CoC?	/		
3) Were containers received in good condition (unbroken / unopened / uncompromised)?	/		
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)			/
5) Were all of, and only, the correct samples received?	/		
6) Are sample labels present, legible, and in agreement with the CoC?	/		
7) Does the container count match the CoC?	/		
8) Was sufficient sample volume / mass received for the analyses requested?	/		
9) Were samples received in proper containers for the analyses requested?	/		
10) Were samples received with > 1/2 holding time remaining?	/		
11) Are samples properly preserved as indicated by CoC / labels?	/		
12) Unpreserved VOAs received - if necessary, was the hold time changed in LIMS?			/
13) Are VOA vials free from headspace/bubbles > 6mm?			/

Section 5: Explanations / Comments

PM notified

Date Logged 11/01/24 By (print) AEJ (sign) [Signature]
 Date Labeled 11/1/24 By (print) EA-Orange (sign) _____

GLS.

800-322-5555
www.gls-us.com

Ship From
ADVANCED TECHNOLOGY
LABORATORIES, INC.
MARLON CARTIN
3151 W. POST RD.
LAS VEGAS, NV 89118

Tracking #: 562200583

PDS

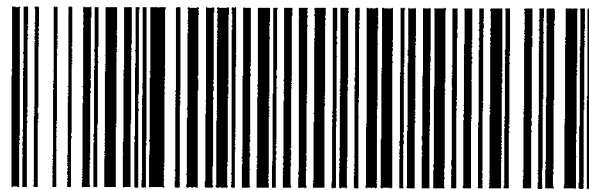


Ship To
ENHALPY ANALYTICAL
SAMPLE RECEIVING
931 W. BARKLEY AVE
ORANGE, CA 92868

ORANGE

S10219D

COD: \$0.00
Weight: 0 lb(s)
Reference:



18824954

Delivery Instructions:

Signature Type: STANDARD

ORC CA927-RD0

Print Date: 10/31/2024 11:02 AM

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

@ 1147

Analysis Results for 519440

Sonny Lorenzo
 Asset Laboratories
 11110 Artersia Blvd,
 Suite B
 Cerritos, CA 90703

Lab Job #: 519440
 Location: N069584
 Date Received: 11/01/24

Sample ID: N069584-001A/MW-86-030-Q424 **Lab ID:** 519440-001 **Collected:** 10/30/24 09:16
Matrix: Water

519440-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	14		mg/L	1.0	1	354498	11/02/24	11/03/24	CKN

Sample ID: N069584-002A/MW-86-066-Q424 **Lab ID:** 519440-002 **Collected:** 10/30/24 08:49
Matrix: Water

519440-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	2.0		mg/L	1.0	1	354498	11/02/24	11/03/24	CKN

Sample ID: N069584-003A/MW-86-120-Q424 **Lab ID:** 519440-003 **Collected:** 10/30/24 09:44
Matrix: Water

519440-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	3.2		mg/L	1.0	1	354498	11/02/24	11/03/24	CKN

Sample ID: N069584-004A/MW-86-140-Q424 **Lab ID:** 519440-004 **Collected:** 10/30/24 10:16
Matrix: Water

519440-004 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	4.2		mg/L	1.0	1	354498	11/02/24	11/03/24	CKN

Sample ID: N069584-005A/MW-28-025-Q424 **Lab ID:** 519440-005 **Collected:** 10/30/24 11:25
Matrix: Water

519440-005 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	3.9		mg/L	1.0	1	354498	11/02/24	11/03/24	CKN

Analysis Results for 519440

Sample ID: N069584-006A/MW-28-090-Q424	Lab ID: 519440-006 Matrix: Water	Collected: 10/30/24 12:03
--	---	----------------------------------

519440-006 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	2.2		mg/L	1.0	1	354498	11/02/24	11/03/24	CKN

Sample ID: N069584-007A/MW-90-031-Q424	Lab ID: 519440-007 Matrix: Water	Collected: 10/30/24 12:44
--	---	----------------------------------

519440-007 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	45		mg/L	2.0	2	354498	11/02/24	11/03/24	CKN

Sample ID: N069584-008A/MW-22-Q424	Lab ID: 519440-008 Matrix: Water	Collected: 10/30/24 13:40
--	---	----------------------------------

519440-008 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	12		mg/L	1.0	1	354498	11/02/24	11/03/24	CKN

Batch QC

Type: Blank	Lab ID: QC1200790	Batch: 354498
Matrix: Water	Method: SM 5310B	Prep Method: SM 5310B

QC1200790 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Total Organic Carbon	ND		mg/L	1.0	11/02/24	11/03/24

Type: Lab Control Sample	Lab ID: QC1200791	Batch: 354498
Matrix: Water	Method: SM 5310B	Prep Method: SM 5310B

QC1200791 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Organic Carbon	24.00	25.00	mg/L	96%		80-120

Type: Matrix Spike	Lab ID: QC1200792	Batch: 354498
Matrix (Source ID): Water (519440-003)	Method: SM 5310B	Prep Method: SM 5310B

QC1200792 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Total Organic Carbon	28.13	3.175	25.00	mg/L	100%		80-120	1

Type: Matrix Spike Duplicate	Lab ID: QC1200793	Batch: 354498
Matrix (Source ID): Water (519440-003)	Method: SM 5310B	Prep Method: SM 5310B

QC1200793 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Total Organic Carbon	28.40	3.175	25.00	mg/L	101%		80-120	1	20	1

ND Not Detected

ARCADIS

Project: PG&E Topock - Phase2B
Project No.: 30211191

ASSET Laboratories Work Order:
N069585

ANALYTICAL and QC RESULTS SAMPLE RECEIVING ITEMS

PRIVILEGED AND CONFIDENTIAL



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P: 702.307.2659 F: 702.307.2691

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November 14, 2024

Laura Madsen
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661
TEL: 1 720 344 3771
FAX:

Workorder No.: N069585

RE: PG&E Topock - Phase2B, 30211191

Attention: Laura Madsen

Enclosed are the results for sample(s) received on October 30, 2024 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

The reported results relate only to the samples as received and parameters tested by the laboratory.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

 for

Nancy Sibucan
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - Las Vegas.



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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - Phase2B, 30211191
Lab Order: N069585

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 300:

Dilution was necessary due to precipitation of sample upon addition of eluent.

Analytical Comments for EPA 6010B_Dissolved:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Sodium in QC samples N069585-001B-MS2 and N069585-001B-MSD2 since the analyte concentration in the sample is disproportionate to the spike level. Post Spike passed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.



CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - Phase2B, 30211191
Lab Order: N069585
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N069585-001A	MW-88-107-Q424	Groundwater	10/30/2024 9:37:00 AM	10/30/2024	11/14/2024
N069585-001B	MW-88-107-Q424	Groundwater	10/30/2024 9:37:00 AM	10/30/2024	11/14/2024
N069585-001C	MW-88-107-Q424	Groundwater	10/30/2024 9:37:00 AM	10/30/2024	11/14/2024



ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 14-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069585
Project: PG&E Topock - Phase2B, 30211191
Lab ID: N069585-001

Client Sample ID: MW-88-107-Q424
Collection Date: 10/30/2024 9:37:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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TOTAL FILTERABLE RESIDUE

SM2540C

RunID: NV00922-WC_241031B	QC Batch: 113754				PrepDate: 10/31/2024		Analyst: LR
Total Dissolved Solids (Residue, Filterable)	530	10	10		mg/L	1	10/31/2024 10:13 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.1_2540C_WPGE

Sample ID	LCS-113754	SampType:	LCS	TestCode:	160.1_2540C	Units:	mg/L	Prep Date:	10/31/2024	RunNo:	195262			
Client ID:	LCSW	Batch ID:	113754	TestNo:	SM2540C			Analysis Date:	10/31/2024	SeqNo:	6291419			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera		980.000		10	10	1000	0	98.0	80	120				

Sample ID	MB-113754	SampType:	MBLK	TestCode:	160.1_2540C	Units:	mg/L	Prep Date:	10/31/2024	RunNo:	195262			
Client ID:	PBW	Batch ID:	113754	TestNo:	SM2540C			Analysis Date:	10/31/2024	SeqNo:	6291420			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera		ND		10	10									

Sample ID	N069570-001CDUP	SampType:	DUP	TestCode:	160.1_2540C	Units:	mg/L	Prep Date:	10/31/2024	RunNo:	195262			
Client ID:	ZZZZZ	Batch ID:	113754	TestNo:	SM2540C			Analysis Date:	10/31/2024	SeqNo:	6291425			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera		1200.000		13	13					1177		1.91	5	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069585
Project: PG&E Topock - Phase2B, 30211191
Lab ID: N069585-001

Client Sample ID: MW-88-107-Q424
Collection Date: 10/30/2024 9:37:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	-----	------	-------	----	---------------

HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241031A	QC Batch: R195071				PrepDate:		Analyst: RAB
Hexavalent Chromium	26	0.19	1.0		µg/L	5	10/31/2024 03:21 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113746				PrepDate: 10/31/2024		Analyst: DJ
Chromium	25	0.13	1.0		µg/L	1	11/4/2024 09:34 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID MB-R195071	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: PBW	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279542								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.039	0.20									

Sample ID LCS-R195071	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: LCSW	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279543								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.714	0.039	0.20	5.000	0	94.3	90	110				

Sample ID N069543-018AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279545								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.057	0.039	0.20	1.000	0	106	90	110				

Sample ID N069543-021AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279547								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.132	0.039	0.20	1.000	0.1996	93.3	90	110				

Sample ID N069583-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279551								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.145	0.19	1.0	5.000	0	103	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069583-003AMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279552							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.283	0.19	1.0	5.000	0	106	90	110	5.144	2.65	20	

Sample ID N069583-006AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279557							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.943	0.039	0.20	1.000	0	94.3	90	110				

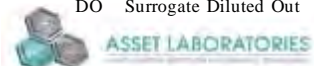
Sample ID N069585-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279559							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	49.904	0.19	1.0	25.00	25.68	96.9	90	110				

Sample ID N069585-001ADUP	SampType: DUP	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279560							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	25.685	0.19	1.0						25.68	0.0312	20	

Sample ID N069582-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279562							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	46.817	0.19	1.0	25.00	23.36	93.8	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069582-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279563							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	63.441	0.19	1.0	25.00	37.59	103	90	110
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Sample ID N069543-019AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279567							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	7.503	0.19	1.0	5.000	2.146	107	90	110
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Sample ID N069543-020AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279569							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	7.435	0.19	1.0	5.000	2.386	101	90	110
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Sample ID N069582-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279571							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	1.010	0.039	0.20	1.000	0	101	90	110
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Sample ID N069583-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279573							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.413	0.19	1.0	5.000	0.8955	90.3	90	110
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| (M) Test is modified | | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069583-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279575								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.481	0.19	1.0	5.000	0	110	90	110				

Sample ID N069583-004AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279579								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	6.735	0.19	1.0	5.000	1.958	95.5	90	110				

Sample ID N069583-005AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279581								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.085	0.039	0.20	1.000	0	109	90	110				

Sample ID N069583-007AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279583								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.053	0.039	0.20	1.000	0	105	90	110				

Sample ID N069583-008AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071							
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279587								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.488	0.19	1.0	5.000	0	110	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069583-009AMS	SampType: MS	TestCode: 218.6_WPGE Units: µg/L				Prep Date:	RunNo: 195071					
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6				Analysis Date: 10/31/2024	SeqNo: 6279589					
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.027	0.19	1.0	5.000	0	101	90	110				

Sample ID N069583-010AMS	SampType: MS	TestCode: 218.6_WPGE Units: µg/L				Prep Date:	RunNo: 195071					
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6				Analysis Date: 10/31/2024	SeqNo: 6279591					
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.840	0.19	1.0	5.000	0	96.8	90	110				

Sample ID N069583-011AMS	SampType: MS	TestCode: 218.6_WPGE Units: µg/L				Prep Date:	RunNo: 195071					
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6				Analysis Date: 10/31/2024	SeqNo: 6279595					
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.043	0.039	0.20	1.000	0	104	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID MB-113746	SampType: MBLK	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195188							
Client ID: PBW	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286883							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	0.13	1.0									
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Sample ID LCS-113746	SampType: LCS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195188							
Client ID: LCSW	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286884							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	9.636	0.13	1.0	10.00	0	96.4	85	115				
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Sample ID N069583-003BMS	SampType: MS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195188							
Client ID: ZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286907							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	9.093	0.13	1.0	10.00	0	90.9	75	125				
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Sample ID N069583-003BMSD	SampType: MSD	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195188							
Client ID: ZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286909							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	9.069	0.13	1.0	10.00	0	90.7	75	125	9.093	0.267	20	
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID N069583-003B-PS	SampType: PS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188							
Client ID: ZZZZZ	Batch ID: 113746	TestNo: EPA 6020	EPA 3010A	Analysis Date: 11/4/2024	SeqNo: 6286905							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.171	0.13	1.0	10.00	0	91.7	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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ICP-MS-Metals in Water

Work Order No.: N069582 / N069583 /N069585
Test Method: EPA 6020
Analysis Date: 11/3/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 113746


Instrument ID: NV00922-ICP8 (ICPMS-03)
Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Cr & As. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069583-003B DT 5x	Chromium	Cr	µg/L	0	NA	0		10
N069583-003B DT 5x	Arsenic	As	µg/L	1.130018	NA	1.294523	12.71%	10

 11/14/2024

Note: NA - Not Applicable

11/14/24 10:52

N069582_6020_113746_DT

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 14-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069585
Project: PG&E Topock - Phase2B, 30211191
Lab ID: N069585-001

Client Sample ID: MW-88-107-Q424
Collection Date: 10/30/2024 9:37:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ALKALINITY, SPECIATED

SM 2320 B

RunID: NV00922-WC_241102B	QC Batch: R195337				PrepDate:		Analyst: LR
Alkalinity, Total (As CaCO3)	160	5.0	5.0		mg/L	1	11/2/2024 12:05 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 2320_W_SP

Sample ID	LCS-R195337	SampType:	LCS	TestCode:	2320_W_SP	Units:	mg/L	Prep Date:		RunNo:	195337	
Client ID:	LCSW	Batch ID:	R195337	TestNo:	SM 2320 B			Analysis Date:	11/2/2024	SeqNo:	6296646	
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	100.806	5.0	5.0	100.0	0	101	85	115				

Sample ID	N069629-001CDUP	SampType:	DUP	TestCode:	2320_W_SP	Units:	mg/L	Prep Date:		RunNo:	195337	
Client ID:	ZZZZZ	Batch ID:	R195337	TestNo:	SM 2320 B			Analysis Date:	11/2/2024	SeqNo:	6296660	
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	86.694	5.0	5.0						85.69	1.17	30	

Sample ID	N069629-001CMSD	SampType:	MS	TestCode:	2320_W_SP	Units:	mg/L	Prep Date:		RunNo:	195337	
Client ID:	ZZZZZ	Batch ID:	R195337	TestNo:	SM 2320 B			Analysis Date:	11/2/2024	SeqNo:	6296661	
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	187.500	5.0	5.0	100.0	85.69	102	75	125				

Sample ID	N069629-001CMSD	SampType:	MSD	TestCode:	2320_W_SP	Units:	mg/L	Prep Date:		RunNo:	195337	
Client ID:	ZZZZZ	Batch ID:	R195337	TestNo:	SM 2320 B			Analysis Date:	11/2/2024	SeqNo:	6296662	
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	189.516	5.0	5.0	100.0	85.69	104	75	125	187.5	1.07	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 14-Nov-24

CLIENT:	ARCADIS U.S., Inc. - California	Client Sample ID:	MW-88-107-Q424
Lab Order:	N069585		
Project:	PG&E Topock - Phase2B, 30211191	Collection Date:	10/30/2024 9:37:00 AM
Lab ID:	N069585-001	Matrix:	GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: NV00922-IC8_241031A	QC Batch: R195039				PrepDate:		Analyst: RAB
Bromide	ND	0.18	2.5		mg/L	5	10/31/2024 05:37 PM
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: NV00922-IC8_241031A	QC Batch: R195039				PrepDate:		Analyst: RAB
Chloride	94	5.8	10		mg/L	20	10/31/2024 06:42 PM
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: NV00922-IC8_241031A	QC Batch: R195039				PrepDate:		Analyst: RAB
Fluoride	0.80	0.16	0.50		mg/L	5	10/31/2024 05:37 PM
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: NV00922-IC8_241031A	QC Batch: R195039				PrepDate:		Analyst: RAB
Sulfate	71	6.9	10		mg/L	20	10/31/2024 06:42 PM
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: NV00922-IC9_241031A	QC Batch: R195037				PrepDate:		Analyst: RAB
Nitrate as N	14	0.24	0.50		mg/L	10	10/31/2024 11:19 AM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



ASSET LABORATORIES

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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_BRPGE

Sample ID	MB-R195039_BR	SampType:	MBLK	TestCode:	300_W_BRP	Units:	mg/L	Prep Date:		RunNo:	195039			
Client ID:	PBW	Batch ID:	R195039	TestNo:	EPA 300.0			Analysis Date:	10/31/2024	SeqNo:	6280182			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide		ND		0.036	0.50									

Sample ID	LCS-R195039_BR	SampType:	LCS	TestCode:	300_W_BRP	Units:	mg/L	Prep Date:		RunNo:	195039			
Client ID:	LCSW	Batch ID:	R195039	TestNo:	EPA 300.0			Analysis Date:	10/31/2024	SeqNo:	6280183			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide		1.252		0.036	0.50	1.250	0	100	90	110				

Sample ID	N069585-001CDUP	SampType:	DUP	TestCode:	300_W_BRP	Units:	mg/L	Prep Date:		RunNo:	195039			
Client ID:	ZZZZZ	Batch ID:	R195039	TestNo:	EPA 300.0			Analysis Date:	10/31/2024	SeqNo:	6280189			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide		ND		0.18	2.5						0	0	20	

Sample ID	N069585-001CMS	SampType:	MS	TestCode:	300_W_BRP	Units:	mg/L	Prep Date:		RunNo:	195039			
Client ID:	ZZZZZ	Batch ID:	R195039	TestNo:	EPA 300.0			Analysis Date:	10/31/2024	SeqNo:	6280190			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide		6.340		0.18	2.5	6.250	0	101	80	120				

Sample ID	N069585-001CMSD	SampType:	MSD	TestCode:	300_W_BRP	Units:	mg/L	Prep Date:		RunNo:	195039			
Client ID:	ZZZZZ	Batch ID:	R195039	TestNo:	EPA 300.0			Analysis Date:	10/31/2024	SeqNo:	6280191			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide		6.346		0.18	2.5	6.250	0	102	80	120	6.340	0.0867	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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NEVADA | P:702.307.2659 F:702.307.2691
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 ORELAP Cert 4046

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_CLPGE

Sample ID MB-R195039_CL	SampType: MBLK	TestCode: 300_W_CLP	Units: mg/L	Prep Date:	RunNo: 195039							
Client ID: PBW	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6280200							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	0.348	0.29	0.50									
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Sample ID LCS-R195039_CL	SampType: LCS	TestCode: 300_W_CLP	Units: mg/L	Prep Date:	RunNo: 195039							
Client ID: LCSW	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6280201							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	1.810	0.29	0.50	2.000	0	90.5	90	110				
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Sample ID N069567-001CMS	SampType: MS	TestCode: 300_W_CLP	Units: mg/L	Prep Date:	RunNo: 195039							
Client ID: ZZZZZ	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6280205							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	92.110	5.8	10	40.00	53.30	97.0	80	120				
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Sample ID N069567-001CMSD	SampType: MSD	TestCode: 300_W_CLP	Units: mg/L	Prep Date:	RunNo: 195039							
Client ID: ZZZZZ	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6280206							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	91.878	5.8	10	40.00	53.30	96.5	80	120	92.11	0.252	20	
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Sample ID N069569-001CDUP	SampType: DUP	TestCode: 300_W_CLP	Units: mg/L	Prep Date:	RunNo: 195039							
Client ID: ZZZZZ	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6280208							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloride	72.166	5.8	10						72.85	0.941	20	
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| (M) Test is modified | | |



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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

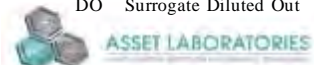
ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_CLPGE

Sample ID N069585-001CMS	SampType: MS	TestCode: 300_W_CLP	Units: mg/L	Prep Date:	RunNo: 195039							
Client ID: ZZZZZZ	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6280214							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	134.434	5.8	10	40.00	93.91	101	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_FPG

Sample ID MB-R195039_F	SampType: MBLK	TestCode: 300_W_FPG	Units: mg/L	Prep Date:	RunNo: 195039							
Client ID: PBW	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6287847							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluoride ND 0.032 0.10

Sample ID LCS-R195039_F	SampType: LCS	TestCode: 300_W_FPG	Units: mg/L	Prep Date:	RunNo: 195039							
Client ID: LCSW	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6287848							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluoride 1.249 0.032 0.10 1.250 0 99.9 90 110

Sample ID N069567-001CMS	SampType: MS	TestCode: 300_W_FPG	Units: mg/L	Prep Date:	RunNo: 195039							
Client ID: ZZZZZ	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6287852							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluoride 7.886 0.16 0.50 6.250 1.761 98.0 80 120

Sample ID N069567-001CMSD	SampType: MSD	TestCode: 300_W_FPG	Units: mg/L	Prep Date:	RunNo: 195039							
Client ID: ZZZZZ	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6287853							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluoride 7.902 0.16 0.50 6.250 1.761 98.2 80 120 7.886 0.196 20

Sample ID N069585-001CDUP	SampType: DUP	TestCode: 300_W_FPG	Units: mg/L	Prep Date:	RunNo: 195039							
Client ID: ZZZZZ	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6287857							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluoride 0.824 0.16 0.50 0.8000 2.89 20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| (M) Test is modified | | |



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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID	MB-R195039_SO4	SampType: MBLK	TestCode: 300_W_SO4P Units: mg/L				Prep Date:			RunNo: 195039			
Client ID:	PBW	Batch ID: R195039	TestNo: EPA 300.0				Analysis Date: 10/31/2024			SeqNo: 6280221			
Analyte		Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	ND	0.34	0.50										
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Sample ID	LCS-R195039_SO4	SampType: LCS	TestCode: 300_W_SO4P Units: mg/L				Prep Date:			RunNo: 195039			
Client ID:	LCSW	Batch ID: R195039	TestNo: EPA 300.0				Analysis Date: 10/31/2024			SeqNo: 6280222			
Analyte		Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	4.033	0.34	0.50	4.000	0	101	90	110					
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Sample ID	N069567-001CMS	SampType: MS	TestCode: 300_W_SO4P Units: mg/L				Prep Date:			RunNo: 195039			
Client ID:	ZZZZZ	Batch ID: R195039	TestNo: EPA 300.0				Analysis Date: 10/31/2024			SeqNo: 6280226			
Analyte		Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	317.492	6.9	10	80.00	240.1	96.7	80	120					
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Sample ID	N069567-001CMSD	SampType: MSD	TestCode: 300_W_SO4P Units: mg/L				Prep Date:			RunNo: 195039			
Client ID:	ZZZZZ	Batch ID: R195039	TestNo: EPA 300.0				Analysis Date: 10/31/2024			SeqNo: 6280227			
Analyte		Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	319.238	6.9	10	80.00	240.1	98.9	80	120	317.5	0.548	20		
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Sample ID	N069569-001CDUP	SampType: DUP	TestCode: 300_W_SO4P Units: mg/L				Prep Date:			RunNo: 195039			
Client ID:	ZZZZZ	Batch ID: R195039	TestNo: EPA 300.0				Analysis Date: 10/31/2024			SeqNo: 6280229			
Analyte		Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	179.844	6.9	10						181.4	0.846	20		
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID MB-R195037_NO3	SampType: MBLK	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195037							
Client ID: PBW	Batch ID: R195037	TestNo: EPA 300.0	Analysis Date: 10/31/2024	SeqNo: 6277711								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.024 0.050

Sample ID LCS-R195037_NO3	SampType: LCS	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195037							
Client ID: LCSW	Batch ID: R195037	TestNo: EPA 300.0	Analysis Date: 10/31/2024	SeqNo: 6277712								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 1.344 0.024 0.050 1.250 0 108 90 110

Sample ID N069583-003CMS	SampType: MS	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195037							
Client ID: ZZZZZ	Batch ID: R195037	TestNo: EPA 300.0	Analysis Date: 10/31/2024	SeqNo: 6277729								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 12.819 0.24 0.50 12.50 0 103 80 120

Sample ID N069583-003CMSD	SampType: MSD	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195037							
Client ID: ZZZZZ	Batch ID: R195037	TestNo: EPA 300.0	Analysis Date: 10/31/2024	SeqNo: 6277730								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 12.910 0.24 0.50 12.50 0 103 80 120 12.82 0.707 20

Sample ID N069582-006CDUP	SampType: DUP	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195037							
Client ID: ZZZZZ	Batch ID: R195037	TestNo: EPA 300.0	Analysis Date: 10/31/2024	SeqNo: 6277731								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 1.641 0.24 0.50 1.616 1.54 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- Calculations are based on raw values
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID N069583-006CMS	SampType: MS	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195037							
Client ID: ZZZZZZ	Batch ID: R195037	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6277732							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	14.760	0.24	0.50	12.50	0	118	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069585
Project: PG&E Topock - Phase2B, 30211191
Lab ID: N069585-001

Client Sample ID: MW-88-107-Q424
Collection Date: 10/30/2024 9:37:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HARDNESS BY CALCULATION

EPA 3010A

SM 2340 B

RunID:	NV00922-ICP4_241031G	QC Batch:	113745	PrepDate:	10/31/2024	Analyst:	DJ
Hardness, Calcium (As CaCO3)	59	0.50	0.50	mg/L	1	11/1/2024 03:25 AM	
Hardness, Magnesium (As CaCO3)	14	0.50	0.50	mg/L	1	11/1/2024 03:25 AM	
Total Hardness (As CaCO3)	73	1.0	1.0	mg/L	1	11/1/2024 03:25 AM	

DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID:	NV00922-ICP4_241031F	QC Batch:	113745	PrepDate:	10/31/2024	Analyst:	DJ
Iron	ND	5.8	20	µg/L	1	11/1/2024 03:25 AM	

DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID:	NV00922-ICP4_241031G	QC Batch:	113745	PrepDate:	10/31/2024	Analyst:	DJ
Boron	0.22	0.052	0.10	mg/L	1	11/1/2024 03:25 AM	
Calcium	24	0.068	0.50	mg/L	1	11/1/2024 03:25 AM	
Magnesium	3.4	0.013	0.10	mg/L	1	11/1/2024 03:25 AM	
Potassium	4.3	0.089	0.50	mg/L	1	11/6/2024 02:24 PM	
Sodium	140	2.8	12	mg/L	25	11/6/2024 02:33 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID MB-113745	SampType: MBLK	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195107							
Client ID: PBW	Batch ID: 113745	TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/1/2024	SeqNo: 6281677							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	ND	5.8	20									

Sample ID LCS-113745	SampType: LCS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195107							
Client ID: LCSW	Batch ID: 113745	TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/1/2024	SeqNo: 6281678							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	111.610	5.8	20	100.0	0	112	85	115				

Sample ID N069583-003BMS	SampType: MS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195107							
Client ID: ZZZZZ	Batch ID: 113745	TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/1/2024	SeqNo: 6281684							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	265.040	5.8	20	100.0	145.7	119	75	125				

Sample ID N069583-003BMSD	SampType: MSD	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195107							
Client ID: ZZZZZ	Batch ID: 113745	TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/1/2024	SeqNo: 6281685							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	258.060	5.8	20	100.0	145.7	112	75	125	265.0	2.67	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPM

Sample ID MB-113745	SampType: MBLK	TestCode: 6010_WDPG	Units: mg/L	Prep Date: 10/31/2024	RunNo: 195149							
Client ID: PBW	Batch ID: 113745	TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/1/2024	SeqNo: 6284027							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	ND	0.052	0.10									
Calcium	ND	0.068	0.50									
Magnesium	ND	0.013	0.10									

Sample ID LCS-113745	SampType: LCS	TestCode: 6010_WDPG	Units: mg/L	Prep Date: 10/31/2024	RunNo: 195149							
Client ID: LCSW	Batch ID: 113745	TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/1/2024	SeqNo: 6284028							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	5.552	0.052	0.10	5.000	0	111	85	115				
Calcium	11.008	0.068	0.50	10.00	0	110	85	115				
Magnesium	10.845	0.013	0.10	10.00	0	108	85	115				

Sample ID N069583-003BMS	SampType: MS	TestCode: 6010_WDPG	Units: mg/L	Prep Date: 10/31/2024	RunNo: 195149							
Client ID: ZZZZZ	Batch ID: 113745	TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/1/2024	SeqNo: 6284034							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	5.899	0.052	0.10	5.000	0.9060	99.9	75	125				
Calcium	211.199	0.068	0.50	10.00	202.6	86.0	75	125				
Magnesium	60.749	0.013	0.10	10.00	51.25	95.0	75	125				

Sample ID N069583-003BMSD	SampType: MSD	TestCode: 6010_WDPG	Units: mg/L	Prep Date: 10/31/2024	RunNo: 195149							
Client ID: ZZZZZ	Batch ID: 113745	TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/1/2024	SeqNo: 6284035							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	5.973	0.052	0.10	5.000	0.9060	101	75	125	5.899	1.25	20	
Calcium	214.425	0.068	0.50	10.00	202.6	118	75	125	211.2	1.52	20	
Magnesium	61.765	0.013	0.10	10.00	51.25	105	75	125	60.75	1.66	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPM

Sample ID MB-113745	SampType: MBLK	TestCode: 6010_WDPG	Units: mg/L	Prep Date: 10/31/2024	RunNo: 195306							
Client ID: PBW	Batch ID: 113745	TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/6/2024	SeqNo: 6294765							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	ND	0.089	0.50									
Sodium	ND	0.11	0.50									

Sample ID LCS2-113745	SampType: LCS	TestCode: 6010_WDPG	Units: mg/L	Prep Date: 10/31/2024	RunNo: 195306							
Client ID: LCSW	Batch ID: 113745	TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/6/2024	SeqNo: 6294766							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	10.621	0.089	0.50	10.00	0	106	85	115				
Sodium	10.827	0.11	0.50	10.00	0	108	85	115				

Sample ID N069585-001B-MS2	SampType: MS	TestCode: 6010_WDPG	Units: mg/L	Prep Date: 10/31/2024	RunNo: 195306							
Client ID: ZZZZZ	Batch ID: 113745	TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/6/2024	SeqNo: 6294786							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	15.217	0.089	0.50	10.00	4.276	109	75	125				

Sample ID N069585-001B-MS2	SampType: MS	TestCode: 6010_WDPG	Units: mg/L	Prep Date: 10/31/2024	RunNo: 195306							
Client ID: ZZZZZ	Batch ID: 113745	TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/6/2024	SeqNo: 6294787							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	171.904	2.8	12	10.00	143.9	280	75	125				S

Sample ID N069585-001B-MSD	SampType: MSD	TestCode: 6010_WDPG	Units: mg/L	Prep Date: 10/31/2024	RunNo: 195306							
Client ID: ZZZZZ	Batch ID: 113745	TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/6/2024	SeqNo: 6294788							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	15.137	0.089	0.50	10.00	4.276	109	75	125	15.22	0.523	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| (M) Test is modified | | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

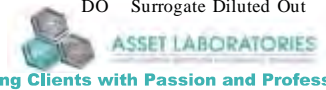
ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPM

Sample ID	N069585-001B-MSD	SampType:	MSD	TestCode:	6010_WDPG	Units:	mg/L	Prep Date:	10/31/2024	RunNo:	195306	
Client ID:	ZZZZZZ	Batch ID:	113745	TestNo:	EPA 6010B EPA 3010A	Analysis Date:	11/6/2024	SeqNo:	6294789			
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	156.915	2.8	12	10.00	143.9	130	75	125	171.9	9.12	20	S

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

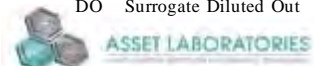
ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID	N069583-003B-PS	SampType:	PS	TestCode:	6010_WDPG	Units:	µg/L	Prep Date:		RunNo:	195107			
Client ID:	ZZZZZZ	Batch ID:	113745	TestNo:	EPA 6010B EPA 3010A			Analysis Date:	11/1/2024	SeqNo:	6281683			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron		263.690		5.8	20	100.0	145.7	118	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPM

Sample ID N069583-003B-PS	SampType: PS	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195149							
Client ID: ZZZZZZ	Batch ID: 113745	TestNo: EPA 6010B EPA 3010A	Analysis Date: 11/1/2024	SeqNo: 6284033								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	6.417	0.052	0.10	5.000	0.9060	110	80	120				
Calcium	212.489	0.068	0.50	10.00	202.6	98.9	80	120				
Magnesium	62.107	0.013	0.10	10.00	51.25	109	80	120				

Sample ID N069585-001B-PS	SampType: PS	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195306							
Client ID: ZZZZZZ	Batch ID: 113745	TestNo: EPA 6010B EPA 3010A	Analysis Date: 11/6/2024	SeqNo: 6294784								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	15.486	0.089	0.50	10.00	4.276	112	80	120				

Sample ID N069585-001B-PS	SampType: PS	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195306							
Client ID: ZZZZZZ	Batch ID: 113745	TestNo: EPA 6010B EPA 3010A	Analysis Date: 11/6/2024	SeqNo: 6294785								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	408.414	2.8	12	250.0	143.9	106	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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ASSET Laboratories

ICP-Metals in Water

Work Order No.: N069583 / N069585
Test Method: EPA 6010B
Analysis Date: 10/31/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 113745


Instrument ID: NV00922-ICP4
Instrument Description: Agilent 5800VDV

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Fe. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069583-003B DT 5x	Iron	Fe	µg/L	124.8	NA	145.67	14.33%	10

 11/14/2024

Note: NA - Not Applicable

11/14/24 11:51

N069583_6010B_113745_DT

ASSET Laboratories

ICP-Metals in Water

Work Order No.: N069585
Test Method: EPA 6010B
Analysis Date: 10/31/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 113745

Instrument ID: NV00922-ICP4
Instrument Description: Agilent 5800VDV

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to B. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069583-003B DT 5x	Magnesium	Mg	mg/L	50.2884	PASS	51.24638	1.87%	10
N069583-003B DT 5x	Boron	B	mg/L	0.8616	NA	0.90604	4.90%	10
N069583-003B DT 5x	Calcium	Ca	mg/L	204.6189	PASS	202.5954	1.00%	10

Note: NA - Not Applicable

11/14/24 16:57

N069585_6010B_113745_DT

ASSET Laboratories

ICP-Metals in Water

Work Order No.: N069585
 Test Method: EPA 6010B
 Analysis Date: 11/6/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 113745

Instrument ID: NV00922-ICP3
 Instrument Description: Perkin Elmer Avio 500Max

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to K. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069585-001B DT 5x	Potassium	K	mg/L	4.46277	NA	4.275856	4.37%	10
N069585-001B DT 125x	Sodium	Na	mg/L	138.7443	PASS	143.9477	3.61%	10

Note: NA - Not Applicable
 06/06/24 18:06



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069585
Project: PG&E Topock - Phase2B, 30211191
Lab ID: N069585-001

Client Sample ID: MW-88-107-Q424
Collection Date: 10/30/2024 9:37:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241103A	QC Batch:	113746	PrepDate:	10/31/2024	Analyst:	DJ
Arsenic	5.0	0.067	0.10	µg/L	1	11/4/2024	09:34 AM
Barium	39	0.050	1.0	µg/L	1	11/2/2024	08:19 AM
Manganese	1.5	0.046	0.50	µg/L	1	11/2/2024	08:19 AM
Zinc	ND	0.75	10	µg/L	1	11/4/2024	09:34 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID MB-113746	SampType: MBLK	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195133							
Client ID: PBW	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/2/2024	SeqNo: 6283001							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	ND	0.050	1.0									
Manganese	ND	0.046	0.50									

Sample ID LCS-113746	SampType: LCS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195133							
Client ID: LCSW	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/2/2024	SeqNo: 6283002							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	9.776	0.050	1.0	10.00	0	97.8	85	115				
Manganese	92.176	0.046	0.50	100.0	0	92.2	85	115				

Sample ID N069583-003BMS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195133							
Client ID: ZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/2/2024	SeqNo: 6283018							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	52.403	0.050	1.0	10.00	41.59	108	75	125				

Sample ID N069583-003BMSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195133							
Client ID: ZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/2/2024	SeqNo: 6283019							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	51.723	0.050	1.0	10.00	41.59	101	75	125	52.40	1.31	20	

Sample ID MB-113746	SampType: MBLK	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195177							
Client ID: PBW	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286028							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.067	0.10									
Zinc	ND	0.75	10									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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 3151 W. Post Rd., Las Vegas, NV 89118
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 ORELAP Cert 4046

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID LCS-113746	SampType: LCS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195177							
Client ID: LCSW	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286029							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	9.123	0.067	0.10	10.00	0	91.2	85	115				
Zinc	89.043	0.75	10	100.0	0	89.0	85	115				

Sample ID N069583-003BMS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195177							
Client ID: ZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286052							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Zinc	83.705	0.75	10	100.0	1.035	82.7	75	125				
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Sample ID N069583-003BMS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195177							
Client ID: ZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286053							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	555.904	0.46	5.0	100.0	446.5	109	75	125				
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Sample ID N069583-003BMSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195177							
Client ID: ZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286054							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Zinc	85.917	0.75	10	100.0	1.035	84.9	75	125	83.70	2.61	20	
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Sample ID N069583-003BMSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195177							
Client ID: ZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286055							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	545.421	0.46	5.0	100.0	446.5	98.9	75	125	555.9	1.90	20	
-----------	---------	------	-----	-------	-------	------	----	-----	-------	------	----	--

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID N069583-003BMS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195177							
Client ID: ZZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6293883							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	11.463	0.067	0.10	10.00	1.295	102	75	125				

Sample ID N069583-003BMSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 10/31/2024	RunNo: 195177							
Client ID: ZZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6293885							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	11.311	0.067	0.10	10.00	1.295	100	75	125	11.46	1.33	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID N069583-003B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133							
Client ID: ZZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/2/2024	SeqNo: 6283017							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	52.141	0.050	1.0	10.00	41.59	106	80	120				

Sample ID N069583-003B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177							
Client ID: ZZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286050							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	83.774	0.75	10	100.0	1.035	82.7	80	120				

Sample ID N069583-003B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177							
Client ID: ZZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286051							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	1340.810	0.46	5.0	1000	446.5	89.4	80	120				

Sample ID N069583-003B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177							
Client ID: ZZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6293881							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.536	0.067	0.10	10.00	1.295	92.4	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

Calculations are based on raw values

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ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N069583 / N069585
Test Method: EPA 6020
Analysis Date: 11/1/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 113746

Instrument ID: NV00922-ICP8 (ICPMS-03)
Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069583-003B DT 5x	Barium	Ba	µg/L	44.60151	PASS	41.58536	7.25%	10

Nancy 11/14/2024

Note: NA - Not Applicable

11/14/24 12:04

N069583_6020_113746_DT

ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N069585
Test Method: EPA 6020
Analysis Date: 11/3/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 113746

Instrument ID: NV00922-ICP8 (ICPMS-03)
Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Zn. The calculated concentration is <25RL.

N069583-003BMS/MSD and PS for Zn passed criteria

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069583-003B DT 5x	Zinc	Zn	µg/L	181.1554	NA	1.035078	17401.62%	10

Nancy 11/14/2024

Note: NA - Not Applicable

11/14/24 16:38

N069585_6020_113746_DT

ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N069582 / N069583 / N069585
 Test Method: EPA 6020
 Analysis Date: 11/3/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 113746

Instrument ID: NV00922-ICP8 (ICPMS-03)
 Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Se. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069583-003B DT 50x	Manganese	Mn	µg/L	456.8206	PASS	446.5084	2.31%	10
N069583-003B DT 5x	Selenium	Se	µg/L	0	NA	0		10

Nancy 11/14/2024

Note: NA - Not Applicable
 06/06/24 18:06



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ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N069582 / N069583 /N069585
Test Method: EPA 6020
Analysis Date: 11/3/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 113746


Instrument ID: NV00922-ICP8 (ICPMS-03)
Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Cr & As. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069583-003B DT 5x	Chromium	Cr	µg/L	0	NA	0		10
N069583-003B DT 5x	Arsenic	As	µg/L	1.130018	NA	1.294523	12.71%	10

 11/14/2024

Note: NA - Not Applicable

11/14/24 10:52

N069582_6020_113746_DT

SAMPLE RECEIVING ITEMS



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

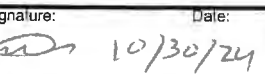

CALIFORNIA
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P: 562.219.7435 F: 562.219.7436

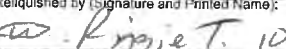
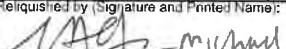
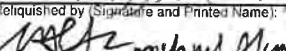
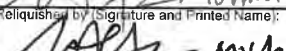
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CHAIN OF CUSTODY RECORD

 Page 1 of 1

Client: Arcadis		Report to: Laura Madsen	Bill to: Janet Newman		EDD Requirement			QA/QC		Sample Receipt Condition						
Address: 630 Plaza Dr Suite 200		Company: Arcadis	Address:		Excel EDD		RTNE			1. Chilled <input type="checkbox"/> Y N						
Address: Highland Ranch, CO 80129		Email: laura.madsen@arcadis.co	Address:		GeoTracker		RWQCB	<input checked="" type="checkbox"/>	2. Headspace <input type="checkbox"/>							
Phone: 916-786-3302	Fax:	Address:		Email to: janet.newman@arcadis.com	P.O.#	Labspec		CalTrans		3. Container Intact <input type="checkbox"/>						
Submitted By: Riggle T.		Address:		Phone:		Others	<input checked="" type="checkbox"/>	LEVEL III		4. Seal Present <input type="checkbox"/>						
Title: Field Tech		Phone: 730.344.3771	Fax:		Global ID:		Regulatory		LEVEL IV	5. IR number <input type="checkbox"/>						
Signature: 		Date: 10/30/24	Sampled By: Riggle T.		Matrix		Specify State:		6. Method of Cooling: ice							
Project Name: PG&E Topock - Phase2B		Signature: 		Date: 10/30/24	Ground	X	Sediment	250 mL poly							Sample Temp: off 17.5°C	
Project Number: 30211191		I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for indicated below.		Potable			Soil	500mL poly							Courier: ASSET	
		Surface		NPDES			Other Solid	500mL poly							Tracking No.:	
		Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH						1 liter poly								
		Dissolved metals Title 22 (SW 6020), Field Filter; HNO3						1 liter poly								
		Dissolved metals (SW6020) FF; HNO3 Total Dissolved Chromium.						1 liter poly								
		Dissolved Metals (SW 6010B); HNO3 Arsenic, Barium, Boron, Calcium, Potassium, Sodium, Iron, Manganese, Magnesium, Zinc						1 liter poly								
		Bromide, Sulfate, Nitrate, Fluoride, Chloride (EPA 300.0)						1 liter poly								
		Total Dissolved Solids (SM92540)						1 liter poly								
		Alkalinity, Total as CaCO3 (SM2320B)						1 liter poly								
		Hardness						1 liter poly								
Item No.	Laboratory Work Order No.	Sample ID/Location		Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH							Turn Around Time		Remarks
1	N069585-001	MW-88-107-Q424		10/30/2024	9:37		X									
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																

Relinquished by (Signature and Printed Name):  Riggle T.	Date/Time: 10/30/24 1555	Relinquished by (Signature and Printed Name):  Michael McAnten	Date/Time: 10/30/24 1558
Relinquished by (Signature and Printed Name):  Michael McAnten	Date/Time: 10/30/24 1810	Relinquished by (Signature and Printed Name):  Michael McAnten	Date/Time: 10/30/24 1810

Turn Around Time (TAT)	Special Instruction:
<input type="checkbox"/> A < 24 Hrs or Same Day TAT <input type="checkbox"/> B = Next Workday <input type="checkbox"/> C = 2 Workdays <input type="checkbox"/> D = 3 Workdays <input checked="" type="checkbox"/> E = Routine 5-7 Workdays	
TAT Starts at 8 AM the following day if samples received after 3:00PM.	

Terms

- All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
- Regular TAT is 5-7 business days, surcharges will apply for rush analysis
- Less than 24 Hrs = 200%, Next Day=100%, 2 Workdays=50%, 3 Workdays=35%, 4 Workdays=20%
- Custom EDD reports will be an additional 3% of the total project price.
- Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharges applied on total project

- Trip Blanks and Equipment Blanks are billable sample.
- Asset Laboratories is not responsible for samples collected using incorrect methodology.
- Terms are net 30 days.
- All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.
- For subcontract analysis, TAT and Surcharges will vary.

Preservatives:			Container Type:		
H=HCL	N=HNO ₃	S=H ₂ SO ₄	C=4°C	T=Tube	V=VOA
Z=Zn(AC) ₂	O=NaOH	T=Na ₂ S ₂ O ₃		J=Jar	B=Tedlar
Others/Specify:	B	(NH4)2SO4/NH4OH		M=Metal	C=Can

White=Laboratory Copy Yellow=Customer's Copy

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On: 10/30/2024 Workorder: N069585
 Rep sample Temp (Deg C): 2.5 IR Gun ID: 4
 Temp Blank: Yes No
 Carrier name: ASSET
 Last 4 digits of Tracking No.: NA Packing Material Used: None
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

- | | | | |
|---|--|--|--|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 14. Water - pH acceptable upon receipt?
Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 15. Did the bottle labels indicate correct preservatives used? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 16. Were there Non-Conformance issues at login?
Was Client notified? | Yes <input type="checkbox"/>
Yes <input type="checkbox"/> | No <input type="checkbox"/>
No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>
NA <input checked="" type="checkbox"/> |

Comments:

For: _____
 Checklist Completed By: EF YRodriguez
 10/31/2024

Reviewed By: for: [Signature]
 MBC 1/07/2024

ASSET Laboratories

WORK ORDER Summary

31-Oct-24

WorkOrder: N069585

Client ID: ARCUS02

Project: PG&E Topock - Phase2B, 30211191

QC Level: Level IV

Date Received: 10/30/2024 6:10 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N069585-001A	MW-88-107-Q424	10/30/2024 9:37:00 AM	11/14/2024	Groundwater	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069585-001B			11/14/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/14/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069585-001C			11/14/2024		SM2540C	TOTAL FILTERABLE RESIDUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LSR
			11/14/2024			Total Dissolved Solids Prep	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LSR
			11/14/2024		SM 2320 B	ALKALINITY, SPECIATED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LSR
			11/14/2024		SM 2340 B	Hardness by Calculation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LSR
			11/14/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LSR
			11/14/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LSR
			11/14/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LSR
			11/14/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LSR
			11/14/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LSR
			11/14/2024		SM 1030F1	Cation-Anion Balance Calculation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LSR
N069585-002A	FOLDER	11/14/2024	11/14/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			11/14/2024		Folder	Level IV Report	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			11/14/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

List of Analysts

ASSET Laboratories Work Order: N069585

NAME	TEST METHOD
Lilia Ramit	SM 2540C, SM 2320 B
Ria Abes	EPA 218.6, EPA 300.0
Diane Jetajobe	SM 2340 B, EPA 6010B_Dissolved, EPA 6020_Dissolved



SM 2540C



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ATL Data Package Checklist WET CHEMISTRY

ATL Work Order: N069585

Analyst Name: LSR

Date Analyzed: 10/31/2024

QC Batch Number: 113754

Instrument ID: Oven-01

Wet Chemistry		ATL Data Package (circle one)		Yes	No	N/A
		Level 3	Level 4			
A	ITEMS					
1	Initial Calibration Summary	X	X			X
2	Initial and Continuing Calibration Verification Summary	X	X			X
3	Summary of instrument blanks	X	X			X
4	Sample Preparation Log (if any)	X	X	X		
5	Logbook data, quantitation report and/or spectra	X	X	X		
6	Corrective Action Documentation (if applicable)	X	X			X
7	Standards Log		X	X		

Comments:

LSR

11/8/2024

1st Level Reviewer: _____

Date: _____

2nd Level Reviewer: *d/Rocha* 11/13/2024

Date: _____



Wet Chemistry Technical Batch Review Checklist (ARCUS02)

ASSET LABORATORIES - LAS VEGAS

FIRST LEVEL REVIEW:

QC Batch Number: 113754

Analyst: LSR

ASSET #: N069585

Date Analyzed: 31-Oct

Method: EPA 160.1 / SM 2540C

	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
Initial Calibration						
1. ICAL before initial sample analysis or every 24 hrs.			X			X
2. Does correlation coefficient, r, meet criteria ?(r = 0.995)			X			X
3. ICV within ± 15% of expected value.			X			X
Continuing Calibration						
4. CCV after every 10 samples and at the end of analysis sequence.			X			X
5. CCV within ± 15% of expected value.			X			X
6. Calibration blanks run after ICV and CCV?			X			X
7. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)			X			X
Sample Information						
8. All samples are within linear range.			X			X
9. Are all samples analyzed within hold time.	X			X		
QC Items						
10. Method blank values are below 1/2 the reporting limit.	X			X		
11. LCS compounds within control limits.	X			X		
12. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
13. Are Non-Conformances documented			X			X
14. Runlog complete and included in package.	X			X		
15. Spectrophotometer tape included (Spec work only)			X			X
16. Digestion log complete and included in package (if applicable)			X			X
Preliminary Report						
17. Does the raw data match the preliminary report?	X			X		
18. Are analytical results correct?	X			X		
19. Is the QC summary report present and complete?	X			X		

Comments:

SECOND LEVEL REVIEW:

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer LSR

Date: 11/8/2024

2nd Level Reviewer d/Rocha 11/13/2024

Date: _____

SAMPLE CALCULATION



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SAMPLE CALCULATION

METHOD: SM 2540C

TEST NAME: Total Filterable Residue

MATRIX: Water

FORMULA:

Calculate TDS concentration in mg/L, in the original sample as follows:

$$\text{TDS, mg/L} = \frac{(A-B)*1000000}{C}$$

Where:

A = weight in g of dish + residue after drying

B = weight of dish in g

C = volume of sample used in mL

For N069585-001C, TDS concentration in mg/L is calculated as follows:

$$\text{TDS, mg/L} = \frac{(63.9659 - 63.9128)*1000000}{100}$$

$$= 531 \text{ mg/L}$$

Reporting result in two significant figures,

$$\text{TDS} = 530 \text{ mg/L}$$

11/8/2024 LSR

Reviewed by:

d/Rocha 11/13/2024

SAMPLE PREPARATION LOG



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PREP BATCH REPORT

Prep Start Date: 10/31/2024 10:13:42 AM
 Prep End Date:

Reviewed/ Date: d/Rocha 11/13/2024

Page 1 of 1

Initials/ Date: LSR 11/8/2024

Prep Factor Units:
 mL / mL

Prep Batch 113754 Prep Code: 160.1_W_PREP

Technician: Lilia Ramit

Sample ID	Matrix	^{Cond} pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-113754	Water	1052410177	100	<input type="checkbox"/>	100	1.000		
MB-113754	Water		100	<input type="checkbox"/>	100	1.000		
N069567-001C	Groundwater	1351	100	<input type="checkbox"/>	100	1.000		
N069568-001C	Groundwater	1175	100	<input type="checkbox"/>	100	1.000		
N069569-001C	Groundwater	1168	100	<input type="checkbox"/>	100	1.000		
N069570-001C	Groundwater	1823	100	<input type="checkbox"/>	100	1.000		
N069570-001C-DUP	Groundwater	1	100	<input type="checkbox"/>	100	1.000		
N069571-001C	Groundwater	1015	100	<input type="checkbox"/>	100	1.000		
N069572-001C	Groundwater	1126	100	<input type="checkbox"/>	100	1.000		
N069573-001C	Groundwater	1098	100	<input type="checkbox"/>	100	1.000		
N069585-001C	Groundwater	817	100	<input type="checkbox"/>	100	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

16697

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 10/31/2024 10:13:42 AM

Prep End Date: 11/1/2024 1:15:00 PM

Prep Batch 113754 Prep Code:160.1_W_PREP

Reviewed/ Date: d/Rocha 11/13/2024

Initials/ Date: 11/8/2024 LSR

Technician: Lilia Ramit

Page 1 of 1

Prep Factor Units:
mL / mL

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-113754	Water		100	<input type="checkbox"/>	100	1.000		
MB-113754	Water		100	<input type="checkbox"/>	100	1.000		
N069567-001C	Groundwater		100	<input type="checkbox"/>	100	1.000		
N069568-001C	Groundwater		100	<input type="checkbox"/>	100	1.000		
N069569-001C	Groundwater		100	<input type="checkbox"/>	100	1.000		
N069570-001C	Groundwater		75	<input type="checkbox"/>	100	1.333		
N069570-001C-DUP	Groundwater		75	<input type="checkbox"/>	100	1.333		
N069571-001C	Groundwater		100	<input type="checkbox"/>	100	1.000		
N069572-001C	Groundwater		100	<input type="checkbox"/>	100	1.000		
N069573-001C	Groundwater		100	<input type="checkbox"/>	100	1.000		
N069585-001C	Groundwater		100	<input type="checkbox"/>	100	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name	Spk ID	Spike Name	SampType	AmtAdd
16697	Glass Fiber Filter, 47mm	IWST241017A	1000 ppm NaCl	LCS	100

LOGBOOK DATA, QUANTITATION REPORT and/or SPECTRA



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TSS / TS / TDS Preparation and Runlog

QC Batch No.: 113754

Name of Test: TDS

Date Prepared: 10/31/24
 Time Prepared: 1013
 Prepared By: KR

In Oven	11/1/24	11/1/24	3
Date:	11/1/24	11/1/24	
Time:	945	1130	
Temp°C:	178	178	
Out Oven	11/1/24	11/1/24	
Date:	11/1/24	11/1/24	
Time:	1045	1230	
Temp°C:	178	178	

Date	Sample ID	Sample Vol. (ml)	Crucible + Filter	Crucible + Filter+Sample	Comments
10/31/24	MB - 113754	100	52.2510	52.2538 52.2841	
	N LS 113754	100	63.4817	63.5795 63.5797	
	D NO69567-1c	100	65.4548	65.5392 65.5395	
	I NO69568-1c	100	66.1261	66.2004 66.2007	
	C NO69569-1c	100	64.9687	65.0391 65.0395	
	31 NO69570-1c	100	50.8609	50.9489 50.9492	
	P I 1cwp	75	53.0048	53.0946 53.0948	
	17 NO69571-1c	100	66.2221	66.2861 66.2864	
	A NO69572-1c	100	65.2501	65.3236 65.3239	
	F NO69573-1c	100	65.0666	65.1369 65.1371	Reviewed by:
	C1 NO69585-1c	100	63.9128	63.9657 63.9659	M Rocha 11/13/2024
					11/8/2024 LSR
					49.9990 @ 315 11/1/24

TOTAL DISSOLVED SOLIDS, TDS

TDS, mg/L =

$$(A-B) \times 10000 \times PF$$

where:

- A = weight in grams of dish + residue after drying
- B = weight of dish in grams
- PF = 100/volume of sample used in mL

	vol of sample (mL)	weight of dish in grams (B)	weight in grams of dish + residue after drying (A)	(A-B)*10000	prep fact (PF)	TDS, mg/L	CONDUCTIVITY	RATIO	Sample Type
Date Finished:									
11/1/2024									
MB-113754	100	52.254	52.2541	1	1	1			MBLK
LCS-113754	100	63.4817	63.5797	980	1	980			LCS
N069567-001C	100	65.4548	65.5395	847	1	847	1351	0.627	SAMP
N069568-001C	100	66.1261	66.2007	746	1	746	1175	0.635	SAMP
N069569-001C	100	64.9687	65.0395	708	1	708	1108	0.639	SAMP
N069570-001C	75	50.8609	50.9492	883	1.33333333	1177.33333	1823	0.646	SAMP
N069570-001CDUP	75	53.0048	53.0948	900	1.33333333	1200	1823	0.658	DUP
N069571-001C	100	66.2221	66.2864	643	1	643	1015	0.633	SAMP
N069572-001C	100	65.2501	65.3239	738	1	738	1126	0.655	SAMP
N069573-001C	100	65.0666	65.1371	705	1	705	1098	0.642	SAMP
N069585-001C	100	63.9128	63.9659	531	1	531	817	0.650	SAMP

11/8/2024

Reviewed by:

d/Rocha 11/13/2024

EPA 218.6



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IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
 REV 2.0
 011416

QC Batch Number: R195071
 ASSET #: N068585

Instrument ID: NV00922-IC7
 Analyst: RBA
 Date Analyzed: 10/31/2024

Method:

- | | | |
|------------------------------------|-------------------------------------|------------------------|
| <input type="checkbox"/> EPA 300.0 | <input checked="" type="checkbox"/> | EPA 218.6/EPA 218.7 |
| <input type="checkbox"/> EPA 7199 | <input type="checkbox"/> | EPA 218.6/EPA 218.7 LL |
| | <input type="checkbox"/> | Others _____ |

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria? (r = 0.995, r = 0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)	X			X		
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?	X			X		
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?	X			X		
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)	X			X		
14. For Hinkley DOM samples, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?	X			X		
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)	X			X		
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

RBA

1st Level Reviewer

dMocha 11/13/2024

Date: _____

2nd Level Reviewer

Date: _____

SAMPLE CALCULATION



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Sample Calculation

METHOD: EPA 218.6
TEST NAME: HEXAVALENT CHROMIUM BY IC
MATRIX: Groundwater

FORMULA:

Calculate the Hexavalent Chromium concentration, in $\mu\text{g/L}$, in the original sample as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = A * \text{DF}$$

where:

A = $\mu\text{g/L}$, IC Cr+6 calculated concentration
DF = dilution factor

For Sample **N069585-001A** , the concentration in $\mu\text{g/L}$ is calculated as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = 5.1353 * 5$$

$$\text{Cr}^{+6}, \mu\text{g/L} = 25.6765$$

Reporting results in two significant figures,

$$\text{Cr}^{+6}, \mu\text{g/L} = 26$$

Reviewed by:

d/Rocha 12/1/2024

ANALYSIS RUN LOG



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INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	ICV	ICV	1	Hexavalent Chromium	10/28/24 10:49 AM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/28/24 10:59 AM	Reported
11	ICB	ICB	1	Hexavalent Chromium	10/28/24 11:08 AM	Reported
12	MB-R194895	MBLK	1	Hexavalent Chromium	10/28/24 11:17 AM	Reported
13	LCS-R194895	LCS	1	Hexavalent Chromium	10/28/24 11:27 AM	Reported
14	N069445-001A	SAMP	1	Hexavalent Chromium	10/28/24 11:36 AM	Reported
15	N069445-001AMS	MS	1	Hexavalent Chromium	10/28/24 11:46 AM	Reported
16	N069445-001AMSD	MSD	1	Hexavalent Chromium	10/28/24 11:55 AM	Reported
17	N069445-001ADUP	DUP	1	Hexavalent Chromium	10/28/24 12:05 PM	Reported
18	N069453-001A	SAMP	1	Hexavalent Chromium	10/28/24 12:14 PM	Reported
19	N069453-002A	SAMP	1	Hexavalent Chromium	10/28/24 12:24 PM	Reported
20	N069453-003A	SAMP	1	Hexavalent Chromium	10/28/24 12:33 PM	Reported
21	N069453-004A	SAMP	1	Hexavalent Chromium	10/28/24 12:43 PM	Reported
22	CCV-1	CCV1	1	Hexavalent Chromium	10/28/24 12:52 PM	Reported
23	CCB-1	CCB	1	Hexavalent Chromium	10/28/24 1:02 PM	Reported
24	N069444-001A	SAMP	1	Hexavalent Chromium	10/28/24 1:11 PM	Reported
25	N069444-001AMS	MS	1	Hexavalent Chromium	10/28/24 1:20 PM	Reported
26	N069444-002A	SAMP	1	Hexavalent Chromium	10/28/24 1:30 PM	Reported
27	N069444-002AMS	MS	1	Hexavalent Chromium	10/28/24 1:39 PM	Reported
28	N069444-003A	SAMP	1	Hexavalent Chromium	10/28/24 1:49 PM	Not Reported
29	N069444-003AMS	MS	1	Hexavalent Chromium	10/28/24 1:58 PM	Not Reported
30	N069444-001A	SAMP	5	Hexavalent Chromium	10/28/24 2:08 PM	Not Reported
31	N069444-001AMS	MS	5	Hexavalent Chromium	10/28/24 2:17 PM	Not Reported
32	N069444-002A	SAMP	5	Hexavalent Chromium	10/28/24 2:27 PM	Not Reported
33	N069444-002AMS	MS	5	Hexavalent Chromium	10/28/24 2:36 PM	Not Reported
34	CCV-2	CCV	1	Hexavalent Chromium	10/28/24 2:46 PM	Reported
35	CCB-2	CCB	1	Hexavalent Chromium	10/28/24 2:55 PM	Reported
36	N069444-003A	SAMP	5	Hexavalent Chromium	10/28/24 3:04 PM	Reported
37	N069444-003AMS	MS	5	Hexavalent Chromium	10/28/24 3:14 PM	Reported
38	N069233-009A	SAMP	5	Hexavalent Chromium	10/28/24 3:23 PM	Not Reported
39	N069233-009AMS	MS	5	Hexavalent Chromium	10/28/24 3:33 PM	Not Reported
40	N069233-015A	SAMP	5	Hexavalent Chromium	10/28/24 3:42 PM	Not Reported
41	N069233-015AMS	MS	5	Hexavalent Chromium	10/28/24 3:52 PM	Not Reported
42	CCV-3	CCV1	1	Hexavalent Chromium	10/28/24 4:01 PM	Reported

INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	CCB-3	CCB	1	Hexavalent Chromium	10/28/24 4:11 PM	Reported
44	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 4:20 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241028A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	28/Oct/24 16:50:54
No. of Injections:	47	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	ICV,ICV,1,	9	1000	Unknown		10/28/2024 10:49	Finished	ICV @5ppb, IWST-240729B
10	PQL @0.2ppb,CCV2,	10	1000	Unknown		10/28/2024 10:59	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		10/28/2024 11:08	Finished	ICB R240926A
12	MB-H2O,MBLK,1,	12	1000	Unknown		10/28/2024 11:17	Finished	MB R240926A
13	LCS-H2O,LCS,1,	13	1000	Unknown		10/28/2024 11:27	Finished	LCS @5ppb, IWST-240729B
14	N069445-001A,SAMP	14	1000	Unknown		10/28/2024 11:36	Finished	SAMP,10 mL
15	N069445-001AMS,MS	15	1000	Unknown		10/28/2024 11:46	Finished	MS (1ppb), IWST-240729B,10r
16	N069445-001AMSD,N	16	1000	Unknown		10/28/2024 11:55	Finished	MSD (1ppb), IWST-240729B,1
17	N069445-001ADUP,D	17	1000	Unknown		10/28/2024 12:05	Finished	DUP,10 mL
18	N069453-001A,SAMP	18	1000	Unknown		10/28/2024 12:14	Finished	SAMP,10 mL
19	N069453-002A,SAMP	19	1000	Unknown		10/28/2024 12:24	Finished	SAMP,10 mL
20	N069453-003A,SAMP	20	1000	Unknown		10/28/2024 12:33	Finished	SAMP,10 mL
21	N069453-004A,SAMP	21	1000	Unknown		10/28/2024 12:43	Finished	SAMP,10 mL
22	CCV-1,CCV1,1,	22	1000	Unknown		10/28/2024 12:52	Finished	CCV @10ppb, IWST-240729A
23	CCB-1,CCB,1,	23	1000	Unknown		10/28/2024 13:02	Finished	CCB R240926A
24	N069444-001A,SAMP	24	1000	Unknown		10/28/2024 13:11	Finished	SAMP,10 mL
25	N069444-001AMS,MS	25	1000	Unknown		10/28/2024 13:20	Finished	MS (1ppb), IWST-240729B,10r
26	N069444-002A,SAMP	26	1000	Unknown		10/28/2024 13:30	Finished	SAMP,10 mL
27	N069444-002AMS,MS	27	1000	Unknown		10/28/2024 13:39	Finished	MS (1ppb), IWST-240729B,10r
28	N069444-003A,SAMP	28	1000	Unknown		10/28/2024 13:49	Finished	SAMP,10 mL
29	N069444-003AMS,MS	29	1000	Unknown		10/28/2024 13:58	Finished	MS (1ppb), IWST-240729B,10r
30	N069444-001A,SAMP	30	1000	Unknown		10/28/2024 14:08	Finished	SAMP,2>10 mL
31	N069444-001AMS,MS	31	1000	Unknown		10/28/2024 14:17	Finished	MS (1ppb), IWST-240729B,2>
32	N069444-002A,SAMP	32	1000	Unknown		10/28/2024 14:27	Finished	SAMP,2>10 mL
33	N069444-002AMS,MS	33	1000	Unknown		10/28/2024 14:36	Finished	MS (1ppb), IWST-240729B,2>
34	CCV-2,CCV,1,	34	1000	Unknown		10/28/2024 14:46	Finished	CCV @5ppb, IWST-240729A
35	CCB-2,CCB,1,	35	1000	Unknown		10/28/2024 14:55	Finished	CCB R240926A
36	N069444-003A,SAMP	36	1000	Unknown		10/28/2024 15:04	Finished	SAMP,2>10 mL
37	N069444-003AMS,MS	37	1000	Unknown		10/28/2024 15:14	Finished	MS (1ppb), IWST-240729B,2>
38	N069233-009A,SAMP	38	1000	Unknown		10/28/2024 15:23	Finished	SAMP,2>10 mL
39	N069233-009AMS,MS	39	1000	Unknown		10/28/2024 15:33	Finished	MS (1ppb), IWST-240729B,2>
40	N069233-015A,SAMP	40	1000	Unknown		10/28/2024 15:42	Finished	SAMP,2>10 mL
41	N069233-015AMS,MS	41	1000	Unknown		10/28/2024 15:52	Finished	MS (1ppb), IWST-240729B,2>
42	CCV-3,CCV1,1,	42	1000	Unknown		10/28/2024 16:01	Finished	CCV @10ppb, IWST-240729A
43	CCB-3,CCB,1,	43	1000	Unknown		10/28/2024 16:11	Finished	CCB R240926A
44	BLANK	44	1000	Unknown		10/28/2024 16:20	Finished	BLANK
45	SHUTDOWN	45	1000	Unknown		10/28/2024 16:30	Finished	
46	Eluent: R241025A	46	1000	Unknown		n.a.	Finished	
47	PCR: R241025B	47	1000	Unknown		n.a.	Finished	

INJECTION LOG: 241031A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	10/31/24 9:46 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	10/31/24 9:59 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/31/24 10:08 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	10/31/24 10:18 AM	Reported
13	MB-R195071	MBLK	1	Hexavalent Chromium	10/31/24 10:27 AM	Reported
14	LCS-R195071	LCS	1	Hexavalent Chromium	10/31/24 10:37 AM	Reported
15	N069543-018A	SAMP	1	Hexavalent Chromium	10/31/24 10:46 AM	Reported
16	N069543-018AMS	MS	1	Hexavalent Chromium	10/31/24 10:56 AM	Reported
17	N069543-019A	SAMP	1	Hexavalent Chromium	10/31/24 11:05 AM	Not Reported
18	N069543-019AMS	MS	1	Hexavalent Chromium	10/31/24 11:15 AM	Not Reported
19	N069543-020A	SAMP	1	Hexavalent Chromium	10/31/24 11:24 AM	Not Reported
20	N069543-020AMS	MS	1	Hexavalent Chromium	10/31/24 11:33 AM	Not Reported
21	N069543-021A	SAMP	1	Hexavalent Chromium	10/31/24 11:43 AM	Reported
22	N069543-021AMS	MS	1	Hexavalent Chromium	10/31/24 11:52 AM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	10/31/24 12:02 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	10/31/24 12:11 PM	Reported
25	N069583-003A	SAMP	1	Hexavalent Chromium	10/31/24 12:22 PM	Not Reported
26	N069583-003AMS	MS	1	Hexavalent Chromium	10/31/24 12:33 PM	Not Reported
27	N069583-003A	SAMP	5	Hexavalent Chromium	10/31/24 12:43 PM	Reported
28	N069583-003AMS	MS	5	Hexavalent Chromium	10/31/24 12:52 PM	Reported
29	N069583-003AMSD	MSD	5	Hexavalent Chromium	10/31/24 1:02 PM	Reported
30	N069582-002A	SAMP	50	Hexavalent Chromium	10/31/24 1:52 PM	Not Reported
31	N069582-003A	SAMP	5	Hexavalent Chromium	10/31/24 2:05 PM	Reported
32	N069582-004A	SAMP	50	Hexavalent Chromium	10/31/24 2:14 PM	Not Reported
33	N069583-002A	SAMP	1	Hexavalent Chromium	10/31/24 2:24 PM	Not Reported
34	N069583-002AMS	MS	1	Hexavalent Chromium	10/31/24 2:33 PM	Not Reported
35	CCV-3	CCV	1	Hexavalent Chromium	10/31/24 2:43 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	10/31/24 2:52 PM	Reported
37	N069583-006A	SAMP	1	Hexavalent Chromium	10/31/24 3:02 PM	Reported
38	N069583-006AMS	MS	1	Hexavalent Chromium	10/31/24 3:11 PM	Reported
39	N069585-001A	SAMP	5	Hexavalent Chromium	10/31/24 3:21 PM	Reported
40	N069585-001AMS	MS	5	Hexavalent Chromium	10/31/24 3:30 PM	Reported
41	N069585-001ADUP	DUP	5	Hexavalent Chromium	10/31/24 3:39 PM	Reported
42	N069582-002A	SAMP	5	Hexavalent Chromium	10/31/24 4:04 PM	Reported

INJECTION LOG: 241031A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069582-002AMS	MS	5	Hexavalent Chromium	10/31/24 4:16 PM	Reported
44	N069582-003AMS	MS	5	Hexavalent Chromium	10/31/24 4:26 PM	Reported
45	N069582-004AMS	MS	50	Hexavalent Chromium	10/31/24 4:35 PM	Not Reported
46	N069543-019A	SAMP	5	Hexavalent Chromium	10/31/24 4:44 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	10/31/24 4:54 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	10/31/24 5:03 PM	Reported
49	N069543-019AMS	MS	5	Hexavalent Chromium	10/31/24 5:13 PM	Reported
50	N069543-020A	SAMP	5	Hexavalent Chromium	10/31/24 5:22 PM	Reported
51	N069543-020AMS	MS	5	Hexavalent Chromium	10/31/24 5:32 PM	Reported
52	N069582-001A	SAMP	1	Hexavalent Chromium	10/31/24 5:41 PM	Reported
53	N069582-001AMS	MS	1	Hexavalent Chromium	10/31/24 5:51 PM	Reported
54	N069583-001A	SAMP	5	Hexavalent Chromium	10/31/24 6:00 PM	Reported
55	N069583-001AMS	MS	5	Hexavalent Chromium	10/31/24 6:10 PM	Reported
56	N069583-002A	SAMP	5	Hexavalent Chromium	10/31/24 6:19 PM	Reported
57	N069583-002AMS	MS	5	Hexavalent Chromium	10/31/24 6:28 PM	Reported
58	N069583-004A	SAMP	1	Hexavalent Chromium	10/31/24 6:38 PM	Not Reported
59	CCV-5	CCV	1	Hexavalent Chromium	10/31/24 6:47 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	10/31/24 6:57 PM	Reported
61	N069583-004AMS	MS	1	Hexavalent Chromium	10/31/24 7:06 PM	Not Reported
62	N069583-004A	SAMP	5	Hexavalent Chromium	10/31/24 7:16 PM	Reported
63	N069583-004AMS	MS	5	Hexavalent Chromium	10/31/24 7:25 PM	Reported
64	N069583-005A	SAMP	1	Hexavalent Chromium	10/31/24 7:35 PM	Reported
65	N069583-005AMS	MS	1	Hexavalent Chromium	10/31/24 7:44 PM	Reported
66	N069583-007A	SAMP	1	Hexavalent Chromium	10/31/24 7:54 PM	Reported
67	N069583-007AMS	MS	1	Hexavalent Chromium	10/31/24 8:03 PM	Reported
68	N069583-008A	SAMP	1	Hexavalent Chromium	10/31/24 8:12 PM	Not Reported
69	N069583-008AMS	MS	1	Hexavalent Chromium	10/31/24 8:22 PM	Not Reported
70	N069583-008A	SAMP	5	Hexavalent Chromium	10/31/24 8:31 PM	Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	10/31/24 8:41 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	10/31/24 8:50 PM	Reported
73	N069583-008AMS	MS	5	Hexavalent Chromium	10/31/24 9:00 PM	Reported
74	N069583-009A	SAMP	1	Hexavalent Chromium	10/31/24 9:09 PM	Not Reported
75	N069583-009AMS	MS	1	Hexavalent Chromium	10/31/24 9:19 PM	Not Reported
76	N069583-009A	SAMP	5	Hexavalent Chromium	10/31/24 9:28 PM	Reported
77	N069583-009AMS	MS	5	Hexavalent Chromium	10/31/24 9:38 PM	Reported
78	N069583-010A	SAMP	1	Hexavalent Chromium	10/31/24 9:47 PM	Not Reported
79	N069583-010AMS	MS	1	Hexavalent Chromium	10/31/24 9:56 PM	Not Reported
80	N069583-010A	SAMP	5	Hexavalent Chromium	10/31/24 10:06 PM	Reported
81	N069583-010AMS	MS	5	Hexavalent Chromium	10/31/24 10:15 PM	Reported
82	N069583-011A	SAMP	1	Hexavalent Chromium	10/31/24 10:25 PM	Reported
83	CCV-7	CCV	1	Hexavalent Chromium	10/31/24 10:34 PM	Reported
84	CCB-7	CCB	1	Hexavalent Chromium	10/31/24 10:44 PM	Reported

INJECTION LOG: 241031A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N069583-011AMS	MS	1	Hexavalent Chromium	10/31/24 10:53 PM	Reported
86	CCV-8	CCV1	1	Hexavalent Chromium	10/31/24 11:03 PM	Reported
87	CCB-8	CCB	1	Hexavalent Chromium	10/31/24 11:12 PM	Reported
88	BLANK	BLANK	1	Hexavalent Chromium	10/31/24 11:22 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241031A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	31/Oct/24 23:52:19
No. of Injections:	91	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	BLANK	1	1000	Unknown		10/31/2024 09:46	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		10/31/2024 09:59	Finished	CCV @5ppb, IWST-240729A
11	PQL @0.2ppb,CCV2,	3	1000	Unknown		10/31/2024 10:08	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		10/31/2024 10:18	Finished	CCB R241001A
13	MB-H2O,MBLK,1,	5	1000	Unknown		10/31/2024 10:27	Finished	MB R241001A
14	LCS-H2O,LCS,1,	6	1000	Unknown		10/31/2024 10:37	Finished	LCS @5ppb, IWST-240729B
15	N069543-018A,SAMP	7	1000	Unknown		10/31/2024 10:46	Finished	SAMP,10 mL
16	N069543-018AMS,M\$	8	1000	Unknown		10/31/2024 10:56	Finished	MS (1ppb), IWST-240729B,10r
17	N069543-019A,SAMP	9	1000	Unknown		10/31/2024 11:05	Finished	SAMP,10 mL
18	N069543-019AMS,M\$	10	1000	Unknown		10/31/2024 11:15	Finished	MS (1ppb), IWST-240729B,10r
19	N069543-020A,SAMP	11	1000	Unknown		10/31/2024 11:24	Finished	SAMP,10 mL
20	N069543-020AMS,M\$	12	1000	Unknown		10/31/2024 11:33	Finished	MS (1ppb), IWST-240729B,10r
21	N069543-021A,SAMP	13	1000	Unknown		10/31/2024 11:43	Finished	SAMP,10 mL
22	N069543-021AMS,M\$	14	1000	Unknown		10/31/2024 11:52	Finished	MS (1ppb), IWST-240729B,10r
23	CCV-2,CCV1,1,	15	1000	Unknown		10/31/2024 12:02	Finished	CCV @10ppb, IWST-240729A
24	CCB-2,CCB,1,	16	1000	Unknown		10/31/2024 12:11	Finished	CCB R241001A
25	N069583-003A,SAMP	1	1000	Unknown		10/31/2024 12:22	Finished	SAMP,10 mL
26	N069583-003AMS,M\$	2	1000	Unknown		10/31/2024 12:33	Finished	MS (1ppb), IWST-240729B,10r
27	N069583-003A,SAMP	3	1000	Unknown		10/31/2024 12:43	Finished	SAMP,2>10 mL
28	N069583-003AMS,M\$	4	1000	Unknown		10/31/2024 12:52	Finished	MS (1ppb), IWST-240729B,2>
29	N069583-003AMSD,M	5	1000	Unknown		10/31/2024 13:02	Finished	MSD (1ppb), IWST-240729B,2>
30	N069582-002A,SAMP	1	1000	Unknown		10/31/2024 13:52	Finished	SAMP,0.2>10 mL
31	N069582-003A,SAMP	2	1000	Unknown		10/31/2024 14:05	Finished	SAMP,2>10 mL
32	N069582-004A,SAMP	3	1000	Unknown		10/31/2024 14:14	Finished	SAMP,0.2>10 mL
33	N069583-002A,SAMP	4	1000	Unknown		10/31/2024 14:24	Finished	SAMP,10 mL
34	N069583-002AMS,M\$	5	1000	Unknown		10/31/2024 14:33	Finished	MS (1ppb), IWST-240729B,10r
35	CCV-3,CCV,1,	6	1000	Unknown		10/31/2024 14:43	Finished	CCV @5ppb, IWST-240729A
36	CCB-3,CCB,1,	7	1000	Unknown		10/31/2024 14:52	Finished	CCB R241001A
37	N069583-006A,SAMP	8	1000	Unknown		10/31/2024 15:02	Finished	SAMP,10 mL
38	N069583-006AMS,M\$	9	1000	Unknown		10/31/2024 15:11	Finished	MS (1ppb), IWST-240729B,10r
39	N069585-001A,SAMP	10	1000	Unknown		10/31/2024 15:21	Finished	SAMP,2>10 mL
40	N069585-001AMS,M\$	11	1000	Unknown		10/31/2024 15:30	Finished	MS (5ppb), IWST-240729B,2>
41	N069585-001ADUP,D	12	1000	Unknown		10/31/2024 15:39	Finished	DUP,2>10 mL
42	N069582-002A,SAMP	1	1000	Unknown		10/31/2024 16:04	Finished	SAMP,2>10 mL
43	N069582-002AMS,M\$	2	1000	Unknown		10/31/2024 16:16	Finished	MS (5ppb), IWST-240729B,2>
44	N069582-003AMS,M\$	3	1000	Unknown		10/31/2024 16:26	Finished	MS (5ppb), IWST-240729B,2>
45	N069582-004AMS,M\$	4	1000	Unknown		10/31/2024 16:35	Finished	MS (5ppb), IWST-240729B,0.2
46	N069543-019A,SAMP	5	1000	Unknown		10/31/2024 16:44	Finished	SAMP,2>10 mL
47	CCV-4,CCV1,1,	6	1000	Unknown		10/31/2024 16:54	Finished	CCV @10ppb, IWST-240729A
48	CCB-4,CCB,1,	7	1000	Unknown		10/31/2024 17:03	Finished	CCB R241001A
49	N069543-019AMS,M\$	8	1000	Unknown		10/31/2024 17:13	Finished	MS (1ppb), IWST-240729B,2>
50	N069543-020A,SAMP	9	1000	Unknown		10/31/2024 17:22	Finished	SAMP,2>10 mL
51	N069543-020AMS,M\$	10	1000	Unknown		10/31/2024 17:32	Finished	MS (1ppb), IWST-240729B,2>
52	N069582-001A,SAMP	11	1000	Unknown		10/31/2024 17:41	Finished	SAMP,10 mL
53	N069582-001AMS,M\$	12	1000	Unknown		10/31/2024 17:51	Finished	MS (1ppb), IWST-240729B,10r
54	N069583-001A,SAMP	13	1000	Unknown		10/31/2024 18:00	Finished	SAMP,2>10 mL
55	N069583-001AMS,M\$	14	1000	Unknown		10/31/2024 18:10	Finished	MS (1ppb), IWST-240729B,2>
56	N069583-002A,SAMP	15	1000	Unknown		10/31/2024 18:19	Finished	SAMP,2>10 mL
57	N069583-002AMS,M\$	16	1000	Unknown		10/31/2024 18:28	Finished	MS (1ppb), IWST-240729B,2>
58	N069583-004A,SAMP	17	1000	Unknown		10/31/2024 18:38	Finished	SAMP,10 mL
59	CCV-5,CCV,1,	18	1000	Unknown		10/31/2024 18:47	Finished	CCV @5ppb, IWST-240729A
60	CCB-5,CCB,1,	19	1000	Unknown		10/31/2024 18:57	Finished	CCB R241001A

61	N069583-004AMS.M\$	20	1000	Unknown	10/31/2024 19:06	Finished	MS (1ppb), IWST-240729B,10r
62	N069583-004A,SAMF	21	1000	Unknown	10/31/2024 19:16	Finished	SAMP,2>10 mL
63	N069583-004AMS.M\$	22	1000	Unknown	10/31/2024 19:25	Finished	MS (1ppb), IWST-240729B,2>
64	N069583-005A,SAMF	23	1000	Unknown	10/31/2024 19:35	Finished	SAMP,10 mL
65	N069583-005AMS.M\$	24	1000	Unknown	10/31/2024 19:44	Finished	MS (1ppb), IWST-240729B,10r
66	N069583-007A,SAMF	25	1000	Unknown	10/31/2024 19:54	Finished	SAMP,10 mL
67	N069583-007AMS.M\$	26	1000	Unknown	10/31/2024 20:03	Finished	MS (1ppb), IWST-240729B,10r
68	N069583-008A,SAMF	27	1000	Unknown	10/31/2024 20:12	Finished	SAMP,10 mL
69	N069583-008AMS.M\$	28	1000	Unknown	10/31/2024 20:22	Finished	MS (1ppb), IWST-240729B,10r
70	N069583-008A,SAMF	29	1000	Unknown	10/31/2024 20:31	Finished	SAMP,2>10 mL
71	CCV-6,CCV1,1,	30	1000	Unknown	10/31/2024 20:41	Finished	CCV @10ppb, IWST-240729A
72	CCB-6,CCB,1,	31	1000	Unknown	10/31/2024 20:50	Finished	CCB R241001A
73	N069583-008AMS.M\$	32	1000	Unknown	10/31/2024 21:00	Finished	MS (1ppb), IWST-240729B,2>
74	N069583-009A,SAMF	33	1000	Unknown	10/31/2024 21:09	Finished	SAMP,10 mL
75	N069583-009AMS.M\$	34	1000	Unknown	10/31/2024 21:19	Finished	MS (1ppb), IWST-240729B,10r
76	N069583-009A,SAMF	35	1000	Unknown	10/31/2024 21:28	Finished	SAMP,2>10 mL
77	N069583-009AMS.M\$	36	1000	Unknown	10/31/2024 21:38	Finished	MS (1ppb), IWST-240729B,2>
78	N069583-010A,SAMF	37	1000	Unknown	10/31/2024 21:47	Finished	SAMP,10 mL
79	N069583-010AMS.M\$	38	1000	Unknown	10/31/2024 21:56	Finished	MS (1ppb), IWST-240729B,10r
80	N069583-010A,SAMF	39	1000	Unknown	10/31/2024 22:06	Finished	SAMP,2>10 mL
81	N069583-010AMS.M\$	40	1000	Unknown	10/31/2024 22:15	Finished	MS (1ppb), IWST-240729B,2>
82	N069583-011A,SAMF	41	1000	Unknown	10/31/2024 22:25	Finished	SAMP,10 mL
83	CCV-7,CCV,1,	42	1000	Unknown	10/31/2024 22:34	Finished	CCV @5ppb, IWST-240729A
84	CCB-7,CCB,1,	43	1000	Unknown	10/31/2024 22:44	Finished	CCB R241001A
85	N069583-011AMS.M\$	44	1000	Unknown	10/31/2024 22:53	Finished	MS (1ppb), IWST-240729B,10r
86	CCV-8,CCV1,1,	45	1000	Unknown	10/31/2024 23:03	Finished	CCV @10ppb, IWST-240729A
87	CCB-8,CCB,1,	46	1000	Unknown	10/31/2024 23:12	Finished	CCB R241001A
88	BLANK	47	1000	Unknown	10/31/2024 23:22	Finished	BLANK
89	SHUTDOWN	48	1000	Unknown	10/31/2024 23:31	Finished	
90	Eluent: R241029A	49	1000	Unknown	n.a.	Finished	
91	PCR: R241029B	50	1000	Unknown	n.a.	Finished	

SAMPLE PREPARATION LOG



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL TECHNOLOGIES

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"Serving Clients with Passion and Professionalism"

Hexavalent Chromium Preparation and Runlog

Sample Preparation

Date Prepared: 10/31/24
 Time Prepared: 6:56H
 Prepared By: NA

Reagent ID:
 Sulfuric Acid: 16020 pH meter ID: 01
 Diphenylcarbazide: 16810
 NH4OH + NH4SO4 eluent: R241029A
 NH4OH + NH4SO4 buffer: R241001A
 CW N 909A
 R241001A

	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	N069582-1A	9.67	-	-250ml	-250ml		
2)	2A	9.33	-				
3)	3A	9.76	-				
4)	4A	9.45	-				
5)	5A	9.48	-				
6)	6A	9.44	-				
7)	N069583-1A	9.72	-				
8)	2A	9.46	-				
9)	3A	9.05	9.44			+4	
10)	4A	9.16	9.38			+3	
11)	5A	9.68	-				
12)	6A	9.71	-				
13)	7A	9.70	-				
14)	8A	9.14	9.49			+4	
15)	9A	9.38	-				
	10A	9.72	-				

Sample Preparation

Date Prepared: 10/31/24
 Time Prepared: 09:56H
 Prepared By: NA

Reagent ID:
 Sulfuric Acid: 16020 pH meter ID: 01
 Diphenylcarbazide: 16810
 NH4OH + NH4SO4 eluent: R241029A
 NH4OH + NH4SO4 buffer: R241001A

	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	N069587-11A	9.71	-	-200ml	-200ml		
2)	N069585-1A	9.40	-				
3)							
4)							
5)							
6)							
7)							
8)							
9)							
10)							
11)							
12)							
13)							
14)							
15)							

Logbook No. 26



ASSET LABORATORIES

ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
INTEGRATION OF SURVEILLANCE, ANALYTICAL, & TESTING SERVICES

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"Serving Clients with Passion and Professionalism"

(EPA 218.6) - INITIAL CALIBRATION

Instrument ID: NV00922-IC7
Date Calibrated: 10/28/2024

Initial Calibration:

Hexavalent Chromium	STD1	STD2	STD3	STD4	STD5	STD6	
COMPOUND, in ug/L	0.2	1	5	10	15	20	R ²
Area,mAU*min	0.0527	0.2779	1.4196	2.8235	4.2553	5.6829	1.0000
Measured, in ug/L	0.185700	0.979400	5.002800	9.950700	14.996600	20.027700	
Relative Error (%RE)	-7.2%		0.1%				

	Stock	Working
Standard Concentration:	1,000,000 PPB	1,000 PPB
Standard ID:	ISST-240705H	IWST-240729A

Calibration Acceptance Criteria: > 0.999 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
INTEGRATION • INNOVATION • IMPROVEMENT • INTEGRITY

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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: ICV	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6279536							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.730	0.20	5.000	0	94.6	90	110				

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6279537							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.211	0.20	0.2000	0	106	80	120				

Sample ID CCV-1	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: CCV	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279539							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.948	0.20	5.000	0	99.0	95	105				

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279540							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.193	0.20	0.2000	0	96.5	80	120				

Sample ID CCV-2	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279548							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.882	0.20	10.00	0	98.8	95	105				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCV-3	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: CCV	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279554	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	4.909	0.20	5.000	0	98.2 95 105

Sample ID CCV-4	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279565	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	9.967	0.20	10.00	0	99.7 95 105

Sample ID CCV-5	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: CCV	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279576	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	4.851	0.20	5.000	0	97.0 95 105

Sample ID CCV-6	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: ZZZZZ	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279585	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	9.809	0.20	10.00	0	98.1 95 105

Sample ID CCV-7	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: CCV	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279593	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	4.943	0.20	5.000	0	98.9 95 105

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCV-8	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: ZZZZZZ	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279596						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.891	0.20	10.00	0	98.9	95	105				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: ICB	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/28/2024	SeqNo: 6279538						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-1	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: CCB	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279541						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-2	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: CCB	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279549						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-3	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: CCB	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279555						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-4	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071						
Client ID: CCB	Batch ID: R195071	TestNo: EPA 218.6		Analysis Date: 10/31/2024	SeqNo: 6279566						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCB-5	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: CCB	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279577	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-6	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: CCB	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279586	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-7	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: CCB	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279594	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-8	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195071
Client ID: CCB	Batch ID: R195071	TestNo: EPA 218.6	Analysis Date: 10/31/2024	SeqNo: 6279597	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

RETENTION TIME SUMMARY



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"Serving Clients with Passion and Professionalism"

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/31/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.723	
CCV-2	5.723	
CCV-3	5.723	
CCV-4	5.715	
CCV-5	5.715	
CCV-6	5.715	
CCV-7	5.715	
CCV-8	5.715	

Average 5.718
Actual RT Window 5.638 - 5.798
Applied RT Window 5.518 - 5.918

MB-R195071	N.A.	N.A.
LCS-R195071	5.731	PASS
N069543-018A	N.A.	N.A.
N069543-018AMS	5.715	PASS
N069543-021A	5.715	PASS
N069543-021AMS	5.723	PASS
N069583-003A	N.A.	N.A.
N069583-003A	N.A.	N.A.
N069583-003AMS	5.681	PASS
N069583-003AMSD	5.690	PASS
N069582-002A	5.740	PASS
N069582-003A	5.715	PASS
N069582-004A	5.715	PASS
N069583-002A	N.A.	N.A.
N069583-002AMS	5.556	PASS
N069583-006A	N.A.	N.A.
N069583-006AMS	5.715	PASS
N069585-001A	5.715	PASS
N069585-001AMS	5.715	PASS
N069585-001ADUP	5.715	PASS

Reviewed by:

M. Rocha 11/13/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/31/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.723	
CCV-2	5.723	
CCV-3	5.723	
CCV-4	5.715	
CCV-5	5.715	
CCV-6	5.715	
CCV-7	5.715	
CCV-8	5.715	

Average 5.718
Actual RT Window 5.638 - 5.798
Applied RT Window 5.518 - 5.918

N069582-002A	5.640	PASS
N069582-002AMS	5.631	PASS
N069582-003AMS	5.715	PASS
N069582-004AMS	5.715	PASS
N069543-019A	5.673	PASS
N069543-019AMS	5.673	PASS
N069543-020A	5.673	PASS
N069543-020AMS	5.665	PASS
N069582-001A	N.A.	N.A.
N069582-001AMS	5.715	PASS
N069583-001A	5.715	PASS
N069583-001AMS	5.706	PASS
N069583-002A	N.A.	N.A.
N069583-002AMS	5.690	PASS
N069583-004A	5.673	PASS
N069583-004AMS	5.673	PASS
N069583-005A	N.A.	N.A.
N069583-005AMS	5.706	PASS
N069583-007A	N.A.	N.A.
N069583-007AMS	5.715	PASS

Reviewed by:

M Rocha 11/13/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 10/31/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.723	
CCV-2	5.723	
CCV-3	5.723	
CCV-4	5.715	
CCV-5	5.715	
CCV-6	5.715	
CCV-7	5.715	
CCV-8	5.715	

Average 5.718
Actual RT Window 5.638 - 5.798
Applied RT Window 5.518 - 5.918

N069583-008A	N.A.	N.A.
N069583-008AMS	5.573	PASS
N069583-008A	N.A.	N.A.
N069583-008AMS	5.681	PASS
N069583-009A	N.A.	N.A.
N069583-009AMS	N.A.	N.A.
N069583-009A	N.A.	N.A.
N069583-009AMS	5.656	PASS
N069583-010A	N.A.	N.A.
N069583-010AMS	N.A.	N.A.
N069583-010A	N.A.	N.A.
N069583-010AMS	5.623	PASS
N069583-011A	N.A.	N.A.
N069583-011AMS	5.715	PASS

Reviewed by:

dMocha 11/13/2024

MDL STUDY



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL AND ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

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METHOD DETECTION LIMIT (Spiked)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): 10/4/2022, 11/15/2022, 1/4/2023, 3/1/2023, 4/4/2023, 5/16/2023, 7/10/2023, 8/2/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: ug/L

Instrument Name: **IC-07**

Datafile 221004A D12 221115A D12 230104A D11 230301C D14 230404A D11 230516A D11 230710A D12 230802A D11

Analyte	#1	#2	#3	#4	#5	#6	#7	#8	Spike Conc., ug/L	SD	t _(n-1) value	MDLs	PQL
Hexavalent Chromium	0.199	0.194	0.169	0.190	0.167	0.194	0.201	0.185	0.20	0.0129	2.998	0.0387	0.20

METHOD DETECTION LIMIT (Blanks)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Instrument Name: **IC-07**

Analyte	MDLb	#of Records
Hexavalent Chromium	0.00	166

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

RAW DATA



ASSET LABORATORIES
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INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	ICV	ICV	1	Hexavalent Chromium	10/28/24 10:49 AM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/28/24 10:59 AM	Reported
11	ICB	ICB	1	Hexavalent Chromium	10/28/24 11:08 AM	Reported
12	MB-R194895	MBLK	1	Hexavalent Chromium	10/28/24 11:17 AM	Reported
13	LCS-R194895	LCS	1	Hexavalent Chromium	10/28/24 11:27 AM	Reported
14	N069445-001A	SAMP	1	Hexavalent Chromium	10/28/24 11:36 AM	Reported
15	N069445-001AMS	MS	1	Hexavalent Chromium	10/28/24 11:46 AM	Reported
16	N069445-001AMSD	MSD	1	Hexavalent Chromium	10/28/24 11:55 AM	Reported
17	N069445-001ADUP	DUP	1	Hexavalent Chromium	10/28/24 12:05 PM	Reported
18	N069453-001A	SAMP	1	Hexavalent Chromium	10/28/24 12:14 PM	Reported
19	N069453-002A	SAMP	1	Hexavalent Chromium	10/28/24 12:24 PM	Reported
20	N069453-003A	SAMP	1	Hexavalent Chromium	10/28/24 12:33 PM	Reported
21	N069453-004A	SAMP	1	Hexavalent Chromium	10/28/24 12:43 PM	Reported
22	CCV-1	CCV1	1	Hexavalent Chromium	10/28/24 12:52 PM	Reported
23	CCB-1	CCB	1	Hexavalent Chromium	10/28/24 1:02 PM	Reported
24	N069444-001A	SAMP	1	Hexavalent Chromium	10/28/24 1:11 PM	Reported
25	N069444-001AMS	MS	1	Hexavalent Chromium	10/28/24 1:20 PM	Reported
26	N069444-002A	SAMP	1	Hexavalent Chromium	10/28/24 1:30 PM	Reported
27	N069444-002AMS	MS	1	Hexavalent Chromium	10/28/24 1:39 PM	Reported
28	N069444-003A	SAMP	1	Hexavalent Chromium	10/28/24 1:49 PM	Not Reported
29	N069444-003AMS	MS	1	Hexavalent Chromium	10/28/24 1:58 PM	Not Reported
30	N069444-001A	SAMP	5	Hexavalent Chromium	10/28/24 2:08 PM	Not Reported
31	N069444-001AMS	MS	5	Hexavalent Chromium	10/28/24 2:17 PM	Not Reported
32	N069444-002A	SAMP	5	Hexavalent Chromium	10/28/24 2:27 PM	Not Reported
33	N069444-002AMS	MS	5	Hexavalent Chromium	10/28/24 2:36 PM	Not Reported
34	CCV-2	CCV	1	Hexavalent Chromium	10/28/24 2:46 PM	Reported
35	CCB-2	CCB	1	Hexavalent Chromium	10/28/24 2:55 PM	Reported
36	N069444-003A	SAMP	5	Hexavalent Chromium	10/28/24 3:04 PM	Reported
37	N069444-003AMS	MS	5	Hexavalent Chromium	10/28/24 3:14 PM	Reported
38	N069233-009A	SAMP	5	Hexavalent Chromium	10/28/24 3:23 PM	Not Reported
39	N069233-009AMS	MS	5	Hexavalent Chromium	10/28/24 3:33 PM	Not Reported
40	N069233-015A	SAMP	5	Hexavalent Chromium	10/28/24 3:42 PM	Not Reported
41	N069233-015AMS	MS	5	Hexavalent Chromium	10/28/24 3:52 PM	Not Reported
42	CCV-3	CCV1	1	Hexavalent Chromium	10/28/24 4:01 PM	Reported

INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	CCB-3	CCB	1	Hexavalent Chromium	10/28/24 4:11 PM	Reported
44	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 4:20 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241028A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	28/Oct/24 16:50:54
No. of Injections:	47	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	ICV,ICV,1,	9	1000	Unknown		10/28/2024 10:49	Finished	ICV @5ppb, IWST-240729B
10	PQL @0.2ppb,CCV2,	10	1000	Unknown		10/28/2024 10:59	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		10/28/2024 11:08	Finished	ICB R240926A
12	MB-H2O,MBLK,1,	12	1000	Unknown		10/28/2024 11:17	Finished	MB R240926A
13	LCS-H2O,LCS,1,	13	1000	Unknown		10/28/2024 11:27	Finished	LCS @5ppb, IWST-240729B
14	N069445-001A,SAMP	14	1000	Unknown		10/28/2024 11:36	Finished	SAMP,10 mL
15	N069445-001AMS,MS	15	1000	Unknown		10/28/2024 11:46	Finished	MS (1ppb), IWST-240729B,10r
16	N069445-001AMSD,N	16	1000	Unknown		10/28/2024 11:55	Finished	MSD (1ppb), IWST-240729B,10r
17	N069445-001ADUP,D	17	1000	Unknown		10/28/2024 12:05	Finished	DUP,10 mL
18	N069453-001A,SAMP	18	1000	Unknown		10/28/2024 12:14	Finished	SAMP,10 mL
19	N069453-002A,SAMP	19	1000	Unknown		10/28/2024 12:24	Finished	SAMP,10 mL
20	N069453-003A,SAMP	20	1000	Unknown		10/28/2024 12:33	Finished	SAMP,10 mL
21	N069453-004A,SAMP	21	1000	Unknown		10/28/2024 12:43	Finished	SAMP,10 mL
22	CCV-1,CCV1,1,	22	1000	Unknown		10/28/2024 12:52	Finished	CCV @10ppb, IWST-240729A
23	CCB-1,CCB,1,	23	1000	Unknown		10/28/2024 13:02	Finished	CCB R240926A
24	N069444-001A,SAMP	24	1000	Unknown		10/28/2024 13:11	Finished	SAMP,10 mL
25	N069444-001AMS,MS	25	1000	Unknown		10/28/2024 13:20	Finished	MS (1ppb), IWST-240729B,10r
26	N069444-002A,SAMP	26	1000	Unknown		10/28/2024 13:30	Finished	SAMP,10 mL
27	N069444-002AMS,MS	27	1000	Unknown		10/28/2024 13:39	Finished	MS (1ppb), IWST-240729B,10r
28	N069444-003A,SAMP	28	1000	Unknown		10/28/2024 13:49	Finished	SAMP,10 mL
29	N069444-003AMS,MS	29	1000	Unknown		10/28/2024 13:58	Finished	MS (1ppb), IWST-240729B,10r
30	N069444-001A,SAMP	30	1000	Unknown		10/28/2024 14:08	Finished	SAMP,2>10 mL
31	N069444-001AMS,MS	31	1000	Unknown		10/28/2024 14:17	Finished	MS (1ppb), IWST-240729B,2>10
32	N069444-002A,SAMP	32	1000	Unknown		10/28/2024 14:27	Finished	SAMP,2>10 mL
33	N069444-002AMS,MS	33	1000	Unknown		10/28/2024 14:36	Finished	MS (1ppb), IWST-240729B,2>10
34	CCV-2,CCV,1,	34	1000	Unknown		10/28/2024 14:46	Finished	CCV @5ppb, IWST-240729A
35	CCB-2,CCB,1,	35	1000	Unknown		10/28/2024 14:55	Finished	CCB R240926A
36	N069444-003A,SAMP	36	1000	Unknown		10/28/2024 15:04	Finished	SAMP,2>10 mL
37	N069444-003AMS,MS	37	1000	Unknown		10/28/2024 15:14	Finished	MS (1ppb), IWST-240729B,2>10
38	N069233-009A,SAMP	38	1000	Unknown		10/28/2024 15:23	Finished	SAMP,2>10 mL
39	N069233-009AMS,MS	39	1000	Unknown		10/28/2024 15:33	Finished	MS (1ppb), IWST-240729B,2>10
40	N069233-015A,SAMP	40	1000	Unknown		10/28/2024 15:42	Finished	SAMP,2>10 mL
41	N069233-015AMS,MS	41	1000	Unknown		10/28/2024 15:52	Finished	MS (1ppb), IWST-240729B,2>10
42	CCV-3,CCV1,1,	42	1000	Unknown		10/28/2024 16:01	Finished	CCV @10ppb, IWST-240729A
43	CCB-3,CCB,1,	43	1000	Unknown		10/28/2024 16:11	Finished	CCB R240926A
44	BLANK	44	1000	Unknown		10/28/2024 16:20	Finished	BLANK
45	SHUTDOWN	45	1000	Unknown		10/28/2024 16:30	Finished	
46	Eluent: R241025A	46	1000	Unknown		n.a.	Finished	
47	PCR: R241025B	47	1000	Unknown		n.a.	Finished	

Reviewed by:

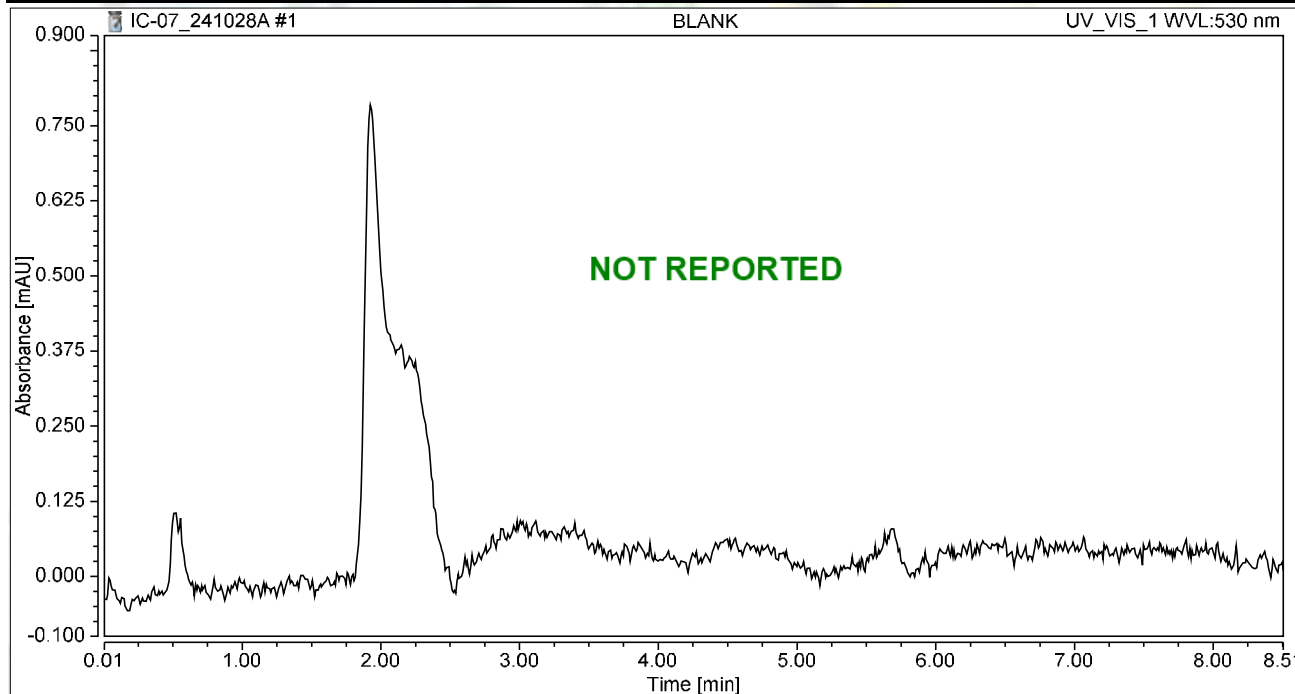
d/rocha 11/3/2024

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 09:30	Sample Weight:	1.0000

Chromatogram



Integration Results

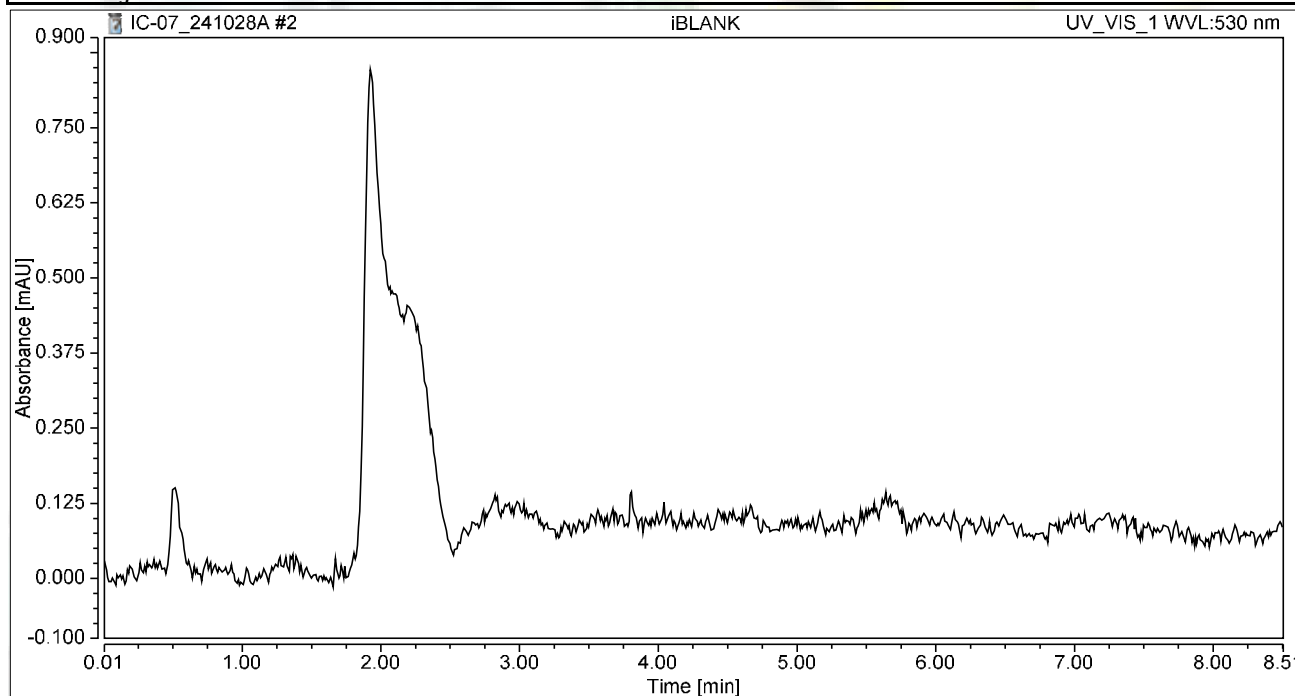
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	iBLANK	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 09:43	Sample Weight:	1.0000

Chromatogram



Integration Results

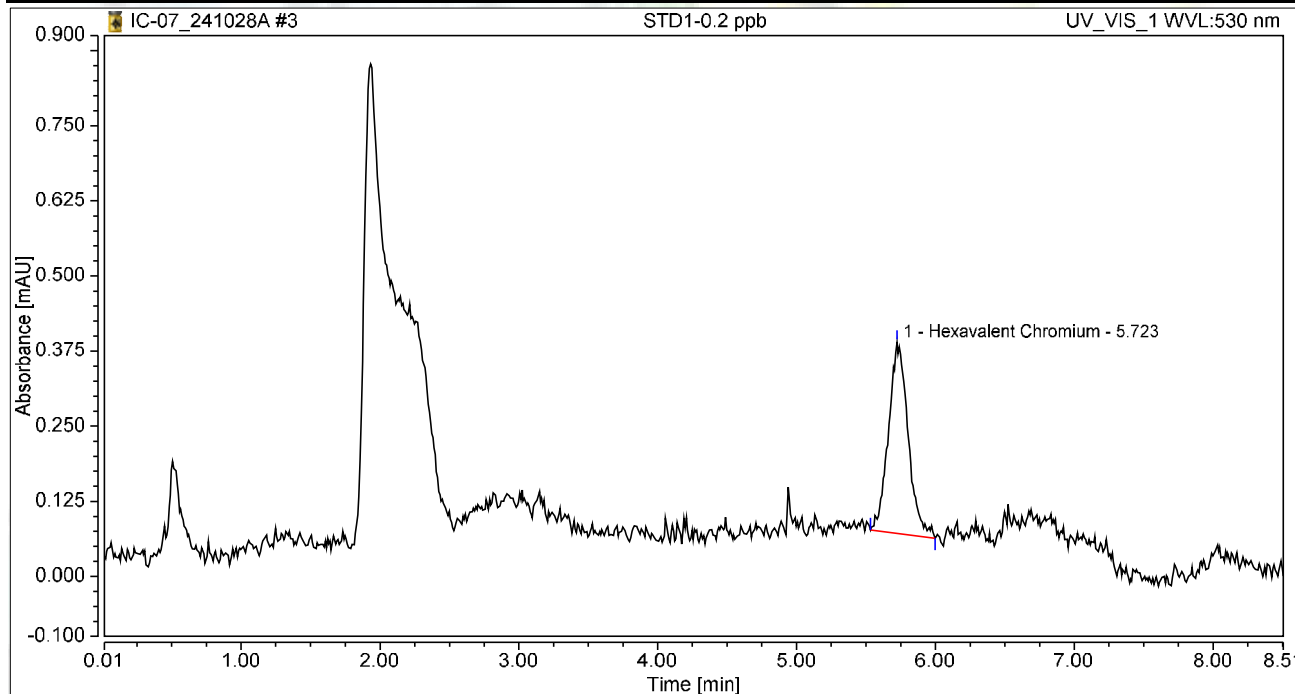
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	STD1-0.2 ppb	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	01	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 09:52	Sample Weight:	1.0000

Chromatogram



Integration Results

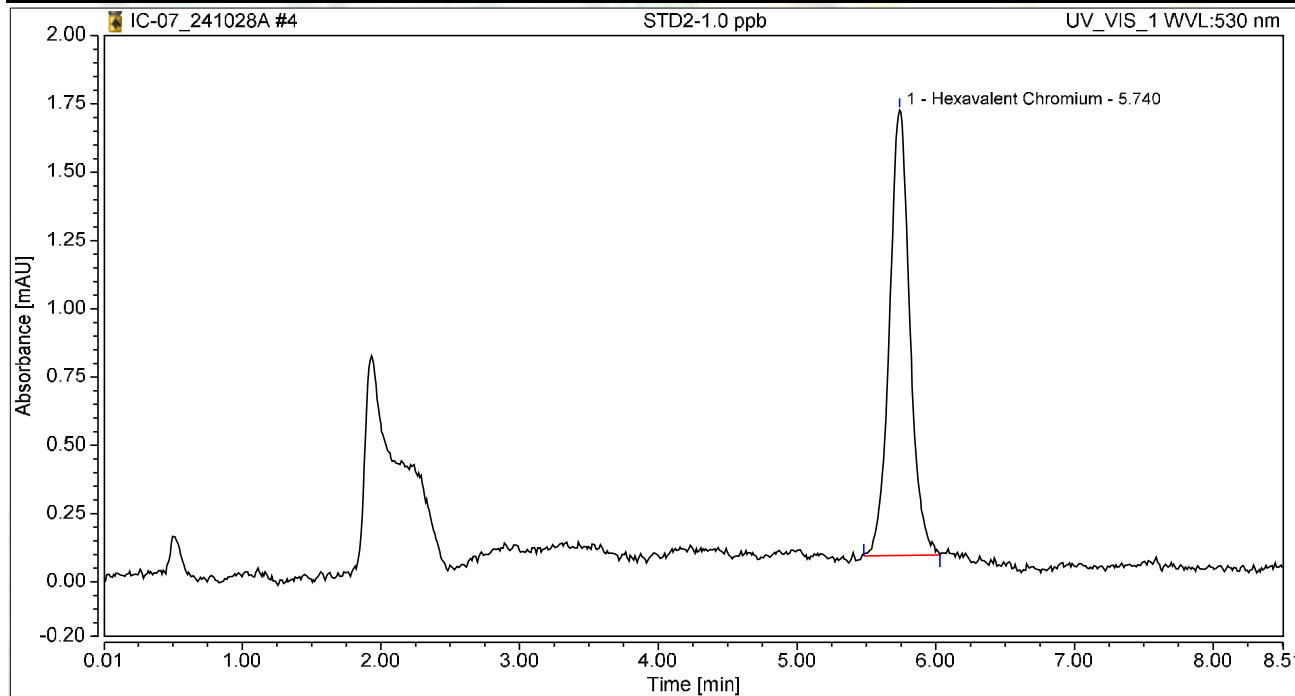
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.053	0.318	100.00	100.00	0.1857
Total:			0.053	0.318	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD2-1.0 ppb	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	02	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:02	Sample Weight:	1.0000

Chromatogram



Integration Results

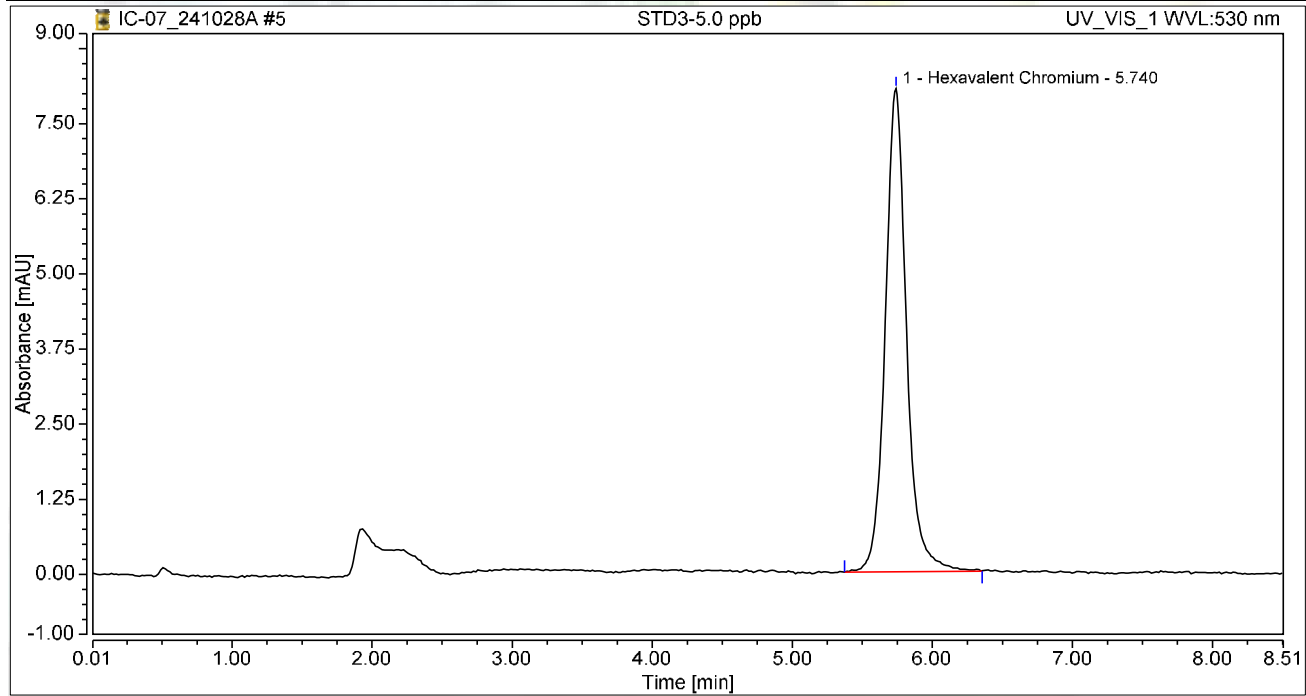
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	0.278	1.631	100.00	100.00	0.9794
Total:			0.278	1.631	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD3-5.0 ppb	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	03	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:11	Sample Weight:	1.0000

Chromatogram



Integration Results

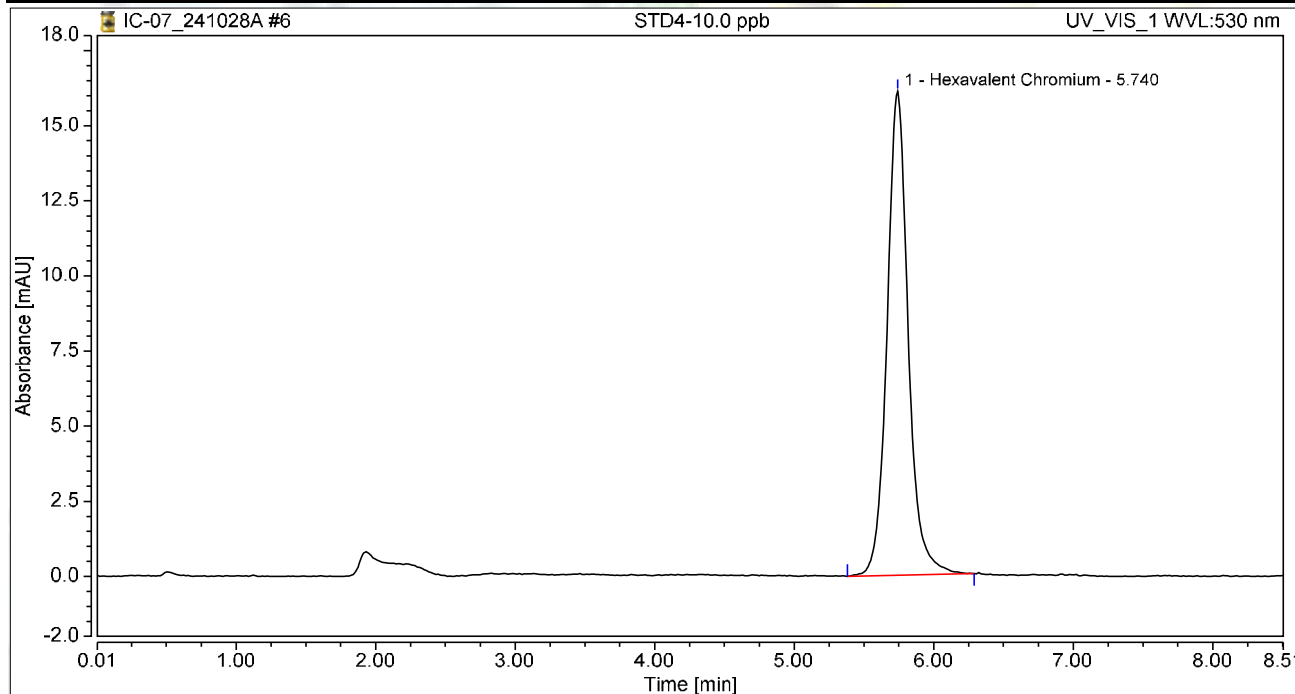
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	1.420	8.039	100.00	100.00	5.0028
Total:			1.420	8.039	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD4-10.0 ppb	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	04	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:21	Sample Weight:	1.0000

Chromatogram



Integration Results

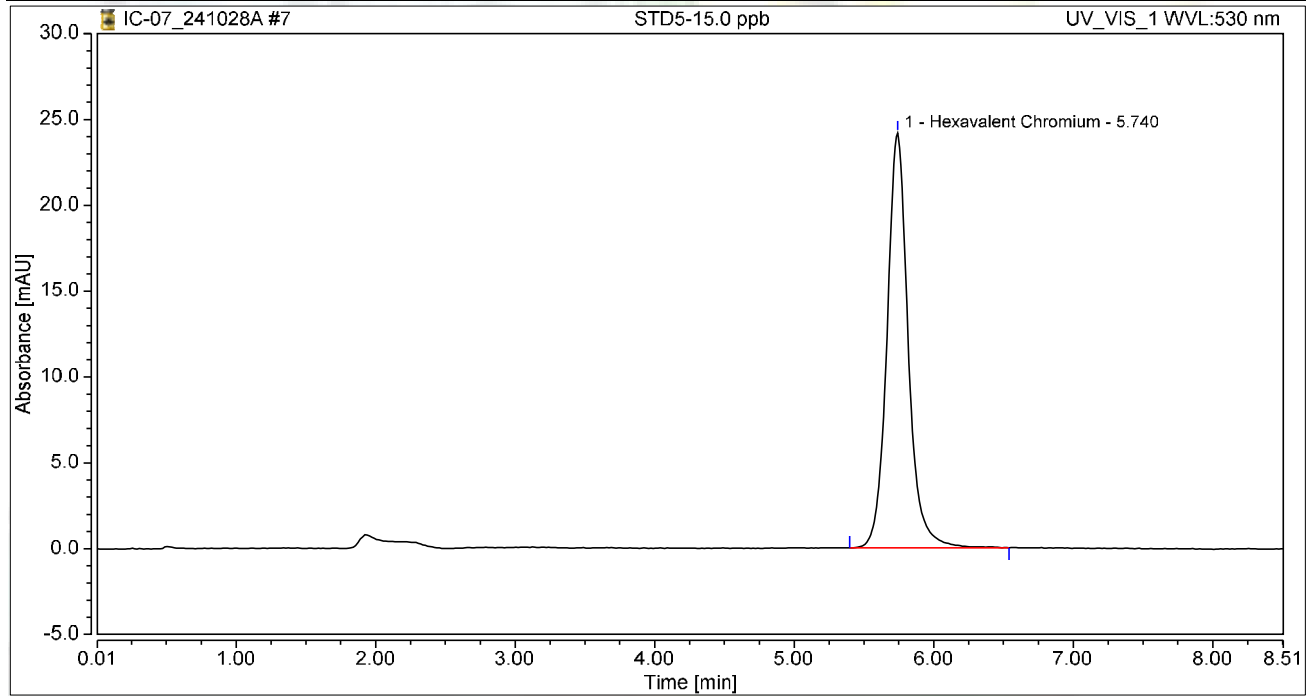
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	2.824	16.106	100.00	100.00	9.9507
Total:			2.824	16.106	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD5-15.0 ppb	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	05	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:30	Sample Weight:	1.0000

Chromatogram



Integration Results

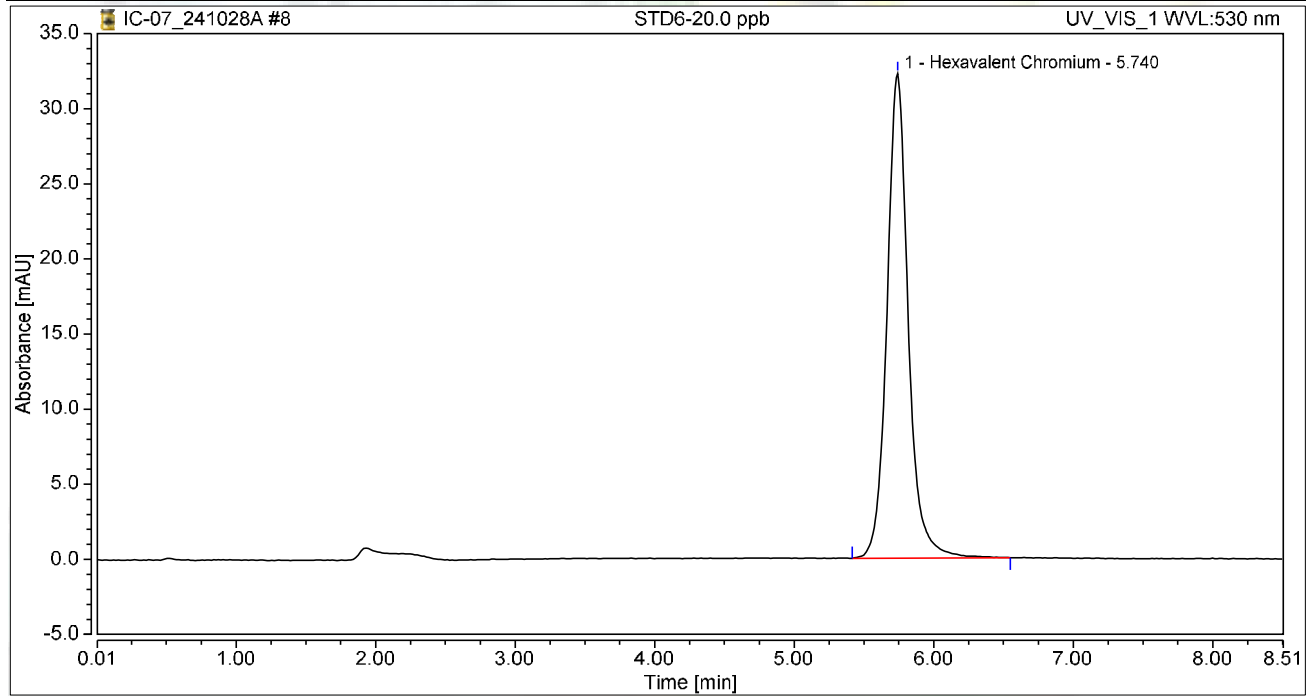
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	4.255	24.168	100.00	100.00	14.9966
Total:			4.255	24.168	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD6-20.0 ppb	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	06	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:40	Sample Weight:	1.0000

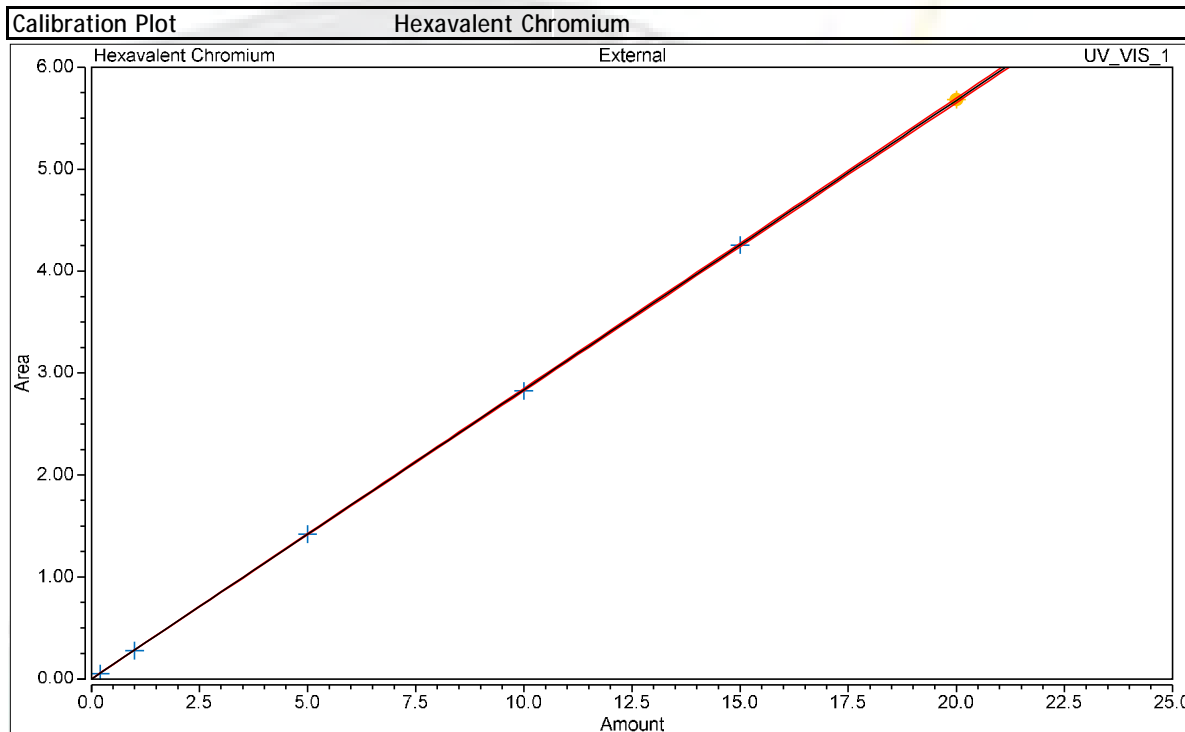
Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	5.683	32.257	100.00	100.00	20.0277
Total:			5.683	32.257	100.00	100.00	

Initial Calibration Summary			
Calibration Details		Hexavalent Chromium	
Calibration Type	Lin	Offset (C0)	0.0000
Evaluation Type	Area	Slope (C1)	0.2838
Number of Calibration Points	6	Curve (C2)	0.0000
Number of disabled Calibration Points	0	R-Square	0.99999



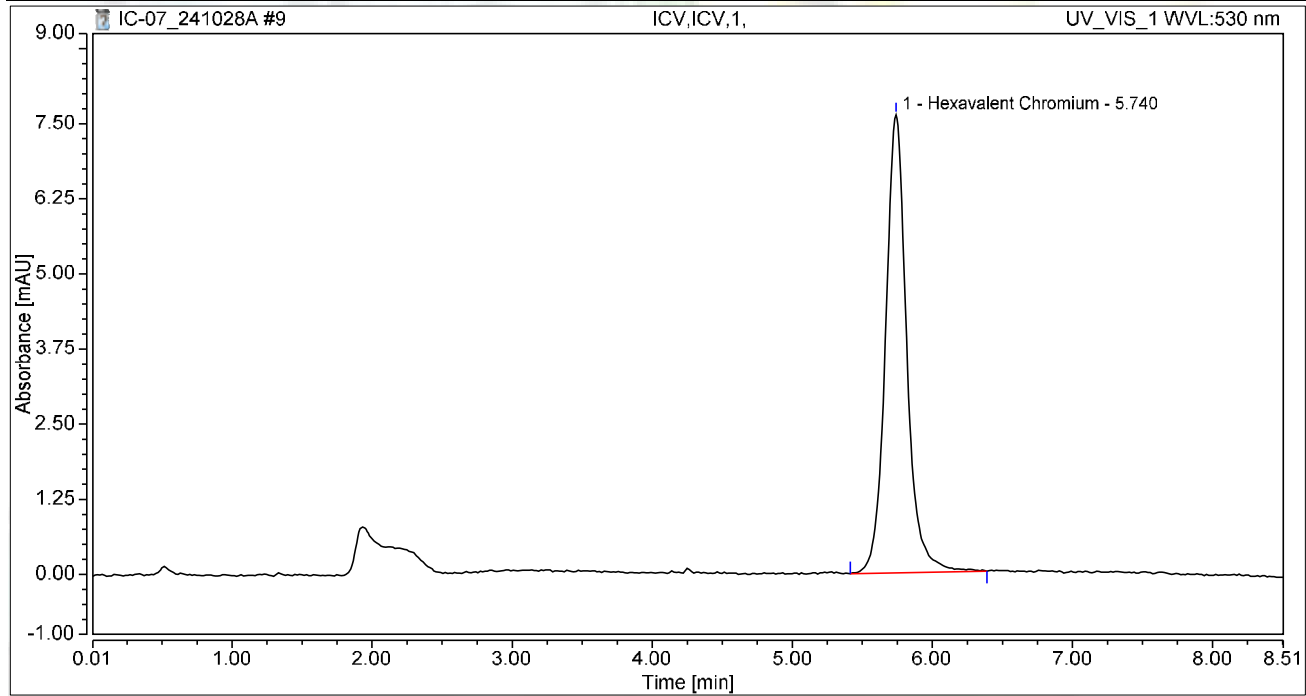
Calibration Results		Hexavalent Chromium				
No.	Injection Name	Calibration Level	X Value	Y Value	Area mAU*min	Height mAU
3	STD1-0.2 ppb	01	0.2000	0.0527	0.053	0.318
4	STD2-1.0 ppb	02	1.0000	0.2779	0.278	1.631
5	STD3-5.0 ppb	03	5.0000	1.4196	1.420	8.039
6	STD4-10.0 ppb	04	10.0000	2.8235	2.824	16.106
7	STD5-15.0 ppb	05	15.0000	4.2553	4.255	24.168
8	STD6-20.0 ppb	06	20.0000	5.6829	5.683	32.257

Chromatogram and Results

Injection Details

Injection Name:	ICV,ICV,1,	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:49	Sample Weight:	1.0000

Chromatogram



Integration Results

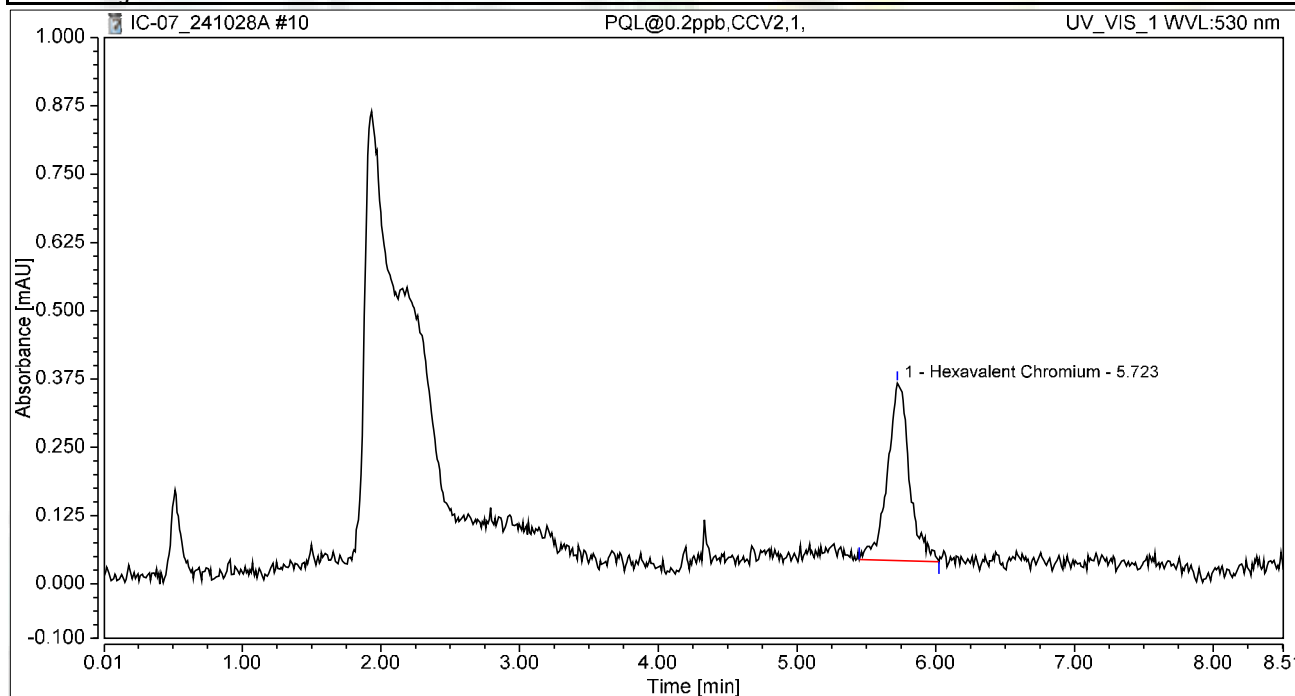
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	1.342	7.624	100.00	100.00	4.7300
Total:			1.342	7.624	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:59	Sample Weight:	1.0000

Chromatogram



Integration Results

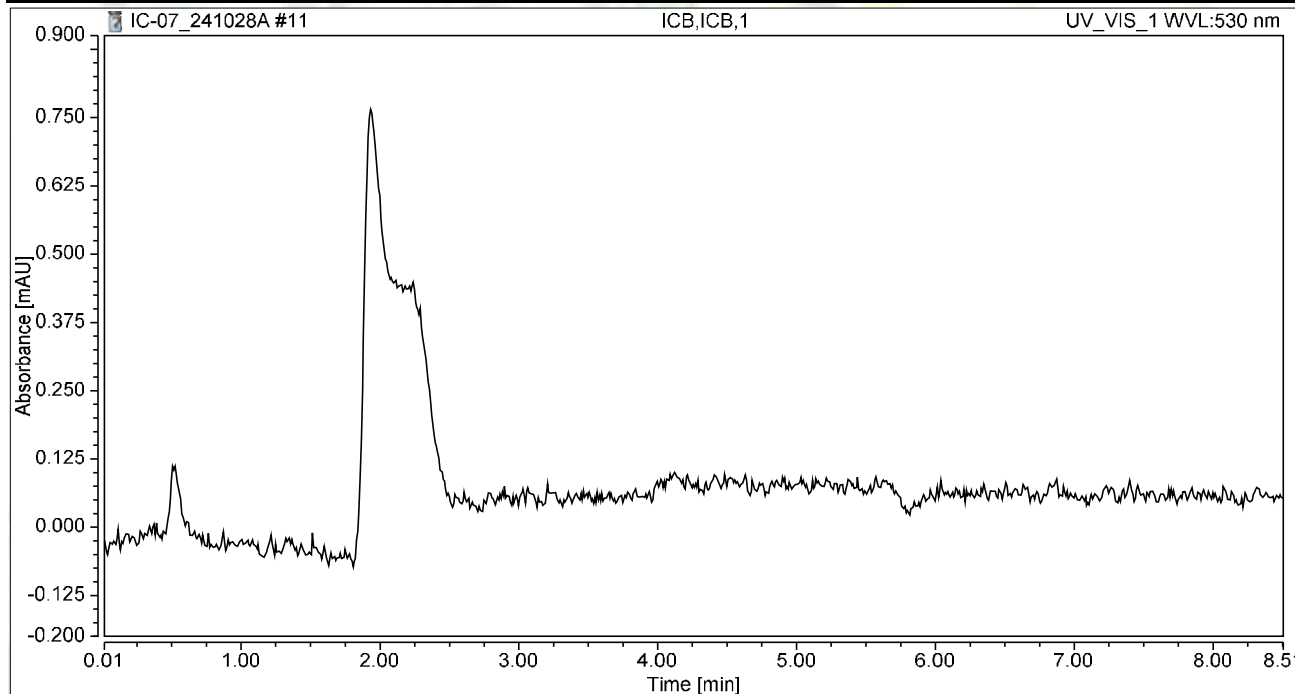
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.060	0.325	100.00	100.00	0.2110
Total:			0.060	0.325	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	ICB,ICB,1	Run Time (min):	8.49
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 11:08	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	



RAW DATA



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"Serving Clients with Passion and Professionalism"

INJECTION LOG: 241031A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	10/31/24 9:46 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	10/31/24 9:59 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/31/24 10:08 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	10/31/24 10:18 AM	Reported
13	MB-R195071	MBLK	1	Hexavalent Chromium	10/31/24 10:27 AM	Reported
14	LCS-R195071	LCS	1	Hexavalent Chromium	10/31/24 10:37 AM	Reported
15	N069543-018A	SAMP	1	Hexavalent Chromium	10/31/24 10:46 AM	Reported
16	N069543-018AMS	MS	1	Hexavalent Chromium	10/31/24 10:56 AM	Reported
17	N069543-019A	SAMP	1	Hexavalent Chromium	10/31/24 11:05 AM	Not Reported
18	N069543-019AMS	MS	1	Hexavalent Chromium	10/31/24 11:15 AM	Not Reported
19	N069543-020A	SAMP	1	Hexavalent Chromium	10/31/24 11:24 AM	Not Reported
20	N069543-020AMS	MS	1	Hexavalent Chromium	10/31/24 11:33 AM	Not Reported
21	N069543-021A	SAMP	1	Hexavalent Chromium	10/31/24 11:43 AM	Reported
22	N069543-021AMS	MS	1	Hexavalent Chromium	10/31/24 11:52 AM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	10/31/24 12:02 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	10/31/24 12:11 PM	Reported
25	N069583-003A	SAMP	1	Hexavalent Chromium	10/31/24 12:22 PM	Not Reported
26	N069583-003AMS	MS	1	Hexavalent Chromium	10/31/24 12:33 PM	Not Reported
27	N069583-003A	SAMP	5	Hexavalent Chromium	10/31/24 12:43 PM	Reported
28	N069583-003AMS	MS	5	Hexavalent Chromium	10/31/24 12:52 PM	Reported
29	N069583-003AMSD	MSD	5	Hexavalent Chromium	10/31/24 1:02 PM	Reported
30	N069582-002A	SAMP	50	Hexavalent Chromium	10/31/24 1:52 PM	Not Reported
31	N069582-003A	SAMP	5	Hexavalent Chromium	10/31/24 2:05 PM	Reported
32	N069582-004A	SAMP	50	Hexavalent Chromium	10/31/24 2:14 PM	Not Reported
33	N069583-002A	SAMP	1	Hexavalent Chromium	10/31/24 2:24 PM	Not Reported
34	N069583-002AMS	MS	1	Hexavalent Chromium	10/31/24 2:33 PM	Not Reported
35	CCV-3	CCV	1	Hexavalent Chromium	10/31/24 2:43 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	10/31/24 2:52 PM	Reported
37	N069583-006A	SAMP	1	Hexavalent Chromium	10/31/24 3:02 PM	Reported
38	N069583-006AMS	MS	1	Hexavalent Chromium	10/31/24 3:11 PM	Reported
39	N069585-001A	SAMP	5	Hexavalent Chromium	10/31/24 3:21 PM	Reported
40	N069585-001AMS	MS	5	Hexavalent Chromium	10/31/24 3:30 PM	Reported
41	N069585-001ADUP	DUP	5	Hexavalent Chromium	10/31/24 3:39 PM	Reported
42	N069582-002A	SAMP	5	Hexavalent Chromium	10/31/24 4:04 PM	Reported

INJECTION LOG: 241031A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069582-002AMS	MS	5	Hexavalent Chromium	10/31/24 4:16 PM	Reported
44	N069582-003AMS	MS	5	Hexavalent Chromium	10/31/24 4:26 PM	Reported
45	N069582-004AMS	MS	50	Hexavalent Chromium	10/31/24 4:35 PM	Not Reported
46	N069543-019A	SAMP	5	Hexavalent Chromium	10/31/24 4:44 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	10/31/24 4:54 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	10/31/24 5:03 PM	Reported
49	N069543-019AMS	MS	5	Hexavalent Chromium	10/31/24 5:13 PM	Reported
50	N069543-020A	SAMP	5	Hexavalent Chromium	10/31/24 5:22 PM	Reported
51	N069543-020AMS	MS	5	Hexavalent Chromium	10/31/24 5:32 PM	Reported
52	N069582-001A	SAMP	1	Hexavalent Chromium	10/31/24 5:41 PM	Reported
53	N069582-001AMS	MS	1	Hexavalent Chromium	10/31/24 5:51 PM	Reported
54	N069583-001A	SAMP	5	Hexavalent Chromium	10/31/24 6:00 PM	Reported
55	N069583-001AMS	MS	5	Hexavalent Chromium	10/31/24 6:10 PM	Reported
56	N069583-002A	SAMP	5	Hexavalent Chromium	10/31/24 6:19 PM	Reported
57	N069583-002AMS	MS	5	Hexavalent Chromium	10/31/24 6:28 PM	Reported
58	N069583-004A	SAMP	1	Hexavalent Chromium	10/31/24 6:38 PM	Not Reported
59	CCV-5	CCV	1	Hexavalent Chromium	10/31/24 6:47 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	10/31/24 6:57 PM	Reported
61	N069583-004AMS	MS	1	Hexavalent Chromium	10/31/24 7:06 PM	Not Reported
62	N069583-004A	SAMP	5	Hexavalent Chromium	10/31/24 7:16 PM	Reported
63	N069583-004AMS	MS	5	Hexavalent Chromium	10/31/24 7:25 PM	Reported
64	N069583-005A	SAMP	1	Hexavalent Chromium	10/31/24 7:35 PM	Reported
65	N069583-005AMS	MS	1	Hexavalent Chromium	10/31/24 7:44 PM	Reported
66	N069583-007A	SAMP	1	Hexavalent Chromium	10/31/24 7:54 PM	Reported
67	N069583-007AMS	MS	1	Hexavalent Chromium	10/31/24 8:03 PM	Reported
68	N069583-008A	SAMP	1	Hexavalent Chromium	10/31/24 8:12 PM	Not Reported
69	N069583-008AMS	MS	1	Hexavalent Chromium	10/31/24 8:22 PM	Not Reported
70	N069583-008A	SAMP	5	Hexavalent Chromium	10/31/24 8:31 PM	Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	10/31/24 8:41 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	10/31/24 8:50 PM	Reported
73	N069583-008AMS	MS	5	Hexavalent Chromium	10/31/24 9:00 PM	Reported
74	N069583-009A	SAMP	1	Hexavalent Chromium	10/31/24 9:09 PM	Not Reported
75	N069583-009AMS	MS	1	Hexavalent Chromium	10/31/24 9:19 PM	Not Reported
76	N069583-009A	SAMP	5	Hexavalent Chromium	10/31/24 9:28 PM	Reported
77	N069583-009AMS	MS	5	Hexavalent Chromium	10/31/24 9:38 PM	Reported
78	N069583-010A	SAMP	1	Hexavalent Chromium	10/31/24 9:47 PM	Not Reported
79	N069583-010AMS	MS	1	Hexavalent Chromium	10/31/24 9:56 PM	Not Reported
80	N069583-010A	SAMP	5	Hexavalent Chromium	10/31/24 10:06 PM	Reported
81	N069583-010AMS	MS	5	Hexavalent Chromium	10/31/24 10:15 PM	Reported
82	N069583-011A	SAMP	1	Hexavalent Chromium	10/31/24 10:25 PM	Reported
83	CCV-7	CCV	1	Hexavalent Chromium	10/31/24 10:34 PM	Reported
84	CCB-7	CCB	1	Hexavalent Chromium	10/31/24 10:44 PM	Reported

INJECTION LOG: 241031A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N069583-011AMS	MS	1	Hexavalent Chromium	10/31/24 10:53 PM	Reported
86	CCV-8	CCV1	1	Hexavalent Chromium	10/31/24 11:03 PM	Reported
87	CCB-8	CCB	1	Hexavalent Chromium	10/31/24 11:12 PM	Reported
88	BLANK	BLANK	1	Hexavalent Chromium	10/31/24 11:22 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241031A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	31/Oct/24 23:52:19
No. of Injections:	91	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	BLANK	1	1000	Unknown		10/31/2024 09:46	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		10/31/2024 09:59	Finished	CCV @5ppb, IWST-240729A
11	PQL@0.2ppb,CCV2,	3	1000	Unknown		10/31/2024 10:08	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		10/31/2024 10:18	Finished	CCB R241001A
13	MB-H2O,MBLK,1,	5	1000	Unknown		10/31/2024 10:27	Finished	MB R241001A
14	LCS-H2O,LCS,1,	6	1000	Unknown		10/31/2024 10:37	Finished	LCS @5ppb, IWST-240729B
15	N069543-018A,SAMP	7	1000	Unknown		10/31/2024 10:46	Finished	SAMP,10 mL
16	N069543-018AMS,M	8	1000	Unknown		10/31/2024 10:56	Finished	MS (1ppb), IWST-240729B,10r
17	N069543-019A,SAMP	9	1000	Unknown		10/31/2024 11:05	Finished	SAMP,10 mL
18	N069543-019AMS,M	10	1000	Unknown		10/31/2024 11:15	Finished	MS (1ppb), IWST-240729B,10r
19	N069543-020A,SAMP	11	1000	Unknown		10/31/2024 11:24	Finished	SAMP,10 mL
20	N069543-020AMS,M	12	1000	Unknown		10/31/2024 11:33	Finished	MS (1ppb), IWST-240729B,10r
21	N069543-021A,SAMP	13	1000	Unknown		10/31/2024 11:43	Finished	SAMP,10 mL
22	N069543-021AMS,M	14	1000	Unknown		10/31/2024 11:52	Finished	MS (1ppb), IWST-240729B,10r
23	CCV-2,CCV1,1,	15	1000	Unknown		10/31/2024 12:02	Finished	CCV @10ppb, IWST-240729A
24	CCB-2,CCB,1,	16	1000	Unknown		10/31/2024 12:11	Finished	CCB R241001A
25	N069583-003A,SAMP	1	1000	Unknown		10/31/2024 12:22	Finished	SAMP,10 mL
26	N069583-003AMS,M	2	1000	Unknown		10/31/2024 12:33	Finished	MS (1ppb), IWST-240729B,10r
27	N069583-003A,SAMP	3	1000	Unknown		10/31/2024 12:43	Finished	SAMP,2>10 mL
28	N069583-003AMS,M	4	1000	Unknown		10/31/2024 12:52	Finished	MS (1ppb), IWST-240729B,2>
29	N069583-003AMSD,M	5	1000	Unknown		10/31/2024 13:02	Finished	MSD (1ppb), IWST-240729B,2>
30	N069582-002A,SAMP	1	1000	Unknown		10/31/2024 13:52	Finished	SAMP,0.2>10 mL
31	N069582-003A,SAMP	2	1000	Unknown		10/31/2024 14:05	Finished	SAMP,2>10 mL
32	N069582-004A,SAMP	3	1000	Unknown		10/31/2024 14:14	Finished	SAMP,0.2>10 mL
33	N069583-002A,SAMP	4	1000	Unknown		10/31/2024 14:24	Finished	SAMP,10 mL
34	N069583-002AMS,M	5	1000	Unknown		10/31/2024 14:33	Finished	MS (1ppb), IWST-240729B,10r
35	CCV-3,CCV,1,	6	1000	Unknown		10/31/2024 14:43	Finished	CCV @5ppb, IWST-240729A
36	CCB-3,CCB,1,	7	1000	Unknown		10/31/2024 14:52	Finished	CCB R241001A
37	N069583-006A,SAMP	8	1000	Unknown		10/31/2024 15:02	Finished	SAMP,10 mL
38	N069583-006AMS,M	9	1000	Unknown		10/31/2024 15:11	Finished	MS (1ppb), IWST-240729B,10r
39	N069585-001A,SAMP	10	1000	Unknown		10/31/2024 15:21	Finished	SAMP,2>10 mL
40	N069585-001AMS,M	11	1000	Unknown		10/31/2024 15:30	Finished	MS (5ppb), IWST-240729B,2>
41	N069585-001ADUP,D	12	1000	Unknown		10/31/2024 15:39	Finished	DUP,2>10 mL
42	N069582-002A,SAMP	1	1000	Unknown		10/31/2024 16:04	Finished	SAMP,2>10 mL
43	N069582-002AMS,M	2	1000	Unknown		10/31/2024 16:16	Finished	MS (5ppb), IWST-240729B,2>
44	N069582-003AMS,M	3	1000	Unknown		10/31/2024 16:26	Finished	MS (5ppb), IWST-240729B,2>
45	N069582-004AMS,M	4	1000	Unknown		10/31/2024 16:35	Finished	MS (5ppb), IWST-240729B,0.2
46	N069543-019A,SAMP	5	1000	Unknown		10/31/2024 16:44	Finished	SAMP,2>10 mL
47	CCV-4,CCV1,1,	6	1000	Unknown		10/31/2024 16:54	Finished	CCV @10ppb, IWST-240729A
48	CCB-4,CCB,1,	7	1000	Unknown		10/31/2024 17:03	Finished	CCB R241001A
49	N069543-019AMS,M	8	1000	Unknown		10/31/2024 17:13	Finished	MS (1ppb), IWST-240729B,2>
50	N069543-020A,SAMP	9	1000	Unknown		10/31/2024 17:22	Finished	SAMP,2>10 mL
51	N069543-020AMS,M	10	1000	Unknown		10/31/2024 17:32	Finished	MS (1ppb), IWST-240729B,2>
52	N069582-001A,SAMP	11	1000	Unknown		10/31/2024 17:41	Finished	SAMP,10 mL
53	N069582-001AMS,M	12	1000	Unknown		10/31/2024 17:51	Finished	MS (1ppb), IWST-240729B,10r
54	N069583-001A,SAMP	13	1000	Unknown		10/31/2024 18:00	Finished	SAMP,2>10 mL
55	N069583-001AMS,M	14	1000	Unknown		10/31/2024 18:10	Finished	MS (1ppb), IWST-240729B,2>
56	N069583-002A,SAMP	15	1000	Unknown		10/31/2024 18:19	Finished	SAMP,2>10 mL
57	N069583-002AMS,M	16	1000	Unknown		10/31/2024 18:28	Finished	MS (1ppb), IWST-240729B,2>
58	N069583-004A,SAMP	17	1000	Unknown		10/31/2024 18:38	Finished	SAMP,10 mL
59	CCV-5,CCV,1,	18	1000	Unknown		10/31/2024 18:47	Finished	CCV @5ppb, IWST-240729A
60	CCB-5,CCB,1,	19	1000	Unknown		10/31/2024 18:57	Finished	CCB R241001A

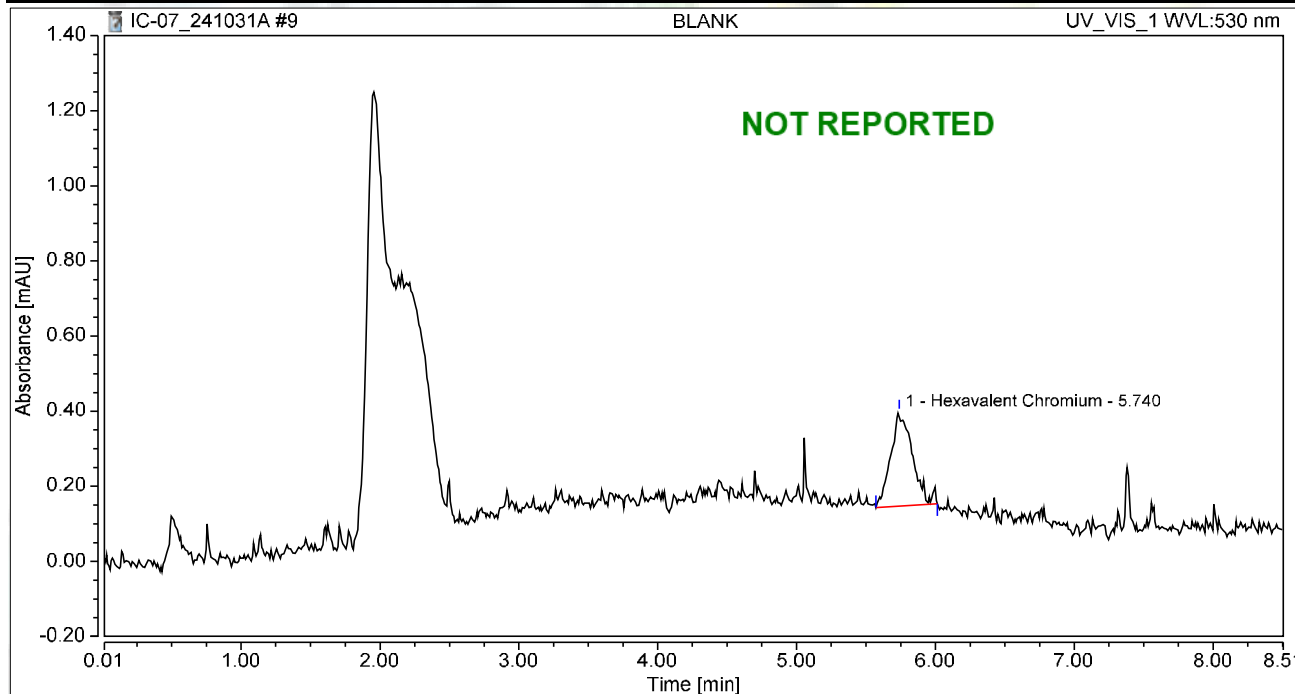
61	N069583-004AMS.M\$	20	1000	Unknown	10/31/2024 19:06	Finished	MS (1ppb), IWST-240729B,10r
62	N069583-004A,SAMP	21	1000	Unknown	10/31/2024 19:16	Finished	SAMP,2>10 mL
63	N069583-004AMS.M\$	22	1000	Unknown	10/31/2024 19:25	Finished	MS (1ppb), IWST-240729B,2>
64	N069583-005A,SAMP	23	1000	Unknown	10/31/2024 19:35	Finished	SAMP,10 mL
65	N069583-005AMS.M\$	24	1000	Unknown	10/31/2024 19:44	Finished	MS (1ppb), IWST-240729B,10r
66	N069583-007A,SAMP	25	1000	Unknown	10/31/2024 19:54	Finished	SAMP,10 mL
67	N069583-007AMS.M\$	26	1000	Unknown	10/31/2024 20:03	Finished	MS (1ppb), IWST-240729B,10r
68	N069583-008A,SAMP	27	1000	Unknown	10/31/2024 20:12	Finished	SAMP,10 mL
69	N069583-008AMS.M\$	28	1000	Unknown	10/31/2024 20:22	Finished	MS (1ppb), IWST-240729B,10r
70	N069583-008A,SAMP	29	1000	Unknown	10/31/2024 20:31	Finished	SAMP,2>10 mL
71	CCV-6,CCV1,1,	30	1000	Unknown	10/31/2024 20:41	Finished	CCV @10ppb, IWST-240729A
72	CCB-6,CCB,1,	31	1000	Unknown	10/31/2024 20:50	Finished	CCB R241001A
73	N069583-008AMS.M\$	32	1000	Unknown	10/31/2024 21:00	Finished	MS (1ppb), IWST-240729B,2>
74	N069583-009A,SAMP	33	1000	Unknown	10/31/2024 21:09	Finished	SAMP,10 mL
75	N069583-009AMS.M\$	34	1000	Unknown	10/31/2024 21:19	Finished	MS (1ppb), IWST-240729B,10r
76	N069583-009A,SAMP	35	1000	Unknown	10/31/2024 21:28	Finished	SAMP,2>10 mL
77	N069583-009AMS.M\$	36	1000	Unknown	10/31/2024 21:38	Finished	MS (1ppb), IWST-240729B,2>
78	N069583-010A,SAMP	37	1000	Unknown	10/31/2024 21:47	Finished	SAMP,10 mL
79	N069583-010AMS.M\$	38	1000	Unknown	10/31/2024 21:56	Finished	MS (1ppb), IWST-240729B,10r
80	N069583-010A,SAMP	39	1000	Unknown	10/31/2024 22:06	Finished	SAMP,2>10 mL
81	N069583-010AMS.M\$	40	1000	Unknown	10/31/2024 22:15	Finished	MS (1ppb), IWST-240729B,2>
82	N069583-011A,SAMP	41	1000	Unknown	10/31/2024 22:25	Finished	SAMP,10 mL
83	CCV-7,CCV,1,	42	1000	Unknown	10/31/2024 22:34	Finished	CCV @5ppb, IWST-240729A
84	CCB-7,CCB,1,	43	1000	Unknown	10/31/2024 22:44	Finished	CCB R241001A
85	N069583-011AMS.M\$	44	1000	Unknown	10/31/2024 22:53	Finished	MS (1ppb), IWST-240729B,10r
86	CCV-8,CCV1,1,	45	1000	Unknown	10/31/2024 23:03	Finished	CCV @10ppb, IWST-240729A
87	CCB-8,CCB,1,	46	1000	Unknown	10/31/2024 23:12	Finished	CCB R241001A
88	BLANK	47	1000	Unknown	10/31/2024 23:22	Finished	BLANK
89	SHUTDOWN	48	1000	Unknown	10/31/2024 23:31	Finished	
90	Eluent: R241029A	49	1000	Unknown	n.a.	Finished	
91	PCR: R241029B	50	1000	Unknown	n.a.	Finished	

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 09:46	Sample Weight:	1.0000

Chromatogram



Integration Results

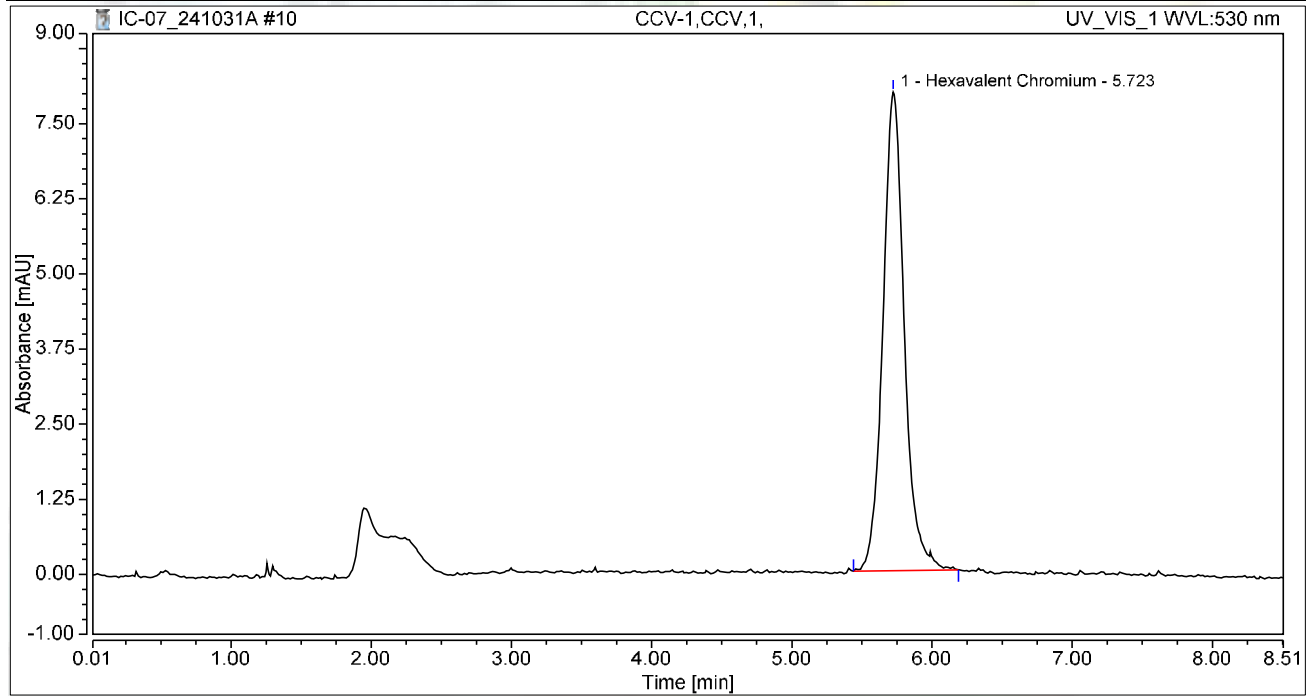
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	0.045	0.251	100.00	100.00	0.1599
Total:			0.045	0.251	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-1,CCV,1,	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 09:59	Sample Weight:	1.0000

Chromatogram



Integration Results

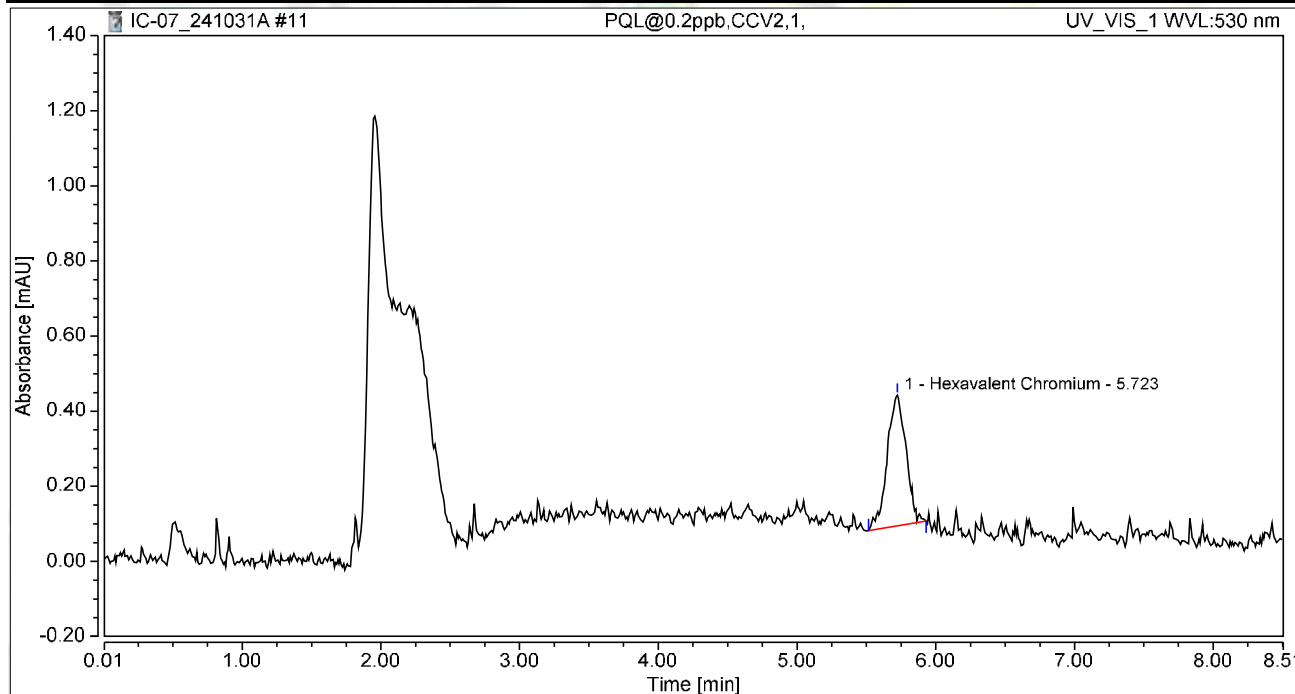
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	1.404	7.967	100.00	100.00	4.9477
Total:			1.404	7.967	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 10:08	Sample Weight:	1.0000

Chromatogram



Integration Results

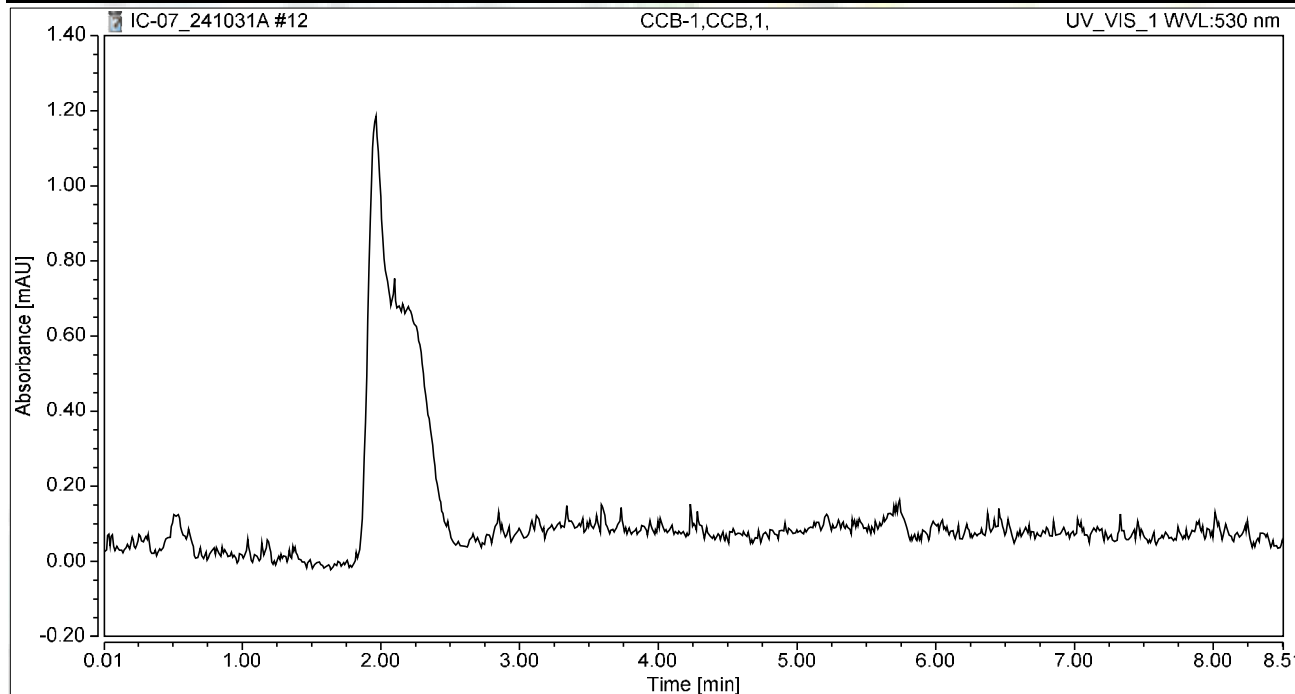
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.055	0.348	100.00	100.00	0.1930
Total:			0.055	0.348	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-1,CCB,1,	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 10:18	Sample Weight:	1.0000

Chromatogram



Integration Results

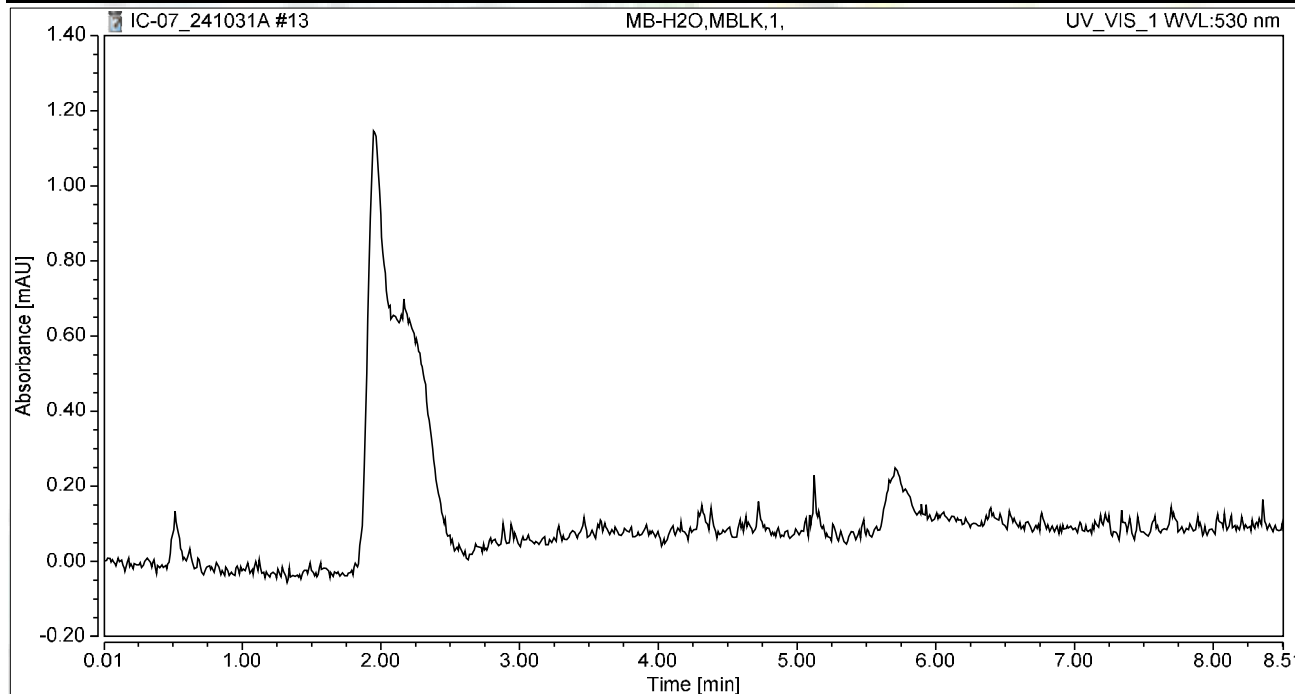
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 10:27	Sample Weight:	1.0000

Chromatogram



Integration Results

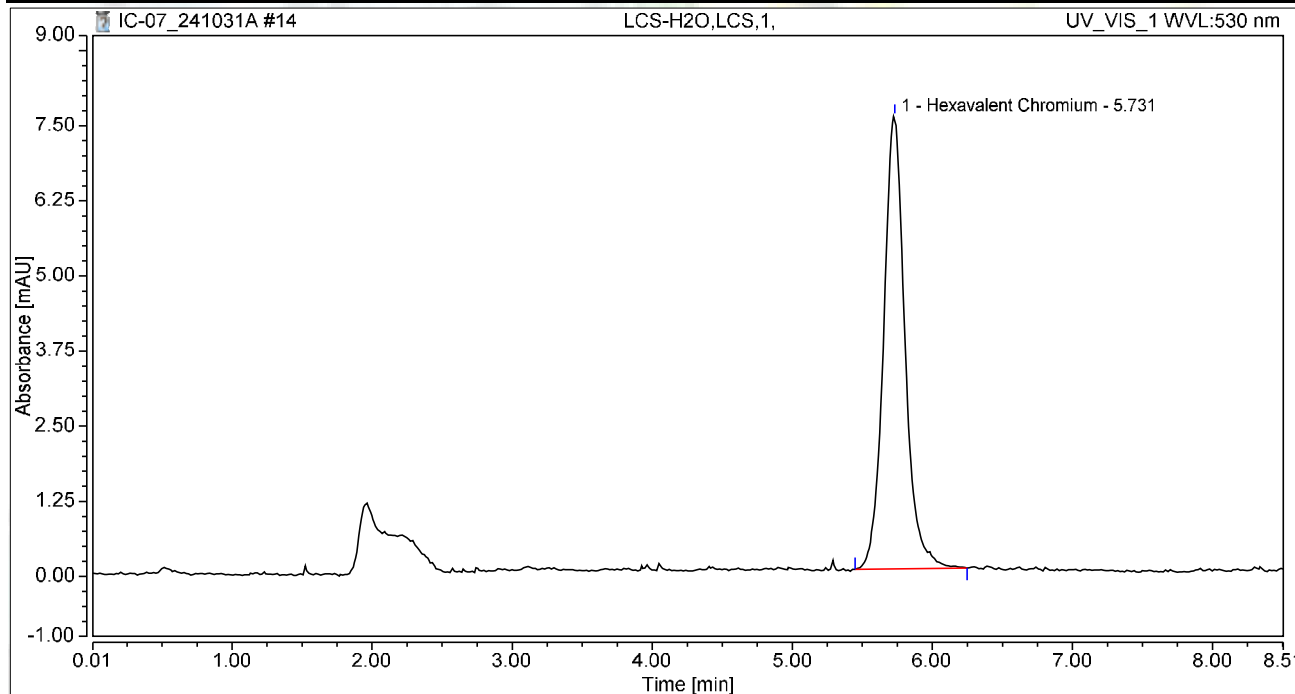
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-H2O,LCS,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 10:37	Sample Weight:	1.0000

Chromatogram



Integration Results

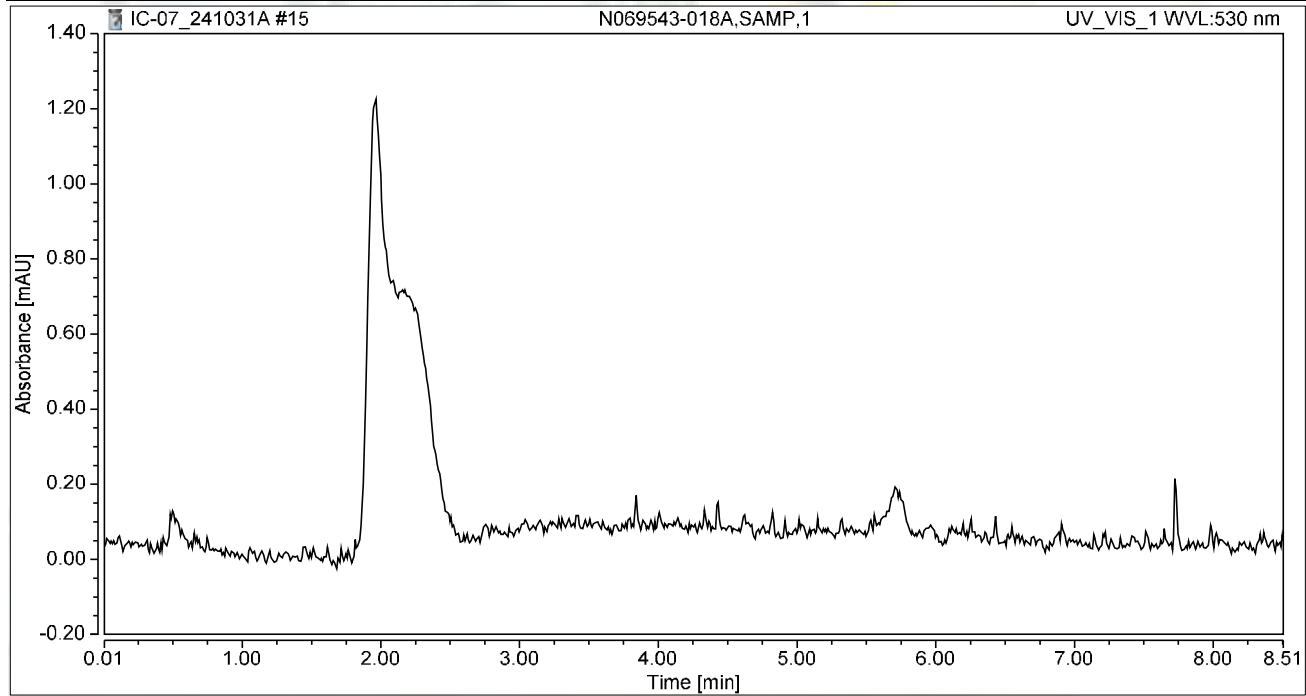
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	1.338	7.532	100.00	100.00	4.7137
Total:			1.338	7.532	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-018A,SAMP,1	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 10:46	Sample Weight:	1.0000

Chromatogram



Integration Results

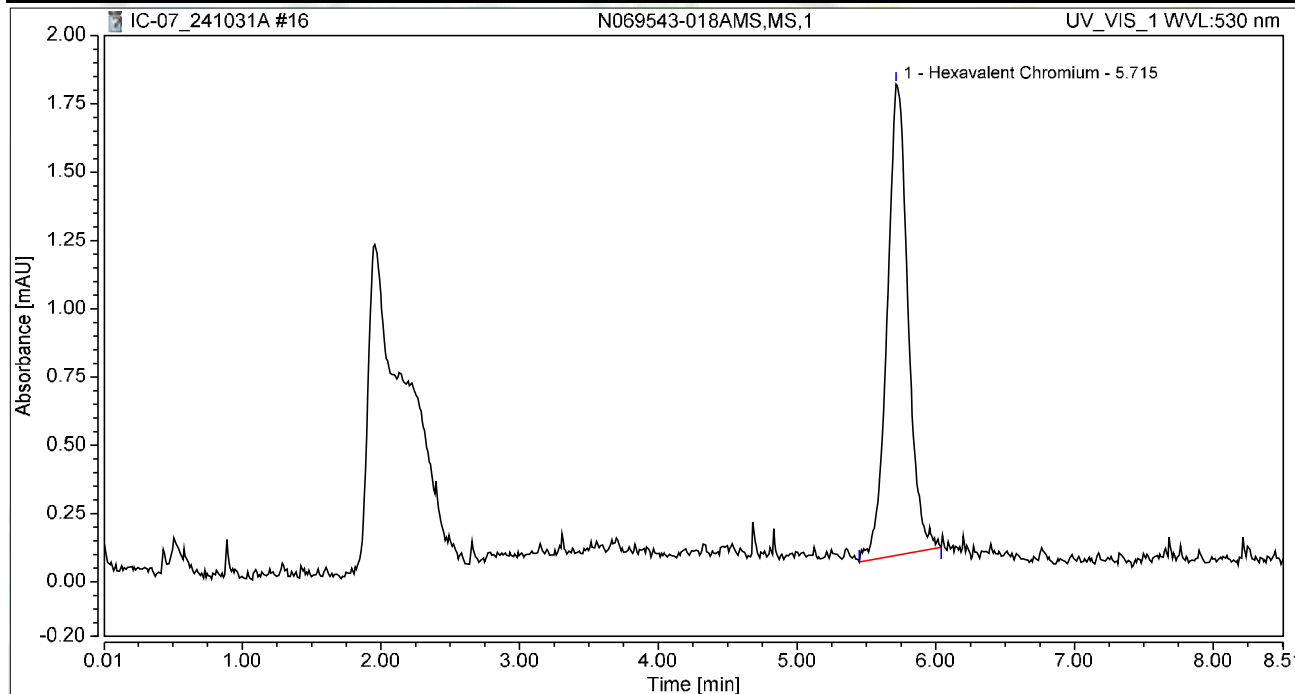
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-018AMS,MS,1	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 10:56	Sample Weight:	1.0000

Chromatogram



Integration Results

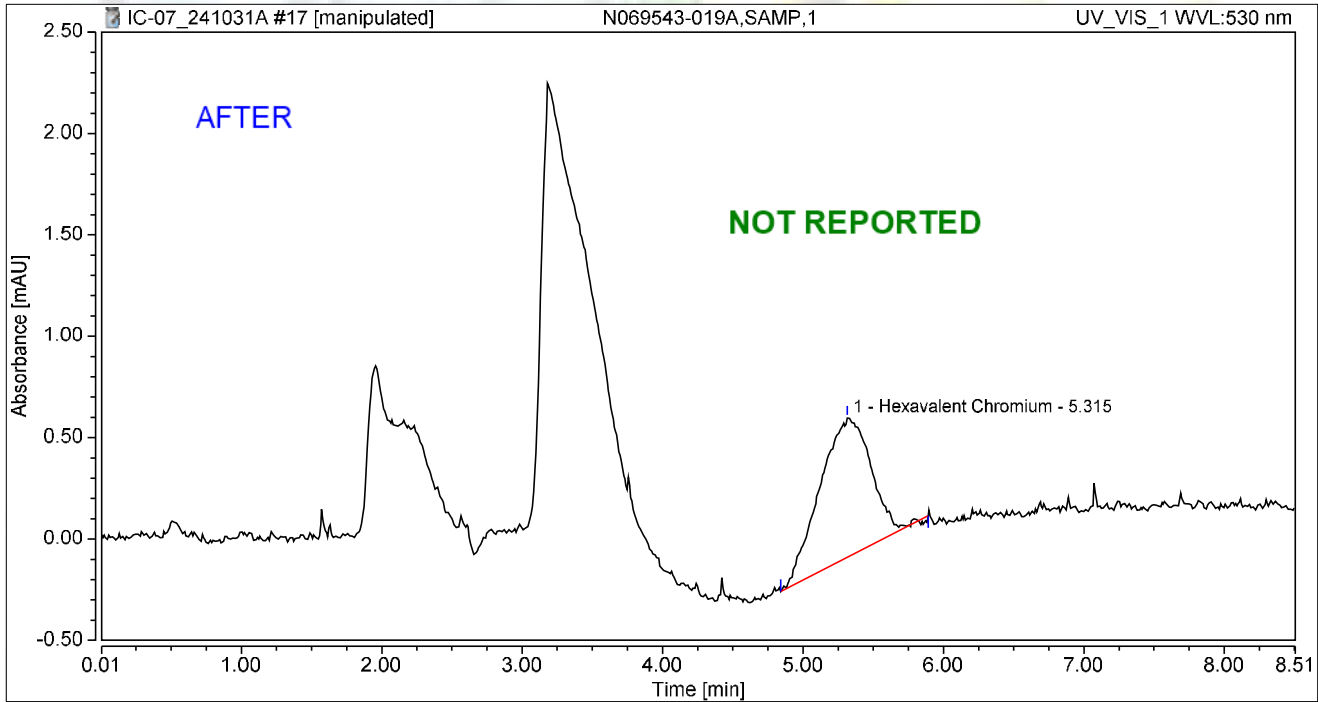
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.300	1.726	100.00	100.00	1.0574
Total:			0.300	1.726	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-019A,SAMP,1	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 11:05	Sample Weight:	1.0000

Chromatogram



Integration Results

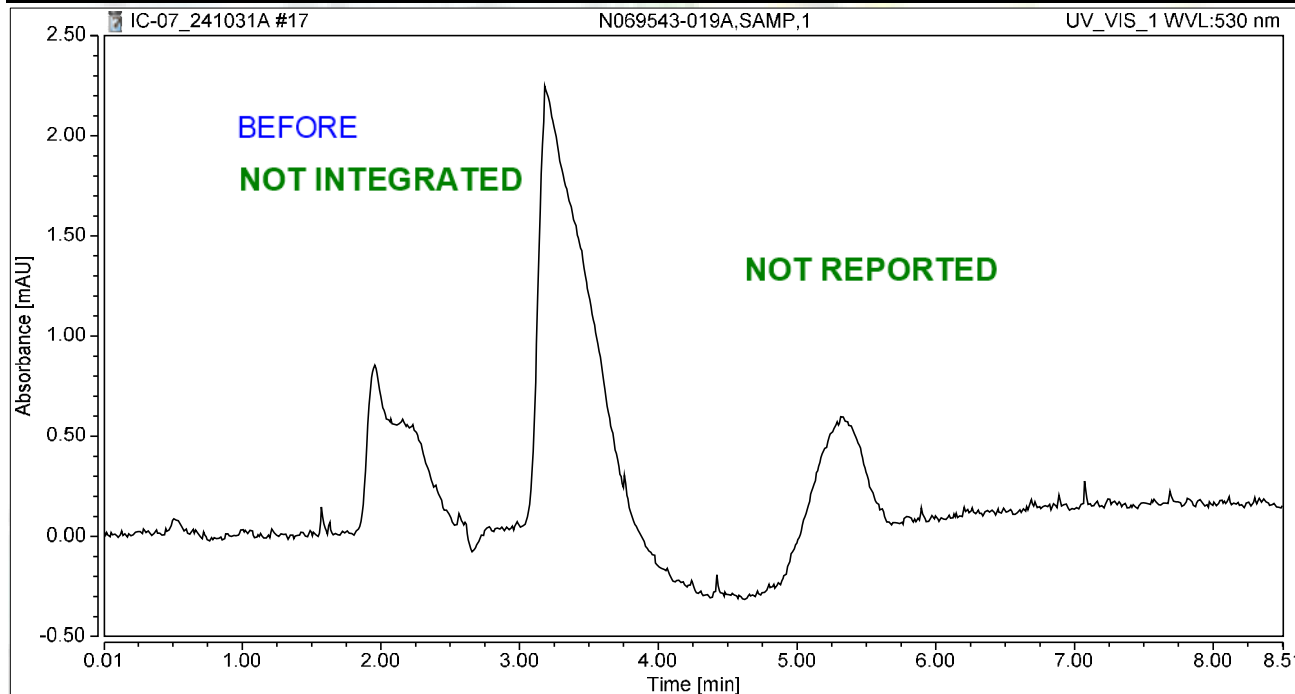
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.315	0.289	0.688	100.00	100.00	1.0184
Total:			0.289	0.688	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-019A,SAMP,1	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 11:05	Sample Weight:	1.0000

Chromatogram



Integration Results

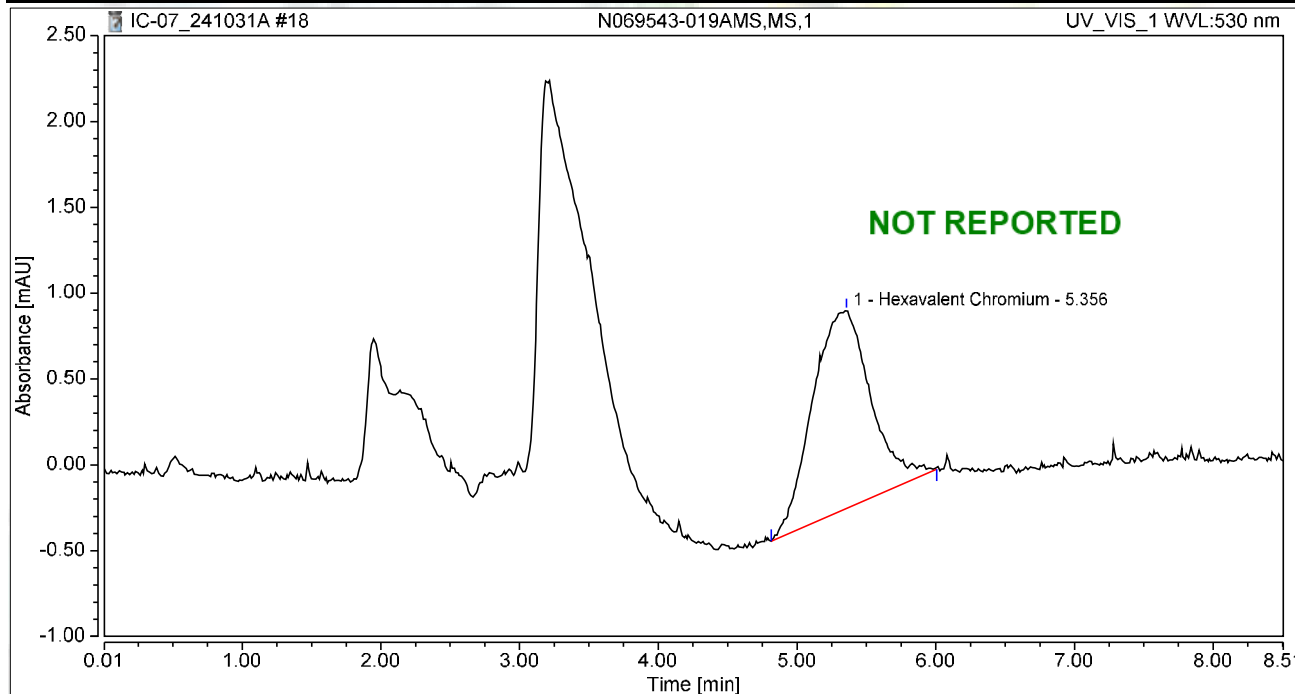
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-019AMS,MS,1	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 11:15	Sample Weight:	1.0000

Chromatogram



Integration Results

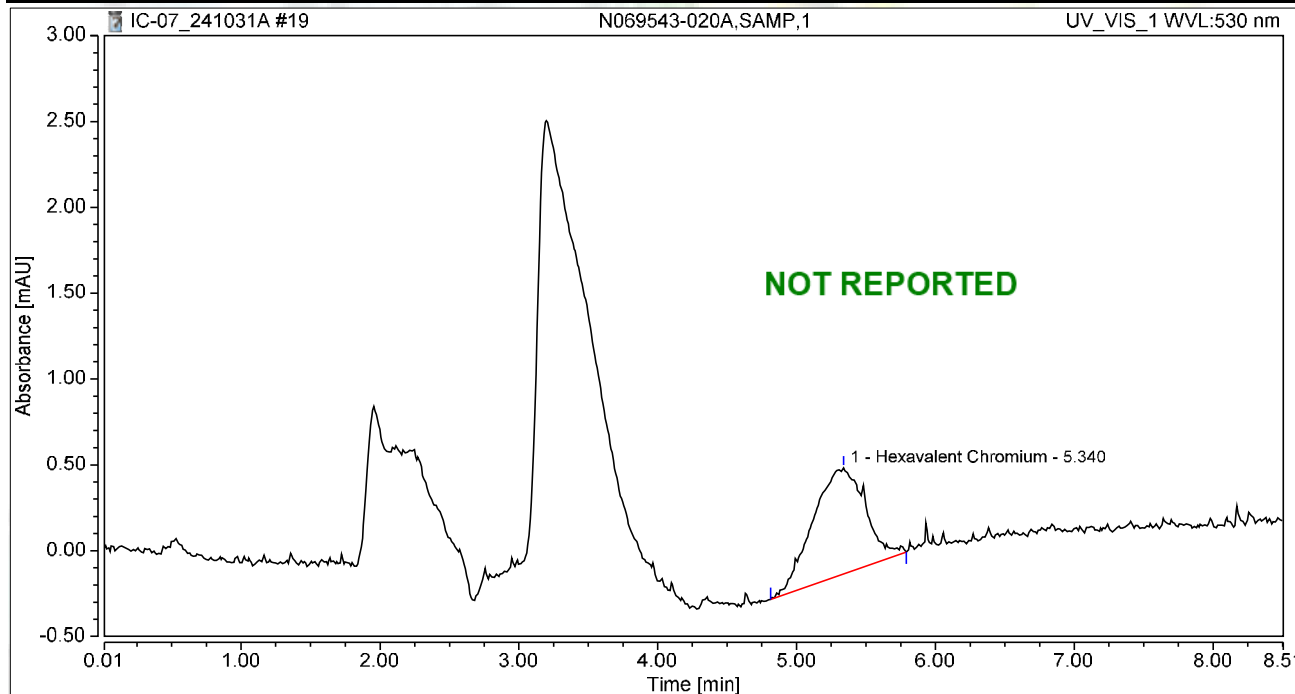
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.356	0.567	1.153	100.00	100.00	1.9972
Total:			0.567	1.153	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-020A,SAMP,1	Run Time (min):	8.49
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 11:24	Sample Weight:	1.0000

Chromatogram



Integration Results

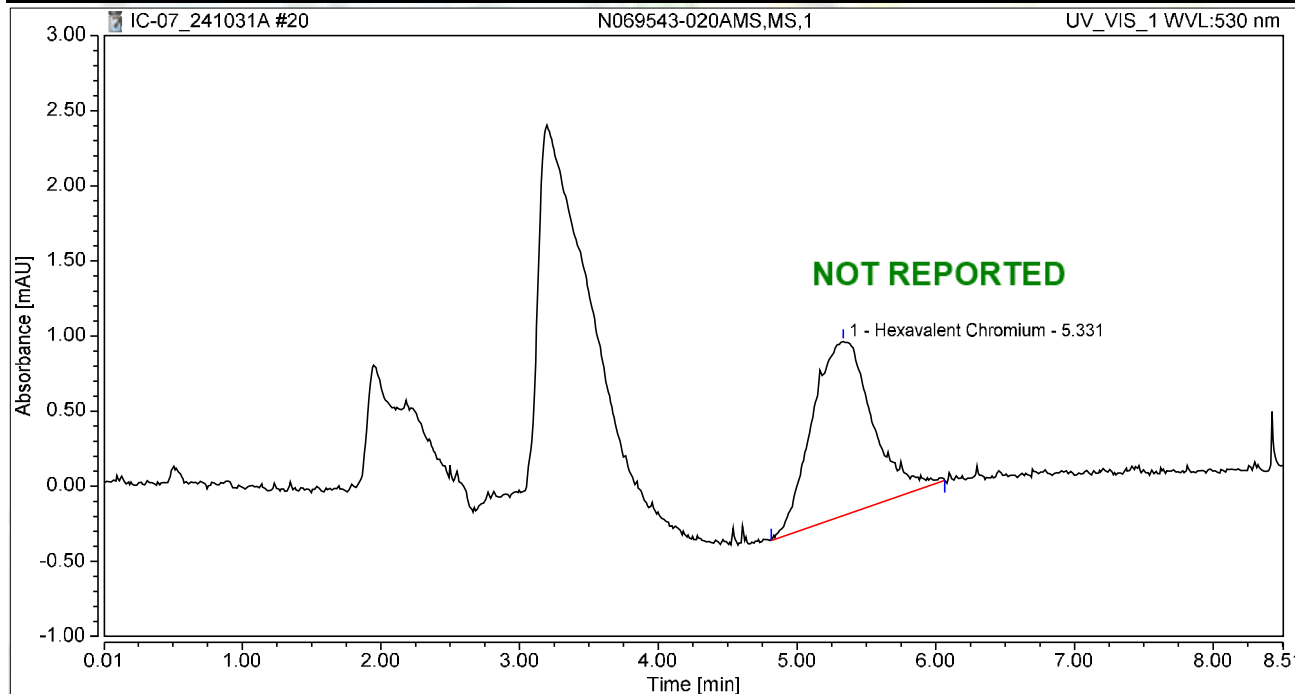
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.340	0.273	0.618	100.00	100.00	0.9625
Total:			0.273	0.618	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-020AMS,MS,1	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 11:33	Sample Weight:	1.0000

Chromatogram



Integration Results

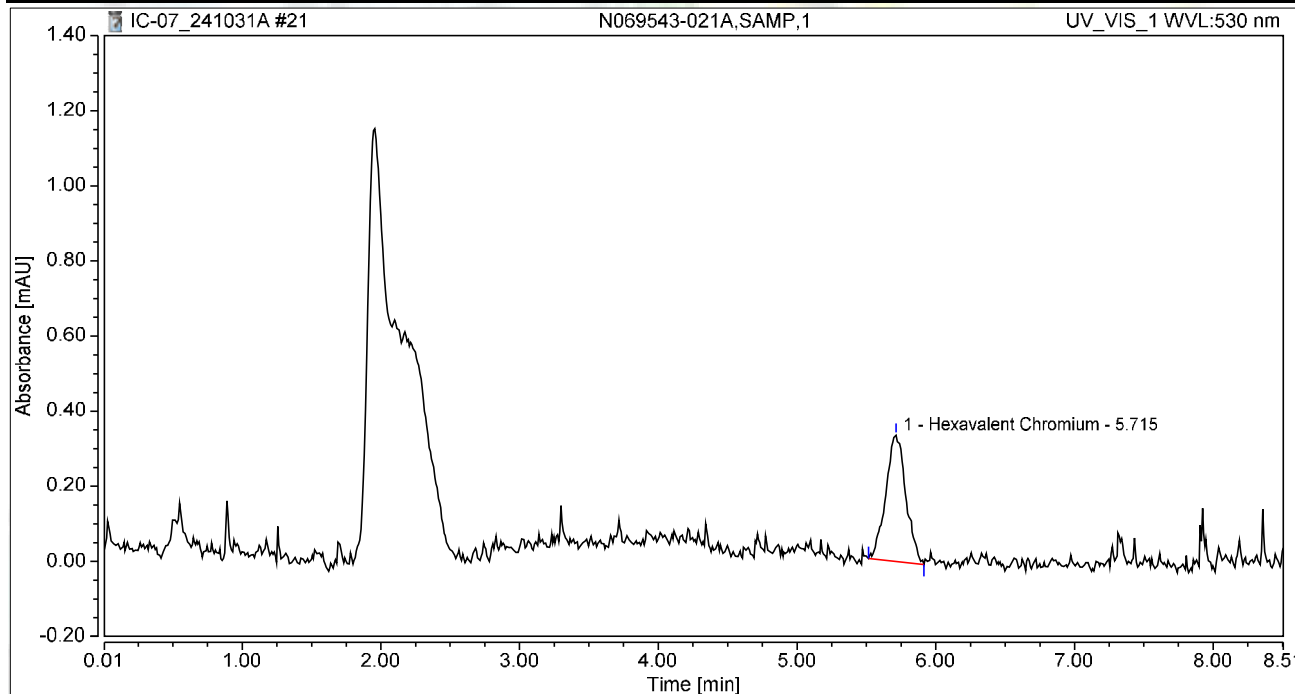
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.331	0.587	1.160	100.00	100.00	2.0685
Total:			0.587	1.160	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-021A,SAMP,1	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 11:43	Sample Weight:	1.0000

Chromatogram



Integration Results

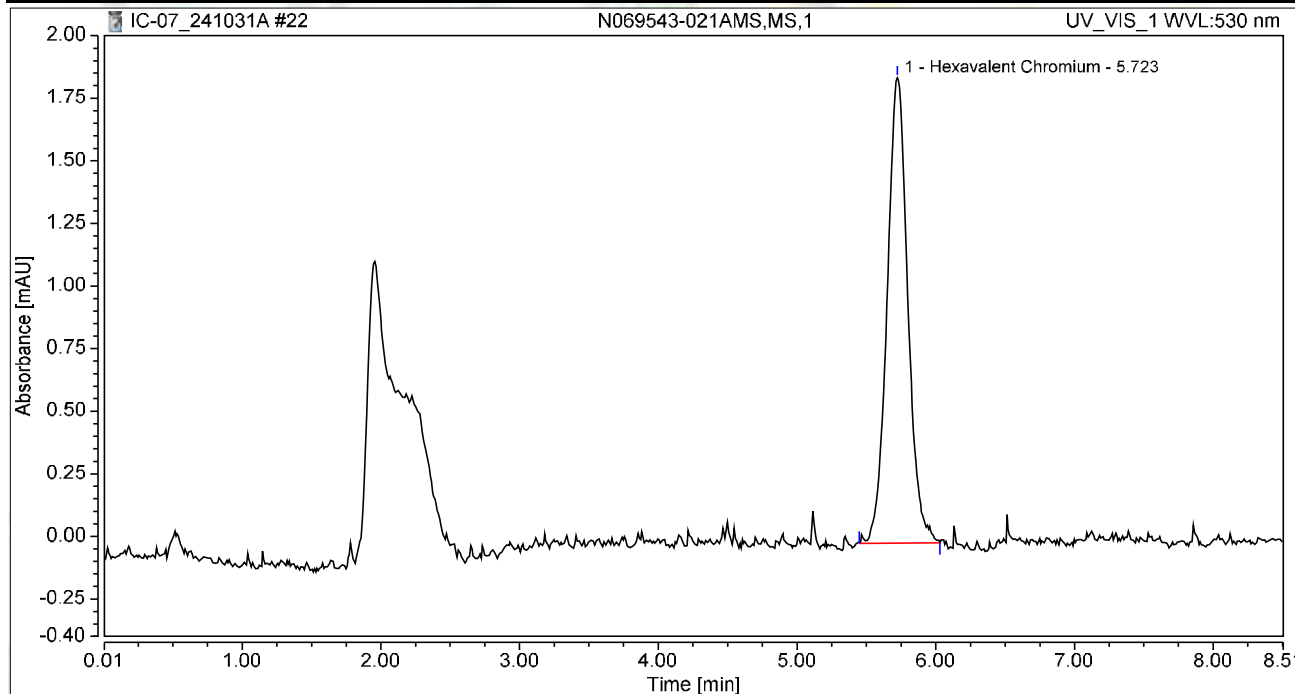
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.057	0.336	100.00	100.00	0.1996
Total:			0.057	0.336	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-021AMS,MS,1	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 11:52	Sample Weight:	1.0000

Chromatogram



Integration Results

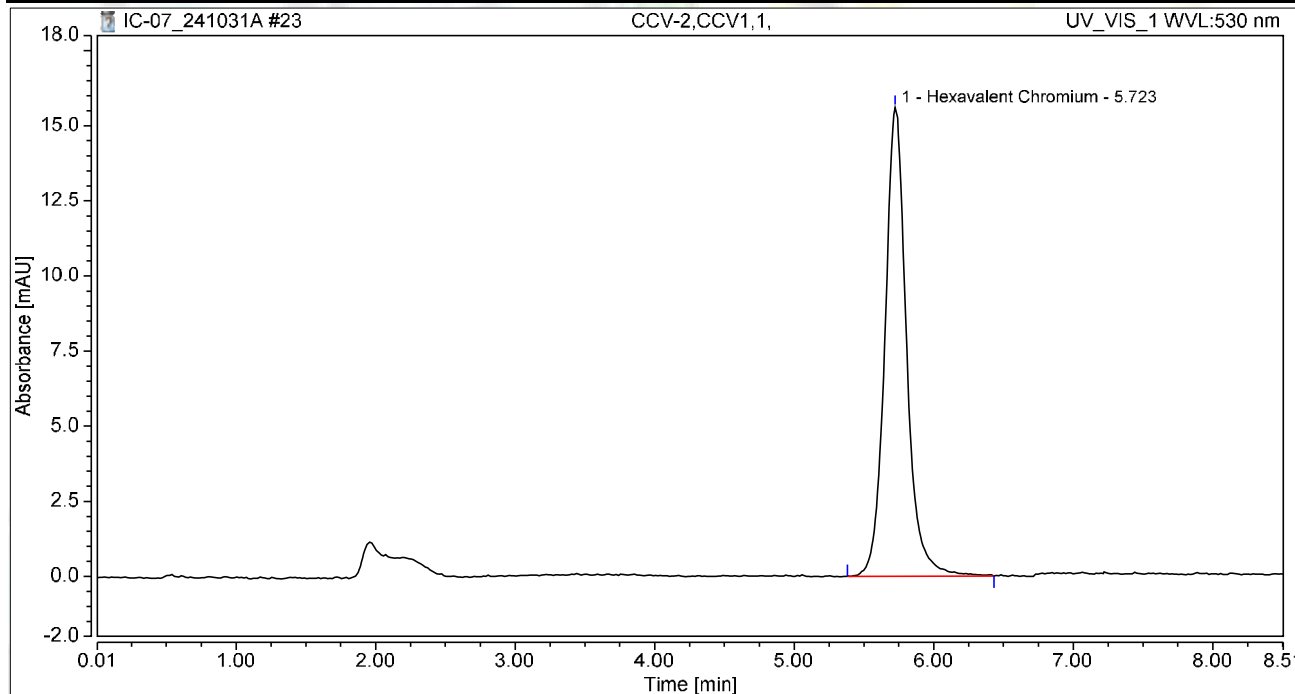
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.321	1.858	100.00	100.00	1.1321
Total:			0.321	1.858	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-2,CCV1,1,	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 12:02	Sample Weight:	1.0000

Chromatogram



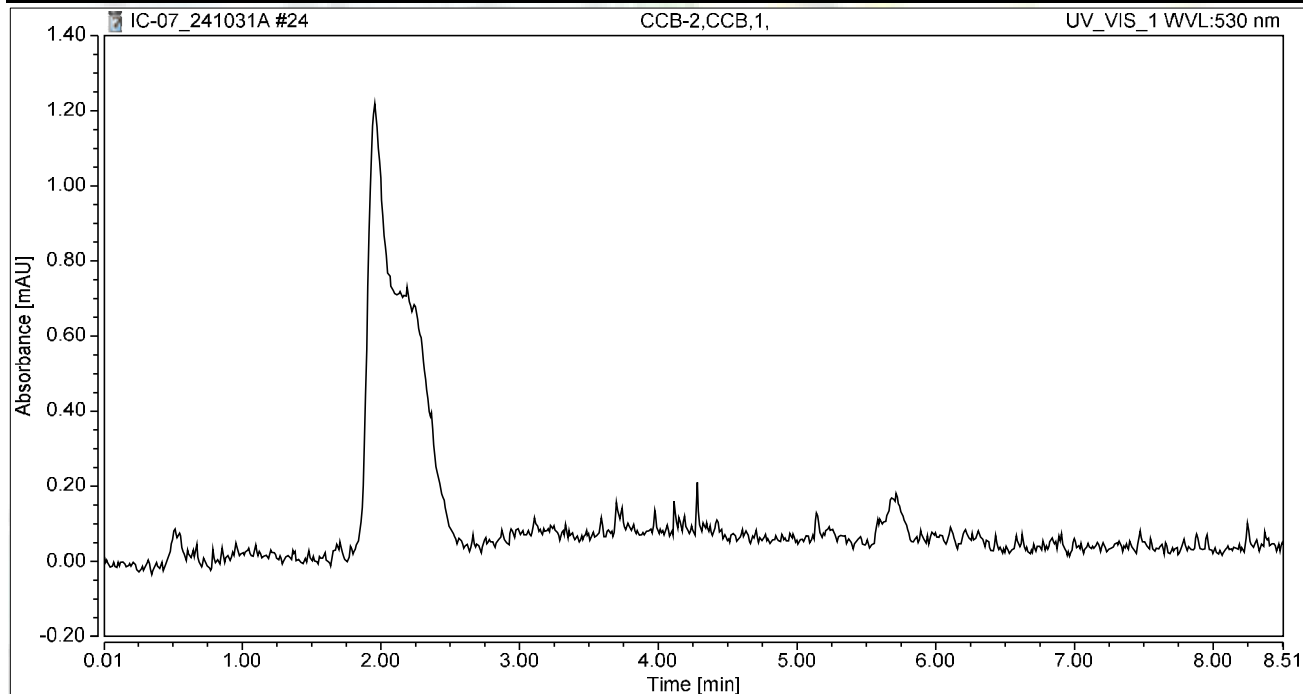
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	2.804	15.603	100.00	100.00	9.8821
Total:			2.804	15.603	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	CCB-2,CCB,1,	Run Time (min): 8.50
Vial Number:	16	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	31/Oct/24 12:11	Sample Weight: 1.0000

Chromatogram



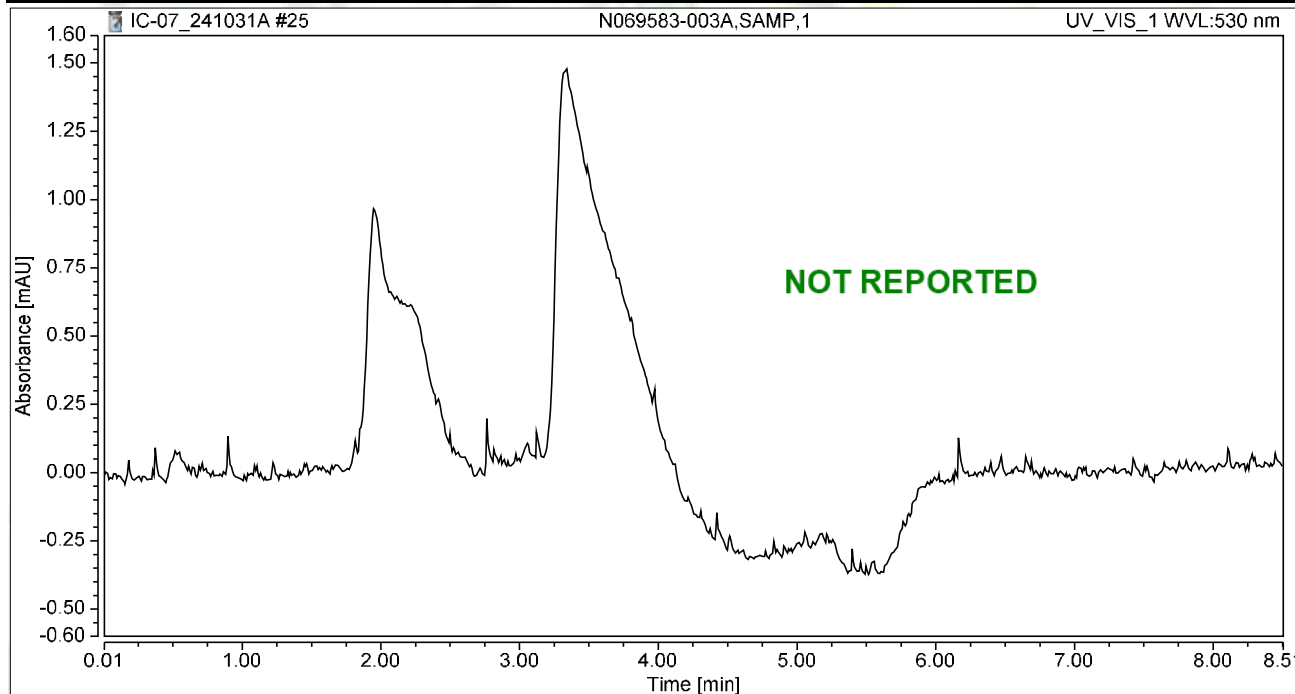
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 12:22	Sample Weight:	1.0000

Chromatogram



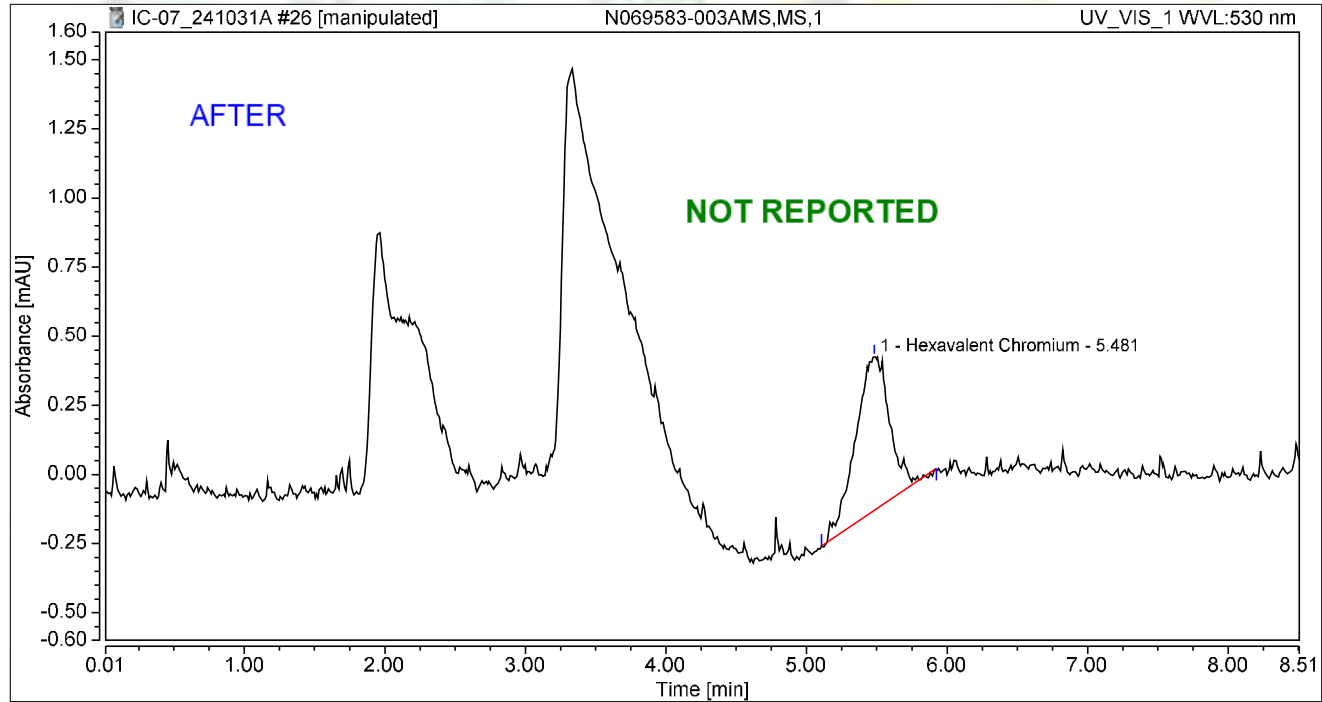
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069583-003AMS,MS,1	Run Time (min): 8.49
Vial Number:	2	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	31/Oct/24 12:33	Sample Weight: 1.0000

Chromatogram



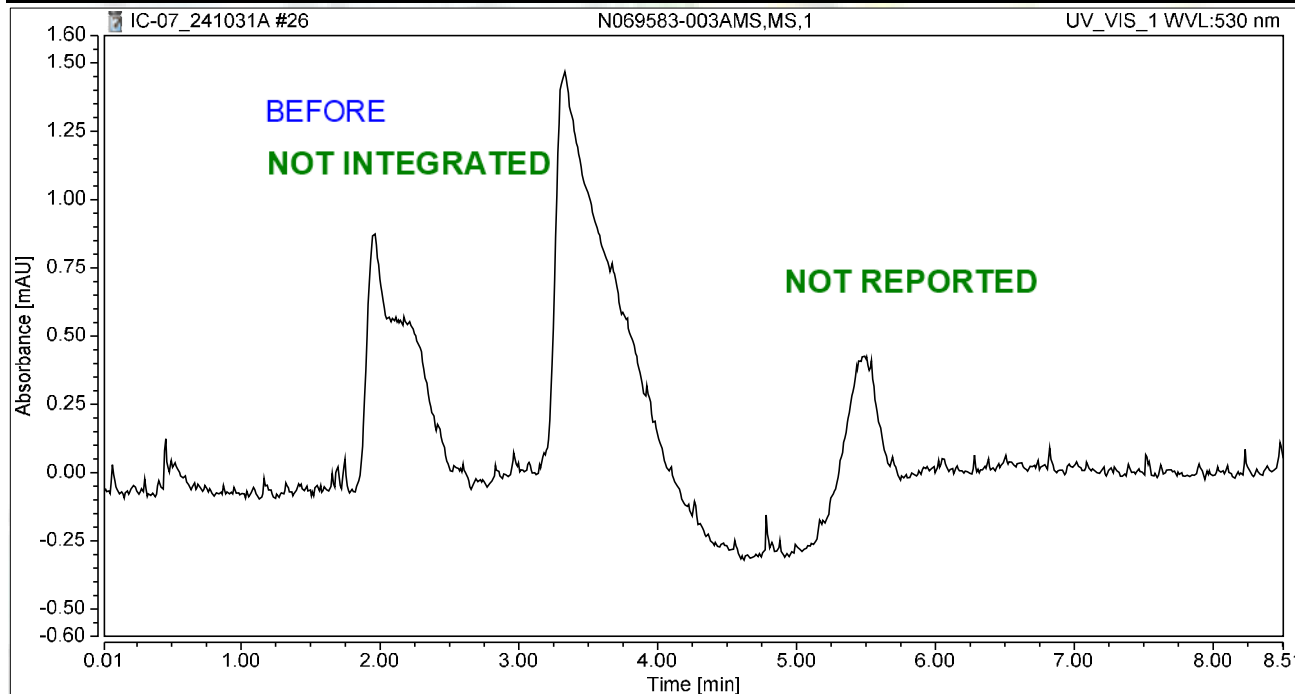
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.481	0.155	0.556	100.00	100.00	0.5470
Total:			0.155	0.556	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-003AMS,MS,1	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 12:33	Sample Weight:	1.0000

Chromatogram



Integration Results

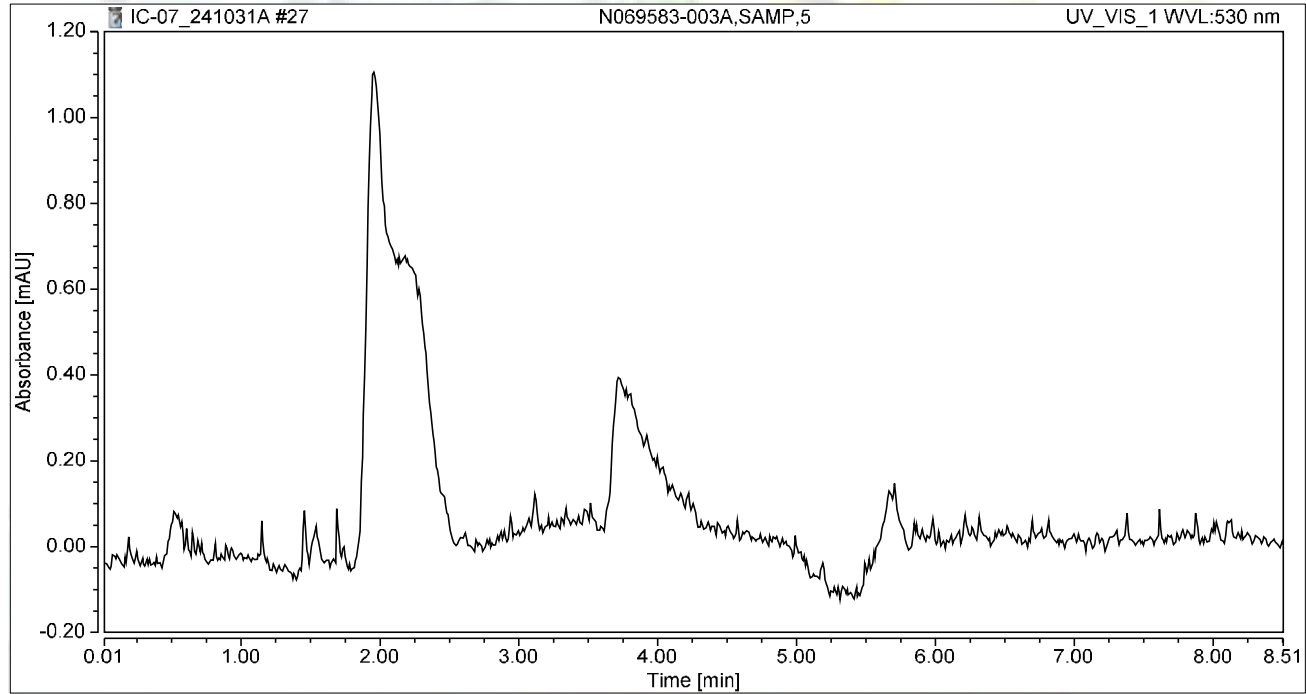
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-003A,SAMP,5	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 12:43	Sample Weight:	1.0000

Chromatogram



Integration Results

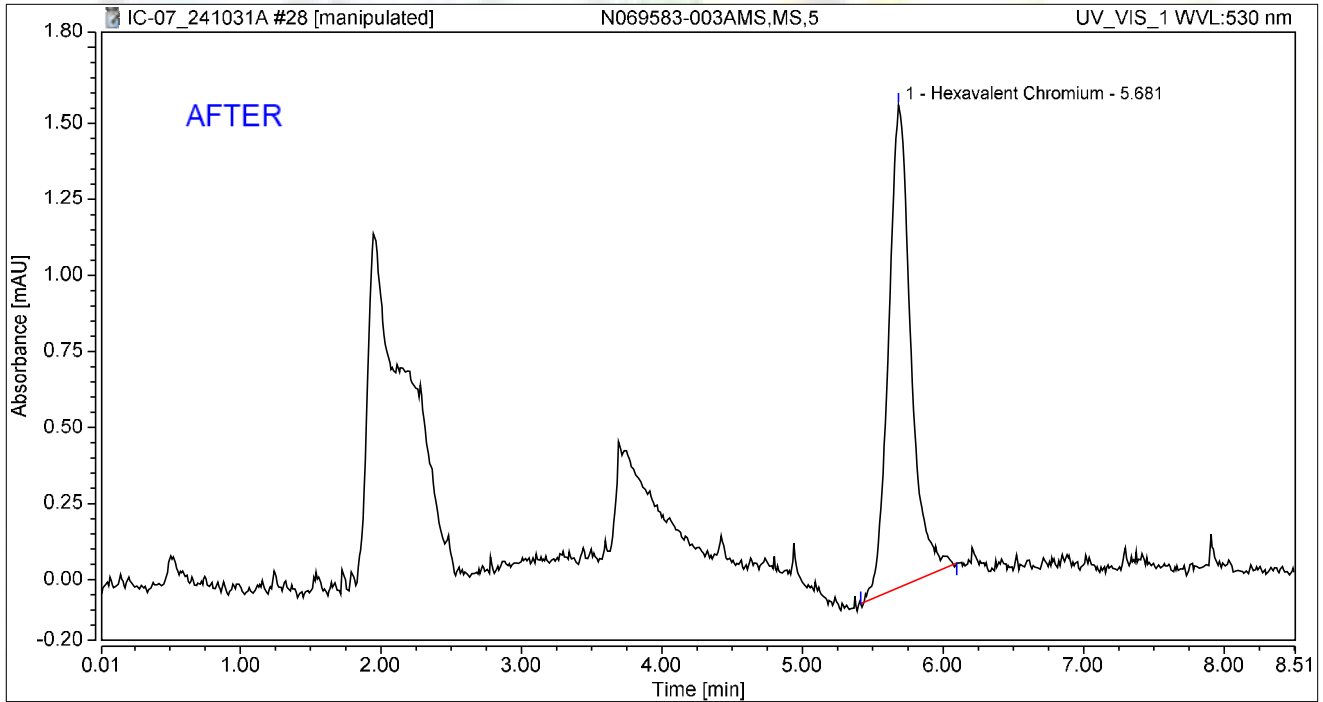
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-003AMS,MS,5	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 12:52	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.292	1.587	100.00	100.00	1.0289
Total:			0.292	1.587	100.00	100.00	

Reviewed by:

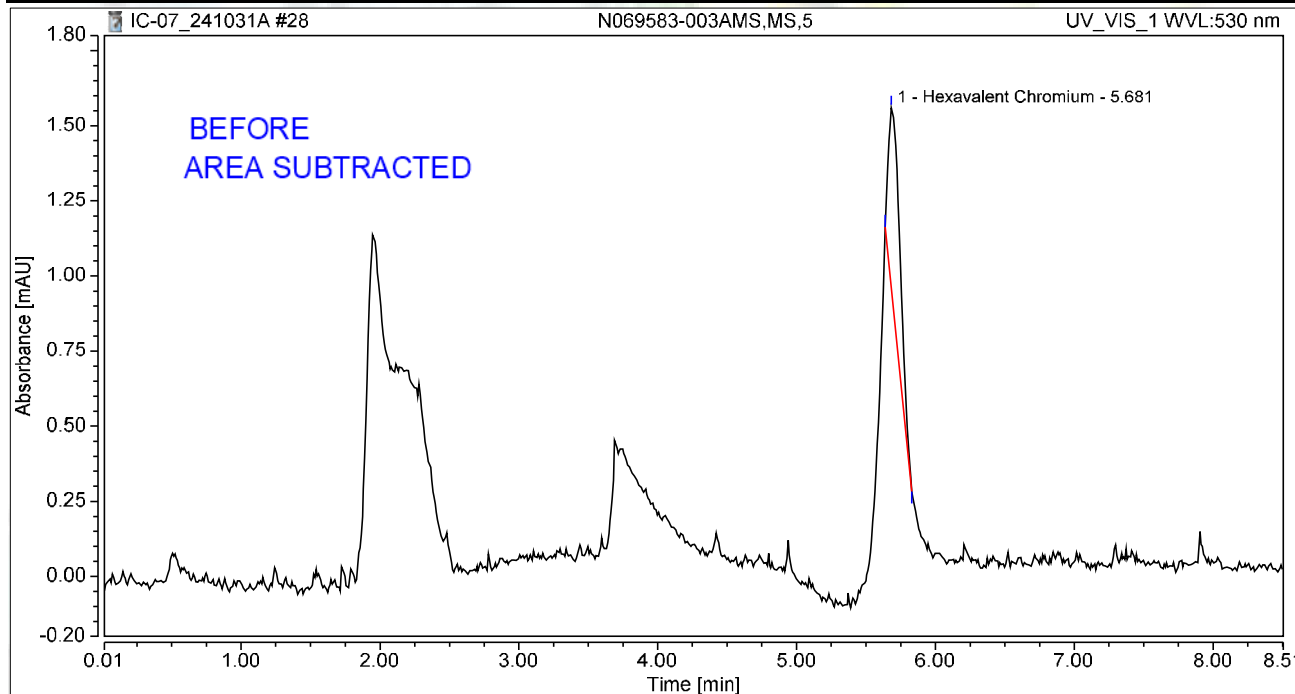
M. Rocha 11/13/2024

Chromatogram and Results

Injection Details

Injection Name:	N069583-003AMS,MS,5	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 12:52	Sample Weight:	1.0000

Chromatogram



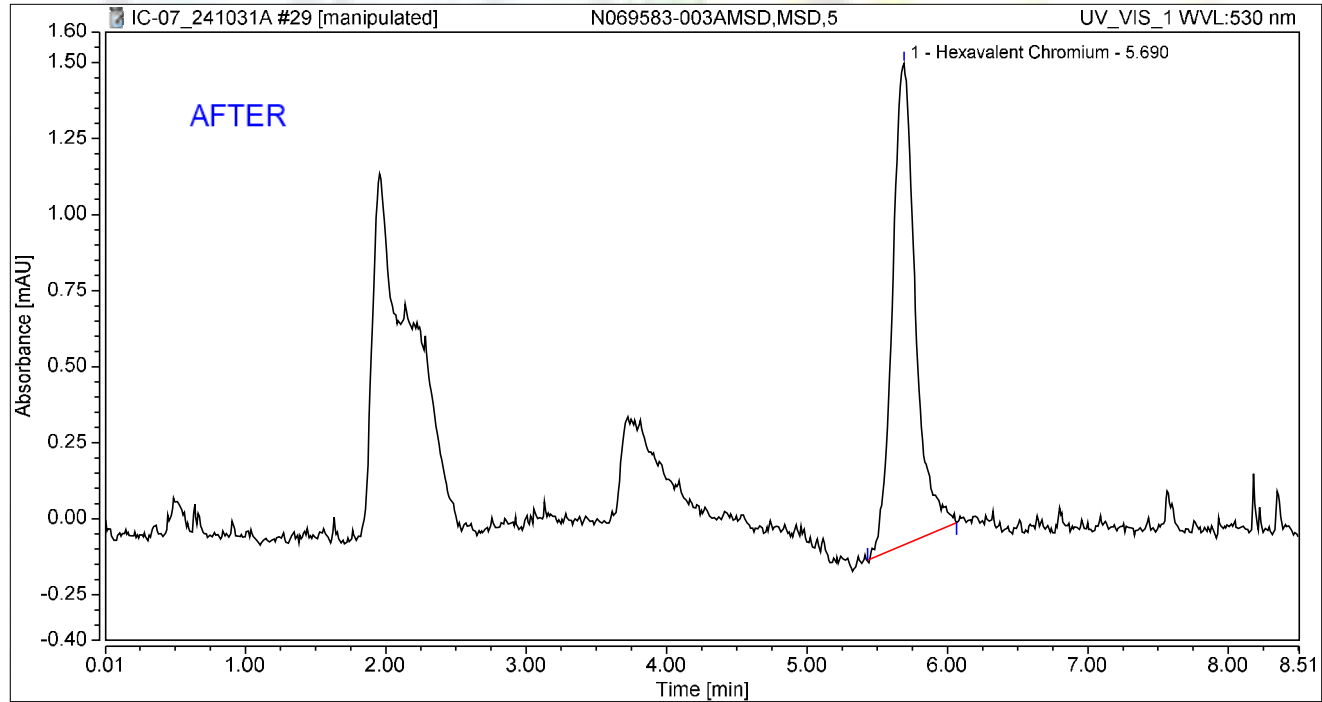
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.061	0.589	100.00	100.00	0.2164
Total:			0.061	0.589	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069583-003AMSD,MSD,5	Run Time (min): 8.50
Vial Number:	5	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	31/Oct/24 13:02	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.300	1.582	100.00	100.00	1.0565
Total:			0.300	1.582	100.00	100.00	

Reviewed by:

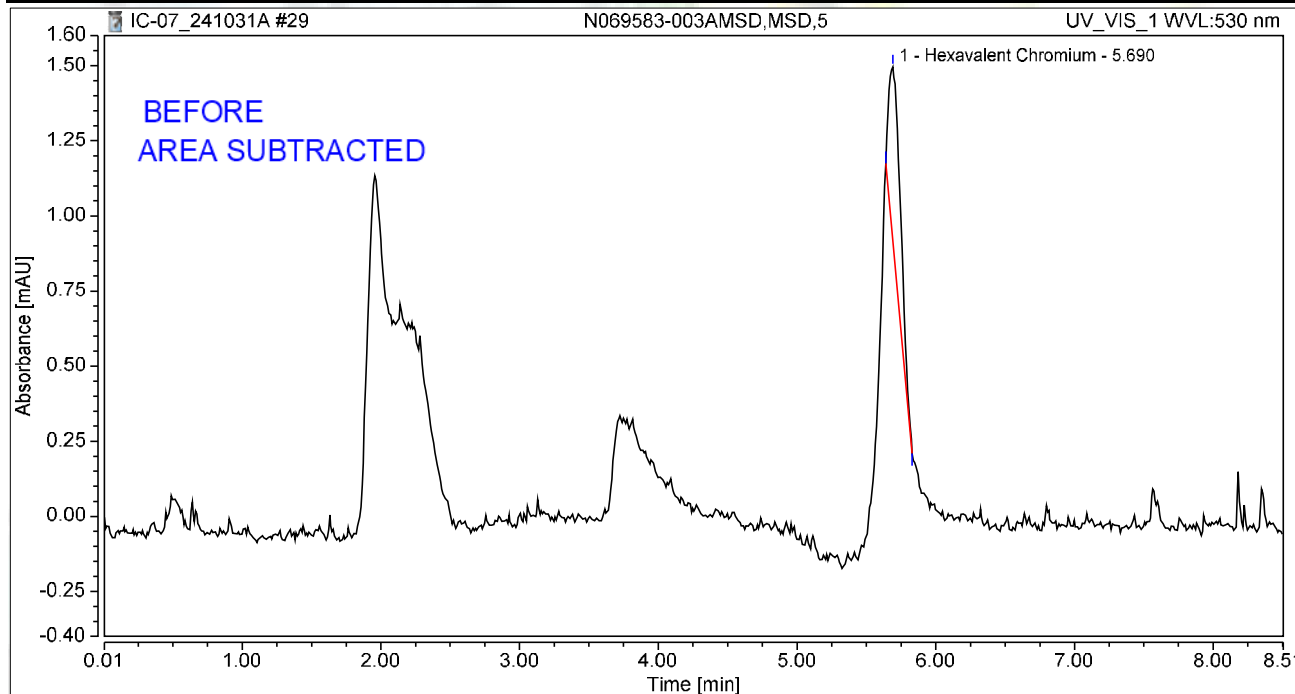
MRecha 11/13/2024

Chromatogram and Results

Injection Details

Injection Name:	N069583-003AMSD,MSD,5	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 13:02	Sample Weight:	1.0000

Chromatogram



Integration Results

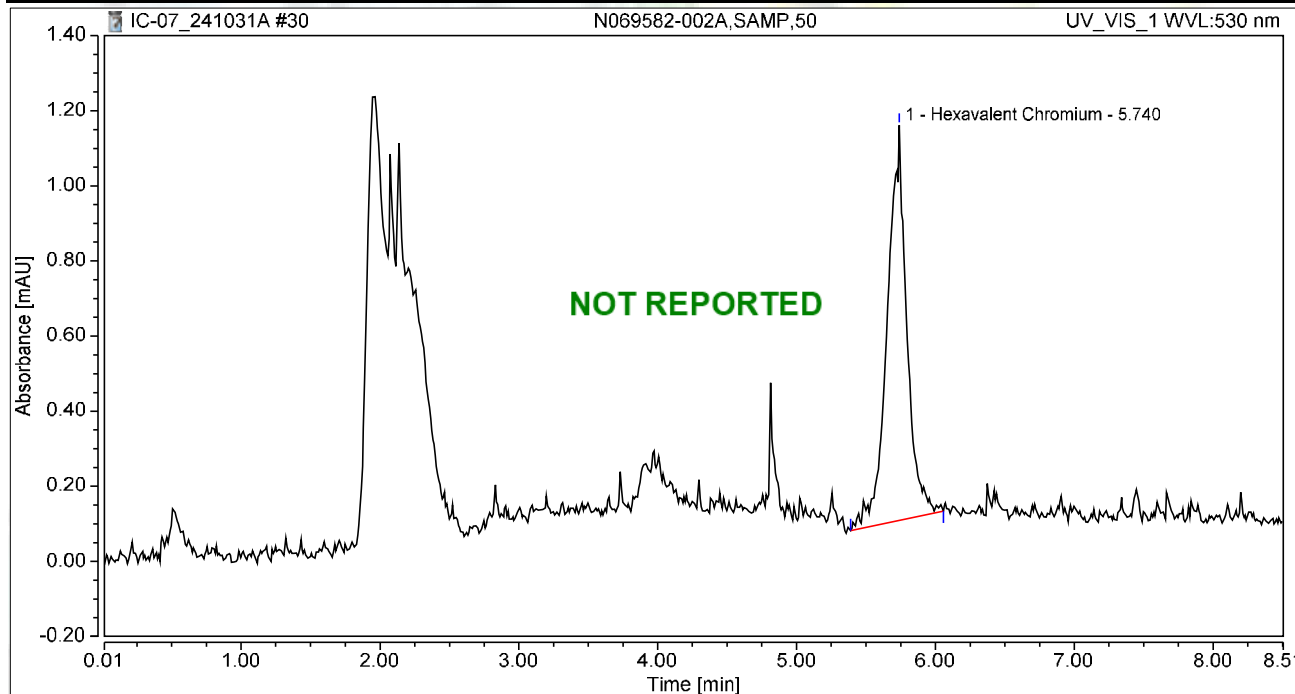
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.057	0.574	100.00	100.00	0.2025
Total:			0.057	0.574	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-002A,SAMP,50	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 13:52	Sample Weight:	1.0000

Chromatogram



Integration Results

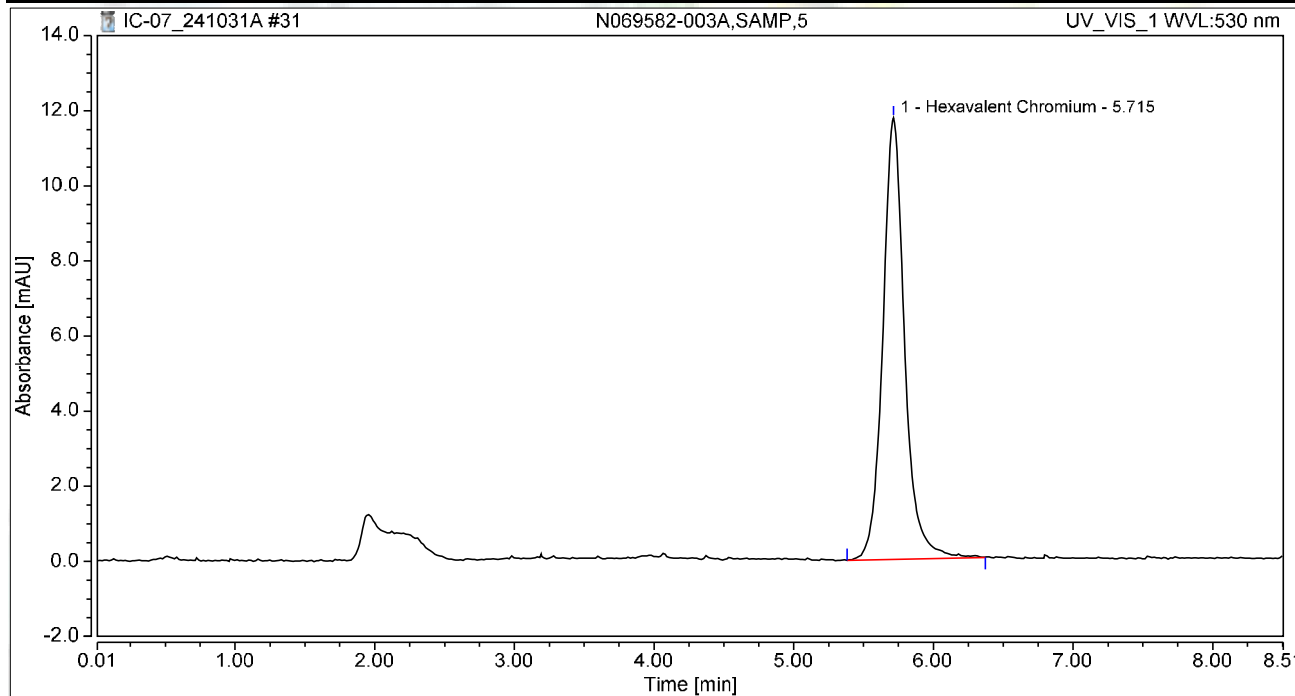
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	0.171	1.052	100.00	100.00	0.6034
Total:			0.171	1.052	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-003A,SAMP,5	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 14:05	Sample Weight:	1.0000

Chromatogram



Integration Results

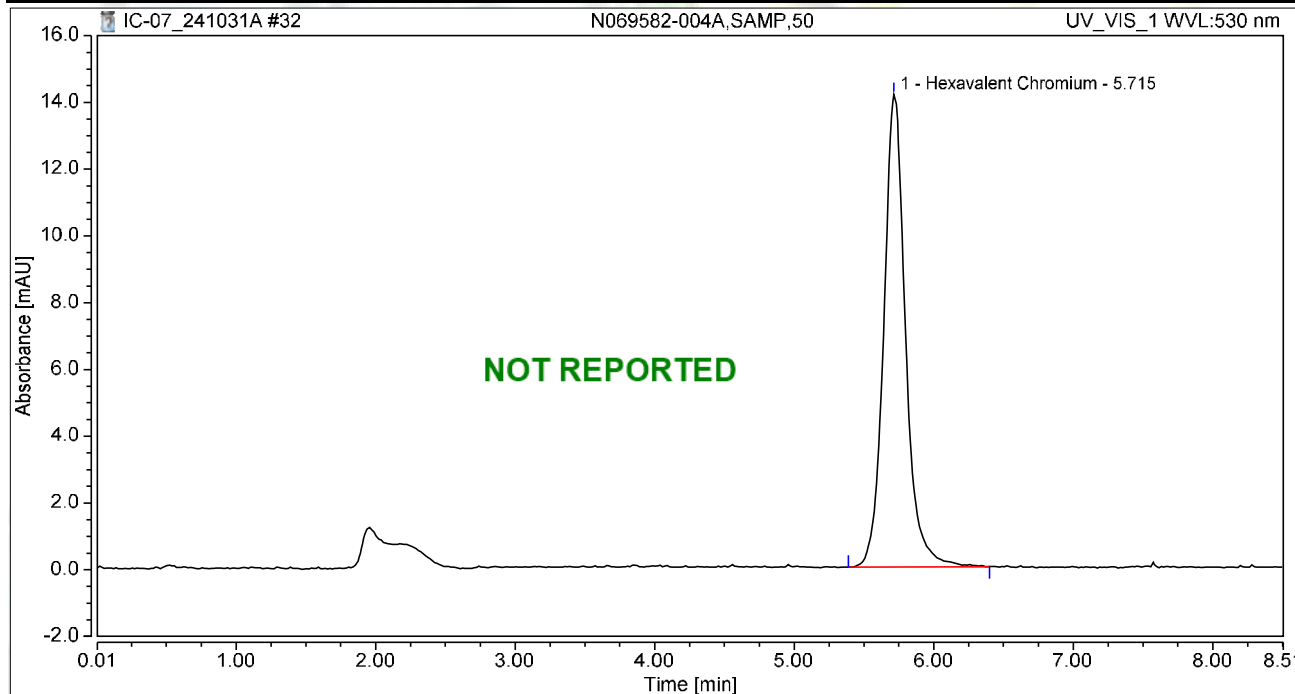
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.133	11.753	100.00	100.00	7.5182
Total:			2.133	11.753	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-004A,SAMP,50	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 14:14	Sample Weight:	1.0000

Chromatogram



Integration Results

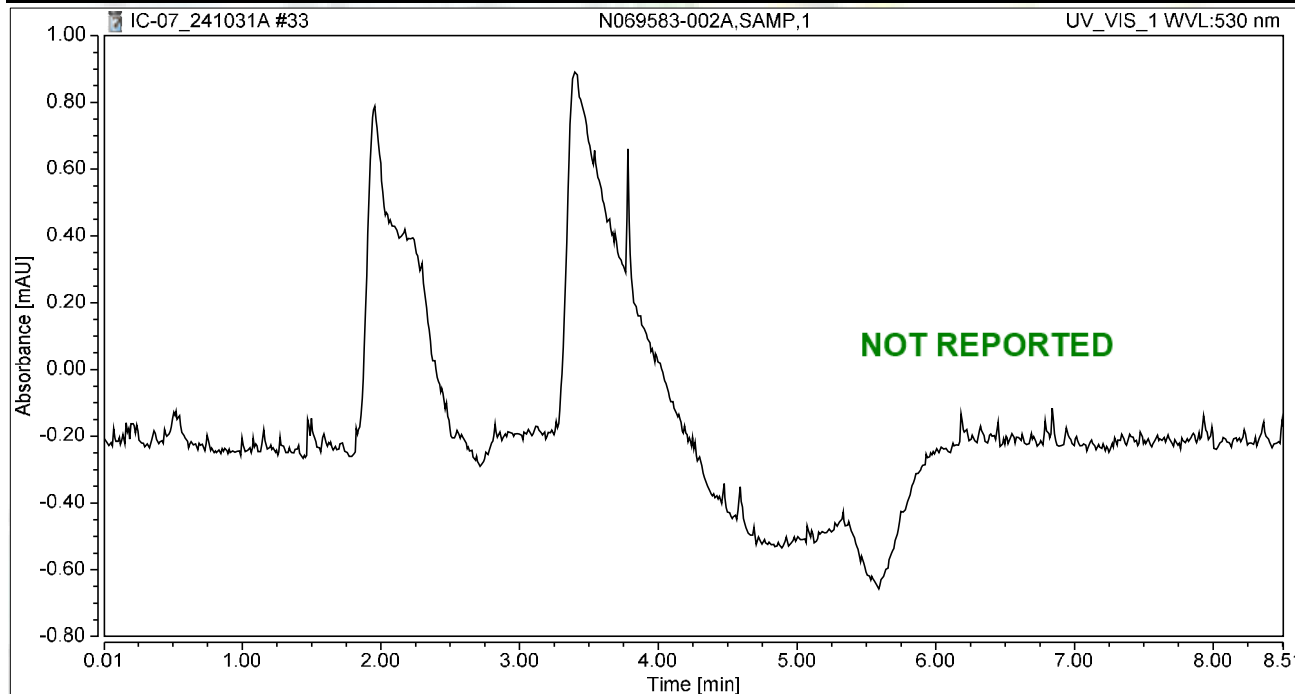
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.555	14.157	100.00	100.00	9.0038
Total:			2.555	14.157	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 14:24	Sample Weight:	1.0000

Chromatogram



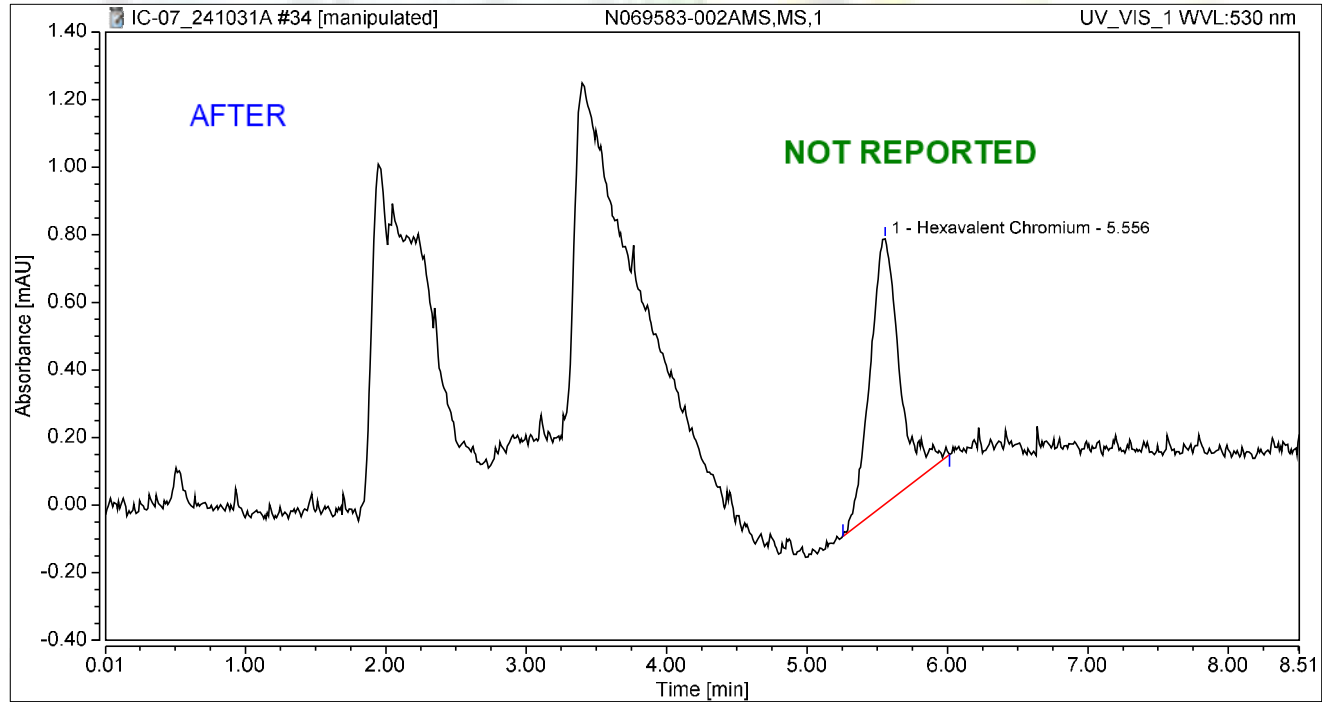
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069583-002AMS,MS,1	Run Time (min): 8.50
Vial Number:	5	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	31/Oct/24 14:33	Sample Weight: 1.0000

Chromatogram



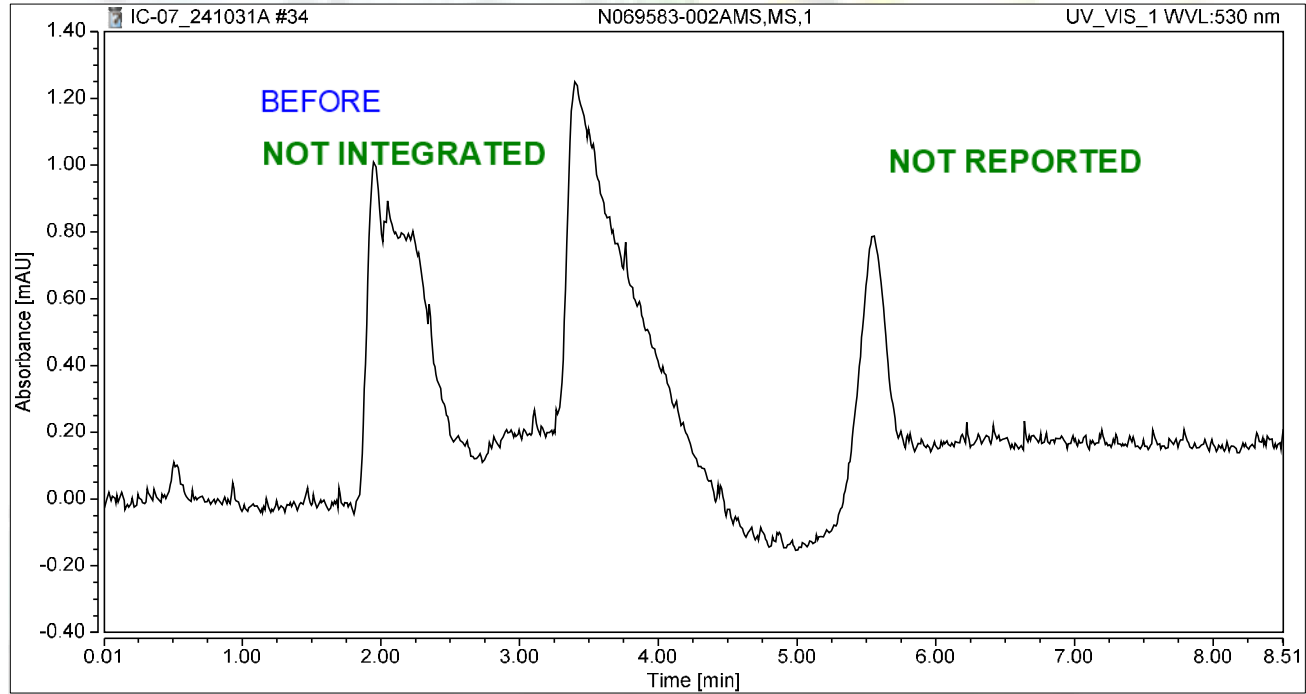
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.556	0.193	0.784	100.00	100.00	0.6794
Total:			0.193	0.784	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 14:33	Sample Weight:	1.0000

Chromatogram



Integration Results

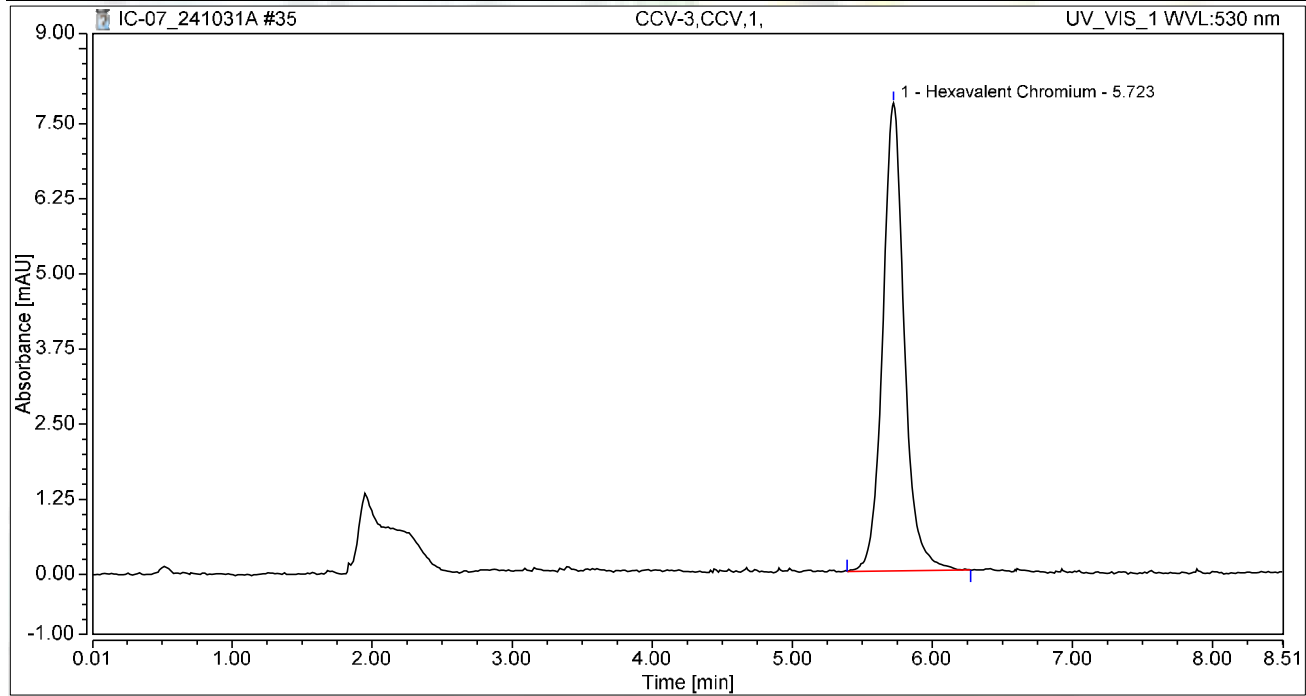
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-3,CCV,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 14:43	Sample Weight:	1.0000

Chromatogram



Integration Results

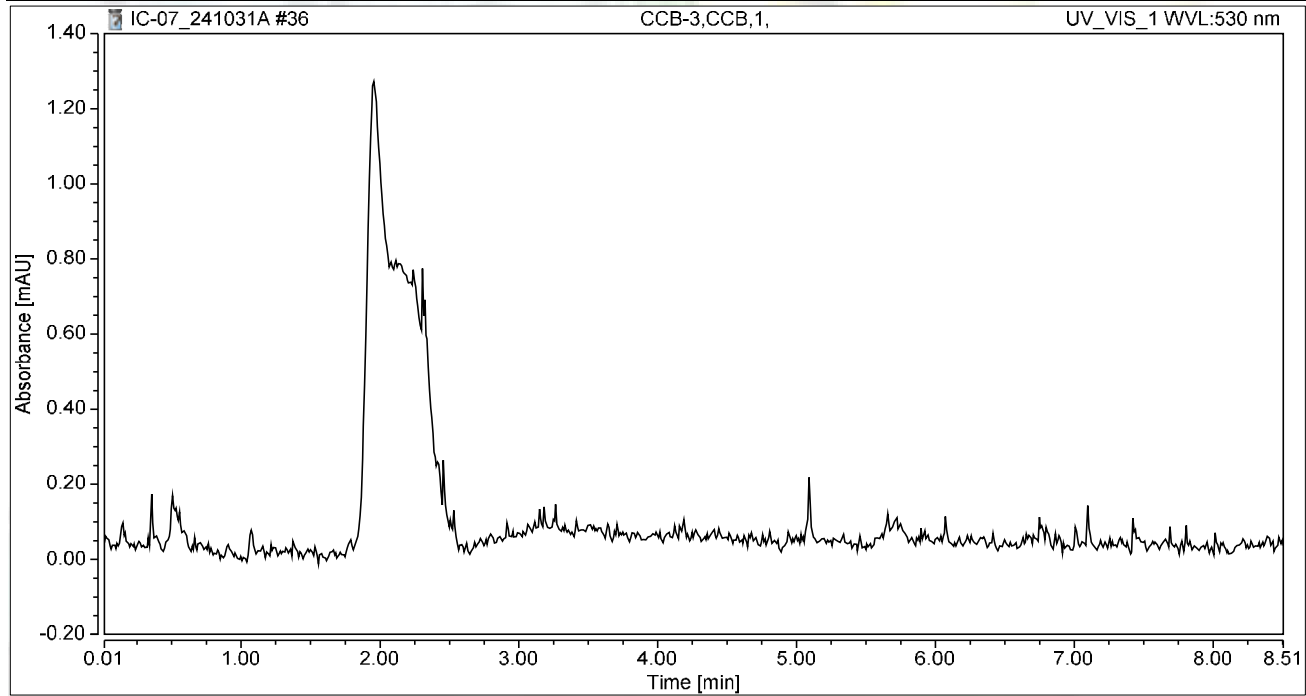
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	1.393	7.787	100.00	100.00	4.9088
Total:			1.393	7.787	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-3,CCB,1,	Run Time (min):	8.49
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 14:52	Sample Weight:	1.0000

Chromatogram



Integration Results

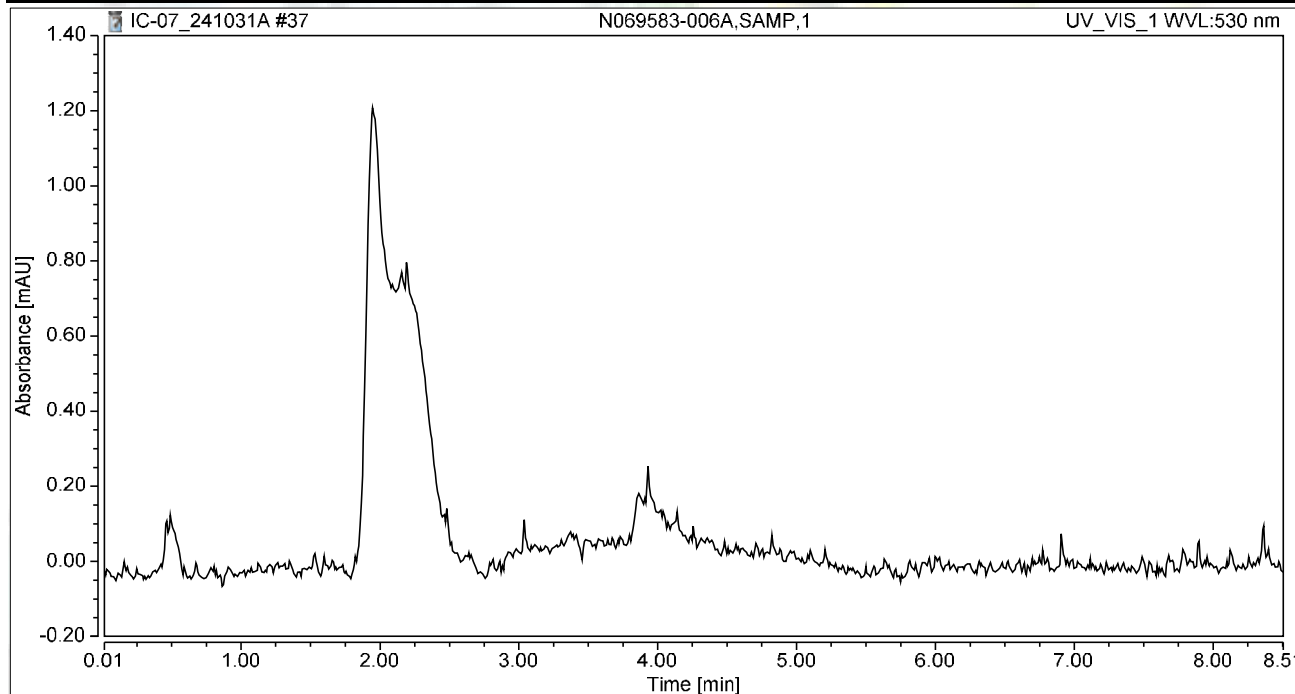
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-006A,SAMP,1	Run Time (min):	8.49
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 15:02	Sample Weight:	1.0000

Chromatogram



Integration Results

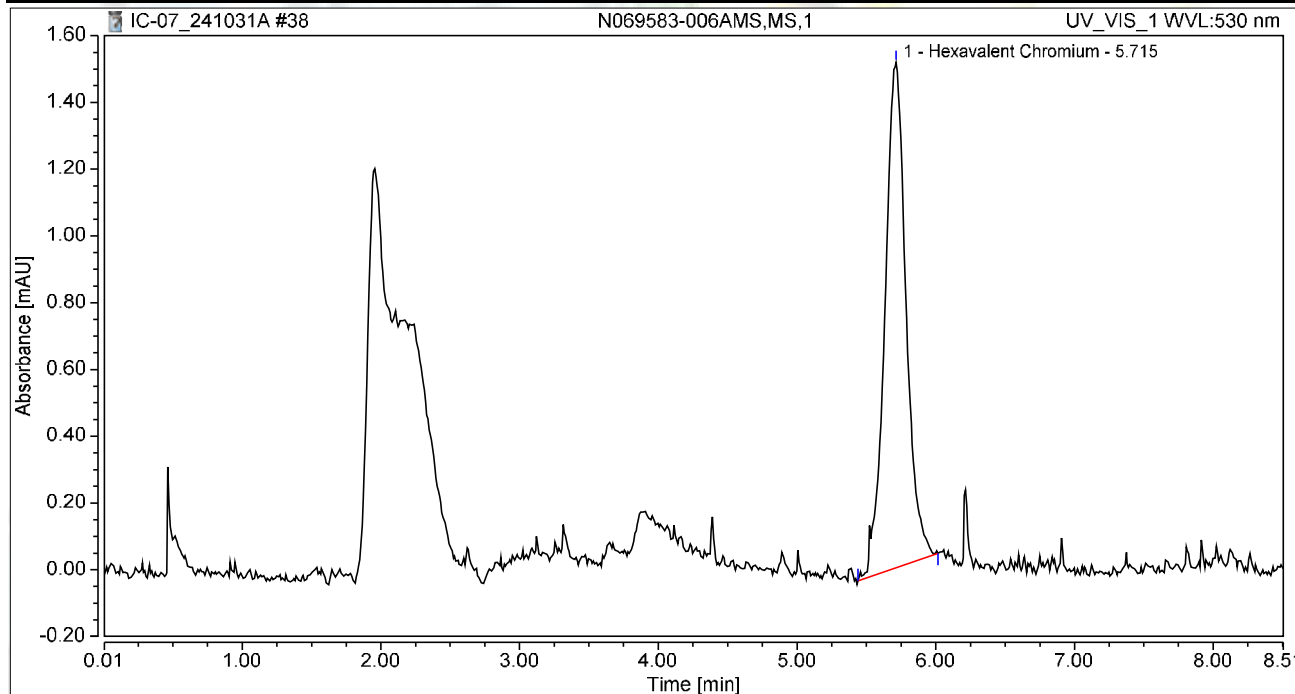
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-006AMS,MS,1	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 15:11	Sample Weight:	1.0000

Chromatogram



Integration Results

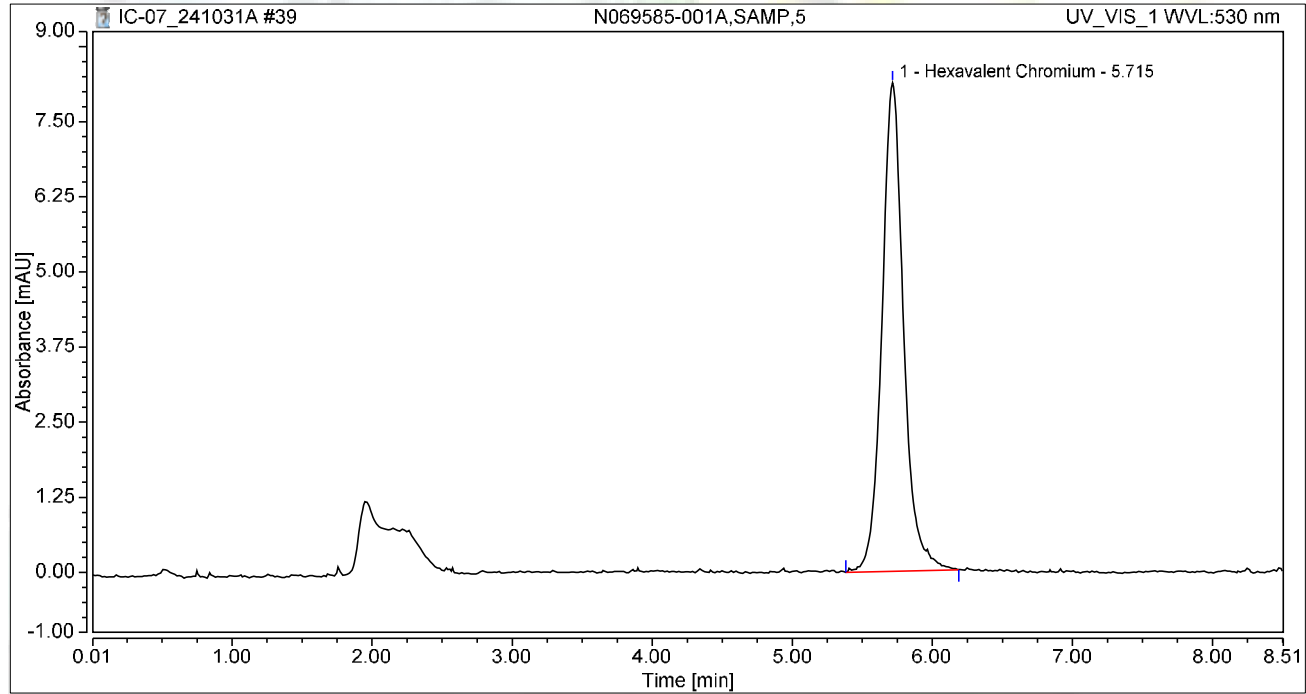
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.268	1.513	100.00	100.00	0.9431
Total:			0.268	1.513	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069585-001A,SAMP,5	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 15:21	Sample Weight:	1.0000

Chromatogram



Integration Results

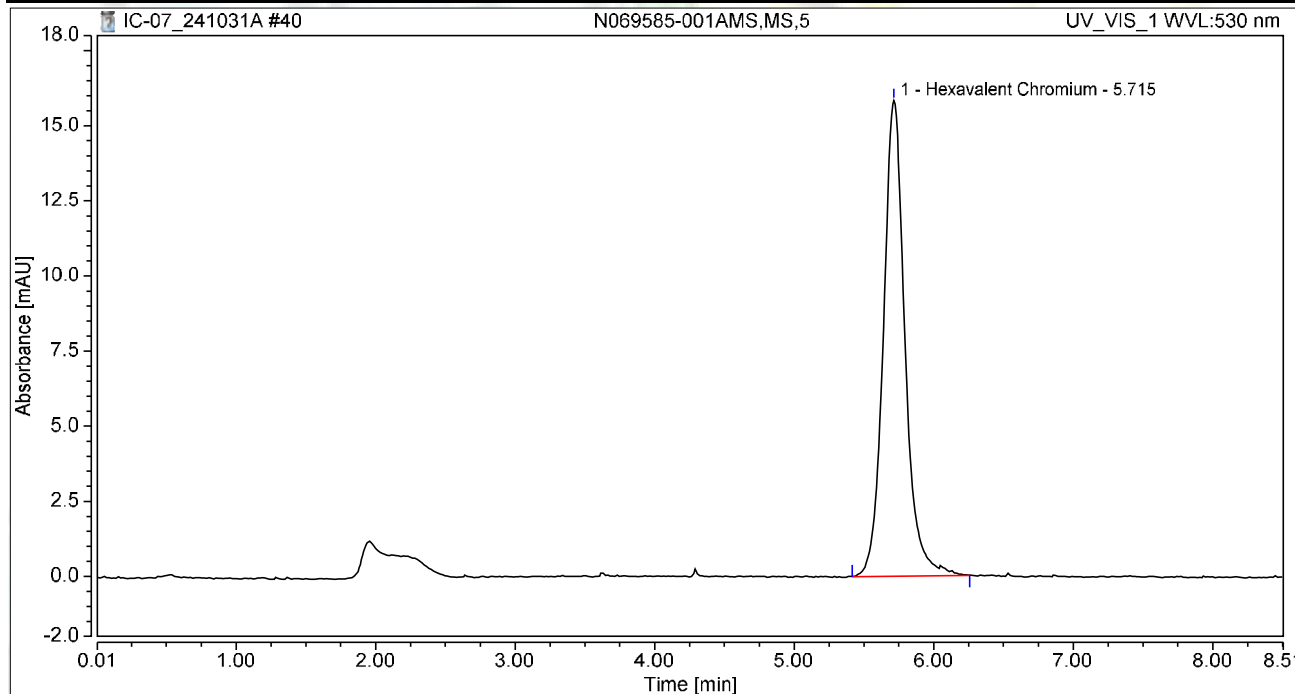
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	1.457	8.127	100.00	100.00	5.1353
Total:			1.457	8.127	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069585-001AMS,MS,5	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 15:30	Sample Weight:	1.0000

Chromatogram



Integration Results

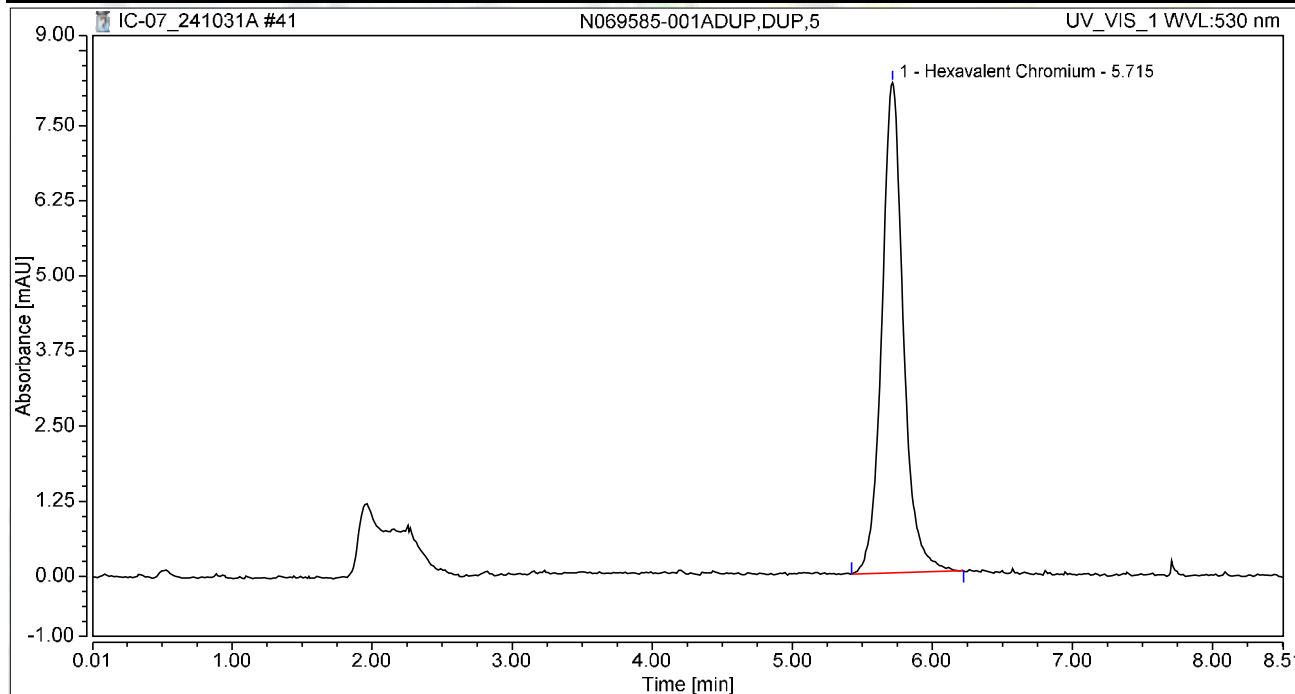
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.832	15.835	100.00	100.00	9.9807
Total:			2.832	15.835	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069585-001ADUP,DUP,5	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 15:39	Sample Weight:	1.0000

Chromatogram



Integration Results

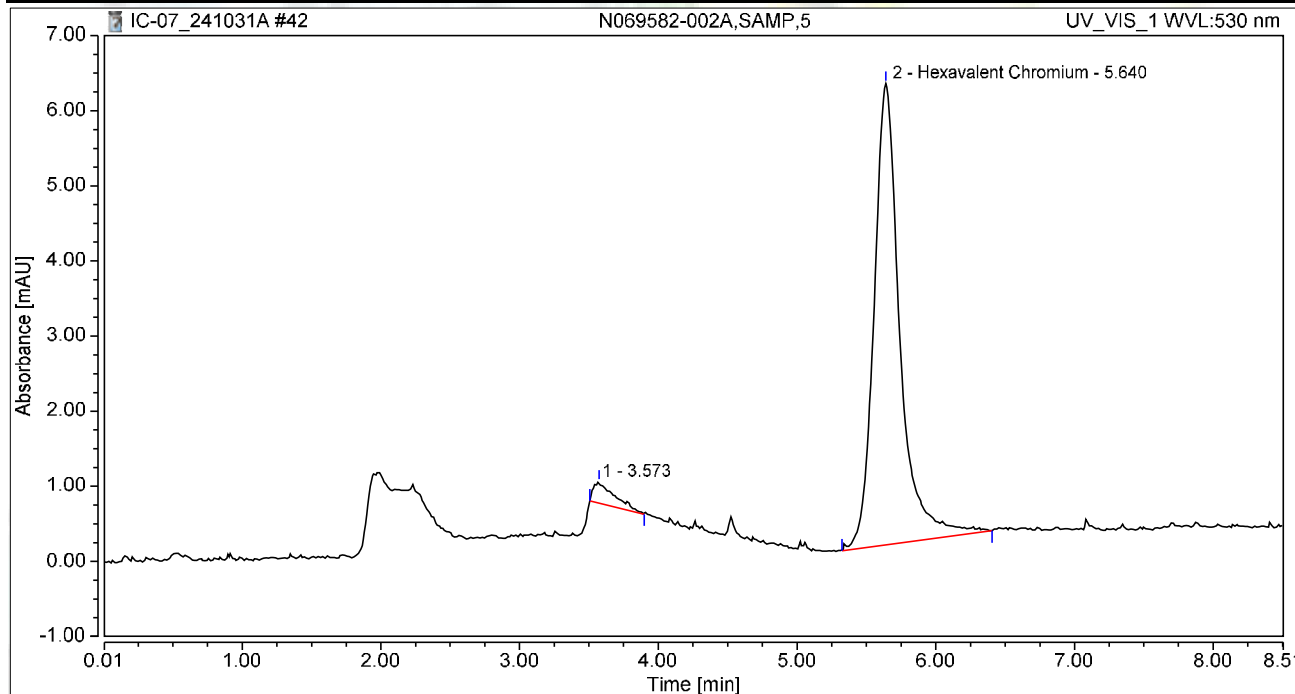
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	1.458	8.160	100.00	100.00	5.1369
Total:			1.458	8.160	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-002A,SAMP,5	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 16:04	Sample Weight:	1.0000

Chromatogram



Integration Results

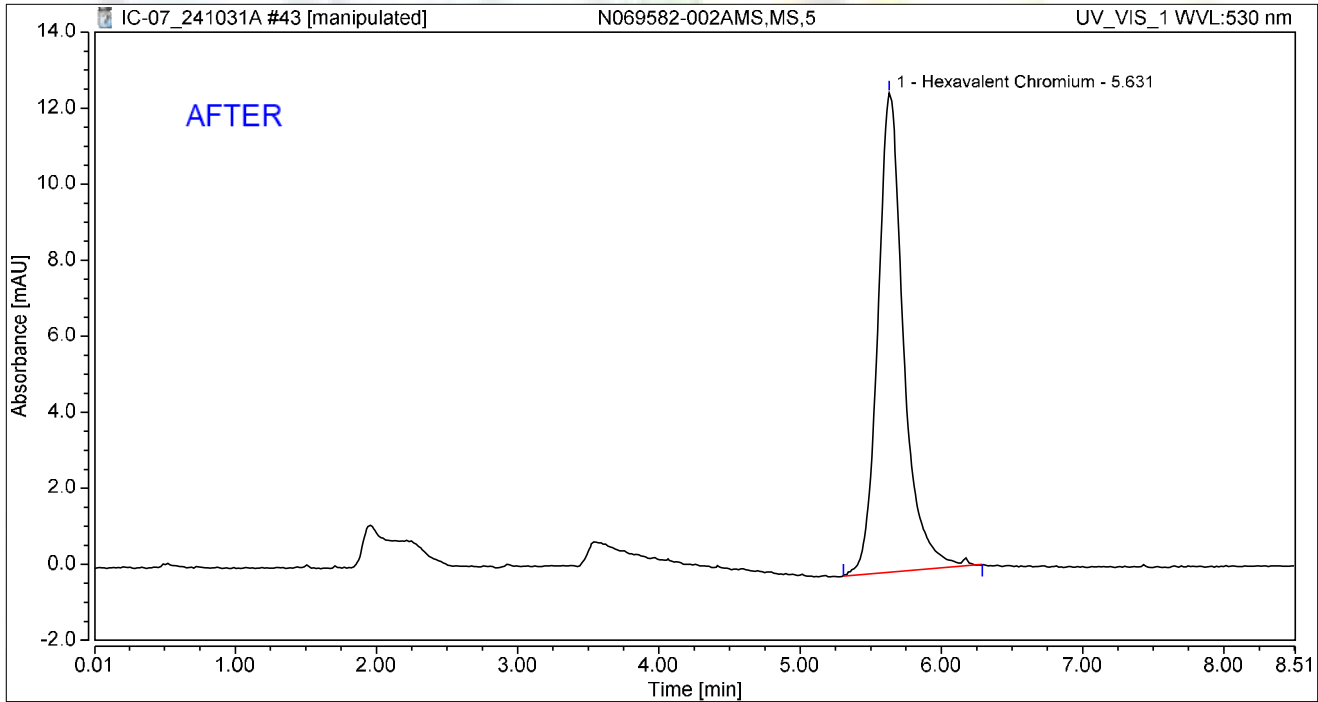
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.573	0.051	0.284	3.71	4.42	n.a.
2	Hexavalent Chromium	5.640	1.326	6.143	96.29	95.58	4.6721
Total:			1.377	6.427	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 16:16	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.631	2.657	12.603	100.00	100.00	9.3634
Total:			2.657	12.603	100.00	100.00	

Reviewed by:

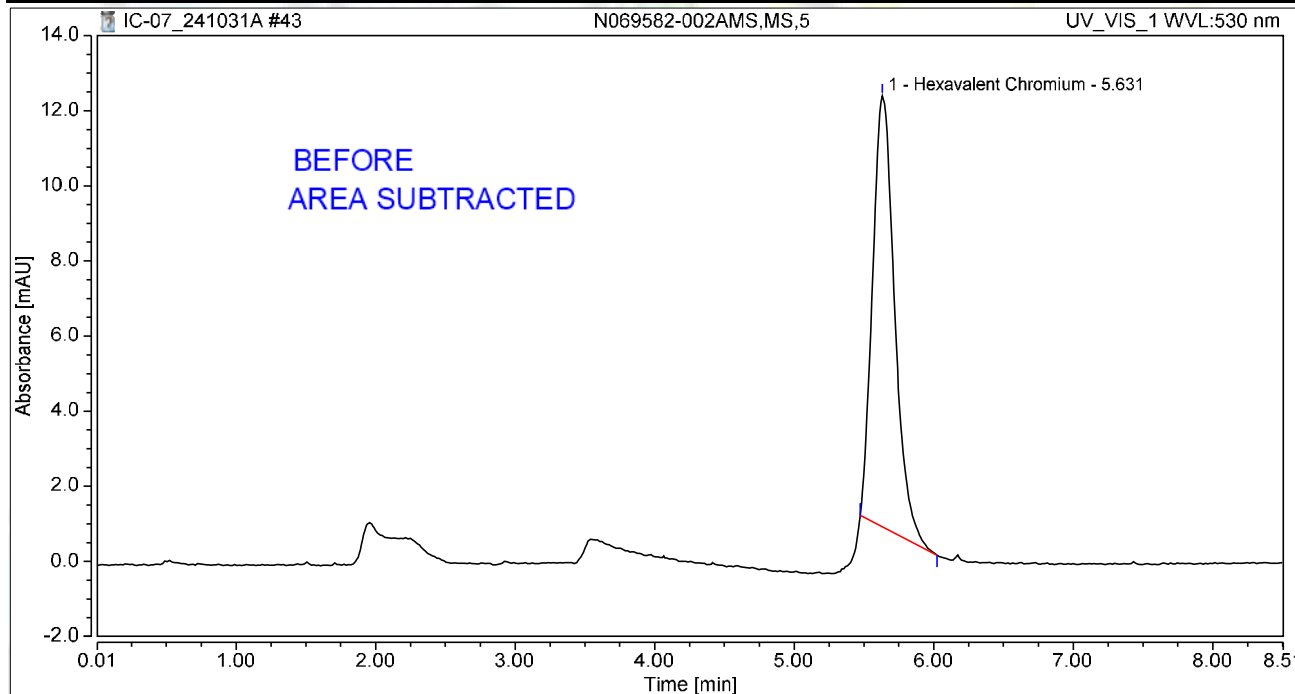
d/Rocha 11/13/2024

Chromatogram and Results

Injection Details

Injection Name:	N069582-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 16:16	Sample Weight:	1.0000

Chromatogram



Integration Results

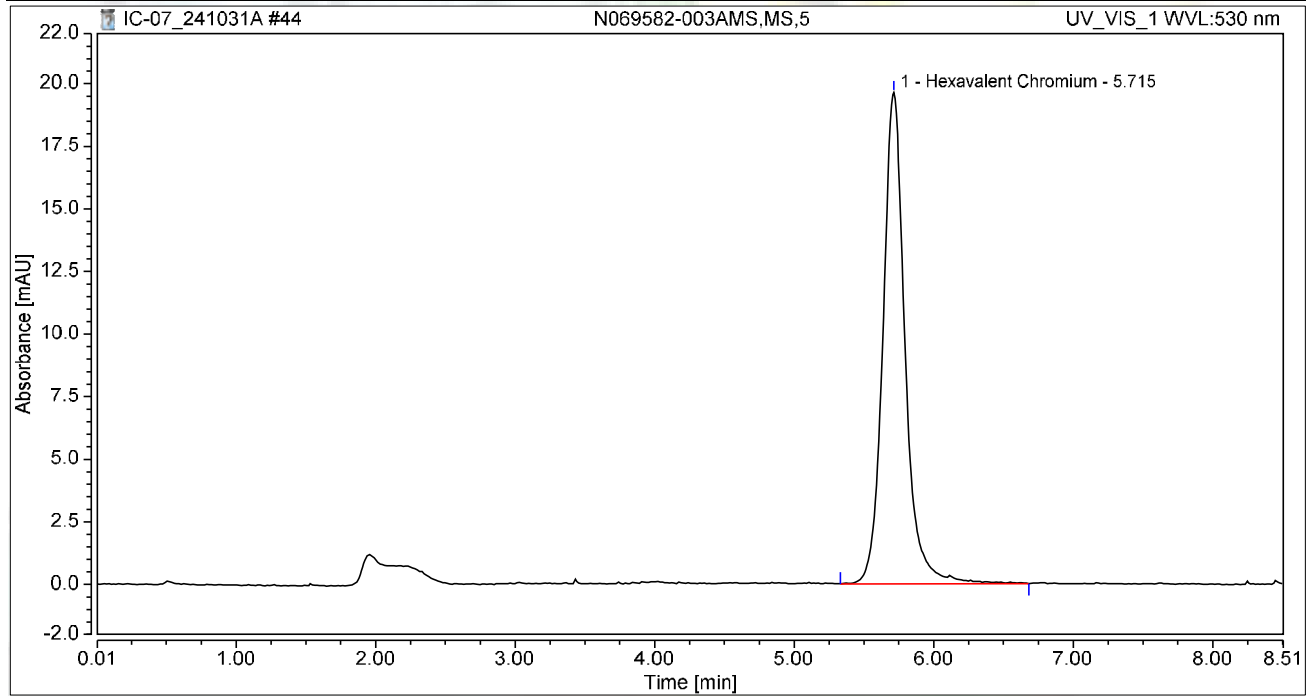
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.631	2.099	11.477	100.00	100.00	7.3957
Total:			2.099	11.477	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-003AMS,MS,5	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 16:26	Sample Weight:	1.0000

Chromatogram



Integration Results

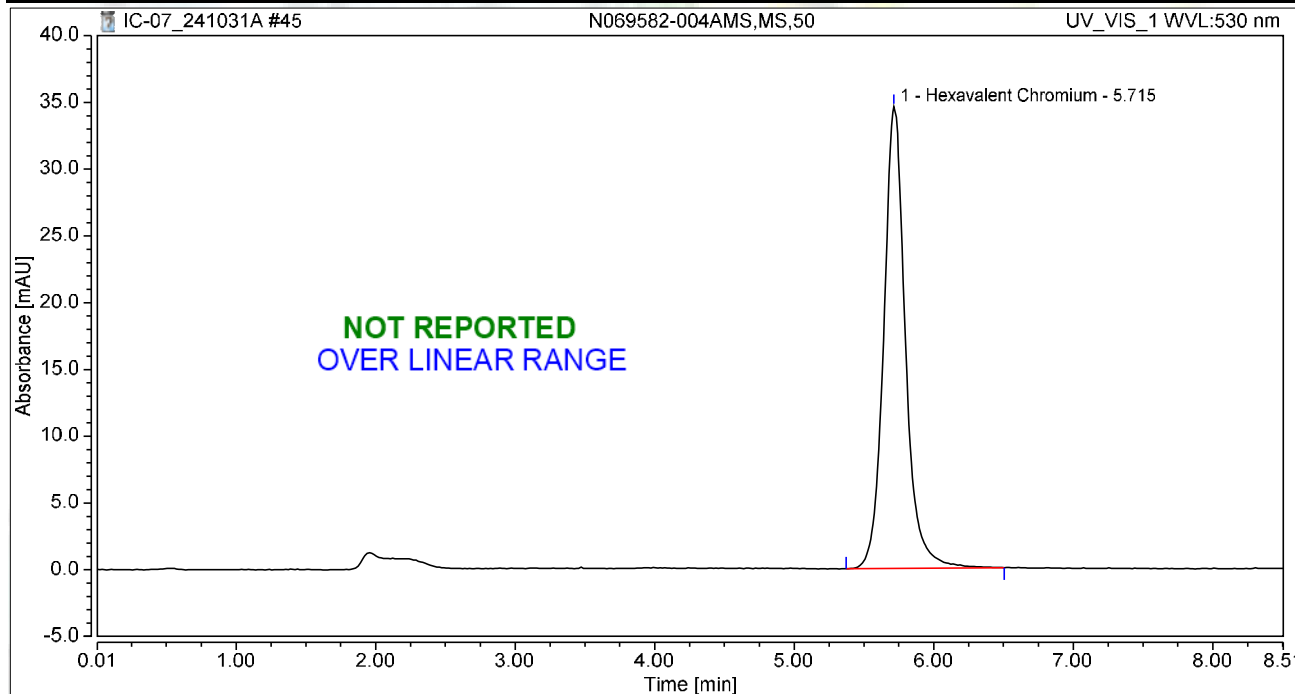
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	3.600	19.616	100.00	100.00	12.6882
Total:			3.600	19.616	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-004AMS,MS,50	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 16:35	Sample Weight:	1.0000

Chromatogram



Integration Results

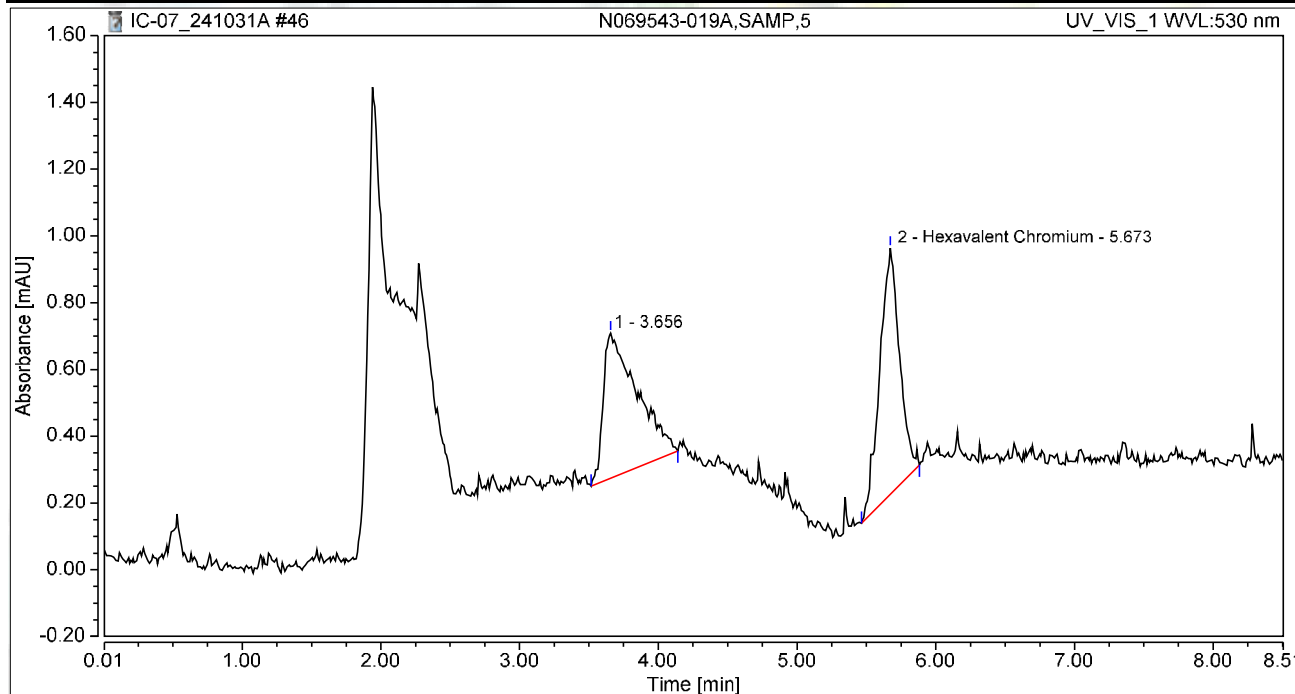
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	6.229	34.594	100.00	100.00	21.9538
Total:			6.229	34.594	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-019A,SAMP,5	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 16:44	Sample Weight:	1.0000

Chromatogram



Integration Results

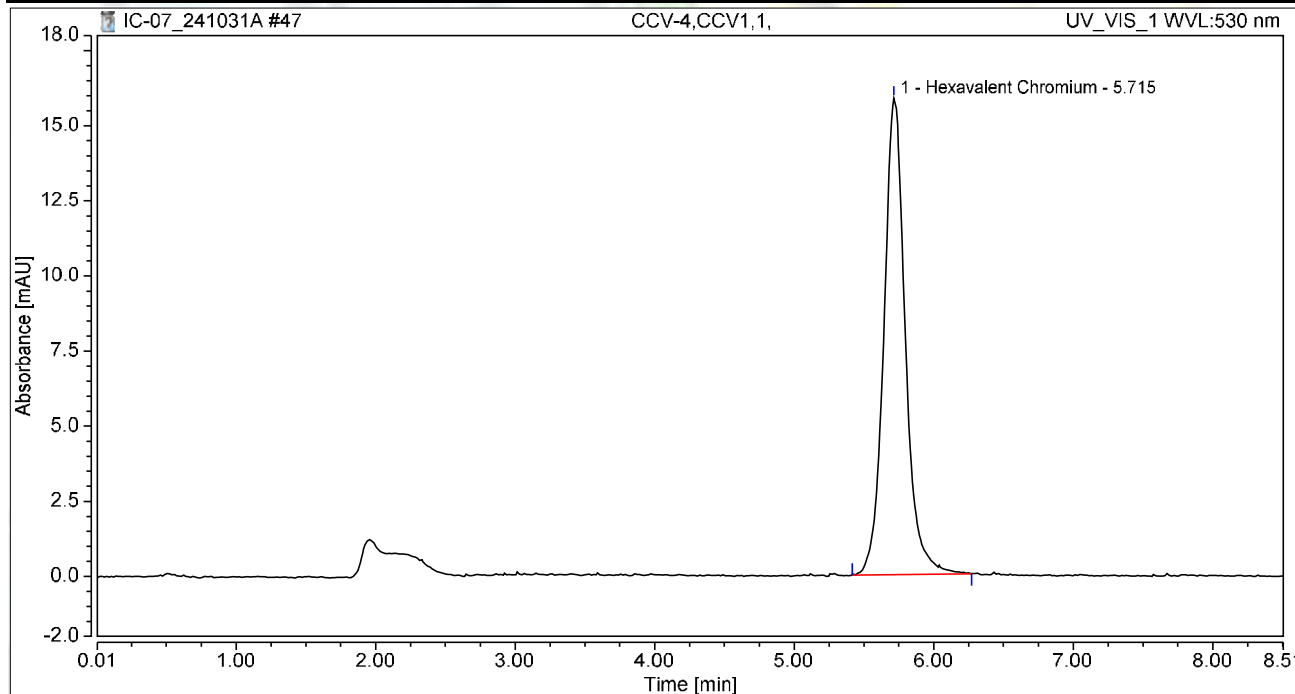
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.656	0.121	0.435	49.93	37.08	n.a.
2	Hexavalent Chromium	5.673	0.122	0.738	50.07	62.92	0.4291
Total:			0.243	1.172	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-4,CCV1,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 16:54	Sample Weight:	1.0000

Chromatogram



Integration Results

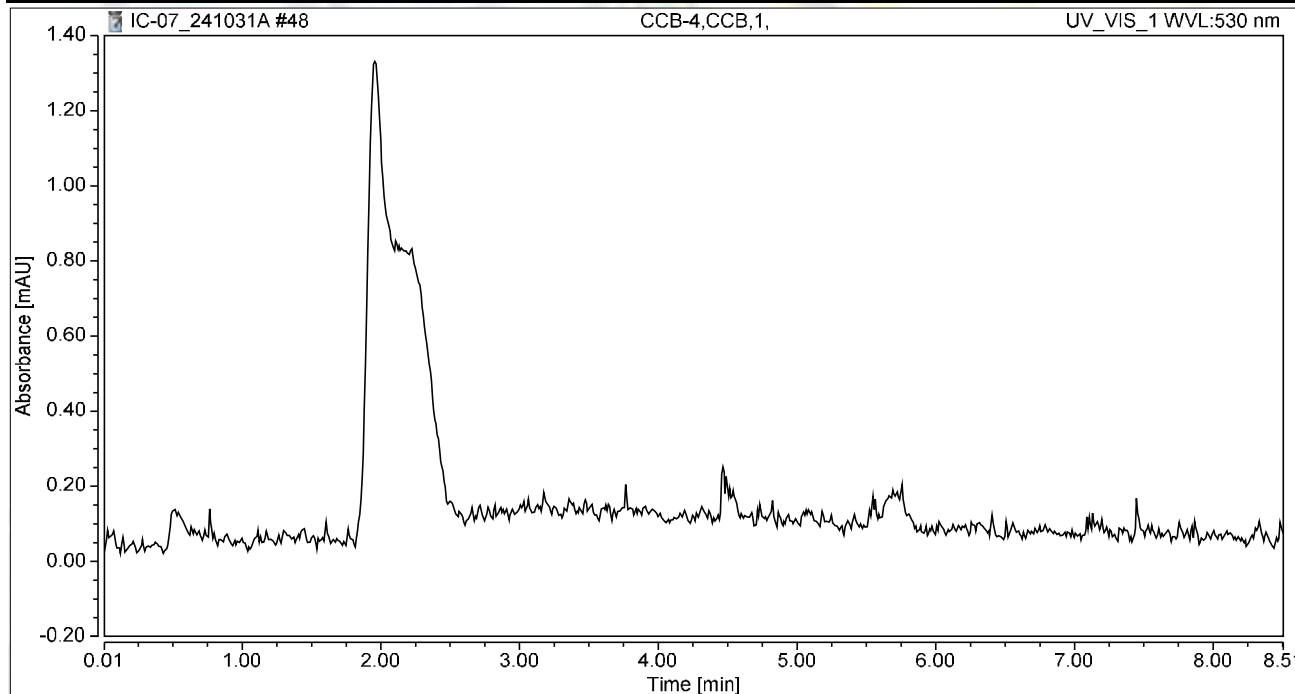
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.828	15.858	100.00	100.00	9.9671
Total:			2.828	15.858	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-4,CCB,1,	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 17:03	Sample Weight:	1.0000

Chromatogram



Integration Results

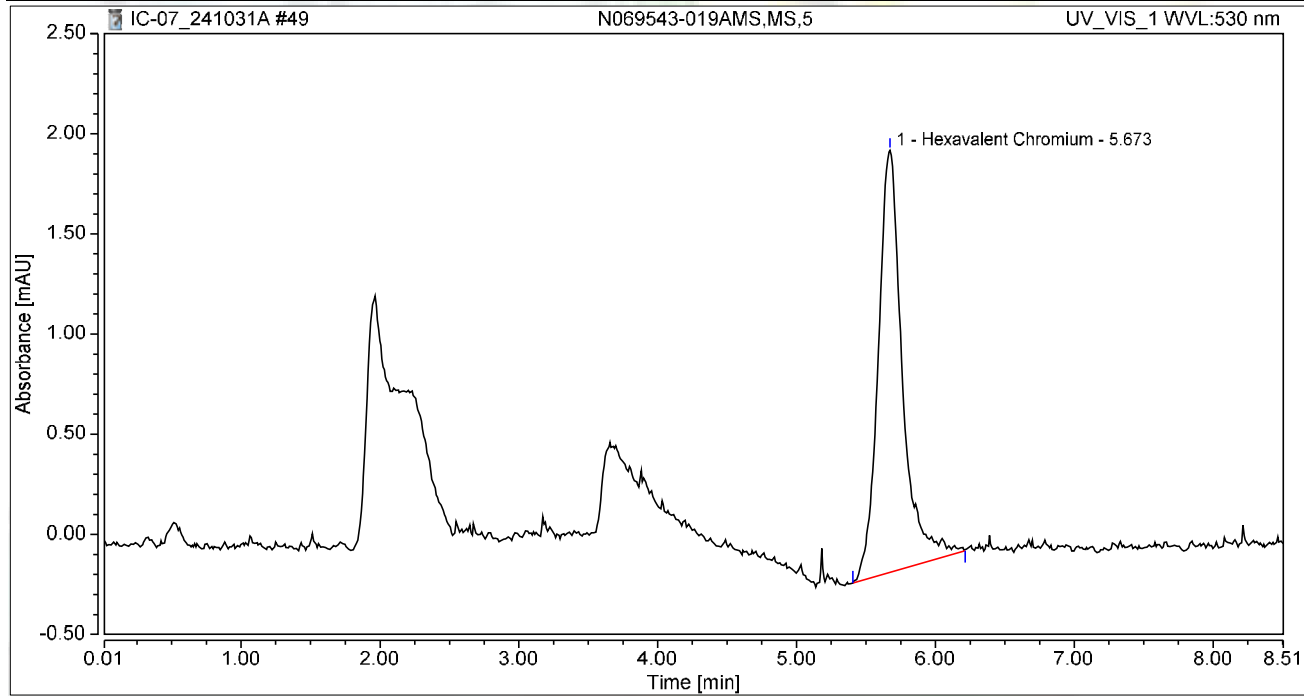
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-019AMS,MS,5	Run Time (min):	8.49
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 17:13	Sample Weight:	1.0000

Chromatogram



Integration Results

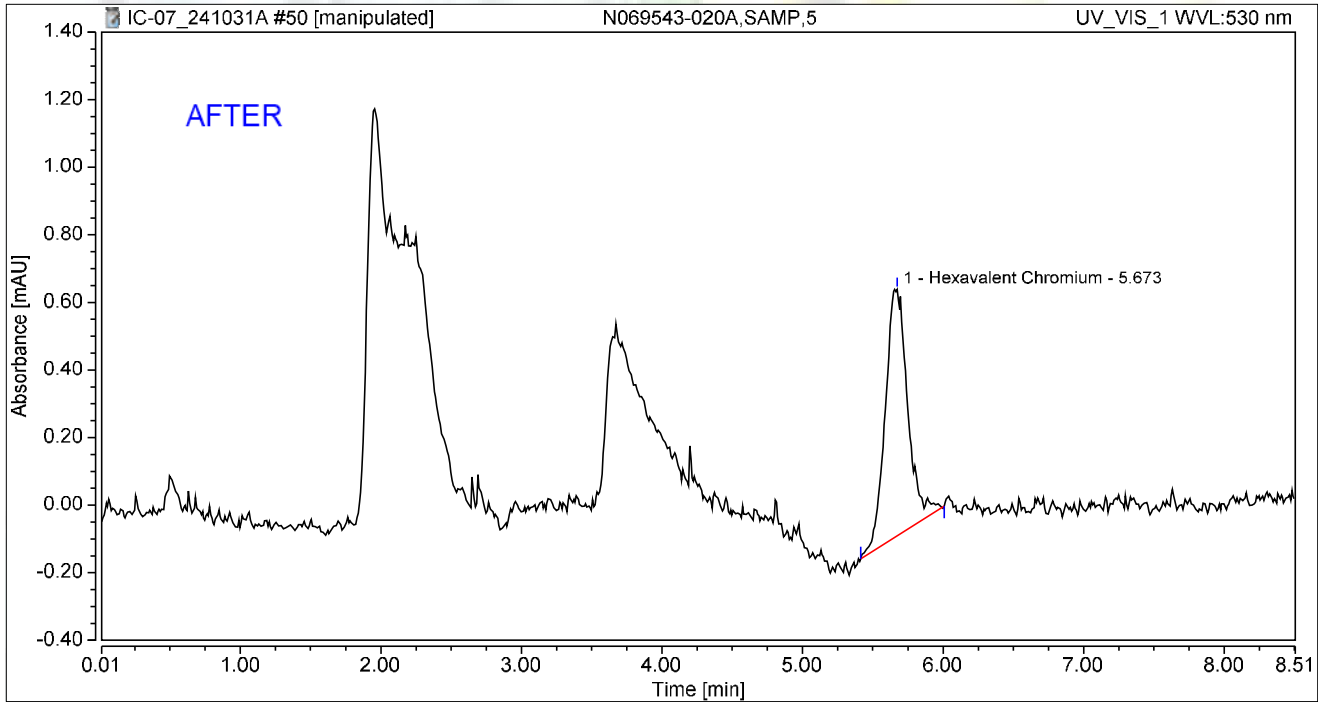
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.426	2.106	100.00	100.00	1.5005
Total:			0.426	2.106	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-020A,SAMP,5	Run Time (min):	8.49
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 17:22	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.135	0.729	100.00	100.00	0.4773
Total:			0.135	0.729	100.00	100.00	

Reviewed by:

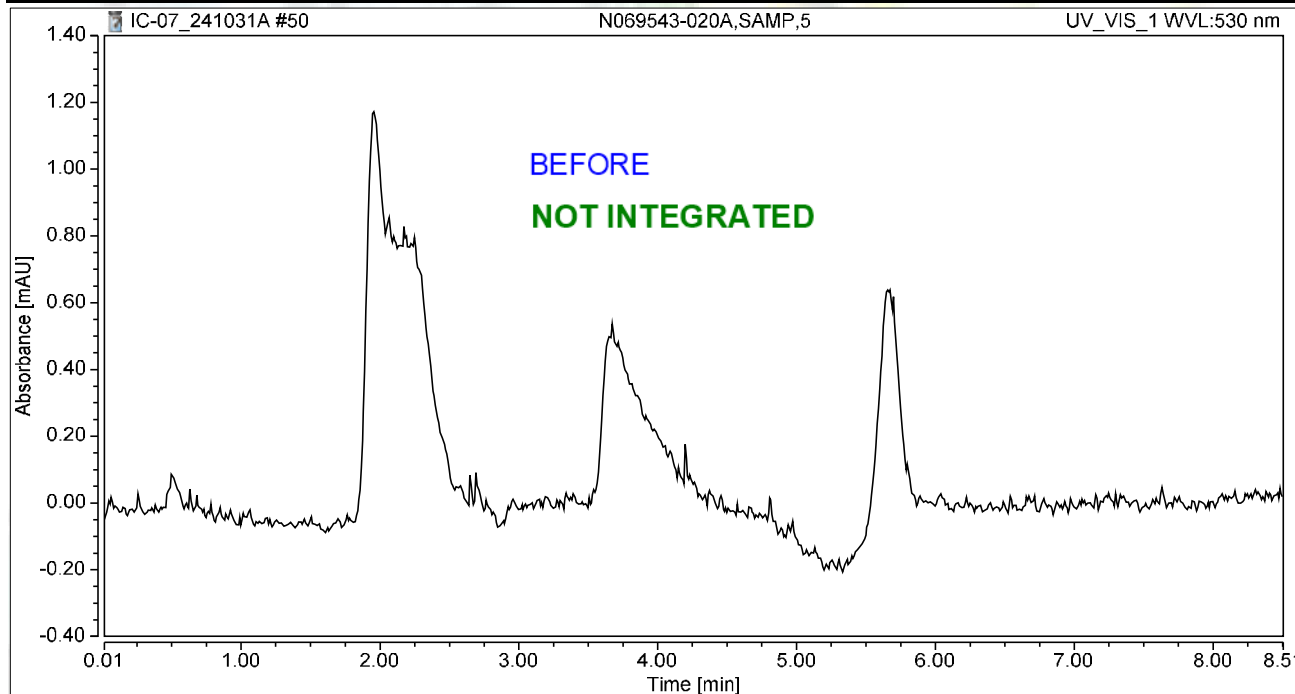
d/Rocha 11/13/2024

Chromatogram and Results

Injection Details

Injection Name:	N069543-020A,SAMP,5	Run Time (min):	8.49
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 17:22	Sample Weight:	1.0000

Chromatogram



Integration Results

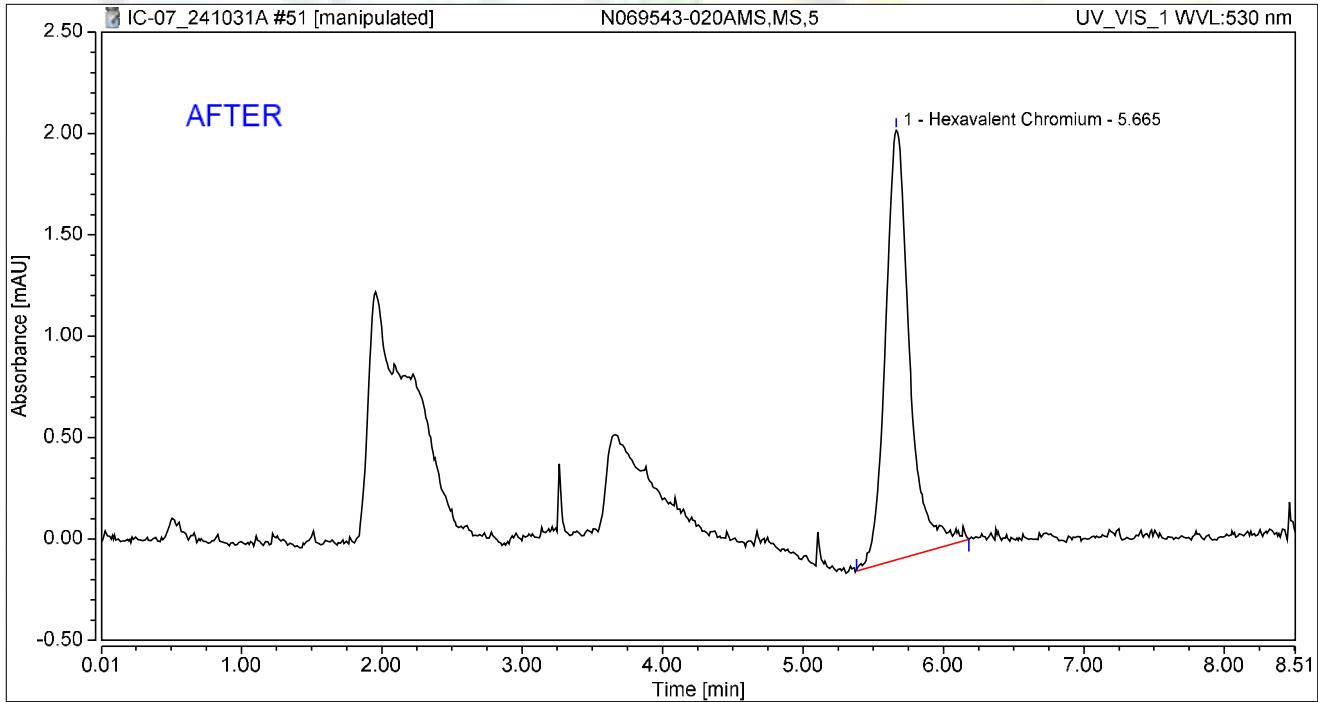
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-020AMS,MS,5	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 17:32	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.422	2.117	100.00	100.00	1.4870
Total:			0.422	2.117	100.00	100.00	

Reviewed by:

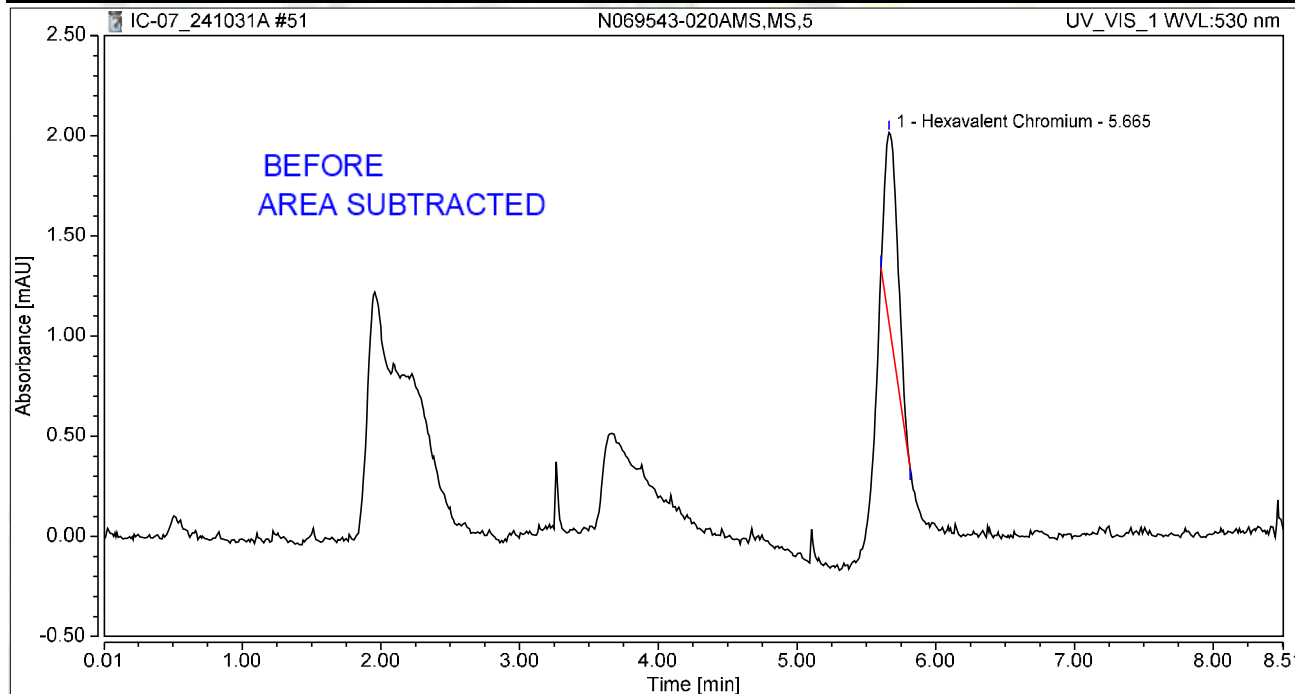
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Chromatogram and Results

Injection Details

Injection Name:	N069543-020AMS,MS,5	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 17:32	Sample Weight:	1.0000

Chromatogram



Integration Results

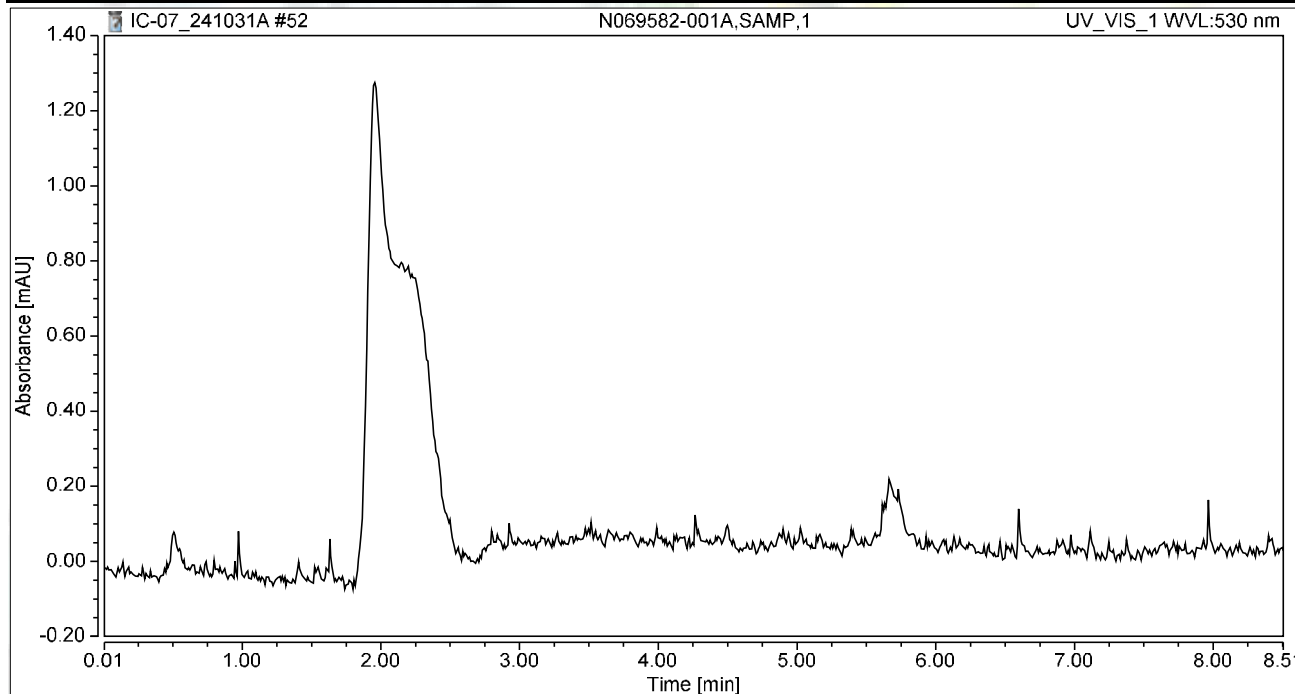
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.108	0.954	100.00	100.00	0.3809
Total:			0.108	0.954	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 17:41	Sample Weight:	1.0000

Chromatogram



Integration Results

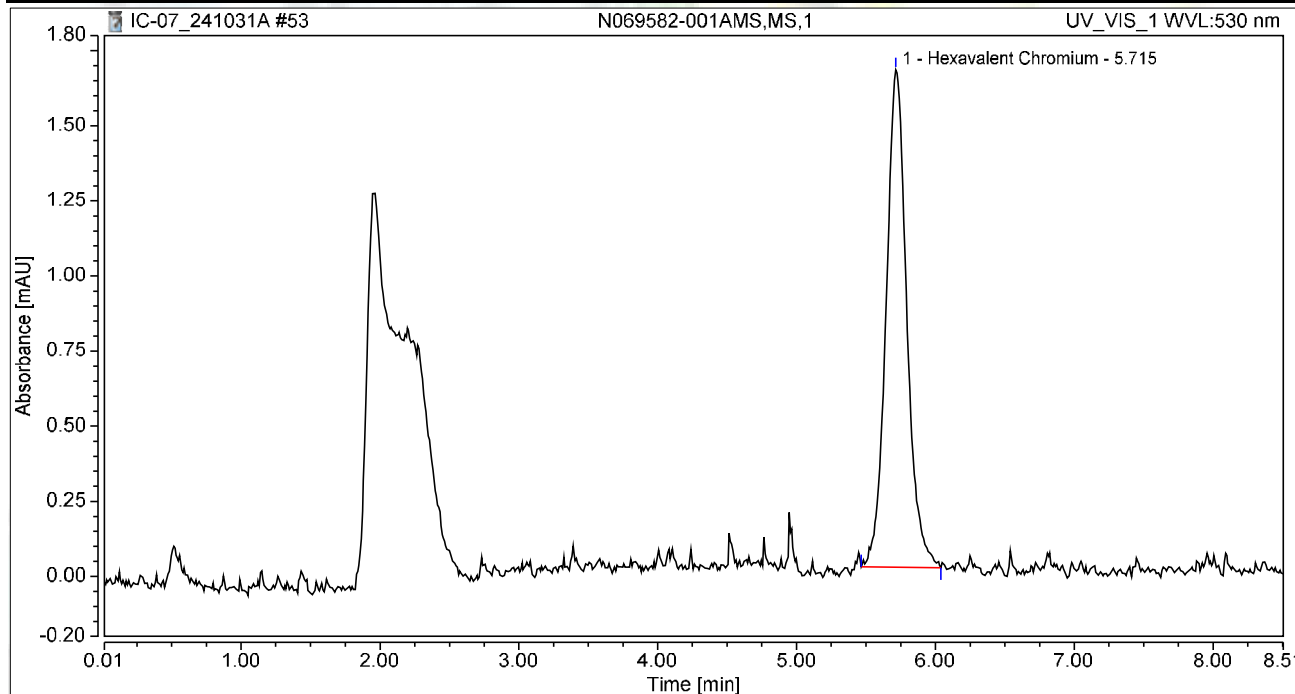
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-001AMS,MS,1	Run Time (min):	8.49
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 17:51	Sample Weight:	1.0000

Chromatogram



Integration Results

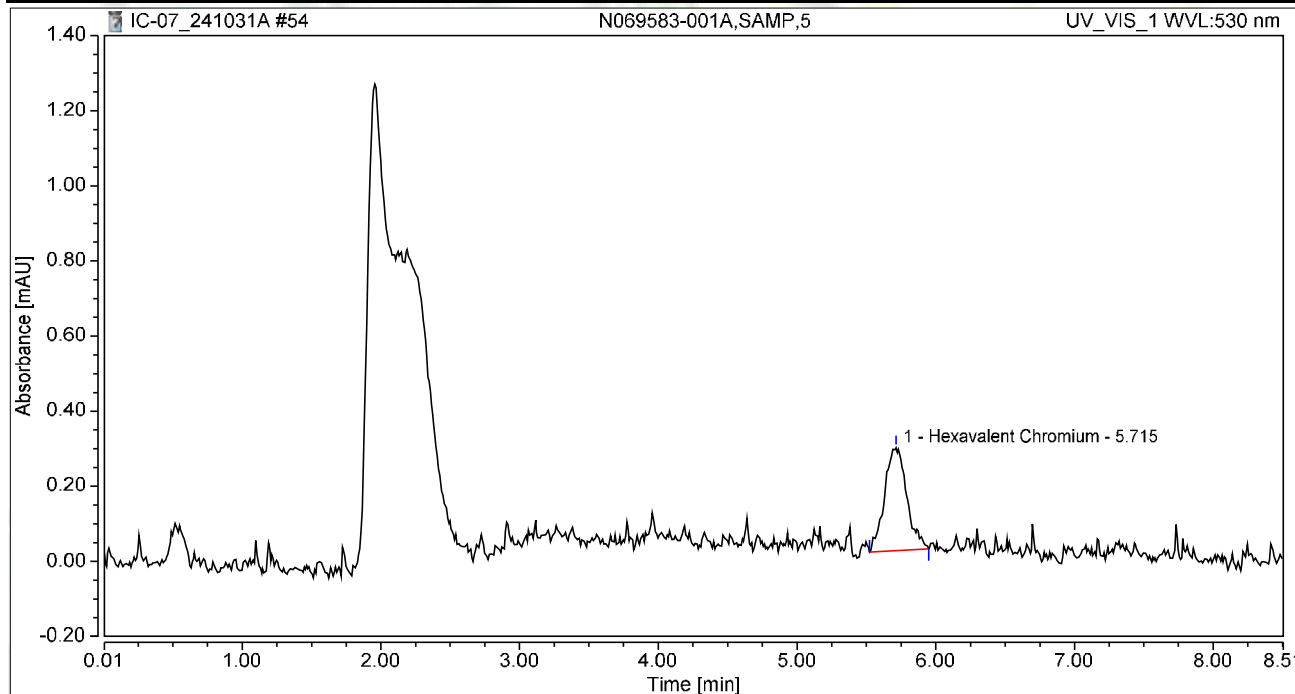
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.286	1.656	100.00	100.00	1.0097
Total:			0.286	1.656	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-001A,SAMP,5	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 18:00	Sample Weight:	1.0000

Chromatogram



Integration Results

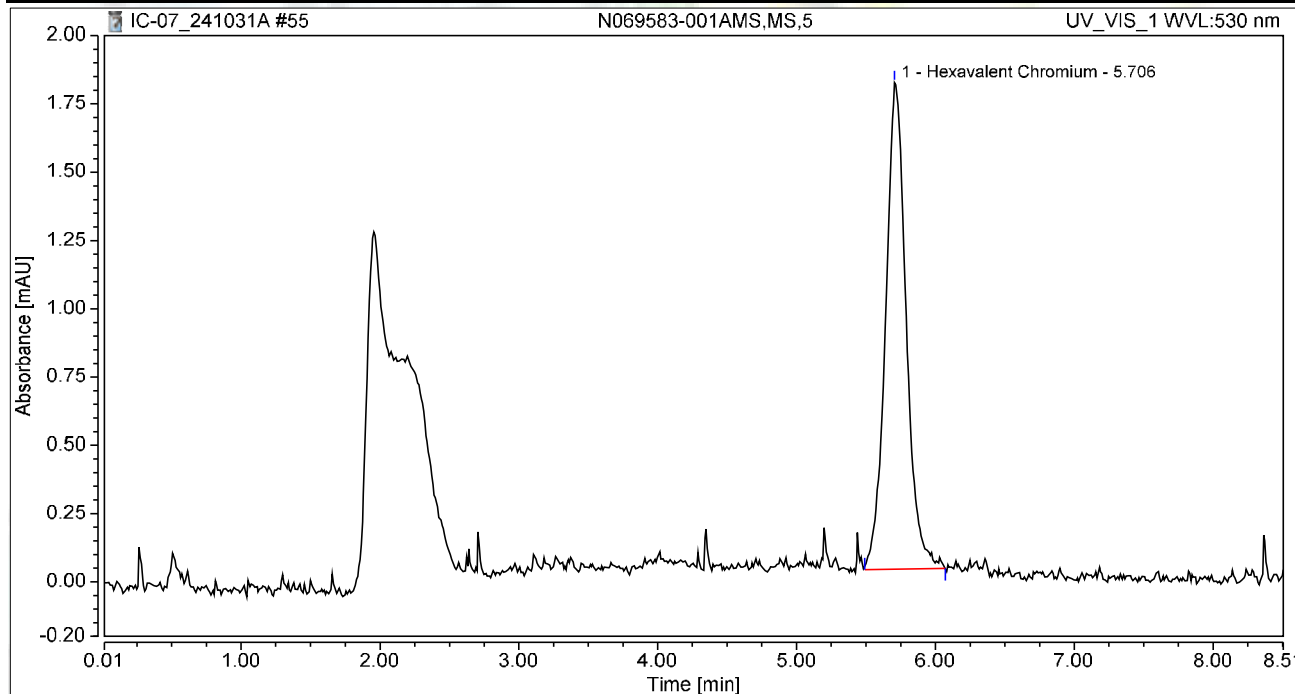
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.051	0.274	100.00	100.00	0.1791
Total:			0.051	0.274	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-001AMS,MS,5	Run Time (min):	8.49
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 18:10	Sample Weight:	1.0000

Chromatogram



Integration Results

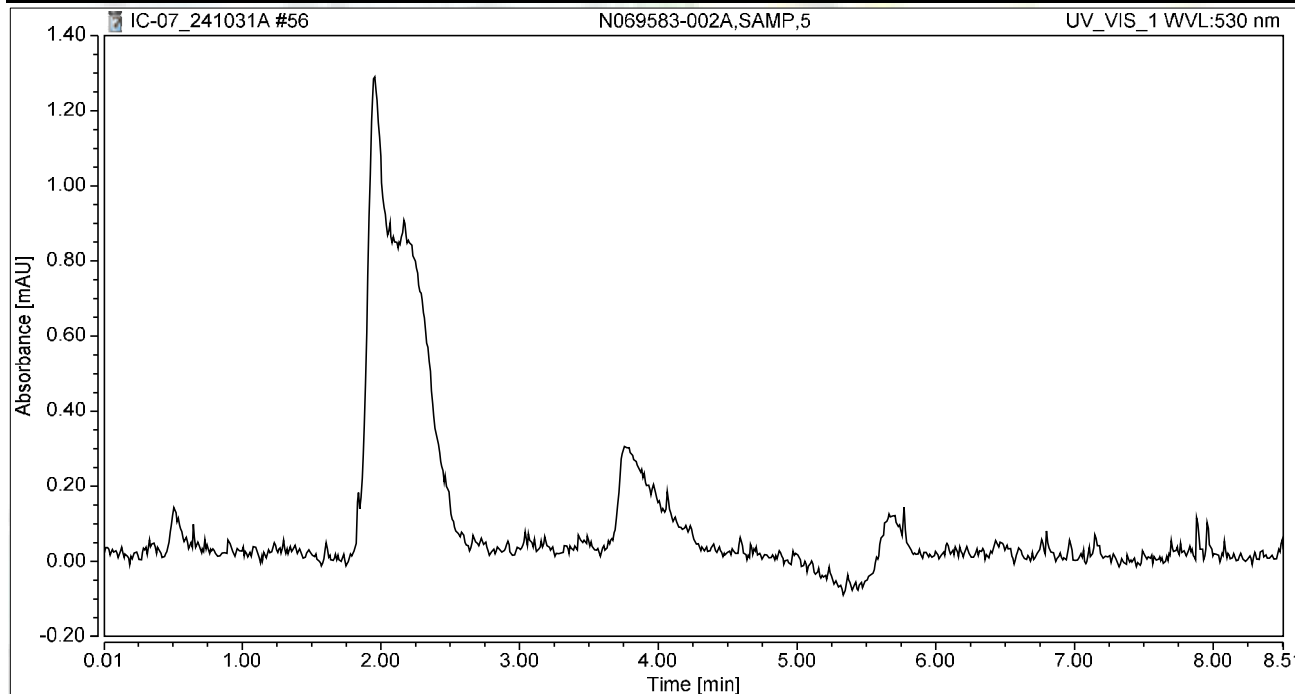
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	0.307	1.781	100.00	100.00	1.0825
Total:			0.307	1.781	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-002A,SAMP,5	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 18:19	Sample Weight:	1.0000

Chromatogram



Integration Results

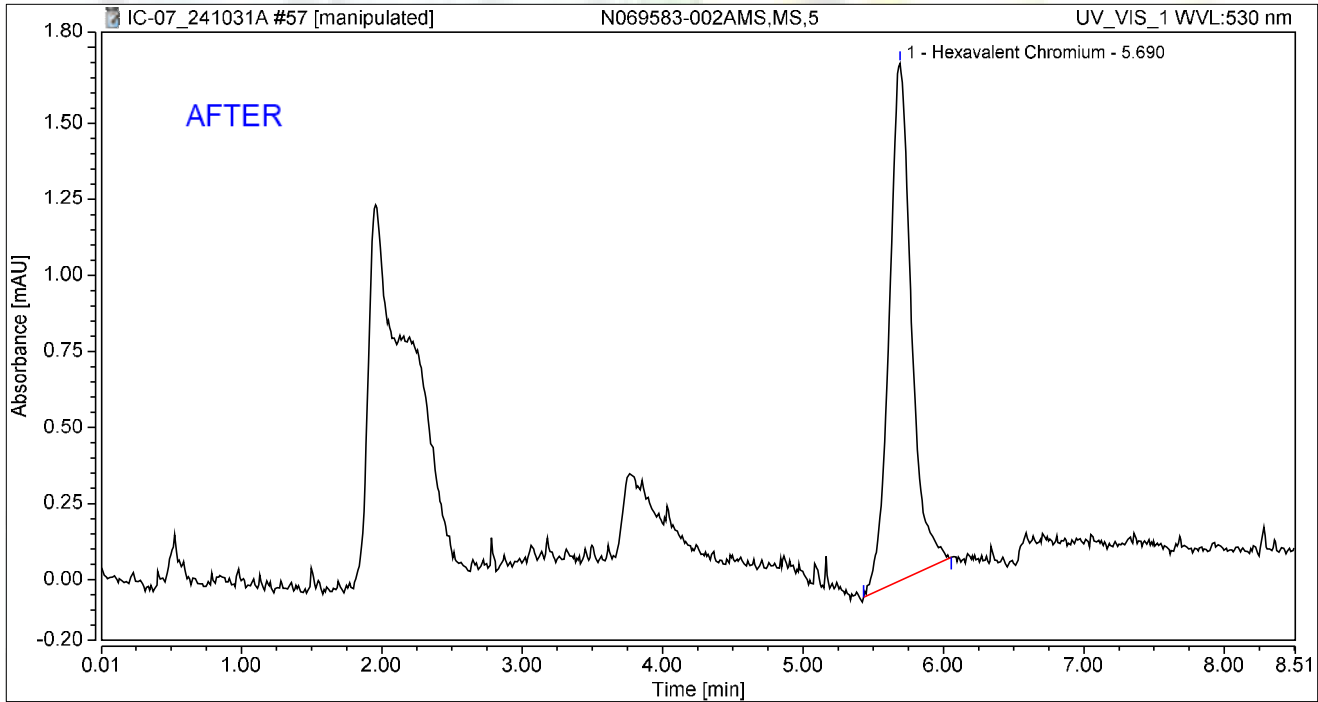
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 18:28	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.311	1.701	100.00	100.00	1.0961
Total:			0.311	1.701	100.00	100.00	

Reviewed by:

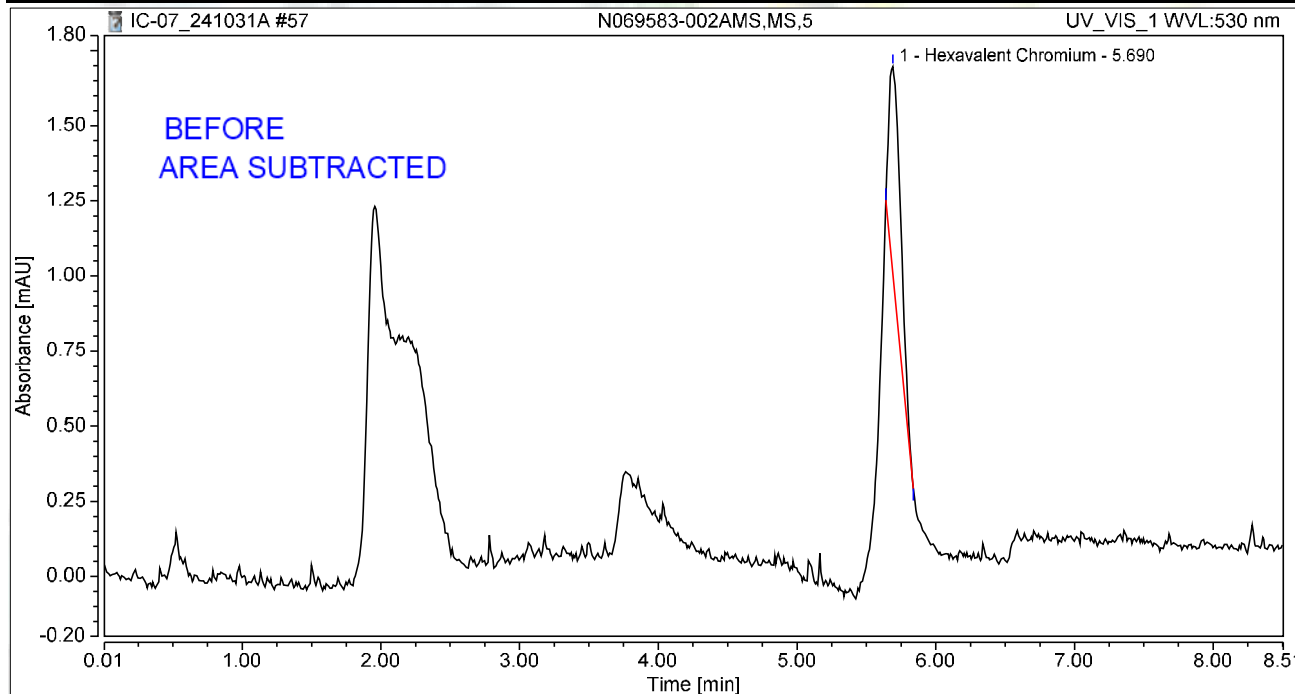
d/Rocha 11/13/2024

Chromatogram and Results

Injection Details

Injection Name:	N069583-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 18:28	Sample Weight:	1.0000

Chromatogram



Integration Results

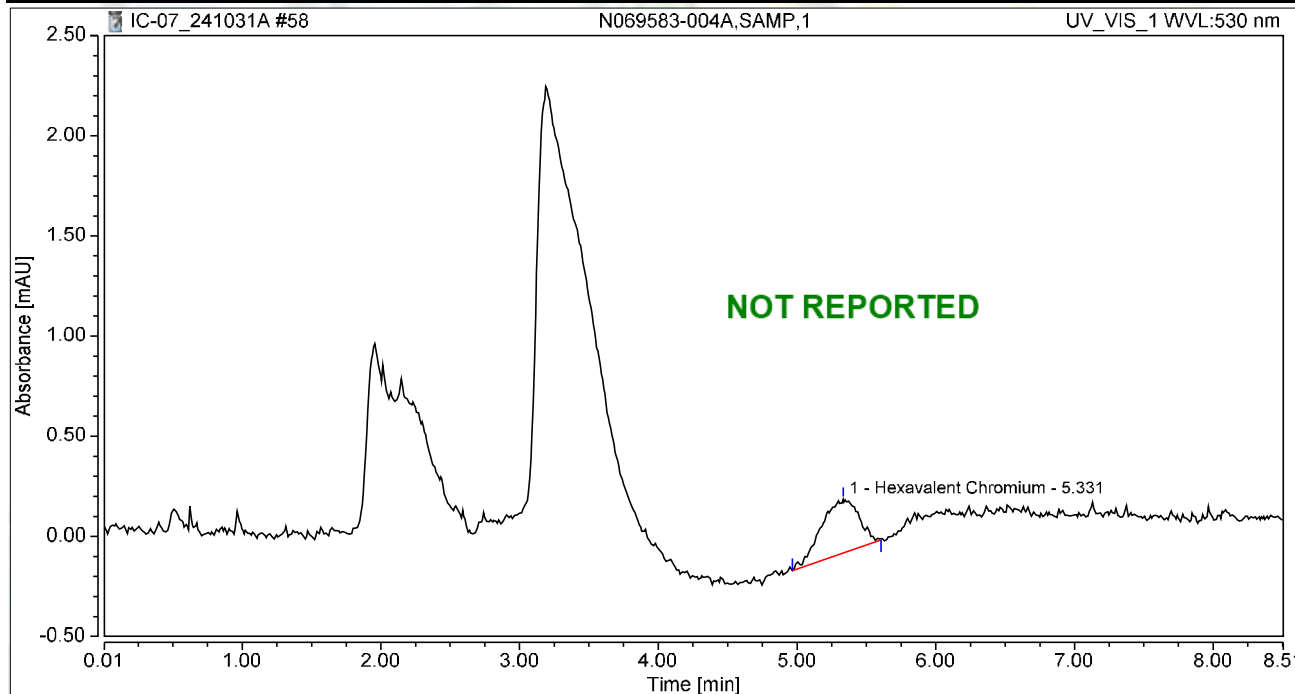
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.070	0.685	100.00	100.00	0.2457
Total:			0.070	0.685	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-004A,SAMP,1	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 18:38	Sample Weight:	1.0000

Chromatogram



Integration Results

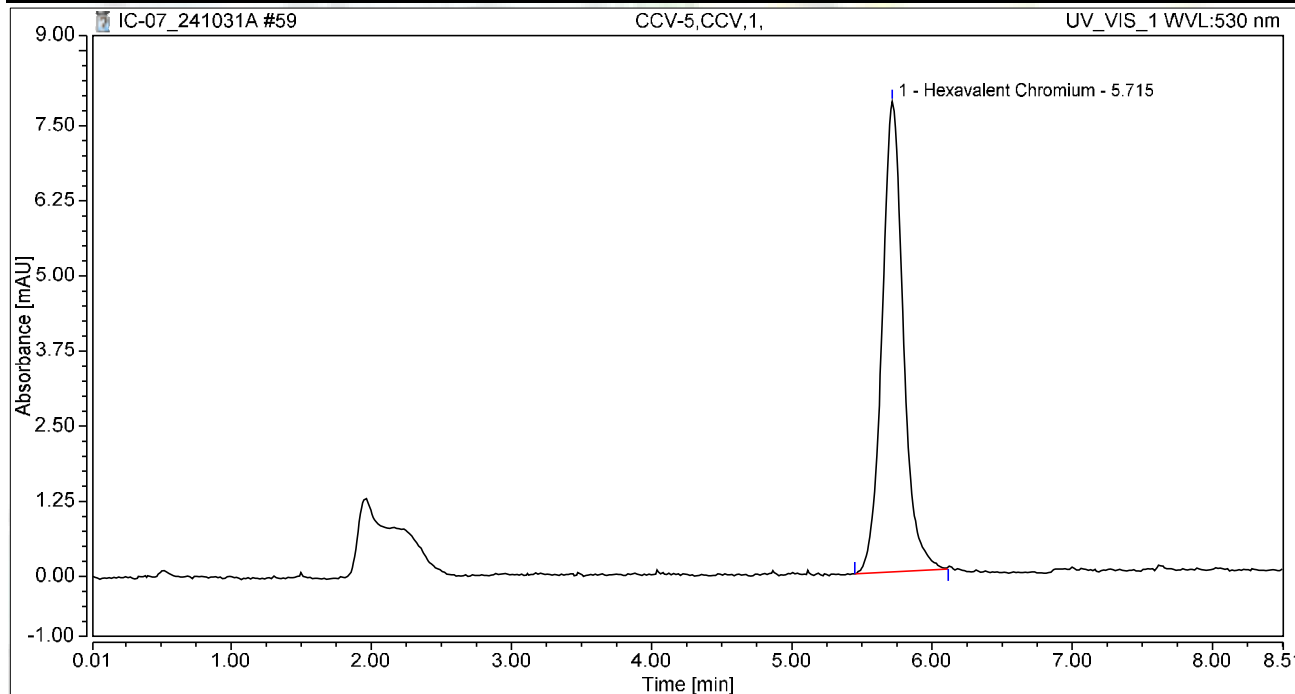
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.331	0.085	0.268	100.00	100.00	0.2987
Total:			0.085	0.268	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.49
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 18:47	Sample Weight:	1.0000

Chromatogram



Integration Results

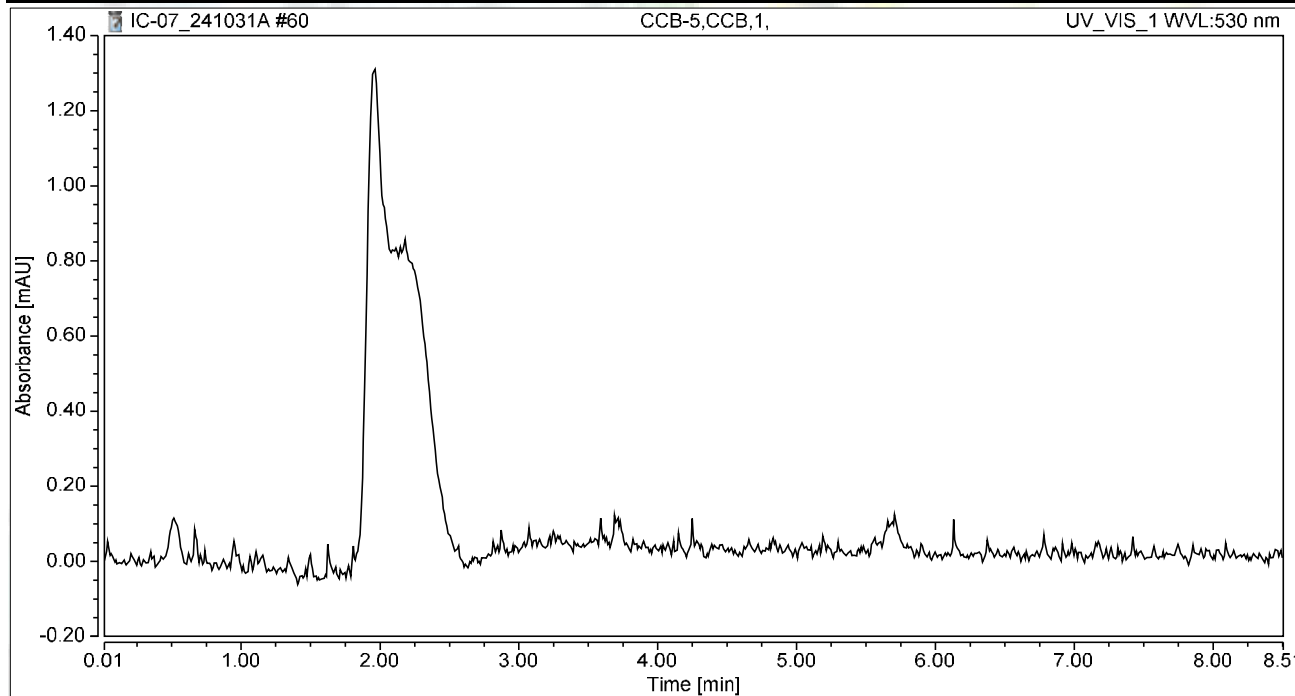
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	1.377	7.831	100.00	100.00	4.8512
Total:			1.377	7.831	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.49
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 18:57	Sample Weight:	1.0000

Chromatogram



Integration Results

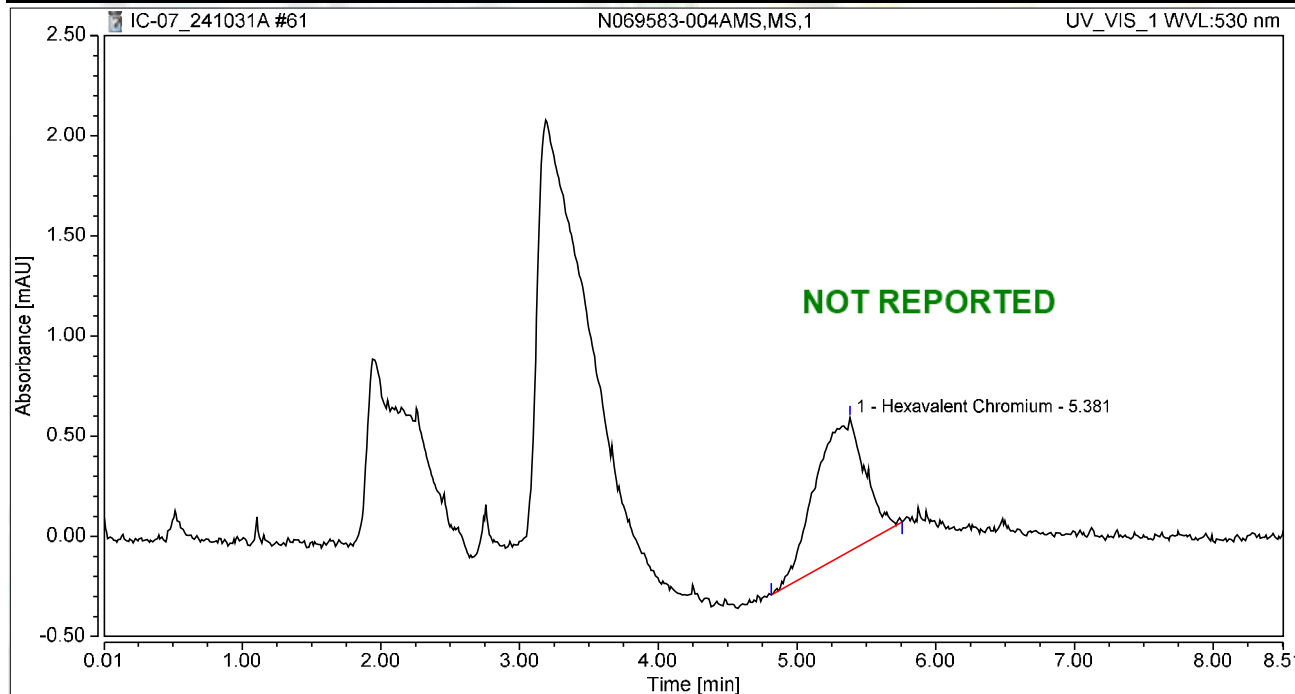
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-004AMS,MS,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 19:06	Sample Weight:	1.0000

Chromatogram



Integration Results

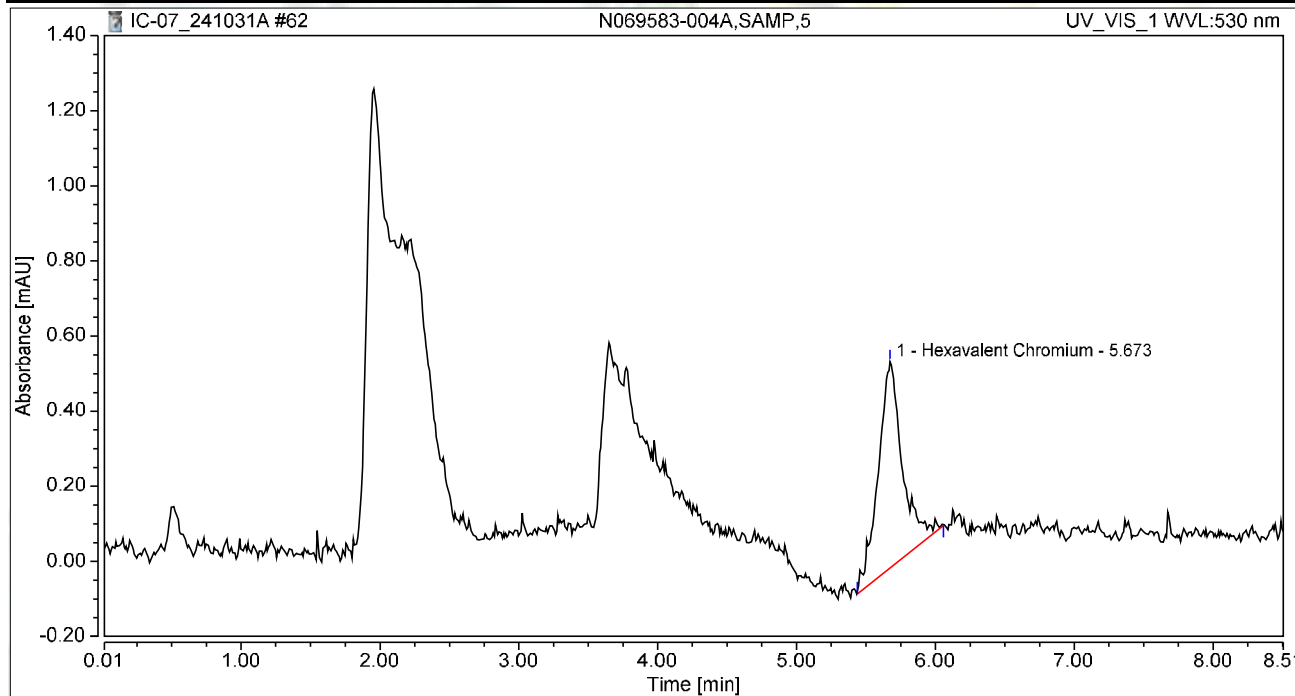
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.381	0.282	0.667	100.00	100.00	0.9952
Total:			0.282	0.667	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-004A,SAMP,5	Run Time (min):	8.49
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 19:16	Sample Weight:	1.0000

Chromatogram



Integration Results

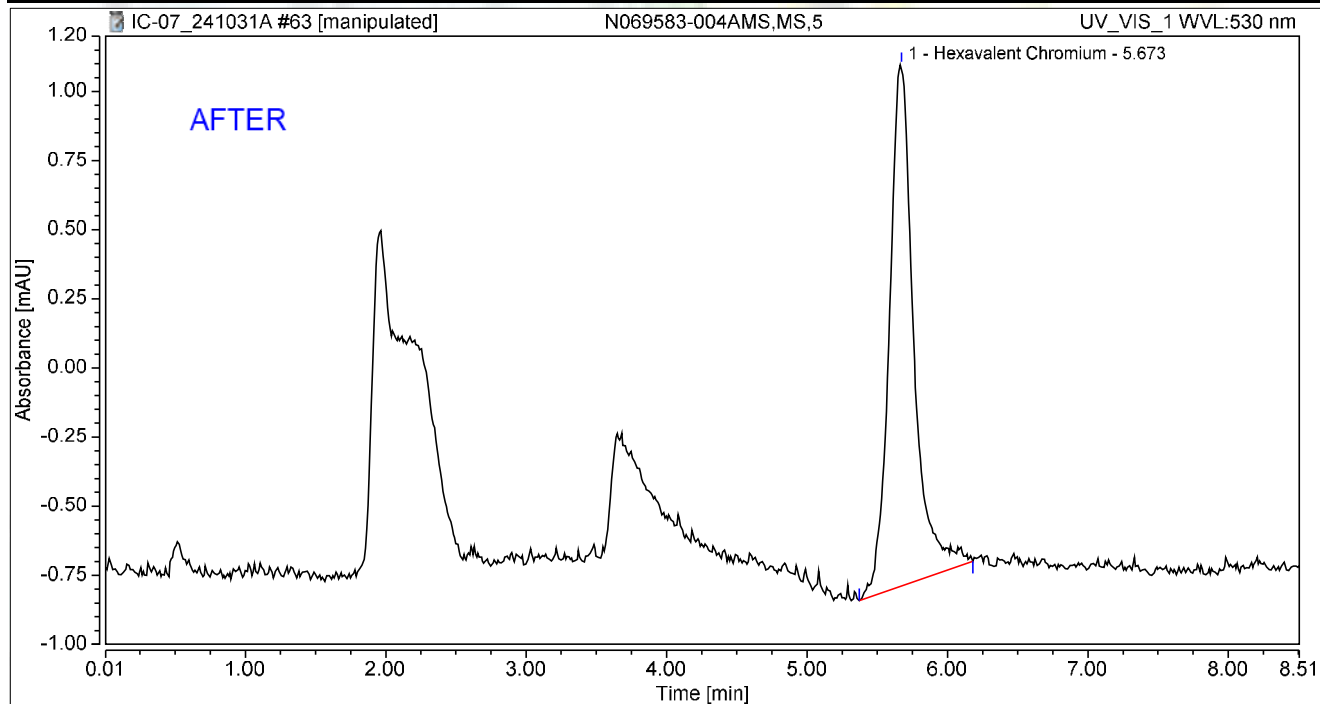
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.111	0.550	100.00	100.00	0.3915
Total:			0.111	0.550	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-004AMS,MS,5	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 19:25	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.382	1.887	100.00	100.00	1.3469
Total:			0.382	1.887	100.00	100.00	

Reviewed by:

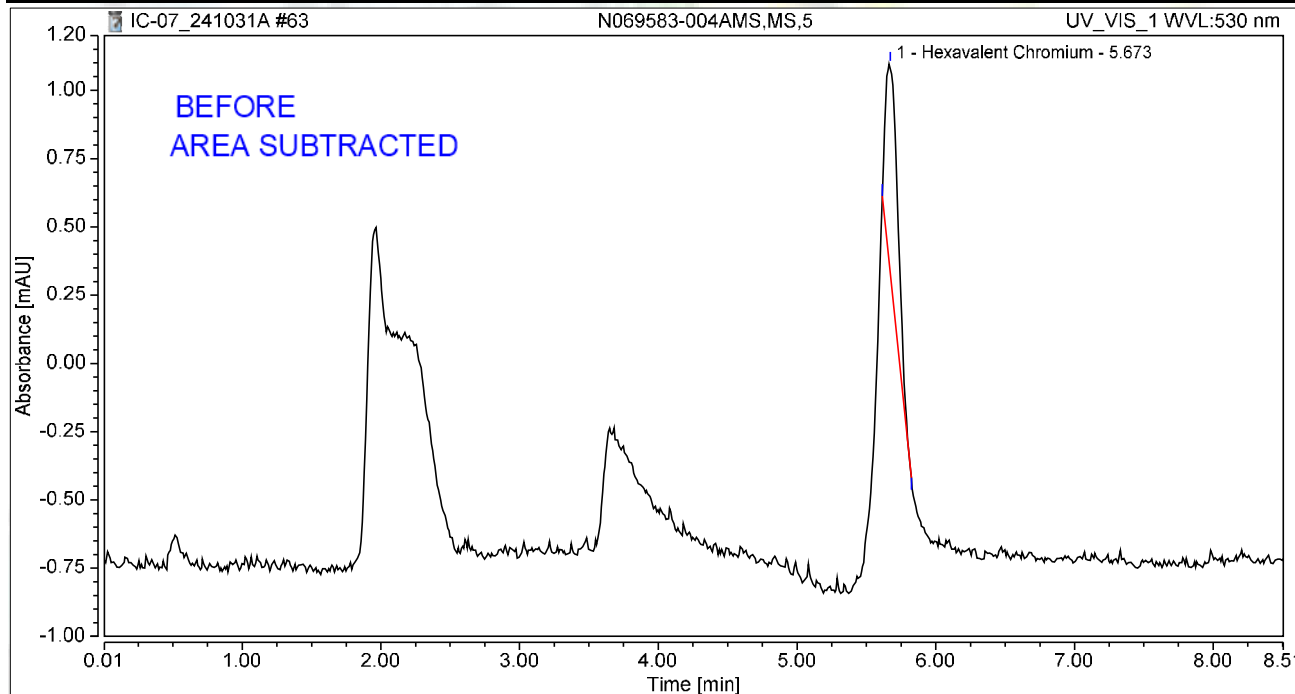
d/Recha 11/13/2024

Chromatogram and Results

Injection Details

Injection Name:	N069583-004AMS,MS,5	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 19:25	Sample Weight:	1.0000

Chromatogram



Integration Results

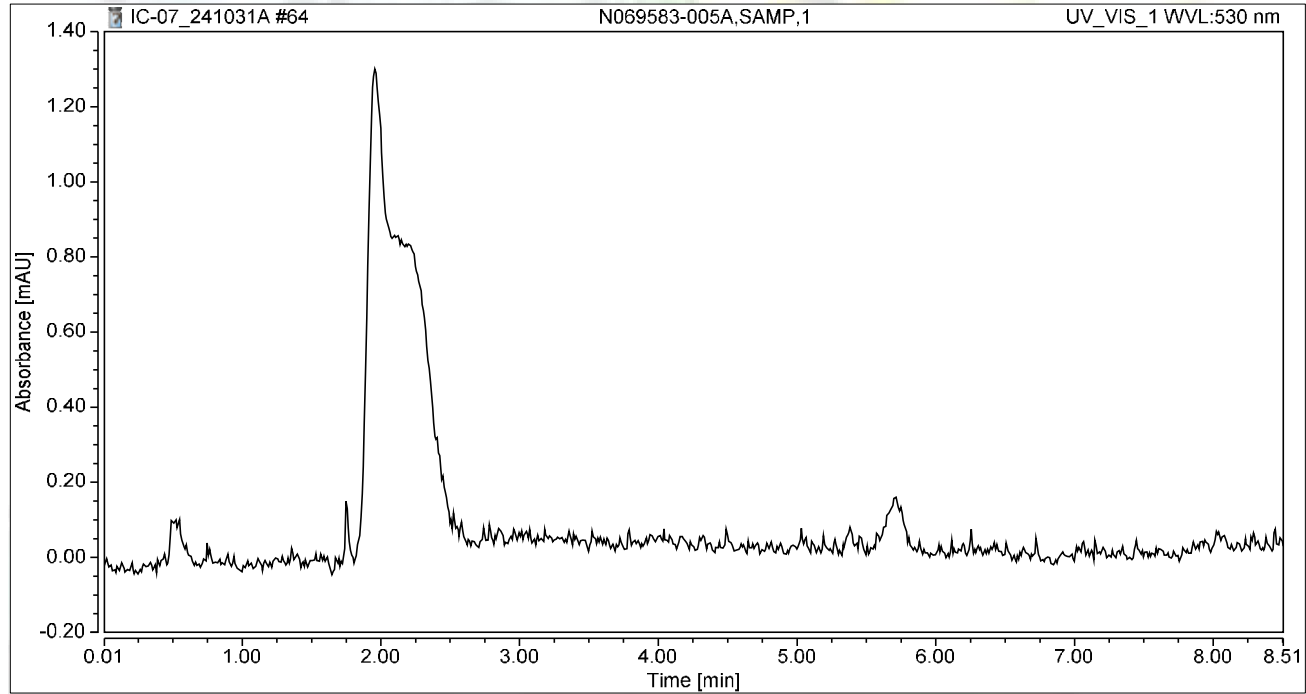
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.080	0.774	100.00	100.00	0.2828
Total:			0.080	0.774	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 19:35	Sample Weight:	1.0000

Chromatogram



Integration Results

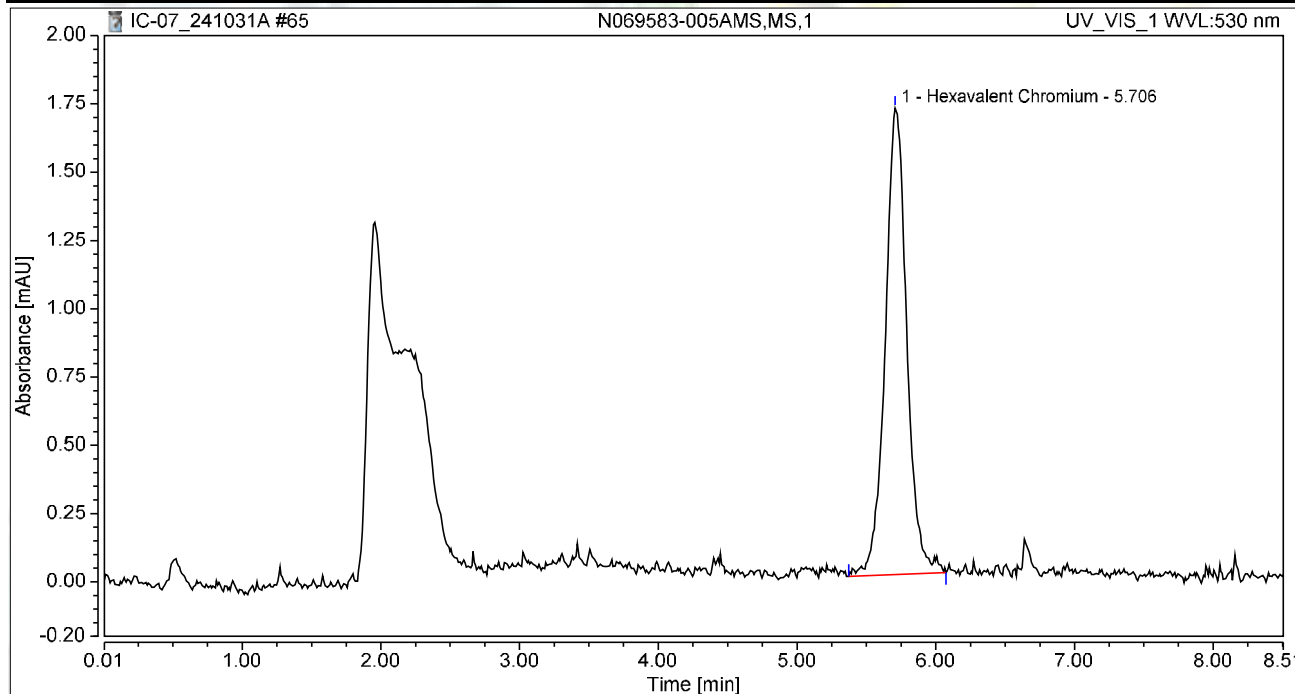
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-005AMS,MS,1	Run Time (min):	8.50
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 19:44	Sample Weight:	1.0000

Chromatogram



Integration Results

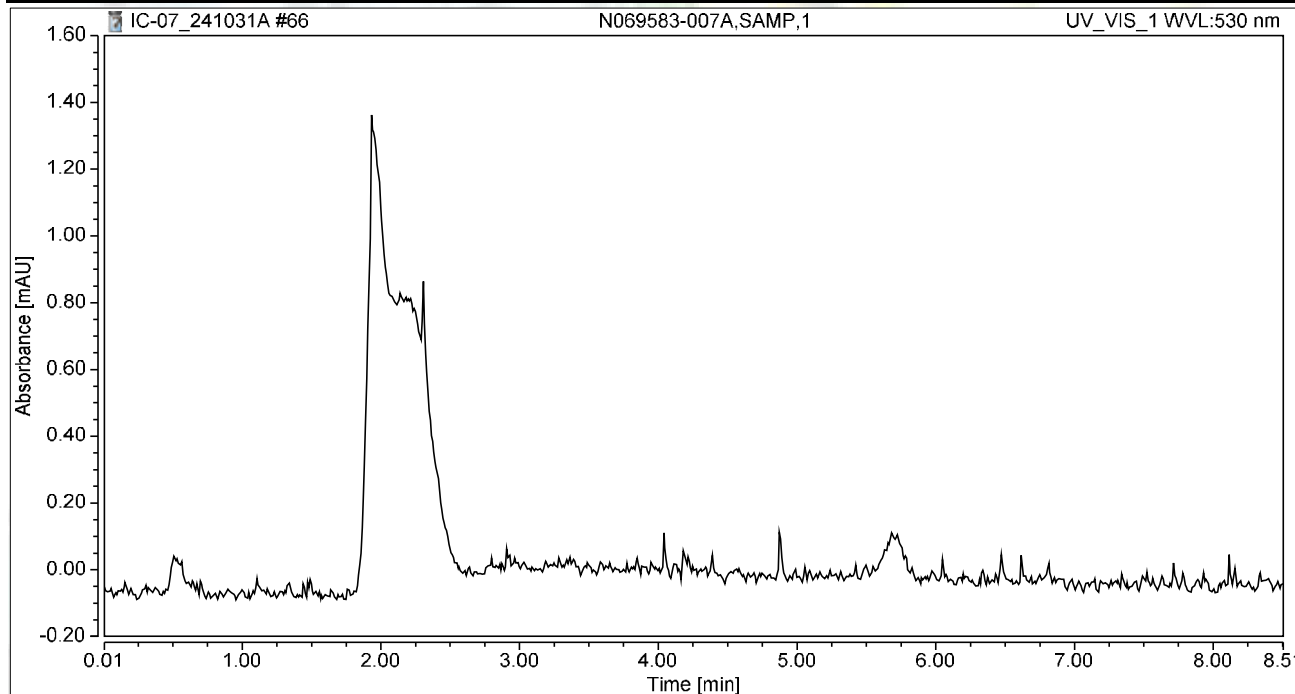
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	0.308	1.708	100.00	100.00	1.0852
Total:			0.308	1.708	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-007A,SAMP,1	Run Time (min):	8.50
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 19:54	Sample Weight:	1.0000

Chromatogram



Integration Results

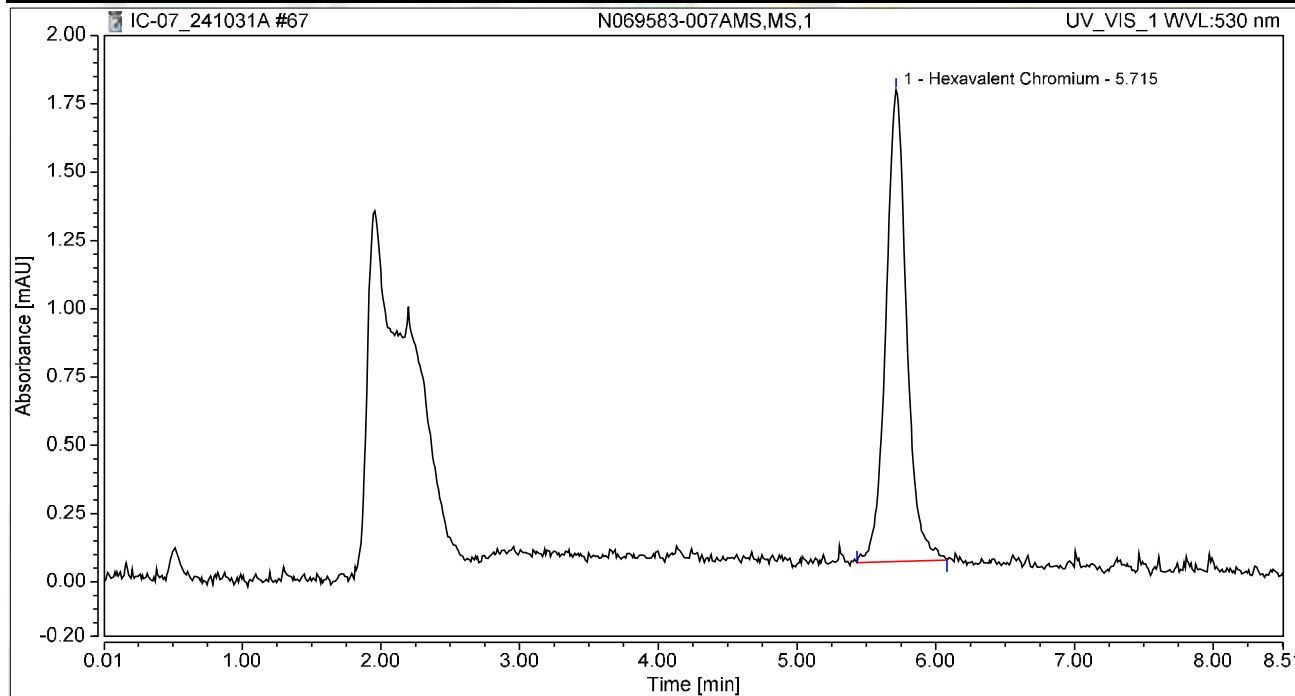
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-007AMS,MS,1	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 20:03	Sample Weight:	1.0000

Chromatogram



Integration Results

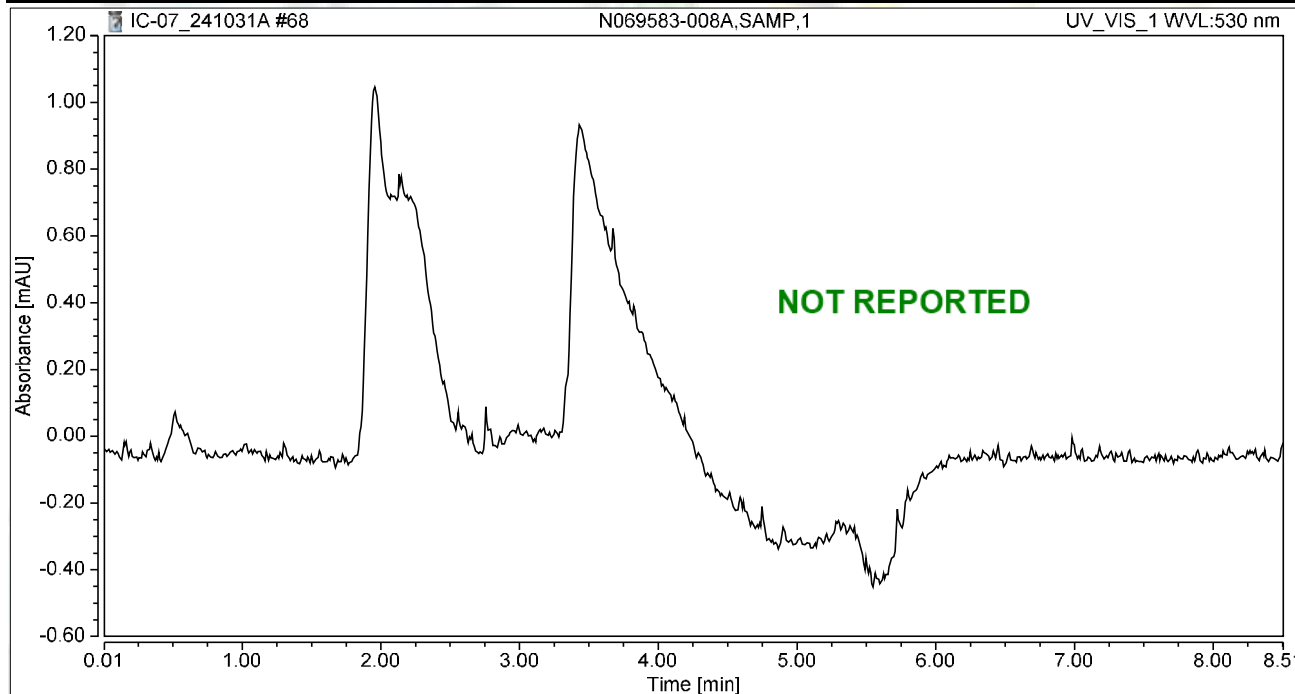
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.299	1.727	100.00	100.00	1.0532
Total:			0.299	1.727	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-008A,SAMP,1	Run Time (min):	8.50
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 20:12	Sample Weight:	1.0000

Chromatogram



Integration Results

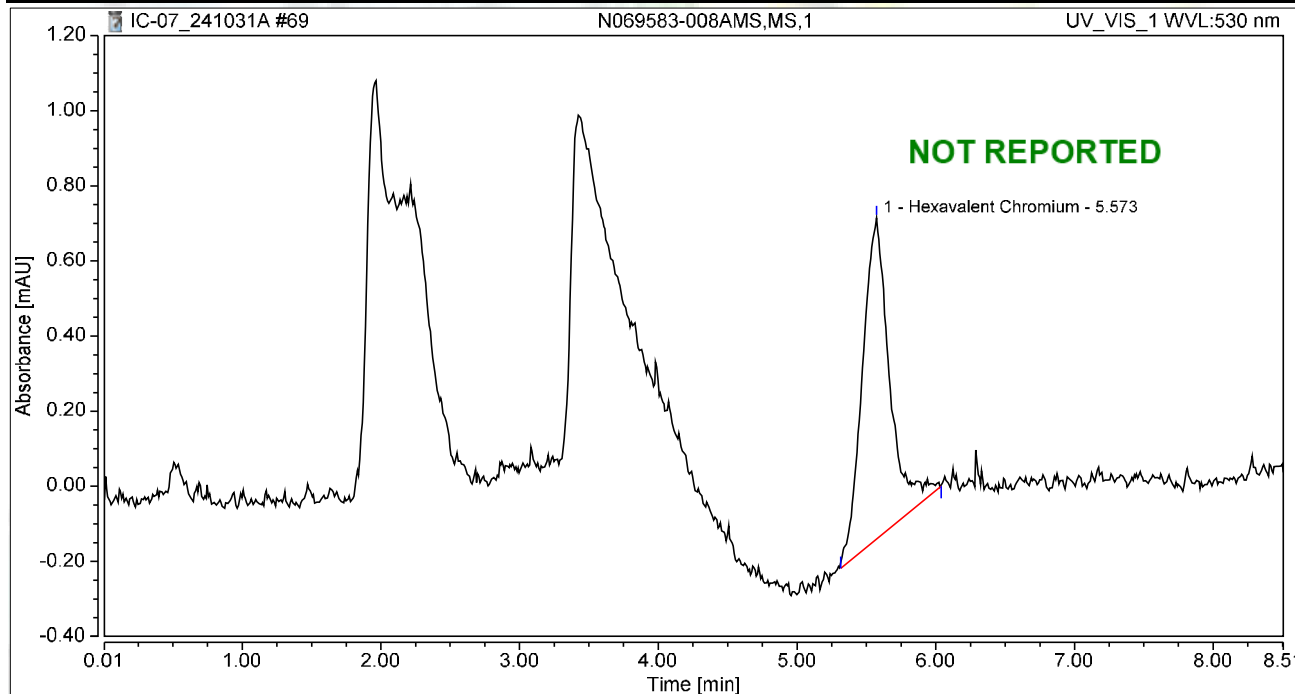
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-008AMS,MS,1	Run Time (min):	8.50
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 20:22	Sample Weight:	1.0000

Chromatogram



Integration Results

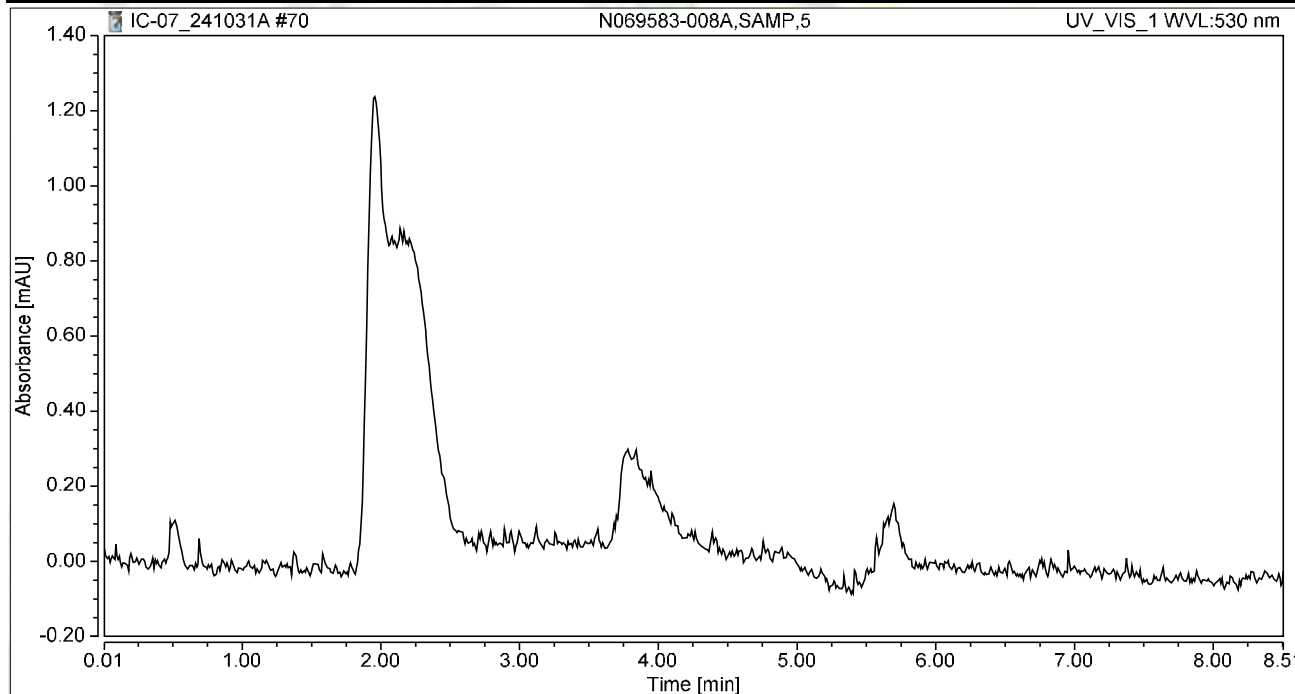
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.573	0.196	0.856	100.00	100.00	0.6894
Total:			0.196	0.856	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-008A,SAMP,5	Run Time (min):	8.50
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 20:31	Sample Weight:	1.0000

Chromatogram



Integration Results

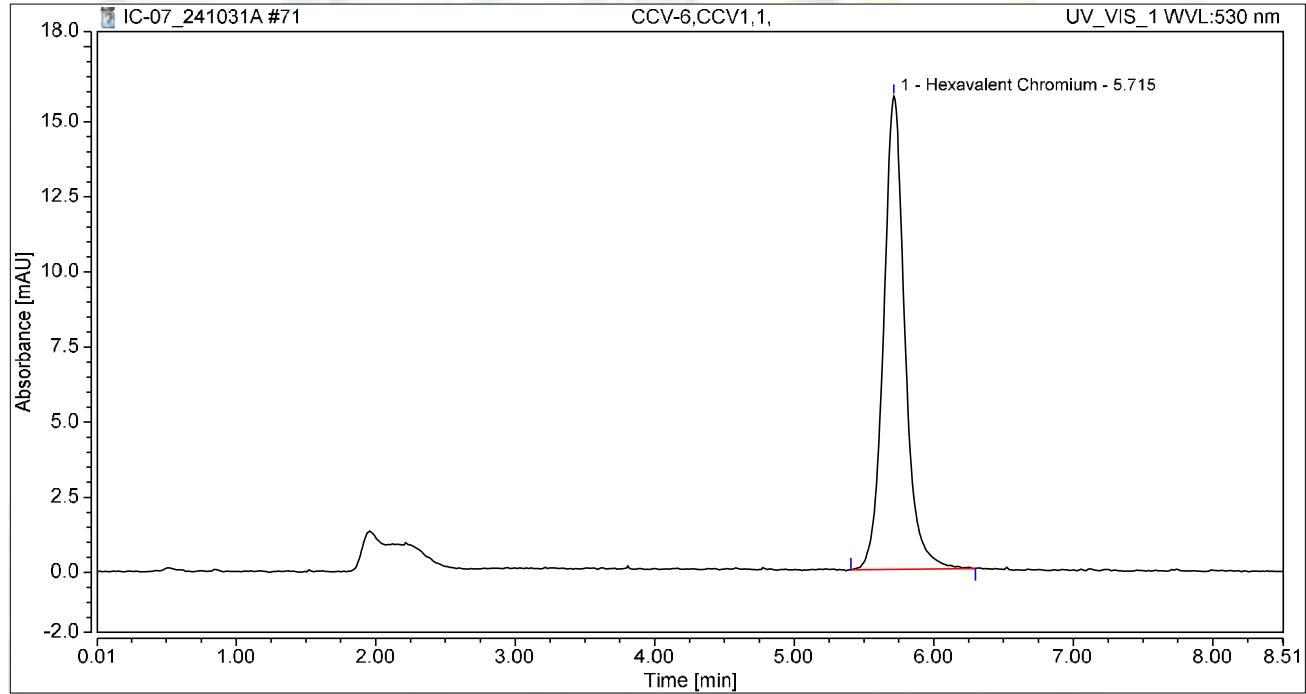
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-6,CCV1,1,	Run Time (min):	8.50
Vial Number:	30	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 20:41	Sample Weight:	1.0000

Chromatogram



Integration Results

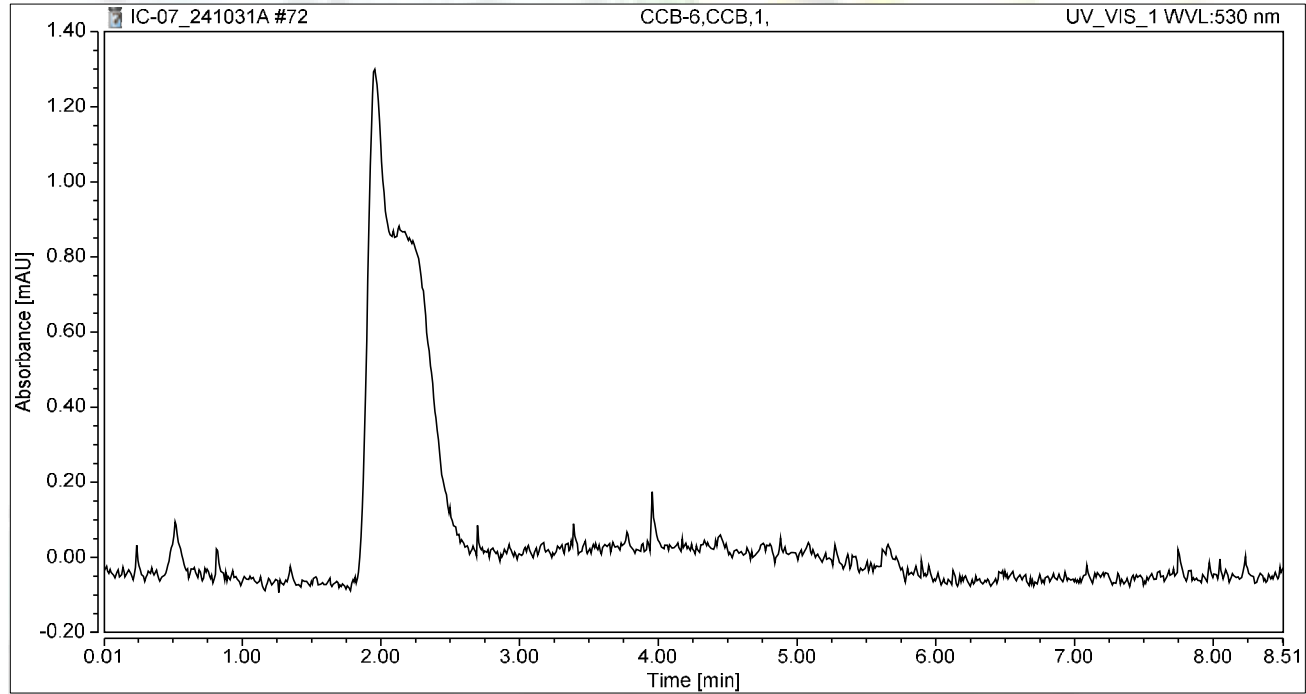
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.783	15.751	100.00	100.00	9.8090
Total:			2.783	15.751	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-6,CCB,1,	Run Time (min):	8.50
Vial Number:	31	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 20:50	Sample Weight:	1.0000

Chromatogram



Integration Results

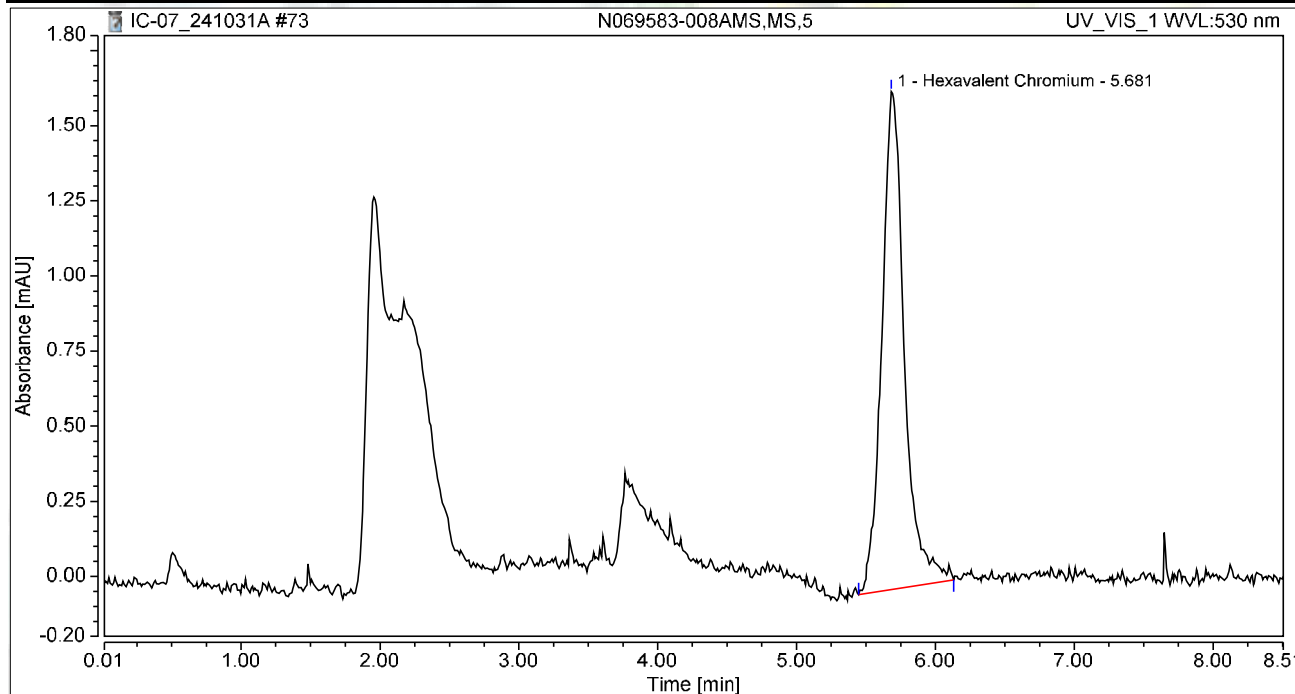
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-008AMS,MS,5	Run Time (min):	8.49
Vial Number:	32	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 21:00	Sample Weight:	1.0000

Chromatogram



Integration Results

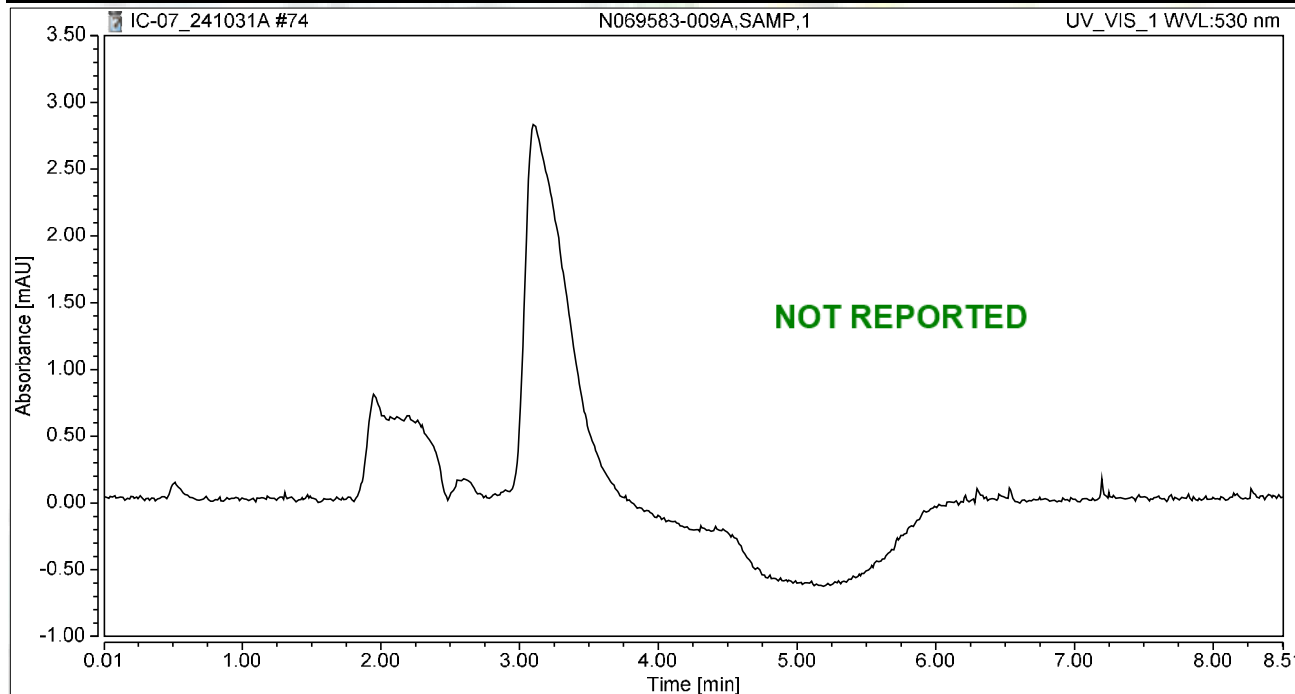
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.311	1.658	100.00	100.00	1.0976
Total:			0.311	1.658	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-009A,SAMP,1	Run Time (min):	8.50
Vial Number:	33	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 21:09	Sample Weight:	1.0000

Chromatogram



Integration Results

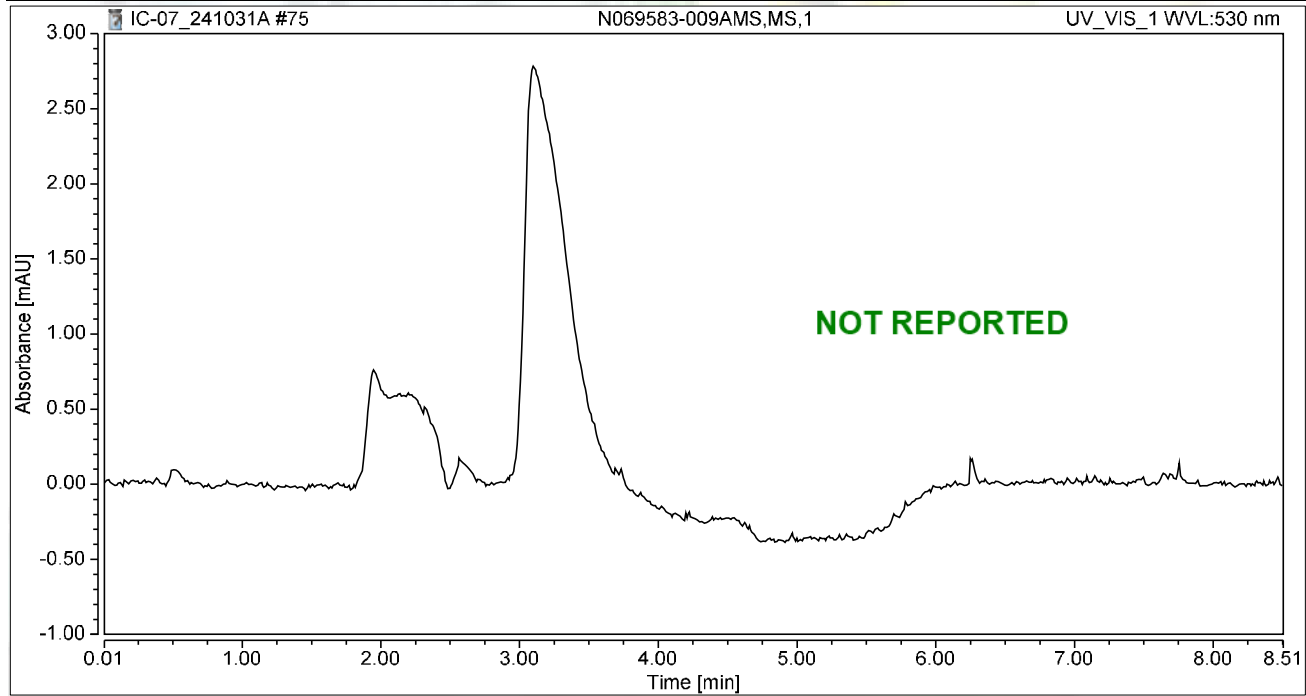
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-009AMS,MS,1	Run Time (min):	8.50
Vial Number:	34	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 21:19	Sample Weight:	1.0000

Chromatogram



Integration Results

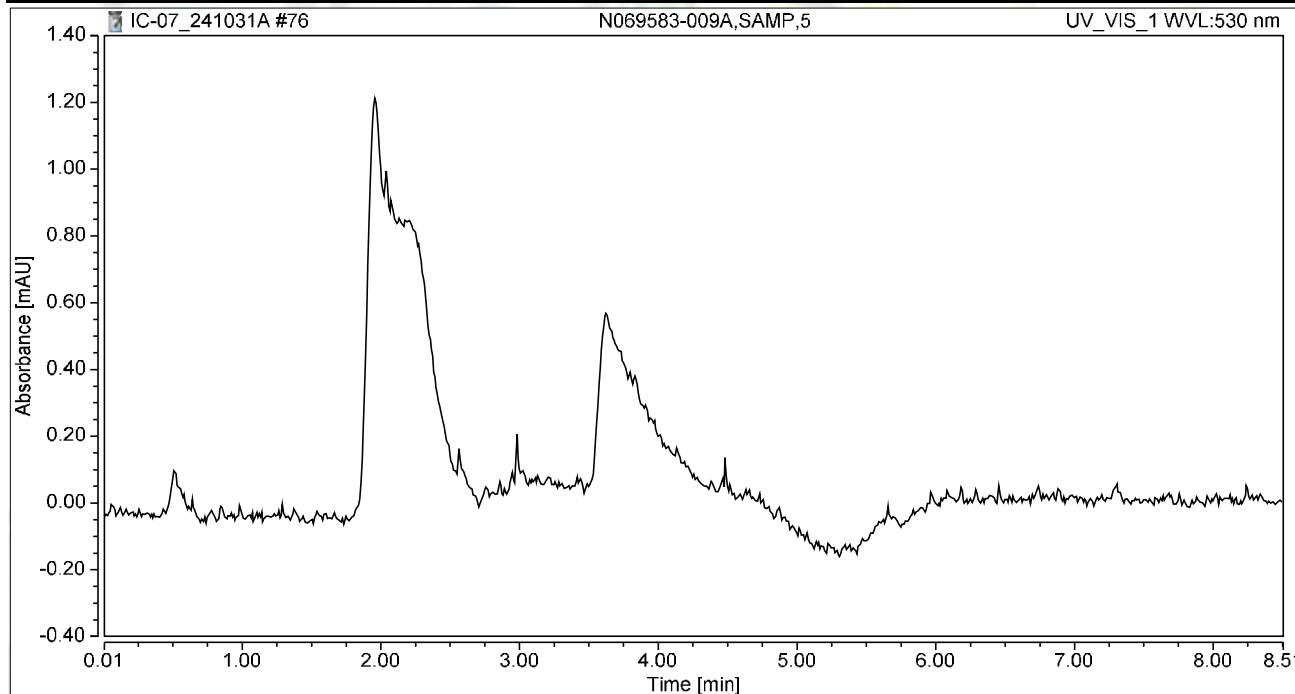
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-009A,SAMP,5	Run Time (min):	8.50
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 21:28	Sample Weight:	1.0000

Chromatogram



Integration Results

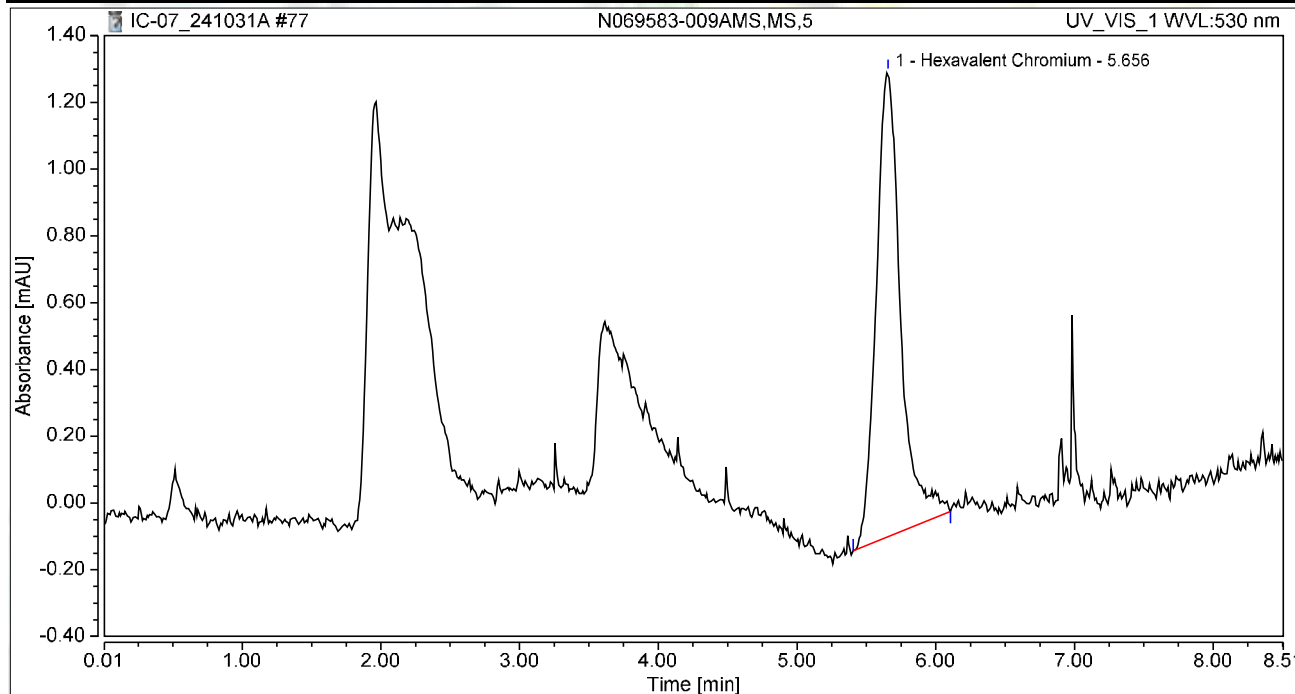
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-009AMS,MS,5	Run Time (min):	8.50
Vial Number:	36	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 21:38	Sample Weight:	1.0000

Chromatogram



Integration Results

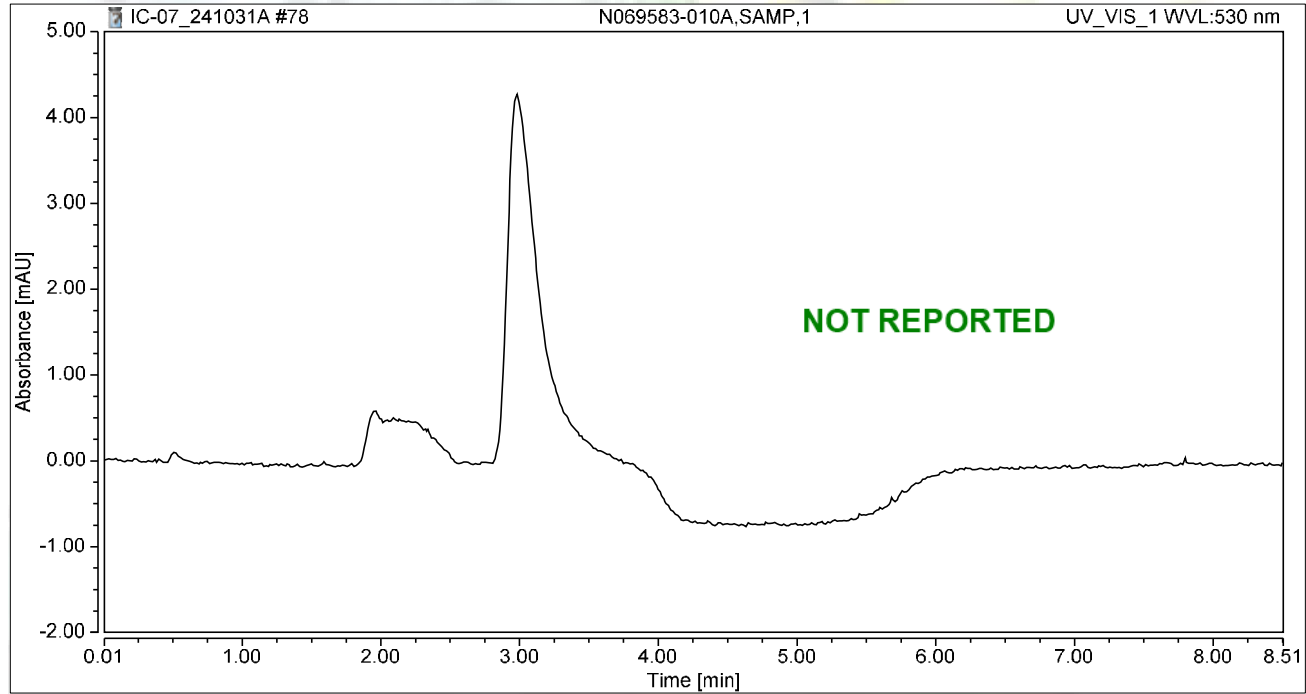
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.656	0.285	1.393	100.00	100.00	1.0053
Total:			0.285	1.393	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-010A,SAMP,1	Run Time (min):	8.50
Vial Number:	37	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 21:47	Sample Weight:	1.0000

Chromatogram



Integration Results

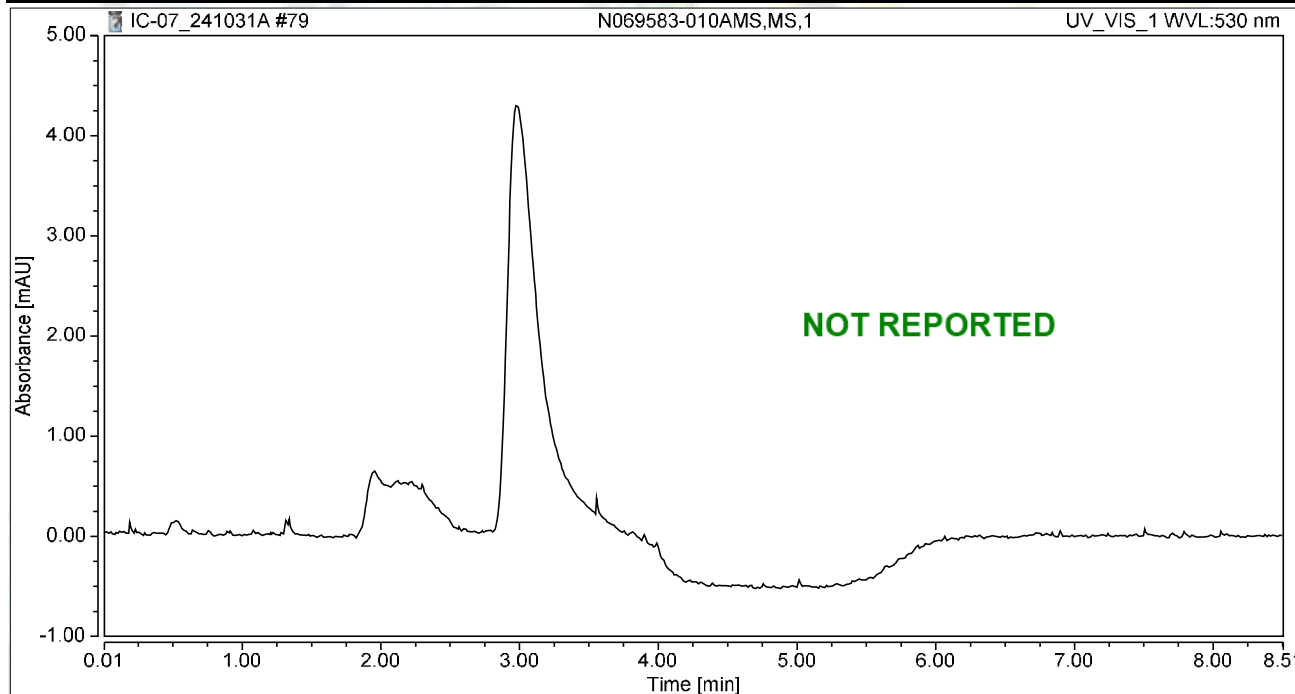
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-010AMS,MS,1	Run Time (min):	8.50
Vial Number:	38	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 21:56	Sample Weight:	1.0000

Chromatogram



Integration Results

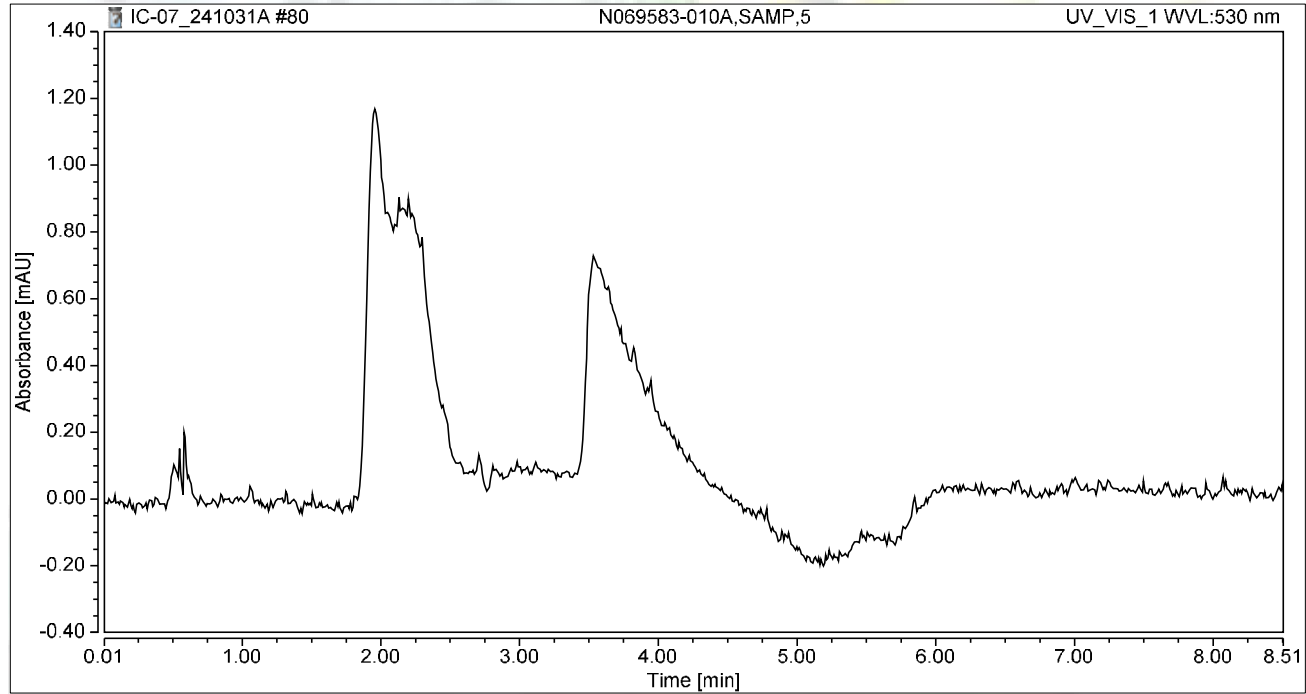
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-010A,SAMP,5	Run Time (min):	8.50
Vial Number:	39	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 22:06	Sample Weight:	1.0000

Chromatogram



Integration Results

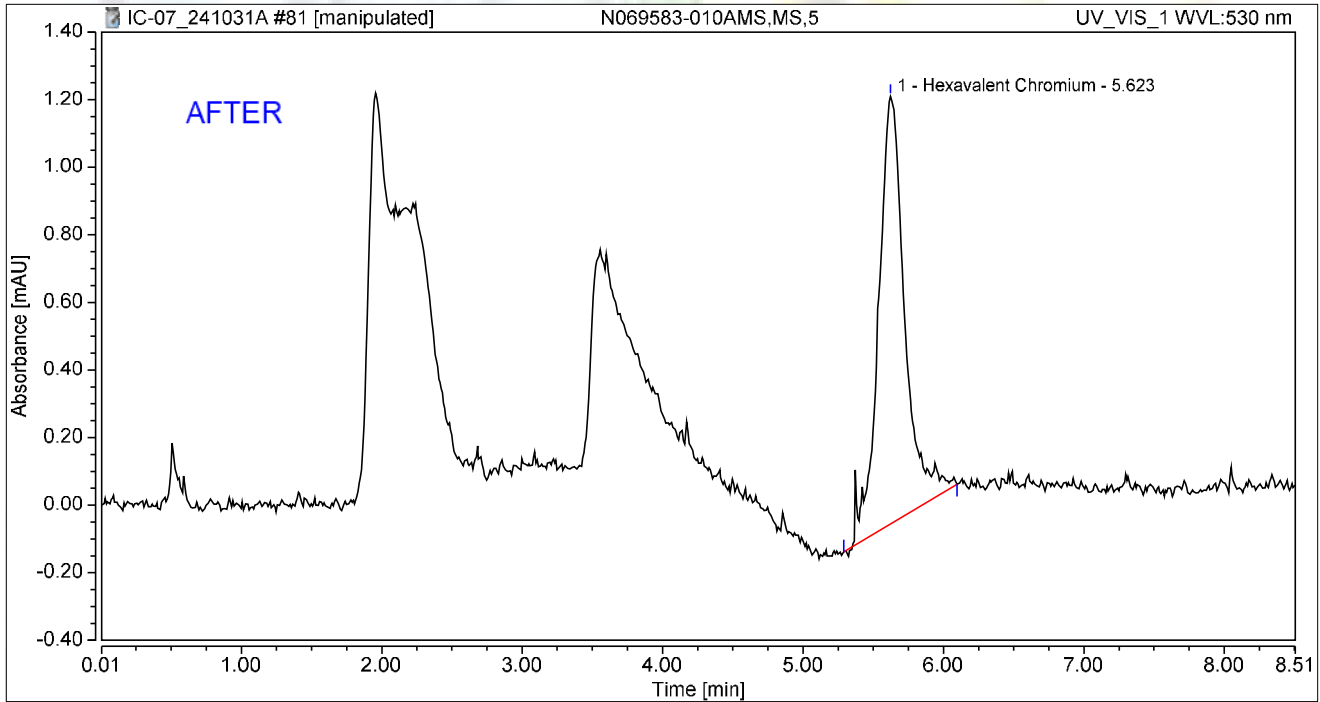
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-010AMS,MS,5	Run Time (min):	8.50
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 22:15	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.623	0.275	1.265	100.00	100.00	0.9680
Total:			0.275	1.265	100.00	100.00	

Reviewed by:

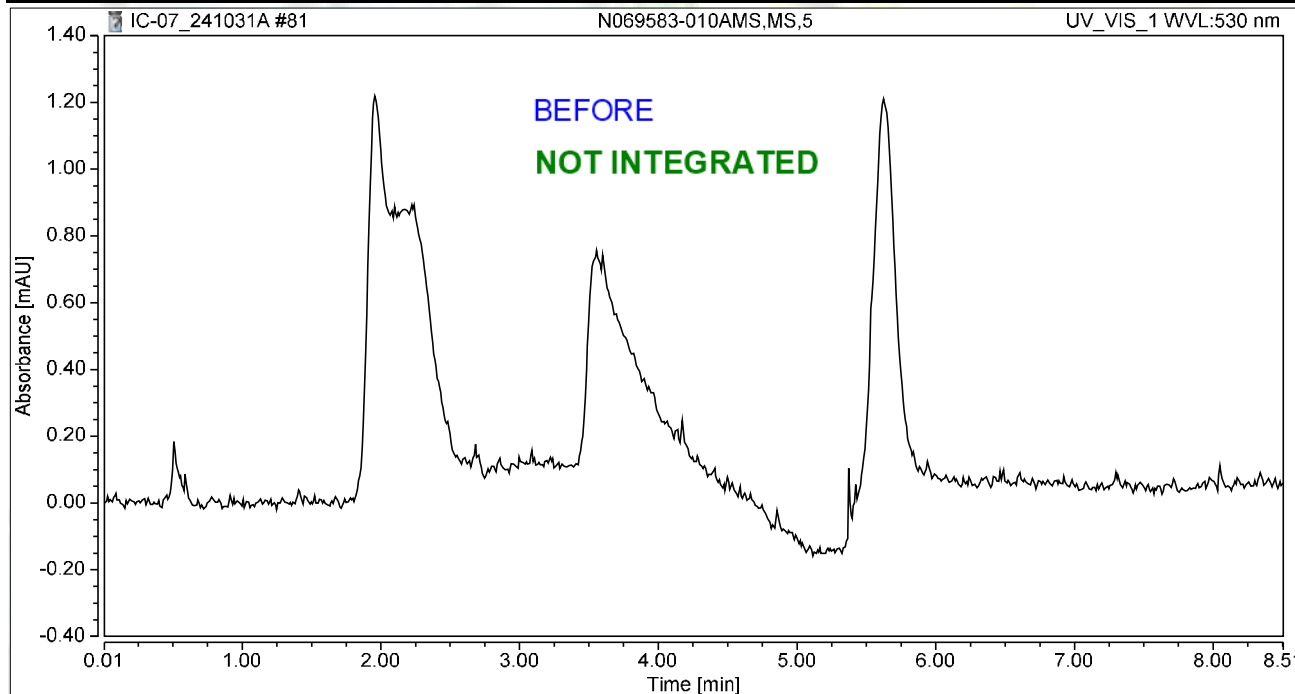
MRecha 11/13/2024

Chromatogram and Results

Injection Details

Injection Name:	N069583-010AMS,MS,5	Run Time (min):	8.50
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 22:15	Sample Weight:	1.0000

Chromatogram



Integration Results

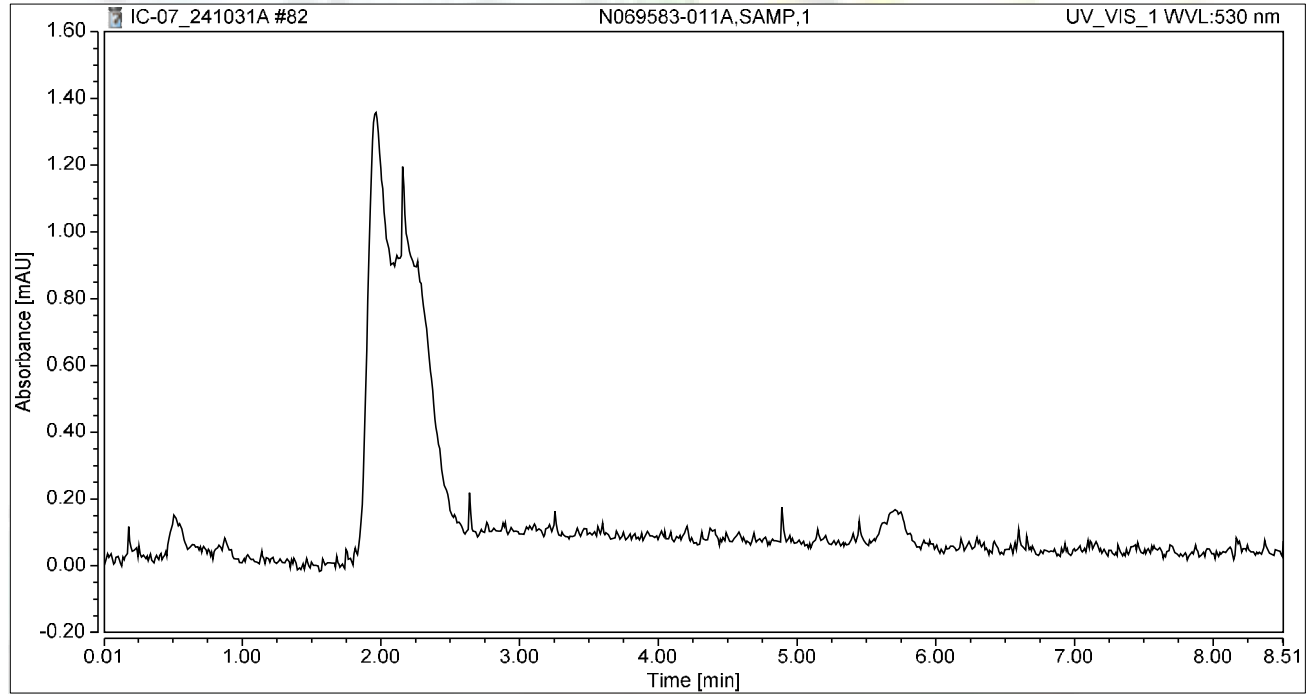
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-011A,SAMP,1	Run Time (min):	8.50
Vial Number:	41	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 22:25	Sample Weight:	1.0000

Chromatogram



Integration Results

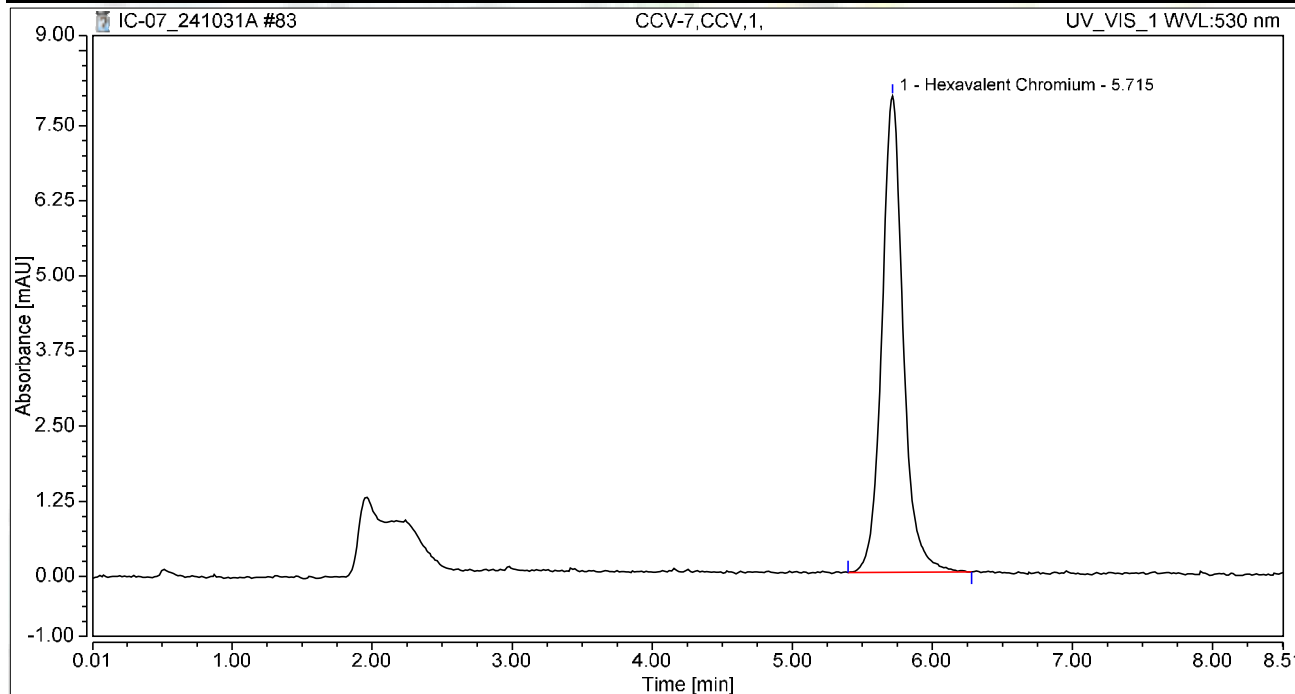
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-7,CCV,1,	Run Time (min):	8.50
Vial Number:	42	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 22:34	Sample Weight:	1.0000

Chromatogram



Integration Results

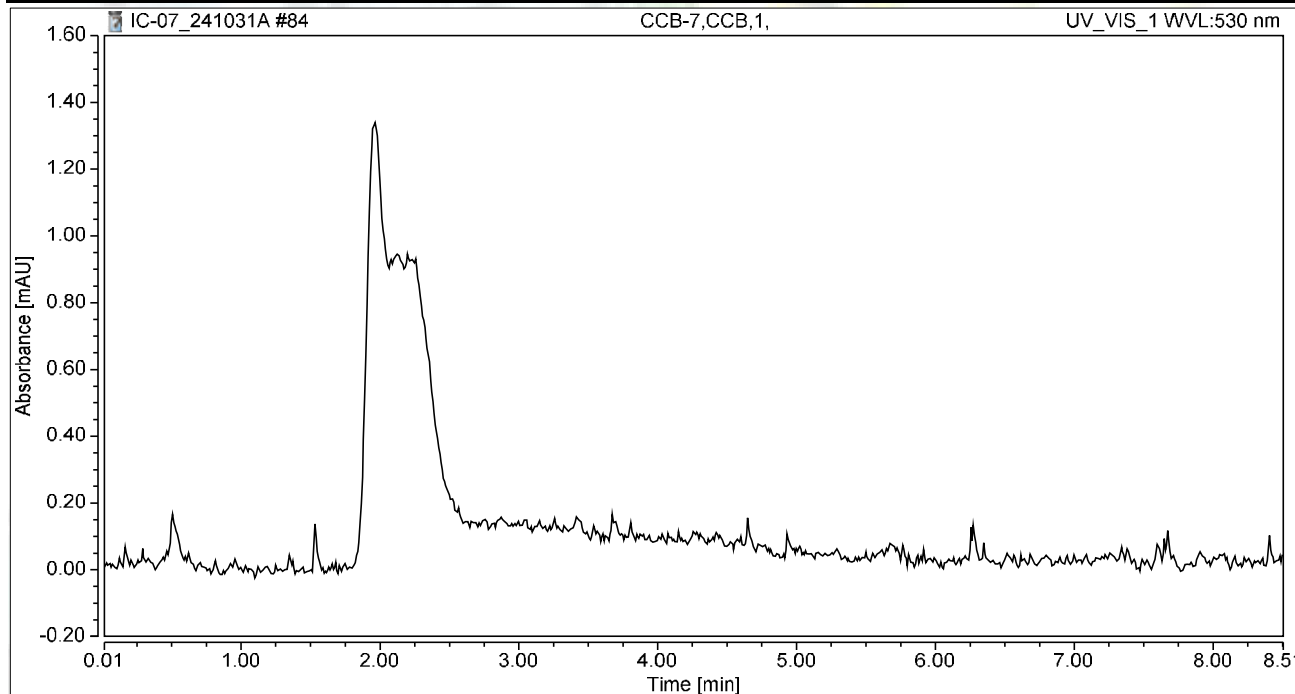
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	1.403	7.927	100.00	100.00	4.9432
Total:			1.403	7.927	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-7,CCB,1,	Run Time (min):	8.49
Vial Number:	43	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 22:44	Sample Weight:	1.0000

Chromatogram



Integration Results

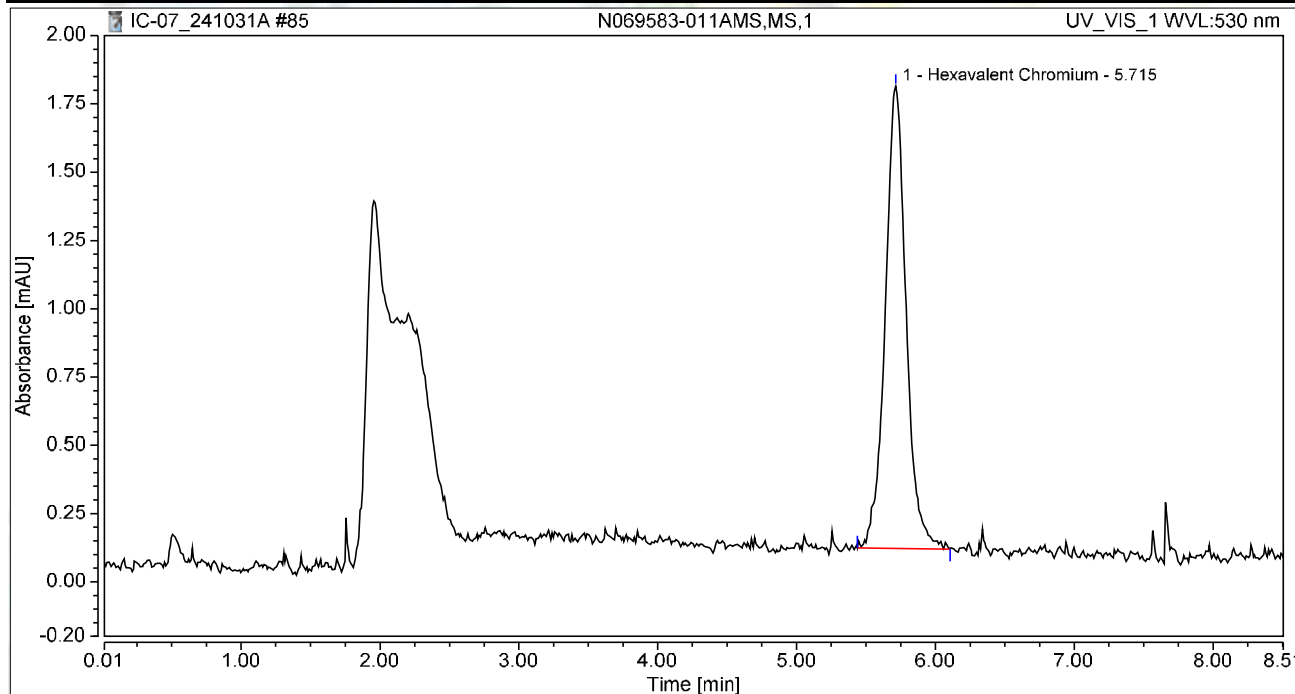
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069583-011AMS,MS,1	Run Time (min):	8.49
Vial Number:	44	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 22:53	Sample Weight:	1.0000

Chromatogram



Integration Results

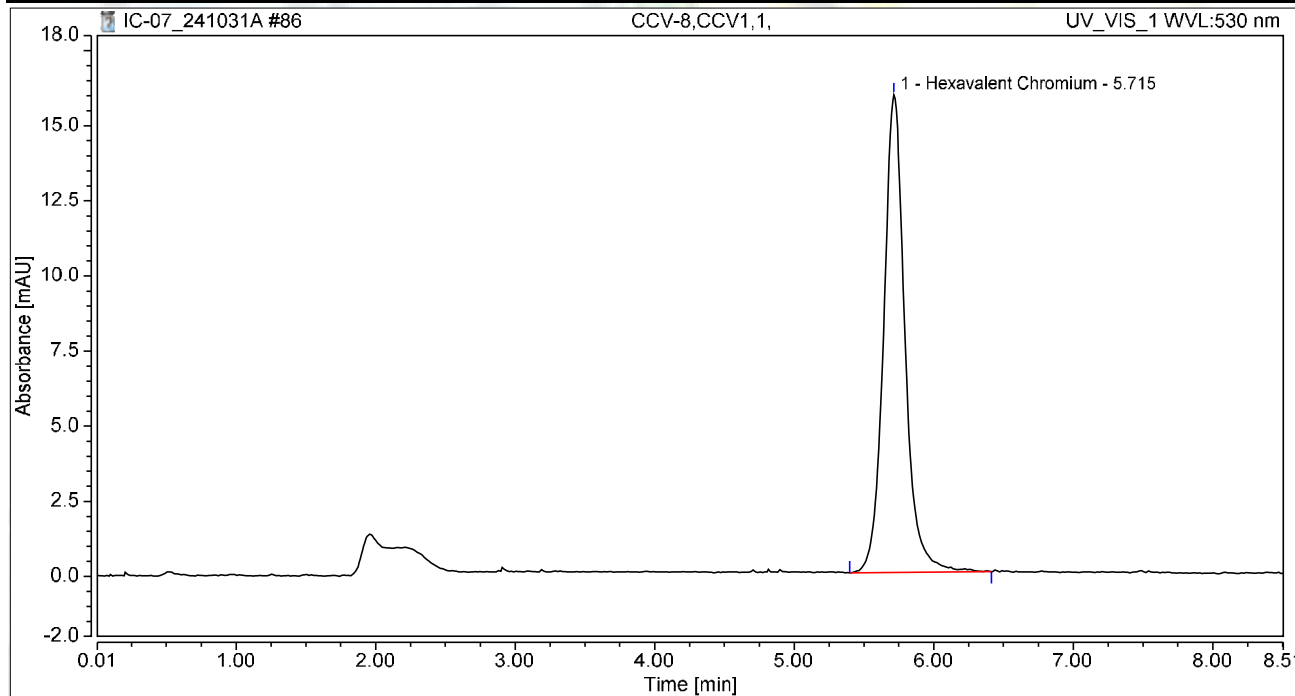
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	0.296	1.693	100.00	100.00	1.0434
Total:			0.296	1.693	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-8,CCV1,1,	Run Time (min):	8.50
Vial Number:	45	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 23:03	Sample Weight:	1.0000

Chromatogram



Integration Results

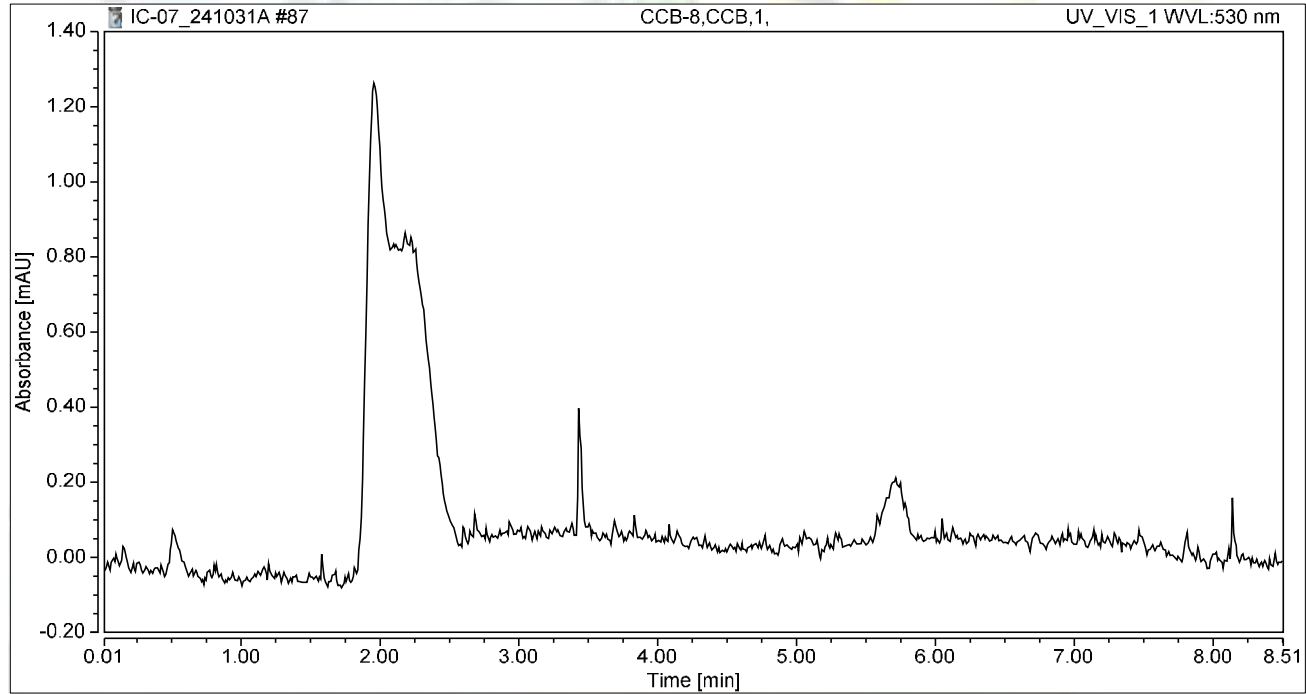
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.806	15.894	100.00	100.00	9.8907
Total:			2.806	15.894	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-8,CCB,1,	Run Time (min):	8.49
Vial Number:	46	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 23:12	Sample Weight:	1.0000

Chromatogram



Integration Results

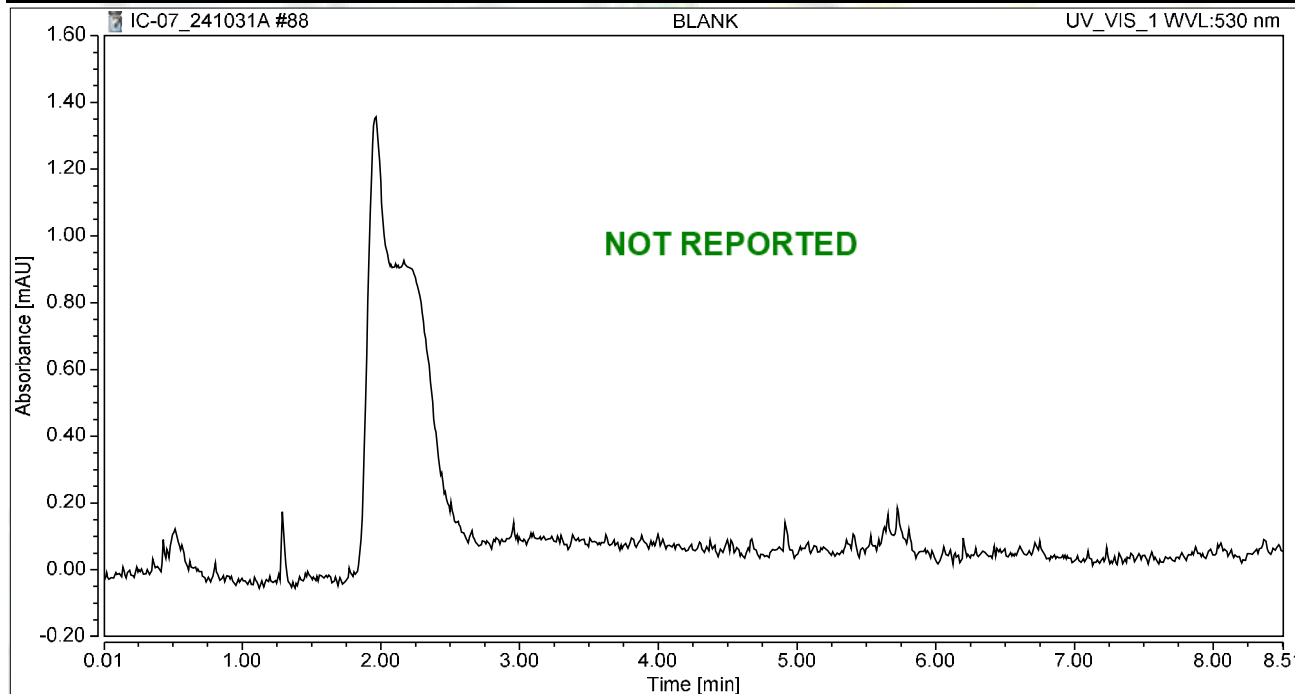
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	47	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	31/Oct/24 23:22	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

SM 2320 B



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Wet Chemistry Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

FIRST LEVEL REVIEW:

QC Batch Number: R195337

Analyst: LSR

ASSET #: N069585

Date Analyzed: 2-Nov

Method: EPA 2320

	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
Initial Calibration						
1. ICAL before initial sample analysis or every 24 hrs.			X			X
2. Does correlation coefficient, r, meet criteria ?(r = 0.995)			X			X
3. ICV within ± 15% of expected value.			X			X
Continuing Calibration						
4. CCV after every 10 samples and at the end of analysis sequence.			X			X
5. CCV within ± 15% of expected value.			X			X
6. Calibration blanks run after ICV and CCV?			X			X
7. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)			X			X
Sample Information						
8. All samples are within linear range.			X			X
9. Are all samples analyzed within hold time.	X			X		
QC Items						
10. Method blank values are below 1/2 the reporting limit.			X			X
11. LCS compounds within control limits.	X			X		
12. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
13. Are Non-Conformances documented			X			X
14. Runlog complete and included in package.	X			X		
15. Spectrophotometer tape included (Spec work only)			X			X
16. Digestion log complete and included in package (if applicable)			X			X
Preliminary Report						
17. Does the raw data match the preliminary report?	X			X		
18. Are analytical results correct?	X			X		
19. Is the QC summary report present and complete?	X			X		

Comments:

SECOND LEVEL REVIEW:

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer LSR

Date: 11/13/2024

2nd Level Reviewer JRB 11/14/2024
for NS

Date: _____

SAMPLE CALCULATION



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Sample ID: **N069585-001C @ pH 8.00**

A. Standardization of Sulfuric Acid (titrant):

$$\text{Normality of acid} = (A) (B) / (53.00) (C)$$

Where:

A, grams weighed for Na₂CO₃ solution (Na₂CO₃ Standardization Solution)
B, mL Na₂CO₃ solution taken for titration, and
C, ml of sulfuric acid used to inflection point

Spike Standards

Na₂CO₃ Standardization Solution, ACS Grade (1.00 ml = 2500ug as CaCO₃):
Dissolve 2.650 grams of Na₂CO₃ in distilled water and dilute to 1 liter.

LCS/MS/MSD Stock NaHCO₃, ACS Grade (1.00 ml = 5000 ug as CaCO₃):
Dissolve 0.8398 grams of NaHCO₃ in distilled water and dilute to 1 liter.

Therefore,

$$\begin{aligned} \text{Normality of Acid} &= (2.65 \text{ g/L}) (5\text{mL}) / (53.00) (12.40 \text{ mL}) \\ &= \mathbf{0.02016 \text{ N}} \end{aligned}$$

B. CALCULATION OF ALKALINITY (for a 50 ml sample)

$$\text{Total Alkalinity (as CaCO}_3\text{), mg/L} = M_{\text{vol.}} * N \text{ H}_2\text{SO}_4 * \text{DF} * 1000$$

Where:

M_{vol.}, Volume titrant used to reach pH 4.5, ml
N, Normality of H₂SO₄
DF, Dilution Factor = (50 ml) / (Vol. of Sample used)

Therefore,

$$\begin{aligned} \text{Total Alkalinity (as CaCO}_3\text{), mg/L} &= (8.10 \text{ mL}) (0.02016 \text{ N}) (1) * 1000 \\ &= 163.2960 \text{ mg/L} \end{aligned}$$

Reporting results in two significant figures,

$$= \mathbf{160 \text{ mg/L as CaCO}_3}$$

C. SPECIATED ALKALINITY:

Phenolphthalein Alkalinity

$$\begin{aligned} \text{P alkalinity, mg/L as CaCO}_3 &= P_{\text{vol.}} \cdot N \text{ H}_2\text{SO}_4 \cdot \text{DF} \cdot 1000 \\ &= (0) (0.02016 \text{ N}) (1) \cdot 1000 \\ &= \mathbf{0 \text{ mg/L}} \end{aligned}$$

Total Alkalinity

$$\begin{aligned} \text{T alkalinity, mg/L as CaCO}_3 &= M_{\text{vol.}} \cdot N \text{ H}_2\text{SO}_4 \cdot \text{DF} \cdot 1000 \\ &= (8.10 \text{ mL}) (0.02016) (1) \cdot 1000 \\ &= \mathbf{163.2960 \text{ mg/L as CaCO}_3} \end{aligned}$$

Where:

- $P_{\text{vol.}}$ - Volume titrant used to reach pH 8.3, ml
- $M_{\text{vol.}}$ - Volume titrant used to reach pH 4.5, ml
- N - Normality of H_2SO_4
- DF - Dilution Factor = (50 ml) / (Vol. of Sample used)

Then OH, CO_3 , HCO_3 alkalinities as CaCO_3 will be calculated as follows:

Result of Titration	OH Alkalinity as CaCO_3	CO_3 Alkalinity as CaCO_3	HCO_3 Alkalinity as CaCO_3
$P = 0$	0	0	T
$P < \frac{1}{2} T$	0	2P	$T - 2P$
$P = \frac{1}{2} T$	0	2P	0
$P > \frac{1}{2} T$	$2P - T$	$2(T - P)$	0
$P = T$	T	0	0

Therefore,

$$\text{OH Alkalinity as CaCO}_3 = \mathbf{0}$$

$$\text{CO}_3 \text{ Alkalinity as CaCO}_3 = \mathbf{0}$$

$$\text{HCO}_3 \text{ Alkalinity as CaCO}_3 = \mathbf{163.2960 \text{ mg/L}}$$

Reporting results in two significant figures,

$$\text{OH Alkalinity as CaCO}_3 = \mathbf{0}$$

$$\text{CO}_3 \text{ Alkalinity as CaCO}_3 = \mathbf{0}$$

$$\text{HCO}_3 \text{ Alkalinity as CaCO}_3 = \mathbf{160 \text{ mg/L}}$$

LOGBOOK DATA, QUANTITATION REPORT and/or SPECTRA



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SAMPLE	PH SAMPLE	AMOUNT	V@8.3	VT TO 4.5	Sample Type	Standardization:			
LCS-1	8.13	50	0.00	5.000	LCS	Spike amt:	5	ml	
N069567-001C	7.77	50	0.00	18.00	SAMP	Titrant used:	12.400	ml	
N069568-001C	7.68	50	0.00	14.85	SAMP				
N069569-001C	7.68	50	0.00	13.10	SAMP	N H2SO4	0.02016	Normal	
N069570-001C	7.39	50	0.00	28.05	SAMP				
N069571-001C	7.55	50	0.00	11.80	SAMP	Date Analyzed:	11/2/24		
N069572-001C	7.70	50	0.00	13.95	SAMP		12:05 PM		
N069573-001C	7.90	50	0.00	12.70	SAMP	Analyzed By:	LSR		
N069585-001C	8.00	50	0.00	8.10	SAMP				
N069606-001C	7.74	50	0.00	13.10	SAMP				
N069607-001C	7.80	50	0.00	13.50	SAMP	Sodium Carbonate:	CINV-220422A		
N069609-001C	6.40	200	0.00	0.70	SAMP	Sodium Bicarbonate:	CINV-220510A		
N069610-001C	7.72	50	0.00	13.40	SAMP	Sulfuric Acid:	R241102B		
N069629-001C	7.65	50	0.00	4.25	SAMP				
N069629-002C	7.76	50	0.00	4.40	SAMP				
N069642-001C	7.66	50	0.00	14.00	SAMP				
N069643-001C	7.85	50	0.00	13.50	SAMP				
N069629-001CDUP	7.65	50	0.00	4.30	DUP				
N069629-001CMSD	7.90	50	0.00	9.30	MS				
N069629-001CMSD	7.91	50	0.00	9.40	MSD				
Total alkalinity =	(2B-C) x N x 50 000					B= mL of titrant to first recorded pH(4.3-4.7)			
	mL sample					C= total mL of titrant to reach 0.3 unit lower			
						N= normality of acid			
N069609-001C	2.5200								

Reviewed by:


JRB 12/21/2024

11/7/2024 LSR

Date Analyzed:		11/2/24	Reagents:				Standardization:						P = 0
Time Started:		12:05 PM		Sodium Carbonate:	CINV-220422A		Spike amt:	5	mL				P < 1/2 T
Analyzed By:		LSR		Hydrochloric Acid:	0		Titrant used:	12.4	mL				P = 1/2 T
				Sulfuric Acid:	R241102B								P > 1/2 T
							N H2SO4	0.02016	N				P = T
Sample ID	Sample Vol/Wt.	Sample pH	Std. Code	Spike Amount	Spike Conc.	Normality, Titrant	Vol. Used to pH 8.3, ml.	Vol. Used pH 8.3 to 4.5, ml.	Total Vol. Used, ml.	DF (50ml/Vsamp.)	P Alkalinity	T Alkalinity	Comments
LCS-1	50	8.13				0.02016	0.00	5.00	5.00	1	0.00	100.81	
N069567-001C	50	7.77				0.02016	0.00	18.00	18.00	1	0.00	362.90	
N069568-001C	50	7.68				0.02016	0.00	14.85	14.85	1	0.00	299.40	
N069569-001C	50	7.68				0.02016	0.00	13.10	13.10	1	0.00	264.11	
N069570-001C	50	7.39				0.02016	0.00	28.05	28.05	1	0.00	565.52	
N069571-001C	50	7.55				0.02016	0.00	11.80	11.80	1	0.00	237.90	
N069572-001C	50	7.7				0.02016	0.00	13.95	13.95	1	0.00	281.25	
N069573-001C	50	7.9				0.02016	0.00	12.70	12.70	1	0.00	256.05	
N069585-001C	50	8				0.02016	0.00	8.10	8.10	1	0.00	163.31	
N069606-001C	50	7.74				0.02016	0.00	13.10	13.10	1	0.00	264.11	
N069607-001C	50	7.8				0.02016	0.00	13.50	13.50	1	0.00	272.18	
N069609-001C	200	6.4				0.02016	0.00	0.70	0.70	0.25	0.00	3.53	
N069610-001C	50	7.72				0.02016	0.00	13.40	13.40	1	0.00	270.16	
N069629-001C	50	7.65				0.02016	0.00	4.25	4.25	1	0.00	85.69	
N069629-002C	50	7.76				0.02016	0.00	4.40	4.40	1	0.00	88.71	
N069642-001C	50	7.66				0.02016	0.00	14.00	14.00	1	0.00	282.26	
N069643-001C	50	7.85				0.02016	0.00	13.50	13.50	1	0.00	272.18	
N069629-001CDL	50	7.65				0.02016	0.00	4.30	4.30	1	0.00	86.69	
N069629-001CMS	50	7.9				0.02016	0.00	9.30	9.30	1	0.00	187.50	
N069629-001CMS	50	7.91				0.02016	0.00	9.40	9.40	1	0.00	189.52	

11/7/2024 LSR

Reviewed by:

 12/21/2024

Speciated, Alkalinity as CaCO3

SM 2320B

Date Analyzed:	11/2/24
Time:	12:05 PM
Analyzed By:	LSR

SAMPLE ID	OH	CO3	HCO3	TOTAL	CHECK	COMMENT	REMARKS
LCS-1	0.00	0.00	100.81	100.81	100.81		P = 0
N069567-001C	0.00	0.00	362.90	362.90	362.90		P = 0
N069568-001C	0.00	0.00	299.40	299.40	299.40		P = 0
N069569-001C	0.00	0.00	264.11	264.11	264.11		P = 0
N069570-001C	0.00	0.00	565.52	565.52	565.52		P = 0
N069571-001C	0.00	0.00	237.90	237.90	237.90		P = 0
N069572-001C	0.00	0.00	281.25	281.25	281.25		P = 0
N069573-001C	0.00	0.00	256.05	256.05	256.05		P = 0
N069585-001C	0.00	0.00	163.31	163.31	163.31		P = 0
N069606-001C	0.00	0.00	264.11	264.11	264.11		P = 0
N069607-001C	0.00	0.00	272.18	272.18	272.18		P = 0
N069609-001C	0.00	0.00	3.53	3.53	3.53		P = 0
N069610-001C	0.00	0.00	270.16	270.16	270.16		P = 0
N069629-001C	0.00	0.00	85.69	85.69	85.69		P = 0
N069629-002C	0.00	0.00	88.71	88.71	88.71		P = 0
N069642-001C	0.00	0.00	282.26	282.26	282.26		P = 0
N069643-001C	0.00	0.00	272.18	272.18	272.18		P = 0
N069629-001CDUP	0.00	0.00	86.69	86.69	86.69		P = 0
N069629-001CMSD	0.00	0.00	187.50	187.50	187.50		P = 0
N069629-001CMSD	0.00	0.00	189.52	189.52	189.52		P = 0

11/7/2024 LSR

Alkalinity Preparation and Runlog

Matrix: 1120

Date Extracted: 11/14/24 Reagent Lot # / Reagent ID: 2 Formulas: pH meter Calibration:
 Time Extracted: 11:44 AM Sodium Carbonate: CINV240922A $P = \frac{(\text{Vol. at pH } 8.3) \times (\text{N H}_2\text{SO}_4) \times (50,000)}{\text{Vol. Sample}}$ SLOPE: 96.576
 Extracted By: WR Hydrochloric Acid: R241102B pH 7: 7.01 CINV240925A
 Date Analyzed: 11/21/24 Sulfuric Acid: R241102B 4: 3.95 B
 Time Analyzed: 12:05 Sodium Bicarbonate: CINV240510A $T = \frac{(\text{Vol. at pH } 4.5) \times (\text{N H}_2\text{SO}_4) \times (50,000)}{\text{Vol. Sample}}$ 10: 10.04 CINV240509A
 Analyzed By: WR

Sample ID.	Sample Wt./Vol.	Sample pH	Std Code	Spike Amt Added	Spike Conc.	Norm. Titran	Vol. At pH = 8.3	Vol. At pH = 4.5	Dilution (F/I)	Calculations	Comments
Standardization #1	50 mL	10.07	10572406172	5.0 mL	0.05 N	-	-	12.40	50/50	$N_{\text{H}_2\text{SO}_4} = \frac{2.65 \text{ g Na}_2\text{CO}_3/\text{L} (5\text{mL})}{(53) (\text{vol. of acid mL})}$	= 0.02016129
Standardization #2	50 mL	10.09		5.0 mL	0.05 N	-	-	12.40	50/50		

1)	LCS	50 mL	8.13	1057241102A	1.0 mL	0.05 N	0.0201	0	5.00	50/50	
2)	N0695671-C		7.77					0	18.00		
3)	N0695681-C		7.68					0	14.85		
4)	N0695691-C		7.68					0	13.10		
5)	N069570-1C		7.39					0	28.05		
6)	N069571-1C		7.55					0	11.80		
7)	N069572-1C		7.70					0	13.95		
8)	N069573-1C		7.90					0	12.70		
9)	N069585-1C		8.00					0	8.10		
10)	N069606-1C		7.74					0	3.10		
11)	N069607-1C		7.80					0	13.50		
12)	N069609-1C	200 mL	6.40					0	0.70		6.40 @ 4.54 12.30 @ 4.23
13)	N069610-1C	2 mL	7.72					0	13.40		
14)	N069629-1C		7.65					0	4.25		
15)	L 2C		7.76					0	4.40		
16)	N069642-1C		7.66					0	14.00		
17)	N069643-1C		7.85					0	13.50		
18)	N069620-1C (M)		7.65					0	4.30		
19)	1CM5		7.90	1057241102A	1.0 mL	0.05 N		0	9.30		
20)	1CM50		7.91					0	9.40		
										MS	
										MSD	
										LCS	
										11/7/2024	LSR
										Reviewed by:	WR 11/2



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JRB 12/21/2024

EPA 300.0



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IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
REV 2.0
011416

QC Batch Number: R195039
ASSET #: N069585

Instrument ID: NV00922-IC8
Analyst: RBA
Date Analyzed: 10/31/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria ?(r = 0.995, r =0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)			X			X
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)		X			X	
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?			X			X
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?			X			X
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
14. For Hinkley DOM samples, matrix spike protocol performed on all samples ? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed ?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)			X			X
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.		X		X	X	
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

~~%Rec of Fluoride in N069585-001CMS/MSD failed. However, LCS passed criteria.~~
Detection of Chloride in CCB1/MB/CCB4 was >1/2PQL. However, all samples were >5X the CCB detection.

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA
Date: _____
2nd Level Reviewer JRB 11/5/2024
Date: _____

Date: _____

Date: _____



IC Technical Batch Review Checklist (ARCUS02)

IC ARCUS
REV 2.0
011416

ASSET LABORATORIES - LAS VEGAS

QC Batch Number: R195037
ASSET # N069582 / N069583 / N069585

Instrument ID: NV00922-IC9
Analyst: RBA
Date Analyzed: 10/31/2024

Method:

- EPA 300.0
- EPA 7199

- EPA 218.6/EPA 218.7
- EPA 218.6/EPA 218.7 LL
- Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria ?(r = 0.995, r =0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)			X			X
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?			X			X
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?			X			X
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
14. For Hinkley DOM samples, matrix spike protocol performed on all samples ? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed ?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)			X			X
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments: **Please see CAR 8236**

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA

Date: _____

2nd Level Reviewer JRB 11/5/2024

Date: _____

SAMPLE CALCULATION



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

Sample Calculation

METHOD: EPA 300
TEST NAME: INORGANIC ANIONS BY IC
MATRIX: GROUNDWATER

FORMULA:

Calculate the Nitrate concentration, in mg/L, in the original sample as follows:

$$\text{Nitrate, mg/L} = A * DF$$

where:

A = mg/L, IC calculated concentration
DF = dilution factor

For **N069585-001C** concentration in mg/L is calculated as follows:

$$\begin{aligned}\text{Nitrate, mg/L} &= 1.4066 * 10 \\ &= 14.066\end{aligned}$$

Reporting result in two significant figures,

$$\text{Nitrate, mg/L} = 14$$

Reviewed by:

d/Rocha 12/1/2024

ANALYSIS RUN LOG



ASSET LABORATORIES
INTEGRATION • INNOVATION • IMPROVEMENT

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"


Sequence: IC-09_241028A
Operator: IC-05

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 9

Created: 10/28/2024 9:32:32 AM by IC-05
Last Update: 10/28/2024 12:46:27 PM by IC-05


No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions_Default	EPA 300_0_240928A	Finished
2	Std - 0	Standard	2	1000.0	Anions_Default	EPA 300_0_240928A	Finished
3	Std - 1	Standard	4	1000.0	Anions_Default	EPA 300_0_240928A	Finished
4	Std - 2	Standard	5	1000.0	Anions_Default	EPA 300_0_240928A	Finished
5	Std - 3	Standard	6	1000.0	Anions_Default	EPA 300_0_240928A	Finished
6	Std - 4	Standard	7	1000.0	Anions_Default	EPA 300_0_240928A	Finished
7	Std - 5	Standard	8	1000.0	Anions_Default	EPA 300_0_240928A	Finished
8	ICV,ICV,1	Unknown	9	1000.0	Anions_Default	EPA 300_0_240928A	Finished
9	ICB,ICB,1	Unknown	10	1000.0	Anions_Default	EPA 300_0_240928A	Finished

EPA 300.0_0_241028A

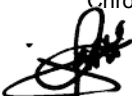
 11/18/2024
for RBA

Note: Method name typographical error. Calibration standard files confirmed with 10/28/2024 analysis dates.

Reviewed by:

 11/5/2024

Processed by:



Sequence: IC-09_241028A
Operator: IC-05

Page 2 of 2
Printed: 10/29/2024 1:07:03 AM

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 9
Created: 10/28/2024 9:32:32 AM by IC-05
Last Update: 10/28/2024 12:46:27 PM by IC-05


No.	Name	Inj. Date/Time	Comment
1	BLANK	10/28/2024 9:39:25 AM	BLANK
2	Std - 0	10/28/2024 9:54:44 AM	IBLANK
3	Std - 1	10/28/2024 10:10:40 AM	STD-LOW
4	Std - 2	10/28/2024 10:26:36 AM	STD
5	Std - 3	10/28/2024 10:42:31 AM	STD
6	Std - 4	10/28/2024 10:58:27 AM	STD
7	Std - 5	10/28/2024 11:14:23 AM	STD-HIGH
8	ICV,ICV,1	10/28/2024 11:36:10 AM	ICV, IWST-241023B
9	ICB,ICB,1	10/28/2024 11:52:05 AM	ICB

Sequence: IC-09_241031A
Operator: IC-05

Title:
Datatype: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 34

Created: 10/30/2024 10:53:12 AM by IC-05
Last Update: 10/31/2024 11:26:04 AM by IC-05

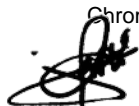
No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions_Default	EPA 300_0_240928A	Finished
2	Std - 0	Standard	2	1000.0	Anions_Default	EPA 300_0_240928A	Finished
3	Std - 1	Standard	4	1000.0	Anions_Default	EPA 300_0_240928A	Finished
4	Std - 2	Standard	5	1000.0	Anions_Default	EPA 300_0_240928A	Finished
5	Std - 3	Standard	6	1000.0	Anions_Default	EPA 300_0_240928A	Finished
6	Std - 4	Standard	7	1000.0	Anions_Default	EPA 300_0_240928A	Finished
7	Std - 5	Standard	8	1000.0	Anions_Default	EPA 300_0_240928A	Finished
8	BLANK	Unknown	1	1000.0	Anions_Default	EPA 300_0_240928A	Finished
9	CCV-1,CCV,1	Unknown	2	1000.0	Anions_Default	EPA 300_0_240928A	Finished
10	CCB-1,CCB,1	Unknown	3	1000.0	Anions_Default	EPA 300_0_240928A	Finished
11	MB-H2O,MBLK,1	Unknown	4	1000.0	Anions_Default	EPA 300_0_240928A	Finished
12	LCS-H2O,LCS,1	Unknown	5	1000.0	Anions_Default	EPA 300_0_240928A	Finished
13	N069585-001C,SAMP,10	Unknown	1	1000.0	Anions_Default	EPA 300_0_240928A	Finished
14	N069583-003C,SAMP,10	Unknown	2	1000.0	Anions_Default	EPA 300_0_240928A	Finished
15	N069582-002C,SAMP,10	Unknown	3	1000.0	Anions_Default	EPA 300_0_240928A	Finished
16	N069583-001C,SAMP,5	Unknown	4	1000.0	Anions_Default	EPA 300_0_240928A	Finished
17	N069583-002C,SAMP,5	Unknown	5	1000.0	Anions_Default	EPA 300_0_240928A	Finished
18	N069583-004C,SAMP,10	Unknown	6	1000.0	Anions_Default	EPA 300_0_240928A	Finished
19	N069583-006C,SAMP,5	Unknown	7	1000.0	Anions_Default	EPA 300_0_240928A	Finished
20	N069583-008C,SAMP,5	Unknown	8	1000.0	Anions_Default	EPA 300_0_240928A	Finished
21	CCV-2,CCV,1	Unknown	9	1000.0	Anions_Default	EPA 300_0_240928A	Finished
22	CCB-2,CCB,1	Unknown	10	1000.0	Anions_Default	EPA 300_0_240928A	Finished
23	N069583-009C,SAMP,10	Unknown	11	1000.0	Anions_Default	EPA 300_0_240928A	Finished
24	N069583-010C,SAMP,10	Unknown	12	1000.0	Anions_Default	EPA 300_0_240928A	Finished
25	N069582-006C,SAMP,10	Unknown	13	1000.0	Anions_Default	EPA 300_0_240928A	Finished
26	N069582-003C,SAMP,10	Unknown	14	1000.0	Anions_Default	EPA 300_0_240928A	Finished
27	N069582-004C,SAMP,20	Unknown	15	1000.0	Anions_Default	EPA 300_0_240928A	Finished
28	N069582-005C,SAMP,10	Unknown	16	1000.0	Anions_Default	EPA 300_0_240928A	Finished
29	N069583-003CMS,MS,10	Unknown	17	1000.0	Anions_Default	EPA 300_0_240928A	Finished
30	N069583-003CMSD,MSD,10	Unknown	18	1000.0	Anions_Default	EPA 300_0_240928A	Finished
31	N069582-006CDUP,DUP,10	Unknown	19	1000.0	Anions_Default	EPA 300_0_240928A	Finished
32	N069583-006CMS,MS,10	Unknown	20	1000.0	Anions_Default	EPA 300_0_240928A	Finished
33	CCV-3,CCV,1	Unknown	21	1000.0	Anions_Default	EPA 300_0_240928A	Finished
34	CCB-3,CCB,1	Unknown	22	1000.0	Anions_Default	EPA 300_0_240928A	Finished

 11/25/2024

For RBA

Note: Method name typographical error. Calibration standard files confirmed with 10/28/2024 analysis dates.

Processed by:



Sequence: IC-09_241031A
Operator: IC-05

Page 2 of 2
Printed: 10/31/2024 6:13:36 PM

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 34

Created: 10/30/2024 10:53:12 AM by IC-05
Last Update: 10/31/2024 11:26:04 AM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	10/28/2024 9:39:25 AM	BLANK
2	Std - 0	10/28/2024 9:54:44 AM	IBLANK
3	Std - 1	10/28/2024 10:10:40 AM	STD-LOW
4	Std - 2	10/28/2024 10:26:36 AM	STD
5	Std - 3	10/28/2024 10:42:31 AM	STD
6	Std - 4	10/28/2024 10:58:27 AM	STD
7	Std - 5	10/28/2024 11:14:23 AM	STD-HIGH
8	BLANK	10/31/2024 9:49:11 AM	BLANK
9	CCV-1,CCV,1	10/31/2024 10:04:30 AM	CCV, IWST-241031A
10	CCB-1,CCB,1	10/31/2024 10:20:25 AM	CCB
11	MB-H2O,MBLK,1	10/31/2024 10:36:20 AM	MB
12	LCS-H2O,LCS,1	10/31/2024 10:52:16 AM	LCS, IWST-241031B
13	N069585-001C,SAMP,10	10/31/2024 11:19:44 AM	SAMP,1>10mL,
14	N069583-003C,SAMP,10	10/31/2024 11:35:12 AM	SAMP,1>10mL,
15	N069582-002C,SAMP,10	10/31/2024 11:51:07 AM	SAMP,1>10mL,
16	N069583-001C,SAMP,5	10/31/2024 12:07:02 PM	SAMP,2>10mL,
17	N069583-002C,SAMP,5	10/31/2024 12:22:57 PM	SAMP,2>10mL,
18	N069583-004C,SAMP,10	10/31/2024 12:38:53 PM	SAMP,1>10mL,
19	N069583-006C,SAMP,5	10/31/2024 12:54:49 PM	SAMP,2>10mL,
20	N069583-008C,SAMP,5	10/31/2024 1:10:44 PM	SAMP,2>10mL,
21	CCV-2,CCV,1	10/31/2024 1:26:40 PM	CCV, IWST-241031A
22	CCB-2,CCB,1	10/31/2024 1:42:35 PM	CCB
23	N069583-009C,SAMP,10	10/31/2024 1:58:31 PM	SAMP,1>10mL,
24	N069583-010C,SAMP,10	10/31/2024 2:14:27 PM	SAMP,1>10mL,
25	N069582-006C,SAMP,10	10/31/2024 2:30:23 PM	SAMP,1>10mL,
26	N069582-003C,SAMP,10	10/31/2024 2:46:19 PM	SAMP,1>10mL,
27	N069582-004C,SAMP,20	10/31/2024 3:02:14 PM	SAMP,0.5>10mL,
28	N069582-005C,SAMP,10	10/31/2024 3:18:09 PM	SAMP,1>10mL,
29	N069583-003CMS,MS,10	10/31/2024 3:34:05 PM	MS,1>10mL,
30	N069583-003CMSD,MSD,10	10/31/2024 3:50:01 PM	MSD,1>10mL,
31	N069582-006CDUP,DUP,10	10/31/2024 4:05:56 PM	DUP,1>10mL,
32	N069583-006CMS,MS,10	10/31/2024 4:21:52 PM	MS,1>10mL,
33	CCV-3,CCV,1	10/31/2024 4:37:47 PM	CCV, IWST-241031A
34	CCB-3,CCB,1	10/31/2024 4:53:43 PM	CCB

Sequence: IC-08_241023A
Operator: IC-05

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 11

Created: 10/23/2024 10:37:40 AM by IC-05
Last Update: 10/23/2024 3:11:06 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions Default	EPA 300_0_241023	Finished
2	Std - 0	Standard	2	1000.0	Anions Default	EPA 300_0_241023	Finished
3	Std - 1	Standard	3	1000.0	Anions Default	EPA 300_0_241023	Finished
4	Std - 2	Standard	4	1000.0	Anions Default	EPA 300_0_241023	Finished
5	Std - 3	Standard	5	1000.0	Anions Default	EPA 300_0_241023	Finished
6	Std - 4	Unknown	6	1000.0	Anions Default	EPA 300_0_241023	Finished
7	Std - 5	Unknown	7	1000.0	Anions Default	EPA 300_0_241023	Finished
8	Std - 4	Standard	8	1000.0	Anions Default	EPA 300_0_241023	Finished
9	Std - 5	Standard	9	1000.0	Anions Default	EPA 300_0_241023	Finished
10	ICV,ICV,1	Unknown	11	1000.0	Anions Default	EPA 300_0_241023	Finished
11	ICB,ICB,1	Unknown	12	1000.0	Anions Default	EPA 300_0_241023	Finished

Processed by:

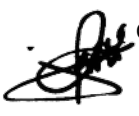


Sequence: IC-08_241023A
Operator: IC-05

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 11

Created: 10/23/2024 10:37:40 AM by IC-05
Last Update: 10/23/2024 3:11:06 PM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	10/23/2024 10:53:18 AM	BLANK
2	Std - 0	10/23/2024 11:09:36 AM	IBLANK
3	Std - 1	10/23/2024 11:50:13 AM	STD-LOW
4	Std - 2	10/23/2024 12:06:31 PM	STD
5	Std - 3	10/23/2024 12:22:49 PM	STD
6	Std - 4	10/23/2024 12:39:07 PM	STD
7	Std - 5	10/23/2024 12:55:25 PM	STD-HIGH
8	Std - 4	10/23/2024 1:53:50 PM	STD
9	Std - 5	10/23/2024 2:10:09 PM	STD-HIGH
10	ICV,ICV,1	10/23/2024 2:43:53 PM	ICV, IWST-241023B
11	ICB,ICB,1	10/23/2024 3:11:09 PM	ICB



Sequence: IC-08_241031A
Operator: IC-05

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 56

Created: 10/30/2024 9:48:03 AM by IC-05
Last Update: 10/31/2024 3:10:02 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions Default	EPA 300_0_241023	Finished
2	Std - 0	Standard	2	1000.0	Anions Default	EPA 300_0_241023	Finished
3	Std - 1	Standard	3	1000.0	Anions Default	EPA 300_0_241023	Finished
4	Std - 2	Standard	4	1000.0	Anions Default	EPA 300_0_241023	Finished
5	Std - 3	Standard	5	1000.0	Anions Default	EPA 300_0_241023	Finished
6	Std - 4	Unknown	6	1000.0	Anions Default	EPA 300_0_241023	Finished
7	Std - 5	Unknown	7	1000.0	Anions Default	EPA 300_0_241023	Finished
8	Std - 4	Standard	8	1000.0	Anions Default	EPA 300_0_241023	Finished
9	Std - 5	Standard	9	1000.0	Anions Default	EPA 300_0_241023	Finished
10	BLANK	Unknown	1	1000.0	Anions Default	EPA 300_0_241023	Finished
11	CCV-1,CCV,1	Unknown	2	1000.0	Anions Default	EPA 300_0_241023	Finished
12	CCB-1,CCB,1	Unknown	3	1000.0	Anions Default	EPA 300_0_241023	Finished
13	MB-H2O,MBLK,1	Unknown	4	1000.0	Anions Default	EPA 300_0_241023	Finished
14	LCS-H2O,LCS,1	Unknown	5	1000.0	Anions Default	EPA 300_0_241023	Finished
15	N069567-001C,SAMP,5	Unknown	6	1000.0	Anions Default	EPA 300_0_241023	Finished
16	N069568-001C,SAMP,5	Unknown	7	1000.0	Anions Default	EPA 300_0_241023	Finished
17	N069569-001C,SAMP,5	Unknown	8	1000.0	Anions Default	EPA 300_0_241023	Finished
18	N069570-001C,SAMP,5	Unknown	9	1000.0	Anions Default	EPA 300_0_241023	Finished
19	N069558-001A,SAMP,200	Unknown	10	1000.0	Anions Default	EPA 300_0_241023	Finished
20	N069558-002A,SAMP,200	Unknown	11	1000.0	Anions Default	EPA 300_0_241023	Finished
21	N069558-003A,SAMP,200	Unknown	12	1000.0	Anions Default	EPA 300_0_241023	Finished
22	N069571-001C,SAMP,5	Unknown	13	1000.0	Anions Default	EPA 300_0_241023	Finished
23	CCV-2,CCV,1	Unknown	14	1000.0	Anions Default	EPA 300_0_241023	Finished
24	CCB-2,CCB,1	Unknown	15	1000.0	Anions Default	EPA 300_0_241023	Finished
25	N069572-001C,SAMP,5	Unknown	16	1000.0	Anions Default	EPA 300_0_241023	Finished
26	N069573-001C,SAMP,5	Unknown	17	1000.0	Anions Default	EPA 300_0_241023	Finished
27	N069567-001CMS,MS,5	Unknown	18	1000.0	Anions Default	EPA 300_0_241023	Finished
28	N069567-001CMSD,MSD,5	Unknown	19	1000.0	Anions Default	EPA 300_0_241023	Finished
29	N069568-001CDUP,DUP,5	Unknown	20	1000.0	Anions Default	EPA 300_0_241023	Finished
30	N069567-001C,SAMP,20	Unknown	21	1000.0	Anions Default	EPA 300_0_241023	Finished
31	N069567-001CMS,MS,20	Unknown	22	1000.0	Anions Default	EPA 300_0_241023	Finished
32	N069567-001CMSD,MSD,20	Unknown	23	1000.0	Anions Default	EPA 300_0_241023	Finished
33	N069569-001C,SAMP,20	Unknown	24	1000.0	Anions Default	EPA 300_0_241023	Finished
34	N069569-001CDUP,DUP,20	Unknown	25	1000.0	Anions Default	EPA 300_0_241023	Finished
35	CCV-3,CCV,1	Unknown	26	1000.0	Anions Default	EPA 300_0_241023	Finished
36	CCB-3,CCB,1	Unknown	27	1000.0	Anions Default	EPA 300_0_241023	Finished
37	N069568-001C,SAMP,20	Unknown	28	1000.0	Anions Default	EPA 300_0_241023	Finished
38	N069570-001C,SAMP,20	Unknown	29	1000.0	Anions Default	EPA 300_0_241023	Finished
39	N069571-001C,SAMP,20	Unknown	30	1000.0	Anions Default	EPA 300_0_241023	Finished
40	N069572-001C,SAMP,20	Unknown	31	1000.0	Anions Default	EPA 300_0_241023	Finished
41	N069573-001C,SAMP,20	Unknown	32	1000.0	Anions Default	EPA 300_0_241023	Finished

Processed by:

Reviewed by:



11/1/2024

NV00922-IC8 RBA 10/31/2024 10:55:04 PM



11/5/2024

228

Sequence: IC-08_241031A
Operator: IC-05

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Printed: 10/31/2024 10:54:34 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 56

Created: 10/30/2024 9:48:03 AM by IC-05
Last Update: 10/31/2024 3:10:02 PM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	10/23/2024 10:53:18 AM	BLANK
2	Std - 0	10/23/2024 11:09:36 AM	IBLANK
3	Std - 1	10/23/2024 11:50:13 AM	STD-LOW
4	Std - 2	10/23/2024 12:06:31 PM	STD
5	Std - 3	10/23/2024 12:22:49 PM	STD
6	Std - 4	10/23/2024 12:39:07 PM	STD
7	Std - 5	10/23/2024 12:55:25 PM	STD-HIGH
8	Std - 4	10/23/2024 1:53:50 PM	STD
9	Std - 5	10/23/2024 2:10:09 PM	STD-HIGH
10	BLANK	10/31/2024 8:12:43 AM	BLANK
11	CCV-1,CCV,1	10/31/2024 8:29:01 AM	CCV, IWST-241031A
12	CCB-1,CCB,1	10/31/2024 8:45:19 AM	CCB
13	MB-H2O,MBLK,1	10/31/2024 9:01:37 AM	MB
14	LCS-H2O,LCS,1	10/31/2024 9:17:56 AM	LCS, IWST-241031B
15	N069567-001C,SAMP,5	10/31/2024 10:17:32 AM	SAMP,2>10mL,
16	N069568-001C,SAMP,5	10/31/2024 10:33:50 AM	SAMP,2>10mL,
17	N069569-001C,SAMP,5	10/31/2024 10:50:08 AM	SAMP,2>10mL,
18	N069570-001C,SAMP,5	10/31/2024 11:06:27 AM	SAMP,10mL,
19	N069558-001A,SAMP,200	10/31/2024 11:22:44 AM	SAMP,0.05>10mL,
20	N069558-002A,SAMP,200	10/31/2024 11:39:02 AM	SAMP,0.05>10mL,
21	N069558-003A,SAMP,200	10/31/2024 11:55:21 AM	SAMP,0.05>10mL,
22	N069571-001C,SAMP,5	10/31/2024 12:11:40 PM	SAMP,2>10mL,
23	CCV-2,CCV,1	10/31/2024 12:27:58 PM	CCV, IWST-241031A
24	CCB-2,CCB,1	10/31/2024 12:44:16 PM	CCB
25	N069572-001C,SAMP,5	10/31/2024 1:00:35 PM	SAMP,2>10mL,
26	N069573-001C,SAMP,5	10/31/2024 1:16:53 PM	SAMP,2>10mL,
27	N069567-001CMS,MS,5	10/31/2024 1:33:11 PM	MS,2>10mL,
28	N069567-001CMSD,MSD,5	10/31/2024 1:49:29 PM	MSD,2>10mL,
29	N069568-001CDUP,DUP,5	10/31/2024 2:05:47 PM	DUP,2>10mL,
30	N069567-001C,SAMP,20	10/31/2024 2:22:05 PM	SAMP,0.5>10mL,
31	N069567-001CMS,MS,20	10/31/2024 2:38:23 PM	MS,0.5>10mL,
32	N069567-001CMSD,MSD,20	10/31/2024 2:54:41 PM	MSD,0.5>10mL,
33	N069569-001C,SAMP,20	10/31/2024 3:10:59 PM	SAMP,0.5>10mL,
34	N069569-001CDUP,DUP,20	10/31/2024 3:27:17 PM	DUP,0.5>10mL,
35	CCV-3,CCV,1	10/31/2024 3:43:36 PM	CCV, IWST-241031A
36	CCB-3,CCB,1	10/31/2024 3:59:54 PM	CCB
37	N069568-001C,SAMP,20	10/31/2024 4:16:13 PM	SAMP,0.5>10mL,
38	N069570-001C,SAMP,20	10/31/2024 4:32:31 PM	SAMP,0.5>10mL,
39	N069571-001C,SAMP,20	10/31/2024 4:48:49 PM	SAMP,0.5>10mL,
40	N069572-001C,SAMP,20	10/31/2024 5:05:07 PM	SAMP,0.5>10mL,
41	N069573-001C,SAMP,20	10/31/2024 5:21:25 PM	SAMP,0.5>10mL,

Sequence: IC-08_241031A
Operator: IC-05

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Printed: 10/31/2024 10:54:34 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 56

Created: 10/30/2024 9:48:03 AM by IC-05
Last Update: 10/31/2024 3:10:02 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
42	N069585-001C,SAMP,5	Unknown	33	1000.0	Anions Default	EPA 300_0_241023	Finished
43	N069585-001CDUP,DUP,5	Unknown	34	1000.0	Anions Default	EPA 300_0_241023	Finished
44	N069585-001CMS,MS,5	Unknown	35	1000.0	Anions Default	EPA 300_0_241023	Finished
45	N069585-001CMSD,MSD,5	Unknown	36	1000.0	Anions Default	EPA 300_0_241023	Finished
46	N069585-001C,SAMP,20	Unknown	37	1000.0	Anions Default	EPA 300_0_241023	Finished
47	CCV-4,CCV,1	Unknown	38	1000.0	Anions Default	EPA 300_0_241023	Finished
48	CCB-4,CCB,1	Unknown	39	1000.0	Anions Default	EPA 300_0_241023	Finished
49	N069585-001CMS,MS,20	Unknown	40	1000.0	Anions Default	EPA 300_0_241023	Finished
50	N069558-001A,SAMP,50	Unknown	41	1000.0	Anions Default	EPA 300_0_241023	Finished
51	N069558-002A,SAMP,50	Unknown	42	1000.0	Anions Default	EPA 300_0_241023	Finished
52	N069558-003A,SAMP,200	Unknown	43	1000.0	Anions Default	EPA 300_0_241023	Finished
53	N069508-006A,SAMP,5	Unknown	44	1000.0	Anions Default2	EPA 300_0_241023	Finished
54	BLANK	Unknown	45	1000.0	Anions Default	EPA 300_0_241023	Finished
55	CCV-5,CCV,1	Unknown	46	1000.0	Anions Default	EPA 300_0_241023	Finished
56	CCB-5,CCB,1	Unknown	47	1000.0	Anions Default	EPA 300_0_241023	Finished



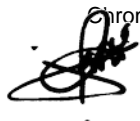
Sequence: IC-08_241031A
Operator: IC-05

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Printed: 10/31/2024 10:54:34 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 56

Created: 10/30/2024 9:48:03 AM by IC-05
Last Update: 10/31/2024 3:10:02 PM by IC-05

No.	Name	Inj. Date/Time	Comment
42	N069585-001C,SAMP,5	10/31/2024 5:37:44 PM	SAMP,2>10mL,
43	N069585-001CDUP,DUP,5	10/31/2024 5:54:02 PM	DUP,2>10mL,
44	N069585-001CMS,MS,5	10/31/2024 6:10:20 PM	MS,2>10mL,
45	N069585-001CMSD,MSD,5	10/31/2024 6:26:38 PM	MSD,2>10mL,
46	N069585-001C,SAMP,20	10/31/2024 6:42:56 PM	SAMP,0.5>10mL,
47	CCV-4,CCV,1	10/31/2024 6:59:14 PM	CCV, IWST-241031A
48	CCB-4,CCB,1	10/31/2024 7:15:32 PM	CCB
49	N069585-001CMS,MS,20	10/31/2024 7:31:49 PM	MS,0.5>10mL,
50	N069558-001A,SAMP,50	10/31/2024 7:48:08 PM	SAMP,0.2>10mL,
51	N069558-002A,SAMP,50	10/31/2024 8:04:26 PM	SAMP,0.2>10mL,
52	N069558-003A,SAMP,200	10/31/2024 8:20:45 PM	SAMP,0.05>10mL,
53	N069508-006A,SAMP,5	10/31/2024 8:37:02 PM	SAMP,2>10mL,
54	BLANK	10/31/2024 8:59:20 PM	BLANK
55	CCV-5,CCV,1	10/31/2024 9:15:38 PM	CCV, IWST-241031A
56	CCB-5,CCB,1	10/31/2024 9:31:56 PM	CCB



INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
INTEGRATION OF ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

(EPA 300) - INITIAL CALIBRATION

Instrument ID: NV00922-IC9

Date Calibrated: 10/28/2024

Initial Calibration:

Nitrate	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in mg/L	0	0.05	0.25	0.5	1.25	2.5	R ²
Area,mAU*min	0.0000	0.0196	0.0913	0.1839	0.4636	0.9621	1.000
Measured, in mg/L	0.000000	0.067100	0.253300	0.493900	1.220400	2.515400	
Relative Error (%RE)		34.2%		-1.2%			

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST-240705D

Calibration Acceptance Criteria: > 0.995 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

(EPA 300) - INITIAL CALIBRATION

Instrument ID: NV00922-IC8
Date Calibrated: 10/23/2024

Initial Calibration:

Fluoride	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in mg/L	0	0.05	0.25	0.5	1.25	2.5	R ²
Area,mAU*min	0.0000	0.0069	0.0448	0.0879	0.2188	0.4485	1.000
Measured, in mg/L	0.000000	0.049900	0.260600	0.500900	1.229700	2.508900	
Relative Error (%RE)		-0.2%		0.2%			

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST-240705G

Calibration Acceptance Criteria: > 0.995 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places.
The exact values are represented in the ICAL summary for calculation purposes.

(EPA 300) - INITIAL CALIBRATION

Instrument ID: NV00922-IC8
Date Calibrated: 10/23/2024

Initial Calibration:

Chloride	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in mg/L	0	0.5	1	2	5	10	R ²
Area,mAU*min	0.0036	0.0762	0.1633	0.3057	0.7278	1.5597	0.999
Measured, in mg/L	0.045100	0.515400	1.079200	2.001600	4.735500	10.123200	
Relative Error (%RE)		3.1%		0.1%			

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST-240705A

Calibration Acceptance Criteria: > 0.995 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places.
The exact values are represented in the ICAL summary for calculation purposes.

(EPA 300) - INITIAL CALIBRATION

Instrument ID: NV00922-IC8
Date Calibrated: 10/23/2024

Initial Calibration:

Bromide	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in mg/L	0	0.05	0.25	0.5	1.25	2.5	R ²
Area,mAU*min	0.0000	0.0028	0.0140	0.0277	0.0695	0.1430	1.000
Measured, in mg/L	0.000000	0.059300	0.256800	0.495500	1.226700	2.511700	
Relative Error (%RE)		18.6%		-0.9%			

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST-240705C

Calibration Acceptance Criteria: > 0.995 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

(EPA 300) - INITIAL CALIBRATION

Instrument ID: NV00922-IC8
Date Calibrated: 10/23/2024

Initial Calibration:

Sulfate	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in mg/L	0	0.5	2	4	10	20	R ²
Area,mAU*min	0.0000	0.0494	0.2108	0.4252	1.0844	2.3011	0.999
Measured, in mg/L	0.000000	0.674600	2.072800	3.929600	9.641100	20.181900	
Relative Error (%RE)		34.9%		-1.8%			

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST-240705F

Calibration Acceptance Criteria: > 0.995 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
INTEGRATION • INNOVATION • IMPROVEMENT

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_BRPGE

Sample ID ICV	SampType: ICV	TestCode: 300_W_BRP	Units: mg/L	Prep Date:	RunNo: 195039						
Client ID: ICV	Batch ID: R195039	TestNo: EPA 300.0	Analysis Date: 10/23/2024	SeqNo: 6280178							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	1.213	0.50	1.250	0	97.0	90	110				

Sample ID CCV-1	SampType: CCV	TestCode: 300_W_BRP	Units: mg/L	Prep Date:	RunNo: 195039						
Client ID: CCV	Batch ID: R195039	TestNo: EPA 300.0	Analysis Date: 10/31/2024	SeqNo: 6280180							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	1.243	0.50	1.250	0	99.5	90	110				

Sample ID CCV-2	SampType: CCV	TestCode: 300_W_BRP	Units: mg/L	Prep Date:	RunNo: 195039						
Client ID: CCV	Batch ID: R195039	TestNo: EPA 300.0	Analysis Date: 10/31/2024	SeqNo: 6280184							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	1.204	0.50	1.250	0	96.3	90	110				

Sample ID CCV-3	SampType: CCV	TestCode: 300_W_BRP	Units: mg/L	Prep Date:	RunNo: 195039						
Client ID: CCV	Batch ID: R195039	TestNo: EPA 300.0	Analysis Date: 10/31/2024	SeqNo: 6280186							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	1.194	0.50	1.250	0	95.5	90	110				

Sample ID CCV-4	SampType: CCV	TestCode: 300_W_BRP	Units: mg/L	Prep Date:	RunNo: 195039						
Client ID: CCV	Batch ID: R195039	TestNo: EPA 300.0	Analysis Date: 10/31/2024	SeqNo: 6280192							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	1.191	0.50	1.250	0	95.3	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_BRPGE

Sample ID CCV-5	SampType: CCV	TestCode: 300_W_BRP	Units: mg/L	Prep Date:	RunNo: 195039						
Client ID: CCV	Batch ID: R195039	TestNo: EPA 300.0	Analysis Date: 10/31/2024	SeqNo: 6280194							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	1.196	0.50	1.250	0	95.7	90	110				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out

E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values

H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
(M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_CLPGE

Sample ID ICV	SampType: ICV	TestCode: 300_W_CLP	Units: mg/L	Prep Date:	RunNo: 195039						
Client ID: ICV	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/23/2024	SeqNo: 6280196						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	2.114	0.50	2.000	0	106	90	110				

Sample ID CCV-1	SampType: CCV	TestCode: 300_W_CLP	Units: mg/L	Prep Date:	RunNo: 195039						
Client ID: CCV	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6280198						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	1.947	0.50	2.000	0	97.3	90	110				

Sample ID CCV-2	SampType: CCV	TestCode: 300_W_CLP	Units: mg/L	Prep Date:	RunNo: 195039						
Client ID: CCV	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6280202						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	1.818	0.50	2.000	0	90.9	90	110				

Sample ID CCV-3	SampType: CCV	TestCode: 300_W_CLP	Units: mg/L	Prep Date:	RunNo: 195039						
Client ID: CCV	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6280209						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	1.840	0.50	2.000	0	92.0	90	110				

Sample ID CCV-4	SampType: CCV	TestCode: 300_W_CLP	Units: mg/L	Prep Date:	RunNo: 195039						
Client ID: CCV	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6280212						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	1.813	0.50	2.000	0	90.6	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_CLPGE

Sample ID CCV-5	SampType: CCV	TestCode: 300_W_CLP	Units: mg/L	Prep Date:	RunNo: 195039						
Client ID: CCV	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6280215						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	1.812	0.50	2.000	0	90.6	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_FPGE

Sample ID ICV	SampType: ICV	TestCode: 300_W_FPG	Units: mg/L	Prep Date:	RunNo: 195039						
Client ID: ICV	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/23/2024	SeqNo: 6287843						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	1.225	0.10	1.250	0	98.0	90	110				

Sample ID CCV-1	SampType: CCV	TestCode: 300_W_FPG	Units: mg/L	Prep Date:	RunNo: 195039						
Client ID: CCV	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6287845						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	1.243	0.10	1.250	0	99.4	90	110				

Sample ID CCV-2	SampType: CCV	TestCode: 300_W_FPG	Units: mg/L	Prep Date:	RunNo: 195039						
Client ID: CCV	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6287850						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	1.201	0.10	1.250	0	96.0	90	110				

Sample ID CCV-3	SampType: CCV	TestCode: 300_W_FPG	Units: mg/L	Prep Date:	RunNo: 195039						
Client ID: CCV	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6287854						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	1.196	0.10	1.250	0	95.7	90	110				

Sample ID CCV-4	SampType: CCV	TestCode: 300_W_FPG	Units: mg/L	Prep Date:	RunNo: 195039						
Client ID: CCV	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6287858						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	1.197	0.10	1.250	0	95.7	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_FPGE

Sample ID CCV-5	SampType: CCV	TestCode: 300_W_FPG	Units: mg/L	Prep Date:	RunNo: 195039						
Client ID: CCV	Batch ID: R195039	TestNo: EPA 300.0	Analysis Date: 10/31/2024	SeqNo: 6287860							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	1.187	0.10	1.250	0	95.0	90	110				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out

E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values

H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
(M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID ICV	SampType: ICV	TestCode: 300_W_SO4P Units: mg/L				Prep Date:			RunNo: 195039		
Client ID: ICV	Batch ID: R195039	TestNo: EPA 300.0				Analysis Date: 10/23/2024			SeqNo: 6280217		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.840	0.50	4.000	0	96.0	90	110				

Sample ID CCV-1	SampType: CCV	TestCode: 300_W_SO4P Units: mg/L				Prep Date:			RunNo: 195039		
Client ID: CCV	Batch ID: R195039	TestNo: EPA 300.0				Analysis Date: 10/31/2024			SeqNo: 6280219		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	4.022	0.50	4.000	0	101	90	110				

Sample ID CCV-2	SampType: CCV	TestCode: 300_W_SO4P Units: mg/L				Prep Date:			RunNo: 195039		
Client ID: CCV	Batch ID: R195039	TestNo: EPA 300.0				Analysis Date: 10/31/2024			SeqNo: 6280223		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.847	0.50	4.000	0	96.2	90	110				

Sample ID CCV-3	SampType: CCV	TestCode: 300_W_SO4P Units: mg/L				Prep Date:			RunNo: 195039		
Client ID: CCV	Batch ID: R195039	TestNo: EPA 300.0				Analysis Date: 10/31/2024			SeqNo: 6280230		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.847	0.50	4.000	0	96.2	90	110				

Sample ID CCV-4	SampType: CCV	TestCode: 300_W_SO4P Units: mg/L				Prep Date:			RunNo: 195039		
Client ID: CCV	Batch ID: R195039	TestNo: EPA 300.0				Analysis Date: 10/31/2024			SeqNo: 6280233		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.865	0.50	4.000	0	96.6	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID	CCV-5	SampType:	CCV	TestCode:	300_W_SO4P Units: mg/L			Prep Date:	RunNo: 195039				
Client ID:	CCV	Batch ID:	R195039	TestNo:	EPA 300.0			Analysis Date:	10/31/2024		SeqNo: 6280235		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		3.853		0.50	4.000	0	96.3	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID ICV	SampType: ICV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195037						
Client ID: ICV	Batch ID: R195037	TestNo: EPA 300.0		Analysis Date: 10/28/2024	SeqNo: 6277707						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.328	0.050	1.250	0	106	90	110				

Sample ID CCV-1	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195037						
Client ID: CCV	Batch ID: R195037	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6277709						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.320	0.050	1.250	0	106	90	110				

Sample ID CCV-2	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195037						
Client ID: CCV	Batch ID: R195037	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6277721						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.286	0.050	1.250	0	103	90	110				

Sample ID CCV-3	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195037						
Client ID: CCV	Batch ID: R195037	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6277733						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.341	0.050	1.250	0	107	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
INTEGRATION • INNOVATION • IMPROVEMENT

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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_BRPGE

Sample ID ICB	SampType: ICB	TestCode: 300_W_BRP	Units: mg/L	Prep Date:	RunNo: 195039						
Client ID: ICB	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/23/2024	SeqNo: 6280179						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromide ND 0.50

Sample ID CCB-1	SampType: CCB	TestCode: 300_W_BRP	Units: mg/L	Prep Date:	RunNo: 195039						
Client ID: CCB	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6280181						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromide ND 0.50

Sample ID CCB-2	SampType: CCB	TestCode: 300_W_BRP	Units: mg/L	Prep Date:	RunNo: 195039						
Client ID: CCB	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6280185						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromide ND 0.50

Sample ID CCB-3	SampType: CCB	TestCode: 300_W_BRP	Units: mg/L	Prep Date:	RunNo: 195039						
Client ID: CCB	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6280187						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromide ND 0.50

Sample ID CCB-4	SampType: CCB	TestCode: 300_W_BRP	Units: mg/L	Prep Date:	RunNo: 195039						
Client ID: CCB	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6280193						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromide ND 0.50

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_BRPGE

Sample ID CCB-5	SampType: CCB	TestCode: 300_W_BRP	Units: mg/L	Prep Date:	RunNo: 195039						
Client ID: CCB	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6280195						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	ND	0.50									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out

E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values

H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
(M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_CLPGE

Sample ID ICB	SampType: ICB	TestCode: 300_W_CLP	Units: mg/L	Prep Date:	RunNo: 195039
Client ID: ICB	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/23/2024	SeqNo: 6280197
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chloride	ND	0.50
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Sample ID CCB-1	SampType: CCB	TestCode: 300_W_CLP	Units: mg/L	Prep Date:	RunNo: 195039
Client ID: CCB	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6280199
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chloride	ND	0.50
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Sample ID CCB-2	SampType: CCB	TestCode: 300_W_CLP	Units: mg/L	Prep Date:	RunNo: 195039
Client ID: CCB	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6280203
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chloride	ND	0.50
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Sample ID CCB-3	SampType: CCB	TestCode: 300_W_CLP	Units: mg/L	Prep Date:	RunNo: 195039
Client ID: CCB	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6280210
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chloride	ND	0.50
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Sample ID CCB-4	SampType: CCB	TestCode: 300_W_CLP	Units: mg/L	Prep Date:	RunNo: 195039
Client ID: CCB	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6280213
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chloride	ND	0.50
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_CLPGE

Sample ID	CCB-5	SampType:	CCB	TestCode:	300_W_CLP	Units:	mg/L	Prep Date:		RunNo:	195039											
Client ID:	CCB	Batch ID:	R195039	TestNo:	EPA 300.0	Analysis Date:	10/31/2024	SeqNo:	6280216													
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual
Chloride		ND		0.50																		

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_FPGE

Sample ID ICB	SampType: ICB	TestCode: 300_W_FPG	Units: mg/L	Prep Date:	RunNo: 195039
Client ID: ICB	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/23/2024	SeqNo: 6287844
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Fluoride	ND	0.10			
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Sample ID CCB-1	SampType: CCB	TestCode: 300_W_FPG	Units: mg/L	Prep Date:	RunNo: 195039
Client ID: CCB	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6287846
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Fluoride	ND	0.10			
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Sample ID CCB-2	SampType: CCB	TestCode: 300_W_FPG	Units: mg/L	Prep Date:	RunNo: 195039
Client ID: CCB	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6287851
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Fluoride	ND	0.10			
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Sample ID CCB-3	SampType: CCB	TestCode: 300_W_FPG	Units: mg/L	Prep Date:	RunNo: 195039
Client ID: CCB	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6287855
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Fluoride	ND	0.10			
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Sample ID CCB-4	SampType: CCB	TestCode: 300_W_FPG	Units: mg/L	Prep Date:	RunNo: 195039
Client ID: CCB	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6287859
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Fluoride	ND	0.10			
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_FPGE

Sample ID CCB-5	SampType: CCB	TestCode: 300_W_FPG	Units: mg/L	Prep Date:	RunNo: 195039						
Client ID: CCB	Batch ID: R195039	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6287861						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	ND	0.10									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out

E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values

H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
(M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID ICB	SampType: ICB	TestCode: 300_W_SO4P Units: mg/L	Prep Date:	RunNo: 195039							
Client ID: ICB	Batch ID: R195039	TestNo: EPA 300.0	Analysis Date: 10/23/2024	SeqNo: 6280218							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	ND	0.50
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Sample ID CCB-1	SampType: CCB	TestCode: 300_W_SO4P Units: mg/L	Prep Date:	RunNo: 195039							
Client ID: CCB	Batch ID: R195039	TestNo: EPA 300.0	Analysis Date: 10/31/2024	SeqNo: 6280220							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	ND	0.50
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Sample ID CCB-2	SampType: CCB	TestCode: 300_W_SO4P Units: mg/L	Prep Date:	RunNo: 195039							
Client ID: CCB	Batch ID: R195039	TestNo: EPA 300.0	Analysis Date: 10/31/2024	SeqNo: 6280224							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	ND	0.50
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Sample ID CCB-3	SampType: CCB	TestCode: 300_W_SO4P Units: mg/L	Prep Date:	RunNo: 195039							
Client ID: CCB	Batch ID: R195039	TestNo: EPA 300.0	Analysis Date: 10/31/2024	SeqNo: 6280231							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	ND	0.50
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Sample ID CCB-4	SampType: CCB	TestCode: 300_W_SO4P Units: mg/L	Prep Date:	RunNo: 195039							
Client ID: CCB	Batch ID: R195039	TestNo: EPA 300.0	Analysis Date: 10/31/2024	SeqNo: 6280234							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sulfate	ND	0.50
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID	CCB-5	SampType:	CCB	TestCode:	300_W_SO4P	Units:	mg/L	Prep Date:		RunNo:	195039											
Client ID:	CCB	Batch ID:	R195039	TestNo:	EPA 300.0			Analysis Date:	10/31/2024	SeqNo:	6280236											
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual
Sulfate		ND		0.50																		

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID ICB	SampType: ICB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195037						
Client ID: ICB	Batch ID: R195037	TestNo: EPA 300.0		Analysis Date: 10/28/2024	SeqNo: 6277708						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID CCB-1	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195037						
Client ID: CCB	Batch ID: R195037	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6277710						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID CCB-2	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195037						
Client ID: CCB	Batch ID: R195037	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6277722						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID CCB-3	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195037						
Client ID: CCB	Batch ID: R195037	TestNo: EPA 300.0		Analysis Date: 10/31/2024	SeqNo: 6277734						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out

E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values

H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
(M) Test is modified

RETENTION TIME SUMMARY



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RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC9

Analytical Sequence

Date Analyzed: 10/31/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Nitrate 6.721	
CCV-1	Nitrate 6.717	
CCV-2	Nitrate 6.764	
CCV-3	Nitrate 6.801	

Average 6.761
Applied RT Window 6.561 - 6.961

MB-R195037_NO3	Nitrate	N.A.	N.A.
LCS-R195037_NO3	Nitrate	6.771	PASS
N069585-001C	Nitrate	6.764	PASS
N069583-003CMS	Nitrate	6.781	PASS
N069583-003CMSD	Nitrate	6.774	PASS
N069582-006CDUP	Nitrate	6.757	PASS
N069583-006CMS	Nitrate	6.784	PASS

Reviewed by:

d/Rocha 12/1/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC8

Analytical Sequence

Date Analyzed: 10/31/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Fluoride 3.173	
CCV-1	Fluoride 3.184	
CCV-2	Fluoride 3.174	
CCV-3	Fluoride 3.174	
CCV-4	Fluoride 3.174	
CCV-5	Fluoride 3.174	

Average 3.176
Applied RT Window 2.976 - 3.376

MB-R195039_F	Fluoride	N.A.	N.A.
LCS-R195039_F	Fluoride	3.180	PASS
N069567-001CMS	Fluoride	3.174	PASS
N069567-001CMSD	Fluoride	3.170	PASS
N069585-001C	Fluoride	3.174	PASS
N069585-001CDUP	Fluoride	3.170	PASS

Reviewed by:

MRecha 12/1/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC8

Analytical Sequence

Date Analyzed: 10/31/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Chloride 4.300	
CCV-1	Chloride 4.307	
CCV-2	Chloride 4.300	
CCV-3	Chloride 4.304	
CCV-4	Chloride 4.304	
CCV-5	Chloride 4.304	

Average 4.304
Applied RT Window 4.104 - 4.504

MB-R195039_CL	Chloride 4.304	PASS
LCS-R195039_CL	Chloride 4.304	PASS
N069567-001CMS	Chloride 4.297	PASS
N069567-001CMSD	Chloride 4.307	PASS
N069569-001CDUP	Chloride 4.304	PASS
N069585-001C	Chloride 4.303	PASS
N069585-001CMS	Chloride 4.307	PASS

Reviewed by:

d/Rocha 12/1/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC8

Analytical Sequence

Date Analyzed: 10/31/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Bromide 5.907	
CCV-1	Bromide 5.914	
CCV-2	Bromide 5.907	
CCV-3	Bromide 5.917	
CCV-4	Bromide 5.917	
CCV-5	Bromide 5.914	

Average 5.914
Applied RT Window 5.714 - 6.114

MB-R195039_BR	Bromide	N.A.	N.A.
LCS-R195039_BR	Bromide	5.910	PASS
N069585-001C	Bromide	N.A.	N.A.
N069585-001CDUP	Bromide	N.A.	N.A.
N069585-001CMS	Bromide	5.917	PASS
N069585-001CMSD	Bromide	5.913	PASS

Reviewed by:

d/Recha 12/1/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC8

Analytical Sequence

Date Analyzed: 10/31/2024

<u>Sample Name</u>		<u>Retention Time</u>	<u>Evaluation</u>
ICV	Sulfate	10.350	
CCV-1	Sulfate	10.414	
CCV-2	Sulfate	10.370	
CCV-3	Sulfate	10.420	
CCV-4	Sulfate	10.424	
CCV-5	Sulfate	10.427	

Average 10.411
Applied RT Window 10.211 - 10.611

MB-R195039_SO4	Sulfate	10.487	PASS
LCS-R195039_SO4	Sulfate	10.410	PASS
N069567-001CMS	Sulfate	10.380	PASS
N069567-001CMSD	Sulfate	10.430	PASS
N069569-001CDUP	Sulfate	10.420	PASS
N069585-001C	Sulfate	10.417	PASS

Reviewed by:

dRocha 12/1/2024

CORRECTIVE ACTION DOCUMENTATION



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ASSET Laboratories
Corrective Action Report (CAR)

Date Initiated: 02-Dec-24
Initiated By: Ria Abes

Corrective Action Report ID: 8236
Department: II-2(Anions&Per)

Corrective Action Description

CAR Summary: Method name error in anions

Description of Nonconformance: Typographical error in method name was committed when calibration performed 10/28/2024 was named EPA 300_0_240928A instead of 300_0_241028A. However, calibration standard files confirmed with 10/28/2024 analysis dates.

Description of Corrective Action: Ensuring that all entries in the sequence are correct is a must during analysis.

Performed By: Ria Abes

Completion Date: 02-Dec-24

Client Notification

Client Notification Required: No

Notified By:

Comment:

Quality Assurance Review

Corrective Action: Deficiency


Further Action required by QA:

Approval and Closure

CAR Closed By: _____

Close Date: _____

QA Reviewed By: _____

 12/2/2024

QA Date: _____

MDL STUDY



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METHOD DETECTION LIMIT (Spiked)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): 10/5/2022, 12/14/2022, 3/22/2023, 7/10/2023; 10/3/2023 & 11/14/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: mg/L

Instrument Name: **IC-08 & IC-09**

Datafile IC-08 221005A #24 IC-08 221214A #30 IC-08 230322A #35 IC-08 230710A #13 IC-09 231003A #14 IC-08 231114A #24 IC-09 231114A #19

Analyte	#1	#2	#3	#4	#5	#6	#7	Spike Conc., mg/L	SD	t _(n-1) value	MDLs	MDL	PQL
Fluoride	0.100	0.103	0.108	0.118	0.110	0.098	0.126	0.10	0.0101	3.143	0.0318	0.0318	0.10
Chloride	0.480	0.418	0.472	0.653	0.624	0.587	0.622	0.50	0.0922	3.143	0.2898	0.2898	0.50
Nitrite	0.068	0.061	0.060	0.071	0.063	0.061	0.070	0.05	0.0047	3.143	0.0149	0.0149	0.05
Bromide	0.526	0.502	0.509	0.522	0.536	0.527	0.520	0.50	0.0116	3.143	0.0364	0.0364	0.50
Nitrate	0.073	0.058	0.059	0.073	0.074	0.068	0.073	0.05	0.0068	3.143	0.0215	0.0240	0.05
Phosphate	0.112	0.096	0.114	0.120	0.130	0.093	0.124	0.10	0.0138	3.143	0.0433	0.0433	0.10
Sulfate	0.501	0.609	0.638	0.401	0.704	0.620	0.697	0.50	0.1092	3.143	0.3432	0.3432	0.50

METHOD DETECTION LIMIT (Blanks)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Analyte	MDLb	# of Records
Fluoride	0	63
Chloride	0.1456	80
Nitrite	0.0147	64
Bromide	0	18
Nitrate	0.0240	132
Phosphate	0.0237	34
Sulfate	0.2579	107

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

EPA 6010B Dissolved / SM 2340B



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 113745
ASSET #: N069585

Instrument ID: NV00922-ICP4
Analyst: DBJ

Method:

EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 10/31/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)			X			X
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
2nd Level Reviewer NS 11142024

Date: _____
Date: _____



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 113745
ASSET #: N069585

Instrument ID: NV00922-ICP3
Analyst: DBJ

Method:

EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 11/5/2024
11/6

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)			X			X
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits		X			X	
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

% Rec of Na in N069585-001B-MS2/MSD2 failed. However, LCS passed criteria.

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ

Date: _____

2nd Level Reviewer _____

Date: 11/7/2024

SAMPLE CALCULATION



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SAMPLE CALCULATION

METHOD: EPA 6010B
TEST NAME: Heavy Metals by ICP
MATRIX: Groundwater

FORMULA:

Calculate the Sodium concentration, in mg/L in the original sample as follows:

$$\text{Sodium, mg/L} = A * DF * PF$$

where:

A = mg/L, calculated concentration
DF = Dilution Factor
PF = Final Volume of Digestate, mL / Amount of Sample, mL

For Sample **N069585-001B**, the concentration in mg/L is calculated as follows:

$$\text{Sodium, mg/L} = 5.75791 * 25 * (25/25)$$

$$\text{Sodium, mg/L} = 143.94775$$

Reporting results in two significant figures,

$$\text{Sodium, mg/L} = \mathbf{140}$$

Reviewed by:

d/Rocha 12/2/2024

% RSD SUMMARY



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RSD SUMMARY: 241031A

Instrument ID: NV00922-ICP4

PQL: 0.1 mg/L

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
Blank	BLK	1	B	0	-	15	PASS
Standard 1	ICAL	1	B	0.1	-	15	PASS
Standard 2	ICAL	1	B	0	-	15	PASS
Standard 3	ICAL	1	B	1	-	15	PASS
Standard 4	ICAL	1	B	2.5	-	15	PASS
Standard 5	ICAL	1	B	3.75	-	15	PASS
Standard 6	ICAL	1	B	5	-	15	PASS
Standard 7	ICAL	1	B	10	-	15	PASS
ICV	ICV	1	B	4.96521	0.96	15	PASS
ICB	ICB	1	B	0.00561	40.15	15	< PQL
LLCCV1	CCV1	1	B	0.10102	0.15	20	PASS
LLCCV2	CCV1	1	B	0.19256	0.86	20	PASS
ICSA1	ICSA	1	B	0.00091	63.90	15	< PQL
ICSAB1	ICSAB	1	B	0.48703	0.35	15	PASS
LLCCV1	CCV1	1	B	0.09834	0.66	20	PASS
CCV1	CCV	1	B	4.9137	0.83	15	PASS
CCB1	CCB	1	B	0.00527	48.58	15	< PQL
CCV2	CCV	1	B	4.90651	0.54	15	PASS
CCB2	CCB	1	B	0.00556	42.24	15	< PQL
CCV3	CCV	1	B	4.89046	0.71	15	PASS
CCB3	CCB	1	B	0.00578	46.70	15	< PQL
CCV4	CCV	1	B	4.89202	1.01	15	PASS
CCB4	CCB	1	B	0.00588	39.66	15	< PQL
CCV5	CCV	1	B	4.88884	0.25	15	PASS
CCB5	CCB	1	B	0.00584	39.62	15	< PQL
ICSA2	ICSA	1	B	0.00619	2.71	15	PASS
ICSAB2	ICSAB	1	B	0.48086	0.37	15	PASS
CCV6	CCV	1	B	4.87664	1.24	15	PASS
CCB6	CCB	1	B	0.00593	37.68	15	< PQL
CCV7	CCV	1	B	4.86433	1.06	15	PASS
CCB7	CCB	1	B	0.00576	39.51	15	< PQL
CCV8	CCV	1	B	4.865	0.52	15	PASS
CCB8	CCB	1	B	0.00523	44.08	15	< PQL
ICSA3	ICSA	1	B	0.00476	4.97	15	PASS
ICSAB3	ICSAB	1	B	0.48003	0.26	15	PASS
CCV9	CCV	1	B	4.84661	0.54	15	PASS
CCB9	CCB	1	B	0.00636	42.23	15	< PQL
CCV10	CCV	1	B	4.89501	0.23	15	PASS
CCB10	CCB	1	B	0.00534	46.35	15	< PQL
CCV11	CCV	1	B	4.84072	0.28	15	PASS
CCB11	CCB	1	B	0.00536	42.35	15	< PQL

RSD SUMMARY: 241031A

Instrument ID: NV00922-ICP4

PQL: 0.1 mg/L

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
ICSA4	ICSA	1	B	0.00068	47.80	15	< PQL
ICSAB4	ICSAB	1	B	0.48018	0.39	15	PASS
CCV12	CCV	1	B	4.89337	0.64	15	PASS
CCB12	CCB	1	B	0.00581	41.76	15	< PQL
CCV13	CCV	1	B	4.90868	0.41	15	PASS
CCB13	CCB	1	B	0.00527	46.11	15	< PQL
MB-113745	MBLK	1	B	0.00024	207.31	15	< PQL
LCS-113745	LCS	1	B	5.55228	0.57	15	PASS
N069583-001B	SAMP	1	B	0.39115	0.49	15	PASS
N069583-002B	SAMP	1	B	0.92707	0.14	15	PASS
N069583-003B	SAMP	1	B	0.90604	0.11	15	PASS
N069583-003B	SAMP	5	B	0.17232	0.16	15	PASS
N069583-003B-PS	PS	1	B	6.41654	0.14	15	PASS
N069583-003BMS	MS	1	B	5.89864	0.08	15	PASS
N069583-003BMSD	MSD	1	B	5.97267	0.15	15	PASS
N069583-004B	SAMP	1	B	0.91319	0.40	15	PASS
CCV14	CCV	1	B	4.89174	1.04	15	PASS
CCB14	CCB	1	B	0.00689	33.59	15	< PQL
N069583-006B	SAMP	1	B	0.19507	0.50	15	PASS
N069583-008B	SAMP	1	B	0.9234	0.13	15	PASS
N069583-009B	SAMP	1	B	1.53003	0.25	15	PASS
N069583-010B	SAMP	1	B	3.07739	0.06	15	PASS
N060585-001B	SAMP	1	B	0.21739	0.45	15	PASS
CCV15	CCV	1	B	4.88265	0.41	15	PASS
CCB15	CCB	1	B	0.00584	39.68	15	< PQL
ICSA5	ICSA	1	B	0.00129	28.35	15	< PQL
ICSAB5	ICSAB	1	B	0.48301	0.25	15	PASS

RSD SUMMARY: 241031A

Instrument ID: NV00922-ICP4

PQL: 0.5 mg/L

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
Blank	BLK	1	Ca	0	-	15	PASS
Standard 1	ICAL	1	Ca	0.2	-	15	PASS
Standard 2	ICAL	1	Ca	1	-	15	PASS
Standard 3	ICAL	1	Ca	2	-	15	PASS
Standard 4	ICAL	1	Ca	5	-	15	PASS
Standard 5	ICAL	1	Ca	7.5	-	15	PASS
Standard 6	ICAL	1	Ca	10	-	15	PASS
Standard 7	ICAL	1	Ca	20	-	15	PASS
ICV	ICV	1	Ca	9.87153	0.12	15	PASS
ICB	ICB	1	Ca	-0.02415	6.06	15	PASS
LLCCV1	CCV1	1	Ca	0.22134	0.50	20	PASS
LLCCV2	CCV1	1	Ca	0.36193	0.63	20	PASS
ICSA1	ICSA	1	Ca	9.97513	0.47	15	PASS
ICSAB1	ICSAB	1	Ca	9.82367	0.48	15	PASS
LLCCV1	CCV1	1	Ca	0.22268	0.09	20	PASS
CCV1	CCV	1	Ca	9.75391	0.74	15	PASS
CCB1	CCB	1	Ca	-0.04165	0.25	15	PASS
CCV2	CCV	1	Ca	9.74197	0.25	15	PASS
CCB2	CCB	1	Ca	-0.02412	1.15	15	PASS
CCV3	CCV	1	Ca	9.72218	0.16	15	PASS
CCB3	CCB	1	Ca	-0.02265	8.32	15	PASS
CCV4	CCV	1	Ca	9.69803	0.33	15	PASS
CCB4	CCB	1	Ca	-0.02299	1.74	15	PASS
CCV5	CCV	1	Ca	9.70141	0.24	15	PASS
CCB5	CCB	1	Ca	-0.02222	6.29	15	PASS
ICSA2	ICSA	1	Ca	9.8336	0.07	15	PASS
ICSAB2	ICSAB	1	Ca	9.65261	0.50	15	PASS
CCV6	CCV	1	Ca	9.67337	0.21	15	PASS
CCB6	CCB	1	Ca	-0.0246	0.56	15	PASS
CCV7	CCV	1	Ca	9.67208	0.68	15	PASS
CCB7	CCB	1	Ca	-0.02041	6.27	15	PASS
CCV8	CCV	1	Ca	9.71499	0.43	15	PASS
CCB8	CCB	1	Ca	-0.03547	6.19	15	PASS
ICSA3	ICSA	1	Ca	9.82016	0.47	15	PASS
ICSAB3	ICSAB	1	Ca	9.67734	0.75	15	PASS
CCV9	CCV	1	Ca	9.62966	0.14	15	PASS
CCB9	CCB	1	Ca	-0.02454	1.97	15	PASS
CCV10	CCV	1	Ca	9.65614	0.32	15	PASS
CCB10	CCB	1	Ca	-0.02352	1.34	15	PASS
CCV11	CCV	1	Ca	9.68627	0.03	15	PASS
CCB11	CCB	1	Ca	-0.02383	1.30	15	PASS

RSD SUMMARY: 241031A

Instrument ID: NV00922-ICP4

PQL: 0.5 mg/L

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
ICSA4	ICSA	1	Ca	9.84316	0.57	15	PASS
ICSAB4	ICSAB	1	Ca	9.6799	0.25	15	PASS
CCV12	CCV	1	Ca	9.75084	0.53	15	PASS
CCB12	CCB	1	Ca	-0.02236	4.60	15	PASS
CCV13	CCV	1	Ca	9.75238	0.70	15	PASS
CCB13	CCB	1	Ca	-0.03351	1.14	15	PASS
MB-113745	MBLK	1	Ca	-0.02454	4.16	15	PASS
LCS-113745	LCS	1	Ca	11.00758	0.29	15	PASS
N069583-001B	SAMP	1	Ca	35.13573	0.12	15	PASS
N069583-002B	SAMP	1	Ca	267.32012	0.89	15	PASS
N069583-003B	SAMP	1	Ca	202.59537	0.27	15	PASS
N069583-003B	SAMP	5	Ca	40.92378	1.11	15	PASS
N069583-003B-PS	PS	1	Ca	212.48896	0.80	15	PASS
N069583-003BMS	MS	1	Ca	211.19931	0.40	15	PASS
N069583-003BMSD	MSD	1	Ca	214.42511	0.30	15	PASS
N069583-004B	SAMP	1	Ca	324.39046	0.50	15	PASS
CCV14	CCV	1	Ca	9.73812	0.45	15	PASS
CCB14	CCB	1	Ca	-0.03089	4.30	15	PASS
N069583-006B	SAMP	1	Ca	150.1454	0.55	15	PASS
N069583-008B	SAMP	1	Ca	210.9323	0.56	15	PASS
N069583-009B	SAMP	1	Ca	548.14015	0.65	15	PASS
N069583-010B	SAMP	1	Ca	426.46836	0.90	15	PASS
N060585-001B	SAMP	1	Ca	23.79343	0.28	15	PASS
CCV15	CCV	1	Ca	9.7554	0.51	15	PASS
CCB15	CCB	1	Ca	-0.02165	0.37	15	PASS
ICSA5	ICSA	1	Ca	9.84976	0.49	15	PASS
ICSAB5	ICSAB	1	Ca	9.71325	0.22	15	PASS

RSD SUMMARY: 241031A

Instrument ID: NV00922-ICP4

PQL: 0.1 mg/L

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
Blank	BLK	1	Mg	0	-	15	PASS
Standard 1	ICAL	1	Mg	0.1	-	15	PASS
Standard 2	ICAL	1	Mg	1	-	15	PASS
Standard 3	ICAL	1	Mg	2	-	15	PASS
Standard 4	ICAL	1	Mg	5	-	15	PASS
Standard 5	ICAL	1	Mg	7.5	-	15	PASS
Standard 6	ICAL	1	Mg	10	-	15	PASS
Standard 7	ICAL	1	Mg	20	-	15	PASS
ICV	ICV	1	Mg	9.89349	0.72	15	PASS
ICB	ICB	1	Mg	-0.00063	139.92	15	< PQL
LLCCV1	CCV1	1	Mg	0.10287	0.91	20	PASS
LLCCV2	CCV1	1	Mg	0.38424	0.05	20	PASS
ICSA1	ICSA	1	Mg	9.99914	0.21	15	PASS
ICSAB1	ICSAB	1	Mg	9.8163	0.15	15	PASS
LLCCV1	CCV1	1	Mg	0.10434	0.42	20	PASS
CCV1	CCV	1	Mg	9.77346	0.54	15	PASS
CCB1	CCB	1	Mg	0.00087	198.34	15	< PQL
CCV2	CCV	1	Mg	9.74288	0.62	15	PASS
CCB2	CCB	1	Mg	-0.0015	47.57	15	< PQL
CCV3	CCV	1	Mg	9.71462	0.15	15	PASS
CCB3	CCB	1	Mg	-0.0013	7.15	15	PASS
CCV4	CCV	1	Mg	9.7	0.26	15	PASS
CCB4	CCB	1	Mg	-0.00079	191.61	15	< PQL
CCV5	CCV	1	Mg	9.69108	0.34	15	PASS
CCB5	CCB	1	Mg	0.00092	57.10	15	< PQL
ICSA2	ICSA	1	Mg	9.81976	0.15	15	PASS
ICSAB2	ICSAB	1	Mg	9.6968	0.33	15	PASS
CCV6	CCV	1	Mg	9.73358	0.26	15	PASS
CCB6	CCB	1	Mg	0.00296	19.96	15	< PQL
CCV7	CCV	1	Mg	9.6968	0.30	15	PASS
CCB7	CCB	1	Mg	0.00309	46.49	15	< PQL
CCV8	CCV	1	Mg	9.72913	0.19	15	PASS
CCB8	CCB	1	Mg	0.00237	63.14	15	< PQL
ICSA3	ICSA	1	Mg	9.85434	0.34	15	PASS
ICSAB3	ICSAB	1	Mg	9.75377	0.14	15	PASS
CCV9	CCV	1	Mg	9.62382	0.46	15	PASS
CCB9	CCB	1	Mg	0.00218	30.22	15	< PQL
CCV10	CCV	1	Mg	9.68987	0.10	15	PASS
CCB10	CCB	1	Mg	-0.00055	179.69	15	< PQL
CCV11	CCV	1	Mg	9.67107	0.38	15	PASS
CCB11	CCB	1	Mg	0.00047	146.26	15	< PQL

RSD SUMMARY: 241031A

Instrument ID: NV00922-ICP4

PQL: 0.1 mg/L

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
ICSA4	ICSA	1	Mg	9.86142	0.42	15	PASS
ICSAB4	ICSAB	1	Mg	9.7507	0.49	15	PASS
CCV12	CCV	1	Mg	9.74857	0.34	15	PASS
CCB12	CCB	1	Mg	0.00162	46.07	15	< PQL
CCV13	CCV	1	Mg	9.78176	0.28	15	PASS
CCB13	CCB	1	Mg	0.00016	152.07	15	< PQL
MB-113745	MBLK	1	Mg	0.001	176.24	15	< PQL
LCS-113745	LCS	1	Mg	10.84478	0.23	15	PASS
N069583-001B	SAMP	1	Mg	10.69221	0.17	15	PASS
N069583-002B	SAMP	1	Mg	38.25	0.45	15	PASS
N069583-003B	SAMP	1	Mg	51.24638	0.50	15	PASS
N069583-003B	SAMP	5	Mg	10.05768	0.50	15	PASS
N069583-003B-PS	PS	1	Mg	62.10723	0.53	15	PASS
N069583-003BMS	MS	1	Mg	60.74928	0.34	15	PASS
N069583-003BMSD	MSD	1	Mg	61.76473	0.15	15	PASS
N069583-004B	SAMP	1	Mg	54.25639	0.28	15	PASS
CCV14	CCV	1	Mg	9.72472	0.48	15	PASS
CCB14	CCB	1	Mg	0.00212	73.28	15	< PQL
N069583-006B	SAMP	1	Mg	48.58214	0.13	15	PASS
N069583-008B	SAMP	1	Mg	50.61328	0.21	15	PASS
N069583-009B	SAMP	1	Mg	346.41082	0.17	15	PASS
N069583-010B	SAMP	1	Mg	147.28086	0.62	15	PASS
N060585-001B	SAMP	1	Mg	3.40174	0.10	15	PASS
CCV15	CCV	1	Mg	9.76429	0.14	15	PASS
CCB15	CCB	1	Mg	0.00321	42.43	15	< PQL
ICSA5	ICSA	1	Mg	9.88486	0.47	15	PASS
ICSAB5	ICSAB	1	Mg	9.77693	0.33	15	PASS

RSD SUMMARY: 241031A

Instrument ID: NV00922-ICP4

PQL: 0.02 mg/L

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
Blank	BLK	1	Fe	0	-	15	PASS
Standard 1	ICAL	1	Fe	0.02	-	15	PASS
Standard 2	ICAL	1	Fe	0.05	-	15	PASS
Standard 3	ICAL	1	Fe	2	-	15	PASS
Standard 4	ICAL	1	Fe	5	-	15	PASS
Standard 5	ICAL	1	Fe	7.5	-	15	PASS
Standard 6	ICAL	1	Fe	10	-	15	PASS
Standard 7	ICAL	1	Fe	20	-	15	PASS
ICV	ICV	1	Fe	10.0326	0.08	15	PASS
ICB	ICB	1	Fe	-0.0034	2.43	15	PASS
LLCCV1	CCV1	1	Fe	0.01601	0.37	20	PASS
LLCCV2	CCV1	1	Fe	0.38979	0.74	20	PASS
ICSA1	ICSA	1	Fe	10.55578	0.55	15	PASS
ICSAB1	ICSAB	1	Fe	10.33902	0.05	15	PASS
LLCCV1	CCV1	1	Fe	0.01641	2.00	20	PASS
CCV1	CCV	1	Fe	10.18353	0.13	15	PASS
CCB1	CCB	1	Fe	-0.00065	36.16	15	< PQL
CCV2	CCV	1	Fe	10.14552	0.03	15	PASS
CCB2	CCB	1	Fe	-0.00296	8.46	15	PASS
CCV3	CCV	1	Fe	10.1451	0.11	15	PASS
CCB3	CCB	1	Fe	-0.00272	9.89	15	PASS
CCV4	CCV	1	Fe	10.13171	0.08	15	PASS
CCB4	CCB	1	Fe	-0.00309	16.10	15	< PQL
CCV5	CCV	1	Fe	10.13816	0.15	15	PASS
CCB5	CCB	1	Fe	-0.00299	1.06	15	PASS
ICSA2	ICSA	1	Fe	10.54401	0.27	15	PASS
ICSAB2	ICSAB	1	Fe	10.32707	0.05	15	PASS
CCV6	CCV	1	Fe	10.24703	0.11	15	PASS
CCB6	CCB	1	Fe	0.00486	36.69	15	< PQL
CCV7	CCV	1	Fe	10.20544	0.11	15	PASS
CCB7	CCB	1	Fe	0.00372	31.59	15	< PQL
CCV8	CCV	1	Fe	10.20189	0.13	15	PASS
CCB8	CCB	1	Fe	0.0022	21.16	15	< PQL
ICSA3	ICSA	1	Fe	10.5728	0.24	15	PASS
ICSAB3	ICSAB	1	Fe	10.30669	0.13	15	PASS
CCV9	CCV	1	Fe	10.12033	0.17	15	PASS
CCB9	CCB	1	Fe	-0.001	17.37	15	< PQL
CCV10	CCV	1	Fe	10.10562	0.11	15	PASS
CCB10	CCB	1	Fe	-0.00237	18.24	15	< PQL
CCV11	CCV	1	Fe	10.07569	0.08	15	PASS
CCB11	CCB	1	Fe	-0.00241	8.99	15	PASS

RSD SUMMARY: 241031A

Instrument ID: NV00922-ICP4

PQL: 0.02 mg/L

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
ICSA4	ICSA	1	Fe	10.49484	0.56	15	PASS
ICSAB4	ICSAB	1	Fe	10.28564	0.09	15	PASS
CCV12	CCV	1	Fe	10.13522	0.06	15	PASS
CCB12	CCB	1	Fe	-0.00227	12.58	15	PASS
CCV13	CCV	1	Fe	10.09442	0.16	15	PASS
CCB13	CCB	1	Fe	-0.00202	4.71	15	PASS
MB-113745	MBLK	1	Fe	-0.00464	2.00	15	PASS
LCS-113745	LCS	1	Fe	0.11161	0.31	15	PASS
N069583-001B	SAMP	1	Fe	1.43205	0.11	15	PASS
N069583-002B	SAMP	1	Fe	-0.00221	9.67	15	PASS
N069583-003B	SAMP	1	Fe	0.14567	0.10	15	PASS
N069583-003B	SAMP	5	Fe	0.02496	1.68	15	PASS
N069583-003B-PS	PS	1	Fe	0.26369	0.33	15	PASS
N069583-003BMS	MS	1	Fe	0.26504	0.20	15	PASS
N069583-003BMSD	MSD	1	Fe	0.25806	0.17	15	PASS
N069583-004B	SAMP	1	Fe	0.02402	0.08	15	PASS
CCV14	CCV	1	Fe	10.08047	0.05	15	PASS
CCB14	CCB	1	Fe	-0.00211	14.83	15	PASS
N069583-006B	SAMP	1	Fe	0.00027	130.78	15	< PQL
N069583-008B	SAMP	1	Fe	0.14664	0.21	15	PASS
N069583-009B	SAMP	1	Fe	13.4759	0.09	15	PASS
N069583-010B	SAMP	1	Fe	12.36216	0.06	15	PASS
N060585-001B	SAMP	1	Fe	0.00252	16.38	15	< PQL
CCV15	CCV	1	Fe	10.08888	0.05	15	PASS
CCB15	CCB	1	Fe	-0.00231	14.01	15	PASS
ICSA5	ICSA	1	Fe	10.44208	0.51	15	PASS
ICSAB5	ICSAB	1	Fe	10.24734	0.07	15	PASS

RSD SUMMARY: 241106A

Instrument ID: NV00922-ICP3

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
CalBlk	IBLK	1	K	0	3.33	15	PASS
Standard1	ICAL	1	K	0.1	68.75	15	<PQL
Standard2	ICAL	1	K	1	9.75	15	PASS
Standard3	ICAL	1	K	2.5	2.25	15	PASS
Standard4	ICAL	1	K	5	3.43	15	PASS
Standard5	ICAL	1	K	7.5	1.73	15	PASS
Standard6	ICAL	1	K	10	1.7	15	PASS
ICV	ICV	1	K	4.98	1.88	15	PASS
ICB	ICB	1	K	-0.04	156.78	15	<PQL
LLICV	CCV	1	K	0.48	6.07	20	PASS
ICSA1	ICSA	1	K	-0.01	403.13	15	<PQL
ICSAB1	ICSAB	1	K	4.9	1.89	15	PASS
20 PPM	SAMP	1	K	10.55	2.16	15	PASS
20 PPM	SAMP	1	K	20.21	1.93	15	PASS
25 PPM	SAMP	1	K	24.65	2.02	15	PASS
MB-113745	MBLK	1	K	-0.03	48.14	15	<PQL
LCS2-113745	LCS	1	K	10.62	1.16	15	PASS
N069585-001B	SAMP	5	K	0.89	1.05	15	PASS
CCV1	CCV	1	K	4.91	1.43	15	PASS
CCB1	CCB	1	K	0.02	421.79	15	<PQL
N069585-001B	SAMP	1	K	4.28	0.94	15	PASS
CCV2	CCV	1	K	4.88	1.95	15	PASS
CCB2	CCB	1	K	-0.02	194.46	15	<PQL
N069585-001B	SAMP	25	K	0.21	22.96	15	<PQL
N069585-001B	SAMP	125	K	0	1122.05	15	<PQL
N069585-001B-PS	PS	1	K	15.49	2.41	15	PASS
N069585-001B-PS	PS	25	K	11.28	1.07	15	PASS
N069585-001B-MS2	MS	1	K	15.22	2.25	15	PASS
N069585-001B-MS2	MS	25	K	0.66	2.2	15	PASS
N069585-001B-MSD2	MSD	1	K	15.14	2.2	15	PASS
N069585-001B-MSD2	MSD	25	K	0.61	2.52	15	PASS
CCV3	CCV	1	K	4.82	2.74	15	PASS
CCB3	CCB	1	K	-0.01	471.5	15	<PQL
ICSA2	ICSA	1	K	0.03	23.49	15	<PQL
ICSAB2	ICSAB	1	K	4.7	1.55	15	PASS
CCV4	CCV	1	K	4.78	2.46	15	PASS
CCB4	CCB	1	K	-0.02	79.02	15	<PQL
CCV5	CCV	1	K	4.79	2.25	15	PASS
CCB5	CCB	1	K	-0.04	37.23	15	<PQL
CCV6	CCV	1	K	4.86	1.61	15	PASS
CCB6	CCB	1	K	0.03	237.55	15	<PQL
ICSA3	ICSA	1	K	0.03	185.99	15	<PQL

RSD SUMMARY: 241106A

Instrument ID: NV00922-ICP3

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
ICSAB3	ICSAB	1	K	4.77	0.68	15	PASS
CCV7	CCV	1	K	4.75	2.05	15	PASS
CCB7	CCB	1	K	-0.04	66.88	15	<PQL
CCV8	CCV	1	K	4.7	1.91	15	PASS
CCB8	CCB	1	K	-0.05	157.83	15	<PQL
CCV9	CCV	1	K	4.69	1.25	15	PASS
CCB9	CCB	1	K	-0.02	231.76	15	<PQL
ICSA4	ICSA	1	K	-0.04	125.95	15	<PQL
ICSAB4	ICSAB	1	K	4.64	1.06	15	PASS
CalBlk	IBLK	1	Na	0	18.94	15	<PQL
Standard1	ICAL	1	Na	0.1	9.67	15	PASS
Standard2	ICAL	1	Na	1	2.28	15	PASS
Standard3	ICAL	1	Na	2.5	1.94	15	PASS
Standard4	ICAL	1	Na	5	1.92	15	PASS
Standard5	ICAL	1	Na	7.5	1.7	15	PASS
Standard6	ICAL	1	Na	10	1.78	15	PASS
ICV	ICV	1	Na	5	1.42	15	PASS
ICB	ICB	1	Na	0	241.98	15	<PQL
LLICV	CCV	1	Na	0.5	2.54	20	PASS
ICSA1	ICSA	1	Na	0.01	103.53	15	<PQL
ICSAB1	ICSAB	1	Na	4.93	1.64	15	PASS
20 PPM	SAMP	1	Na	10.47	1.68	15	PASS
20 PPM	SAMP	1	Na	19.97	1.94	15	PASS
25 PPM	SAMP	1	Na	24.36	1.49	15	PASS
MB-113745	MBLK	1	Na	0.04	22.5	15	<PQL
LCS2-113745	LCS	1	Na	10.83	1.7	15	PASS
N069585-001B	SAMP	5	Na	27.54	0.8	15	PASS
CCV1	CCV	1	Na	4.94	1.64	15	PASS
CCB1	CCB	1	Na	0.02	95.32	15	<PQL
N069585-001B	SAMP	1	Na	127.8	0.89	15	PASS
CCV2	CCV	1	Na	5	1.41	15	PASS
CCB2	CCB	1	Na	0.05	4.14	15	PASS
N069585-001B	SAMP	25	Na	5.76	1	15	PASS
N069585-001B	SAMP	125	Na	1.11	1.43	15	PASS
N069585-001B-PS	PS	1	Na	166.5	3.54	15	PASS
N069585-001B-PS	PS	25	Na	16.34	0.91	15	PASS
N069585-001B-MS2	MS	1	Na	158.2	1.49	15	PASS
N069585-001B-MS2	MS	25	Na	6.88	0.82	15	PASS
N069585-001B-MSD2	MSD	1	Na	160.2	0.82	15	PASS
N069585-001B-MSD2	MSD	25	Na	6.28	0.88	15	PASS
CCV3	CCV	1	Na	4.98	1.44	15	PASS
CCB3	CCB	1	Na	0.05	17.62	15	<PQL

RSD SUMMARY: 241106A

Instrument ID: NV00922-ICP3

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
ICSA2	ICSA	1	Na	0.05	19.63	15	<PQL
ICSAB2	ICSAB	1	Na	4.88	1.7	15	PASS
CCV4	CCV	1	Na	5	1.52	15	PASS
CCB4	CCB	1	Na	0.03	26.2	15	<PQL
CCV5	CCV	1	Na	4.93	1.79	15	PASS
CCB5	CCB	1	Na	0.01	98.19	15	<PQL
CCV6	CCV	1	Na	4.91	1.54	15	PASS
CCB6	CCB	1	Na	0.02	41.08	15	<PQL
ICSA3	ICSA	1	Na	0.02	84.87	15	<PQL
ICSAB3	ICSAB	1	Na	4.85	1.2	15	PASS
CCV7	CCV	1	Na	4.78	1.43	15	PASS
CCB7	CCB	1	Na	0	197.81	15	<PQL
CCV8	CCV	1	Na	4.79	1.28	15	PASS
CCB8	CCB	1	Na	0	93.55	15	<PQL
CCV9	CCV	1	Na	4.83	1.09	15	PASS
CCB9	CCB	1	Na	0	506.67	15	<PQL
ICSA4	ICSA	1	Na	0.01	123.85	15	<PQL
ICSAB4	ICSAB	1	Na	4.8	1.22	15	PASS

ANALYSIS RUN LOG



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

INJECTION LOG: 241031A

Instrument ID: NV00922-ICP4

STANDARD CODE	
Standard1	MWST-240820N, 0.5<50mL
Standard2	MWST-240820O
Standard3	MWST-240820P, 5<50mL
Standard4	MWST-240820P, 12.5<50mL
Standard5	MWST-240820P, 15<40mL
Standard6	MWST-240820P, 25<50mL
Standard7	MWST-240820P
ICV	MWST-240820AG
CCV	MWST-240820P, 25<50mL
ICSA/ICSAB	MWST-240820Q / MWST-240820R
Int. Std	MSST-240801A/240801B
PS Spike	MWST-240820Y/Z/AA

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
1	Blank	BLK	1	10/31/2024	8:40:23 PM
2	Standard 1	ICAL	1	10/31/2024	8:42:40 PM
3	Standard 2	ICAL	1	10/31/2024	8:44:57 PM
4	Standard 3	ICAL	1	10/31/2024	8:47:14 PM
5	Standard 4	ICAL	1	10/31/2024	8:49:31 PM
6	Standard 5	ICAL	1	10/31/2024	8:51:48 PM
7	Standard 6	ICAL	1	10/31/2024	8:54:05 PM
8	Standard 7	ICAL	1	10/31/2024	8:56:22 PM
9	ICV	ICV	1	10/31/2024	9:05:31 PM
10	ICB	ICB	1	10/31/2024	9:07:48 PM
11	LLCCV1	CCV1	1	10/31/2024	9:10:05 PM
12	LLCCV2	CCV1	1	10/31/2024	9:12:23 PM
13	ICSA1	ICSA	1	10/31/2024	9:14:39 PM
14	ICSAB1	ICSAB	1	10/31/2024	9:16:56 PM
15	LLCCV1	CCV1	1	10/31/2024	9:21:57 PM
16	MB1-113648	MBLK	1	10/31/2024	9:24:14 PM
17	MB-113550 STLC	MBLK	5	10/31/2024	9:26:31 PM
18	LCS-113648	LCS	1	10/31/2024	9:28:48 PM
19	N068784-001C	SAMP	5	10/31/2024	9:31:05 PM
20	N068784-001C	SAMP	25	10/31/2024	9:33:22 PM
21	N068784-001C-PS	PS	5	10/31/2024	9:35:39 PM
22	N068784-001C-MS	MS	5	10/31/2024	9:37:56 PM
23	N068784-001C-MSD	MSD	5	10/31/2024	9:40:13 PM
24	N068369-001A	SAMP	50	10/31/2024	9:42:30 PM
25	CCV1	CCV	1	10/31/2024	9:44:47 PM
26	CCB1	CCB	1	10/31/2024	9:47:04 PM
27	MB1-113677	MBLK	1	10/31/2024	9:49:21 PM
28	MB2-113677	MBLK	1	10/31/2024	9:51:39 PM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
29	MB1-113573 TCLP	MBLK	1	10/31/2024	9:53:56 PM
30	MB2-113573 TCLP	MBLK	1	10/31/2024	9:56:13 PM
31	LCS-113677	LCS	1	10/31/2024	9:58:30 PM
32	N069423-019A	SAMP	1	10/31/2024	10:00:47 PM
33	N069423-019A	SAMP	5	10/31/2024	10:03:04 PM
34	N069423-019A-PS	PS	1	10/31/2024	10:05:21 PM
35	N069423-019A-MS	MS	1	10/31/2024	10:07:39 PM
36	N069423-019A-MSD	MSD	1	10/31/2024	10:09:56 PM
37	CCV2	CCV	1	10/31/2024	10:12:13 PM
38	CCB2	CCB	1	10/31/2024	10:14:29 PM
39	N069423-020A	SAMP	1	10/31/2024	10:16:47 PM
40	N069423-021A	SAMP	1	10/31/2024	10:19:04 PM
41	N069423-022A	SAMP	1	10/31/2024	10:21:21 PM
42	N069423-023A	SAMP	1	10/31/2024	10:23:38 PM
43	N069423-024A	SAMP	1	10/31/2024	10:25:55 PM
44	N069423-025A	SAMP	1	10/31/2024	10:28:13 PM
45	N069423-025A-DUP	DUP	1	10/31/2024	10:30:30 PM
46	N069423-026A	SAMP	1	10/31/2024	10:32:47 PM
47	N069423-026A-MS	MS	1	10/31/2024	10:35:04 PM
48	N069423-027A	SAMP	1	10/31/2024	10:37:21 PM
49	CCV3	CCV	1	10/31/2024	10:39:37 PM
50	CCB3	CCB	1	10/31/2024	10:41:54 PM
51	N069423-028A	SAMP	1	10/31/2024	10:44:11 PM
52	N069423-029A	SAMP	1	10/31/2024	10:46:29 PM
53	N069423-030A	SAMP	1	10/31/2024	10:48:46 PM
54	N069423-031A	SAMP	1	10/31/2024	10:51:04 PM
55	N069423-032A	SAMP	1	10/31/2024	10:53:21 PM
56	N069423-033A	SAMP	1	10/31/2024	10:55:38 PM
57	N069423-034A	SAMP	1	10/31/2024	10:57:55 PM
58	N069423-035A	SAMP	1	10/31/2024	11:00:12 PM
59	N069423-035A-DUP	DUP	1	10/31/2024	11:02:29 PM
60	N069423-036A	SAMP	1	10/31/2024	11:04:46 PM
61	CCV4	CCV	1	10/31/2024	11:07:03 PM
62	CCB4	CCB	1	10/31/2024	11:09:20 PM
63	N069423-037A	SAMP	1	10/31/2024	11:11:37 PM
64	N069423-038A	SAMP	1	10/31/2024	11:13:54 PM
65	CCV5	CCV	1	10/31/2024	11:16:11 PM
66	CCB5	CCB	1	10/31/2024	11:18:28 PM
67	ICSA2	ICSA	1	10/31/2024	11:20:45 PM
68	ICSAB2	ICSAB	1	10/31/2024	11:23:01 PM
69	MB-113749	MBLK	1	10/31/2024	11:25:18 PM
70	LCS-113749	LCS	1	10/31/2024	11:27:35 PM
71	N069574-001A	SAMP	1	10/31/2024	11:29:53 PM
72	N069574-001A	SAMP	5	10/31/2024	11:32:10 PM
73	N069574-001A-PS	PS	1	10/31/2024	11:34:27 PM
74	N069574-001A-MS	MS	1	10/31/2024	11:36:44 PM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
75	N069574-001A-MSD	MSD	1	10/31/2024	11:39:01 PM
76	N069574-002A	SAMP	1	10/31/2024	11:41:18 PM
77	N069575-001A	SAMP	1	10/31/2024	11:43:35 PM
78	N069575-002A	SAMP	1	10/31/2024	11:45:52 PM
79	CCV6	CCV	1	10/31/2024	11:48:09 PM
80	CCB6	CCB	1	10/31/2024	11:50:26 PM
81	N069575-003A	SAMP	1	10/31/2024	11:52:43 PM
82	N069575-004A	SAMP	1	10/31/2024	11:55:01 PM
83	N069575-005A	SAMP	1	10/31/2024	11:57:18 PM
84	N069575-006A	SAMP	1	10/31/2024	11:59:35 PM
85	N069575-007A	SAMP	1	11/1/2024	12:01:51 AM
86	N069575-008A	SAMP	1	11/1/2024	12:04:08 AM
87	N069575-009A	SAMP	1	11/1/2024	12:06:25 AM
88	N069576-001A	SAMP	1	11/1/2024	12:15:23 AM
89	N069576-002A	SAMP	1	11/1/2024	12:17:40 AM
90	N069577-001A	SAMP	1	11/1/2024	12:19:57 AM
91	CCV7	CCV	1	11/1/2024	12:22:14 AM
92	CCB7	CCB	1	11/1/2024	12:24:31 AM
93	N069578-001A	SAMP	1	11/1/2024	12:26:48 AM
94	N069578-002A	SAMP	1	11/1/2024	12:29:05 AM
95	N069579-001A	SAMP	1	11/1/2024	12:31:22 AM
96	CCV8	CCV	1	11/1/2024	12:33:39 AM
97	CCB8	CCB	1	11/1/2024	12:35:56 AM
98	ICSA3	ICSA	1	11/1/2024	12:38:13 AM
99	ICSAB3	ICSAB	1	11/1/2024	12:40:31 AM
100	MB-113742	MBLK	1	11/1/2024	12:42:48 AM
101	MB-113711 TCLP	MBLK	1	11/1/2024	12:45:05 AM
102	LCS-113742	LCS	1	11/1/2024	12:47:22 AM
103	N069474-003A	SAMP	1	11/1/2024	12:49:39 AM
104	N069474-003A	SAMP	5	11/1/2024	12:51:56 AM
105	N069474-003A-PS	PS	1	11/1/2024	12:54:13 AM
106	N069474-003A-MS	MS	1	11/1/2024	12:56:30 AM
107	N069474-003A-MSD	MSD	1	11/1/2024	12:58:47 AM
108	N069528-001B	SAMP	1	11/1/2024	1:01:04 AM
109	N069528-002A	SAMP	1	11/1/2024	1:03:21 AM
110	CCV9	CCV	1	11/1/2024	1:05:37 AM
111	CCB9	CCB	1	11/1/2024	1:07:54 AM
112	N069531-001A	SAMP	1	11/1/2024	1:10:11 AM
113	N069534-001A	SAMP	1	11/1/2024	1:12:28 AM
114	N069534-002A	SAMP	1	11/1/2024	1:14:45 AM
115	N069534-003A	SAMP	1	11/1/2024	1:17:02 AM
116	N069534-004A	SAMP	1	11/1/2024	1:19:19 AM
117	N069534-005A	SAMP	1	11/1/2024	1:21:36 AM
118	N069534-006A	SAMP	1	11/1/2024	1:23:53 AM
119	N069535-001A	SAMP	1	11/1/2024	1:26:10 AM
120	N069535-002A	SAMP	1	11/1/2024	1:28:27 AM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
121	N069535-003A	SAMP	1	11/1/2024	1:30:44 AM
122	CCV10	CCV	1	11/1/2024	1:33:01 AM
123	CCB10	CCB	1	11/1/2024	1:35:18 AM
124	N069535-004A	SAMP	1	11/1/2024	1:37:35 AM
125	N069535-005A	SAMP	1	11/1/2024	1:39:52 AM
126	N069535-006A	SAMP	1	11/1/2024	1:42:09 AM
127	N069535-007A	SAMP	1	11/1/2024	1:44:26 AM
128	N069540-001A	SAMP	1	11/1/2024	1:46:43 AM
129	N069541-001A	SAMP	1	11/1/2024	1:48:59 AM
130	CCV11	CCV	1	11/1/2024	1:51:16 AM
131	CCB11	CCB	1	11/1/2024	1:53:33 AM
132	ICSA4	ICSA	1	11/1/2024	1:55:51 AM
133	ICSAB4	ICSAB	1	11/1/2024	1:58:08 AM
134	MB-113741	MBLK	1	11/1/2024	2:00:25 AM
135	MB-113682 STLC	MBLK	5	11/1/2024	2:02:43 AM
136	LCS-113741	LCS	1	11/1/2024	2:05:01 AM
137	N069495-001A	SAMP	5	11/1/2024	2:07:19 AM
138	N069496-001A	SAMP	5	11/1/2024	2:09:37 AM
139	N069496-002A	SAMP	5	11/1/2024	2:11:54 AM
140	N069496-003A	SAMP	5	11/1/2024	2:14:12 AM
141	N069496-003A	SAMP	25	11/1/2024	2:16:29 AM
142	N069496-003A-PS	PS	5	11/1/2024	2:18:47 AM
143	N069496-003A-MS	MS	5	11/1/2024	2:21:05 AM
144	CCV12	CCV	1	11/1/2024	2:23:22 AM
145	CCB12	CCB	1	11/1/2024	2:25:39 AM
146	N069496-003A-MSD	MSD	5	11/1/2024	2:27:57 AM
147	N069496-004A	SAMP	5	11/1/2024	2:30:15 AM
148	N069496-005A	SAMP	5	11/1/2024	2:32:33 AM
149	N069496-006A	SAMP	5	11/1/2024	2:34:50 AM
150	N069496-007A	SAMP	5	11/1/2024	2:37:08 AM
151	N069497-001A	SAMP	5	11/1/2024	2:39:27 AM
152	N069496-004A	SAMP	5	11/1/2024	2:41:44 AM
153	CCV13	CCV	1	11/1/2024	2:44:02 AM
154	CCB13	CCB	1	11/1/2024	2:46:19 AM
155	MB-113745	MBLK	1	11/1/2024	2:48:36 AM
156	LCS-113745	LCS	1	11/1/2024	2:50:55 AM
157	N069583-001B	SAMP	1	11/1/2024	2:53:12 AM
158	N069583-002B	SAMP	1	11/1/2024	2:55:30 AM
159	N069583-003B	SAMP	1	11/1/2024	2:57:48 AM
160	N069583-003B	SAMP	5	11/1/2024	3:00:06 AM
161	N069583-003B-PS	PS	1	11/1/2024	3:02:24 AM
162	N069583-003BMS	MS	1	11/1/2024	3:04:42 AM
163	N069583-003BMSD	MSD	1	11/1/2024	3:06:59 AM
164	N069583-004B	SAMP	1	11/1/2024	3:09:17 AM
165	CCV14	CCV	1	11/1/2024	3:11:34 AM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
166	CCB14	CCB	1	11/1/2024	3:13:51 AM
167	N069583-006B	SAMP	1	11/1/2024	3:16:09 AM
168	N069583-008B	SAMP	1	11/1/2024	3:18:26 AM
169	N069583-009B	SAMP	1	11/1/2024	3:20:44 AM
170	N069583-010B	SAMP	1	11/1/2024	3:23:02 AM
171	N060585-001B	SAMP	1	11/1/2024	3:25:20 AM
172	CCV15	CCV	1	11/1/2024	3:27:37 AM
173	CCB15	CCB	1	11/1/2024	3:29:54 AM
174	ICSA5	ICSA	1	11/1/2024	3:32:11 AM
175	ICSAB5	ICSAB	1	11/1/2024	3:34:27 AM

INJECTION LOG: 241106A

Instrument ID: NV00922-ICP3

STANDARD CODE	
Standard1	MWST-240820D, 0.005<10mL
Standard2	MWST-240820D, 0.05<10mL
Standard3	MWST-240820D, 0.125<10mL
Standard4	MWST-240820D, 0.25<10mL
Standard5	MWST-240820D, 0.375<10mL
Standard6	MWST-240820D, 0.5<10mL
ICV	MWST-240820E
CCV	MWST-240820D, 0.25<10mL
ICSA/ICSAB	MWST-240820Q/ MWST-240820F
Int. Std.	MSST-240801A/240801B
PS Spike	MSST-231025E/231025F/231130A

A/S Loc	Sample Name	Type	DF	Acq Date	Acq Time
1	CalBlk	IBLK	1	11/06/2024	12:46:30 PM
11	Standard1	ICAL	1	11/06/2024	12:48:13 PM
12	Standard2	ICAL	1	11/06/2024	12:50:58 PM
13	Standard3	ICAL	1	11/06/2024	12:53:42 PM
14	Standard4	ICAL	1	11/06/2024	12:56:30 PM
15	Standard5	ICAL	1	11/06/2024	12:59:17 PM
16	Standard6	ICAL	1	11/06/2024	01:02:05 PM
17	ICV	ICV	1	11/06/2024	01:09:08 PM
1	ICB	ICB	1	11/06/2024	01:11:57 PM
18	LLICV	CCV	1	11/06/2024	01:14:42 PM
19	ICSA1	ICSA	1	11/06/2024	01:17:28 PM
20	ICSAB1	ICSAB	1	11/06/2024	01:20:14 PM
21	20 PPM	SAMP	1	11/06/2024	01:23:04 PM
21	20 PPM	SAMP	1	11/06/2024	01:25:55 PM
22	25 PPM	SAMP	1	11/06/2024	01:28:45 PM
23	MB-113806	MBLK	1	11/06/2024	01:34:22 PM
24	LCS2-113806	LCS	1	11/06/2024	01:37:07 PM
25	N069629-001B	SAMP	5	11/06/2024	01:39:52 PM
26	N069629-002B	SAMP	5	11/06/2024	01:42:37 PM
35	MB-113745	MBLK	1	11/06/2024	01:45:22 PM
36	LCS2-113745	LCS	1	11/06/2024	01:48:07 PM
37	N069585-001B	SAMP	5	11/06/2024	01:51:39 PM
14	CCV1	CCV	1	11/06/2024	01:54:24 PM
1	CCB1	CCB	1	11/06/2024	01:57:13 PM
27	N069629-001B	SAMP	25	11/06/2024	01:59:58 PM
28	N069629-001B	SAMP	125	11/06/2024	02:02:43 PM
29	N069629-001B-PS	PS	5	11/06/2024	02:05:28 PM
30	N069629-001B-PS	PS	25	11/06/2024	02:08:15 PM
31	N069629-001B-MS2	MS	5	11/06/2024	02:10:52 PM

A/S Loc	Sample Name	Type	DF	Acq Date	Acq Time
32	N069629-001B-MS2	MS	25	11/06/2024	02:13:37 PM
33	N069629-001B-MSD2	MSD	5	11/06/2024	02:16:25 PM
34	N069629-001B-MSD2	MSD	25	11/06/2024	02:19:11 PM
59	N069629-002B	SAMP	25	11/06/2024	02:21:59 PM
38	N069585-001B	SAMP	1	11/06/2024	02:24:46 PM
14	CCV2	CCV	1	11/06/2024	02:27:34 PM
1	CCB2	CCB	1	11/06/2024	02:30:23 PM
39	N069585-001B	SAMP	25	11/06/2024	02:33:07 PM
40	N069585-001B	SAMP	125	11/06/2024	02:35:52 PM
41	N069585-001B-PS	PS	1	11/06/2024	02:38:37 PM
42	N069585-001B-PS	PS	25	11/06/2024	02:41:26 PM
43	N069585-001B-MS2	MS	1	11/06/2024	02:44:13 PM
44	N069585-001B-MS2	MS	25	11/06/2024	02:47:01 PM
45	N069585-001B-MSD2	MSD	1	11/06/2024	02:49:48 PM
46	N069585-001B-MSD2	MSD	25	11/06/2024	02:52:38 PM
14	CCV3	CCV	1	11/06/2024	02:55:25 PM
1	CCB3	CCB	1	11/06/2024	02:58:13 PM
19	ICSA2	ICSA	1	11/06/2024	03:00:57 PM
20	ICSAB2	ICSAB	1	11/06/2024	03:03:44 PM
71	MB-113807	MBLK	1	11/06/2024	03:15:52 PM
72	LCS2-113807	LCS	1	11/06/2024	03:18:38 PM
73	N069567-001B	SAMP	5	11/06/2024	03:21:24 PM
74	N069568-001B	SAMP	5	11/06/2024	03:24:11 PM
75	N069569-001B	SAMP	5	11/06/2024	03:26:57 PM
76	N069570-001B	SAMP	5	11/06/2024	03:29:43 PM
77	N069571-001B	SAMP	5	11/06/2024	03:32:30 PM
78	N069572-001B	SAMP	5	11/06/2024	03:35:16 PM
79	N069573-001B	SAMP	5	11/06/2024	03:38:03 PM
80	N069606-001B	SAMP	5	11/06/2024	03:40:49 PM
14	CCV4	CCV	1	11/06/2024	03:43:36 PM
1	CCB4	CCB	1	11/06/2024	03:46:24 PM
81	N069607-001B	SAMP	5	11/06/2024	03:49:10 PM
82	N069609-001B	SAMP	1	11/06/2024	03:51:57 PM
83	N069610-001B	SAMP	5	11/06/2024	03:54:44 PM
84	N069642-001B	SAMP	5	11/06/2024	03:57:30 PM
85	N069643-001B	SAMP	5	11/06/2024	04:00:16 PM
86	N069567-001B	SAMP	25	11/06/2024	04:10:26 PM
87	N069568-001B	SAMP	25	11/06/2024	04:13:12 PM
88	N069569-001B	SAMP	25	11/06/2024	04:15:58 PM
89	N069570-001B	SAMP	25	11/06/2024	04:18:44 PM
90	N069571-001B	SAMP	25	11/06/2024	04:21:30 PM
14	CCV5	CCV	1	11/06/2024	04:24:16 PM
1	CCB5	CCB	1	11/06/2024	04:27:04 PM
91	N069572-001B	SAMP	25	11/06/2024	04:29:49 PM
92	N069573-001B	SAMP	25	11/06/2024	04:32:35 PM
93	N069606-001B	SAMP	25	11/06/2024	04:35:21 PM

A/S Loc	Sample Name	Type	DF	Acq Date	Acq Time
94	N069606-001B	SAMP	50	11/06/2024	04:38:08 PM
95	N069606-001B	SAMP	250	11/06/2024	04:40:55 PM
96	N069606-001B-PS	PS	5	11/06/2024	04:43:41 PM
97	N069606-001B-PS	PS	50	11/06/2024	04:46:28 PM
98	N069606-001B-MS2	MS	5	11/06/2024	04:49:14 PM
99	N069606-001B-MS2	MS	50	11/06/2024	04:52:00 PM
100	N069606-001B-MSD2	MSD	5	11/06/2024	04:54:47 PM
14	CCV6	CCV	1	11/06/2024	04:57:33 PM
1	CCB6	CCB	1	11/06/2024	05:00:22 PM
19	ICSA3	ICSA	1	11/06/2024	05:03:07 PM
20	ICSAB3	ICSAB	1	11/06/2024	05:05:53 PM
101	N069606-001B-MSD2	MSD	50	11/06/2024	05:08:42 PM
102	N069607-001B	SAMP	25	11/06/2024	05:11:28 PM
103	N069610-001B	SAMP	25	11/06/2024	05:14:15 PM
104	N069642-001B	SAMP	25	11/06/2024	05:17:01 PM
105	N069643-001B	SAMP	25	11/06/2024	05:19:47 PM
107	MB-113808	MBLK	1	11/06/2024	05:24:01 PM
108	LCS2-113808	LCS	1	11/06/2024	05:26:48 PM
109	N069567-001A	SAMP	25	11/06/2024	05:29:35 PM
110	N069568-001A	SAMP	25	11/06/2024	05:32:22 PM
111	N069569-001A	SAMP	25	11/06/2024	05:35:09 PM
14	CCV7	CCV	1	11/06/2024	05:37:56 PM
1	CCB7	CCB	1	11/06/2024	05:40:44 PM
112	N069570-001A	SAMP	25	11/06/2024	05:43:29 PM
113	N069571-001A	SAMP	25	11/06/2024	05:46:16 PM
114	N069572-001A	SAMP	25	11/06/2024	05:49:03 PM
115	N069573-001A	SAMP	25	11/06/2024	05:51:49 PM
116	N069606-001A	SAMP	25	11/06/2024	05:54:36 PM
117	N069607-001A	SAMP	50	11/06/2024	05:57:23 PM
118	N069607-001A	SAMP	250	11/06/2024	06:00:10 PM
119	N069607-001A-PS	PS	50	11/06/2024	06:02:57 PM
120	N069607-001A-MS2	MS	50	11/06/2024	06:05:44 PM
121	N069607-001A-MSD2	MSD	50	11/06/2024	06:08:30 PM
14	CCV8	CCV	1	11/06/2024	06:11:17 PM
1	CCB8	CCB	1	11/06/2024	06:14:06 PM
122	N069609-001A	SAMP	1	11/06/2024	06:16:50 PM
123	N069610-001A	SAMP	25	11/06/2024	06:19:37 PM
124	N069642-001A	SAMP	25	11/06/2024	06:22:23 PM
125	N069643-001A	SAMP	25	11/06/2024	06:25:10 PM
14	CCV9	CCV	1	11/06/2024	06:27:57 PM
1	CCB9	CCB	1	11/06/2024	06:30:46 PM
19	ICSA4	ICSA	1	11/06/2024	06:33:31 PM
20	ICSAB4	ICSAB	1	11/06/2024	06:36:17 PM

SAMPLE PREPARATION LOG



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

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ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 10/31/2024 9:00:41 AM

Reviewed/ Date: M/Rocha 12/2/2024

Page: 1 of 2

Prep End Date: 10/31/2024 1:00:00 PM

Initials/ Date: for

Prep Factor Units Temp. (°C): Location:

Prep Batch 113745 Prep Code:3010_W_DISS

Technician: Jocelyn Rivera

mL / mL

95 DB-4-38

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-113745	Aqueous		25	<input type="checkbox"/>	25	1.000		
50ML LOT # MP3971								
LCS2-113745	Aqueous	<2	25	<input type="checkbox"/>	25	1.000		
MB-113745	Aqueous		25	<input type="checkbox"/>	25	1.000		
THERMOMETER ID: DIGESTION 7								
N069583-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-002B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-003B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-003BMS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-003BMSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-004B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-006B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-008B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-009B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-010B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17140	NITRIC ACID
17147	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
MSST-231025E	Sodium	LCS,MS,MSD	0.025
MSST-231025F	Potassium	LCS,MS,MSD	0.025
MWST-240820AA	ICP Solution C	LCS,MS,MSD	0.5
MWST-240820Y	ICP Solution A	LCS,MS,MSD	0.5
MWST-240820Z	ICP Solution B	LCS,MS,MSD	0.5

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 10/31/2024 9:00:41 AM

Prep End Date: 10/31/2024 1:00:00 PM

Prep Batch 113745 Prep Code:3010_W_DISS

Reviewed/ Date: d/Rocha 12/2/2024

Initials/ Date: for

Technician: **Jocelyn Rivera**

Page 2 of 2

Prep Factor Units Temp. (°C): Location:
mL / mL 95 DB-4-38

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N069585-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069585-001B-MS2	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069585-001B-MSD2	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17140	NITRIC ACID
17147	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
MSST-231025E	Sodium	LCS,MS,MSD	0.025
MSST-231025F	Potassium	LCS,MS,MSD	0.025
MWST-240820AA	ICP Solution C	LCS,MS,MSD	0.5
MWST-240820Y	ICP Solution A	LCS,MS,MSD	0.5
MWST-240820Z	ICP Solution B	LCS,MS,MSD	0.5

INITIAL CALIBRATION DATA SUMMARY



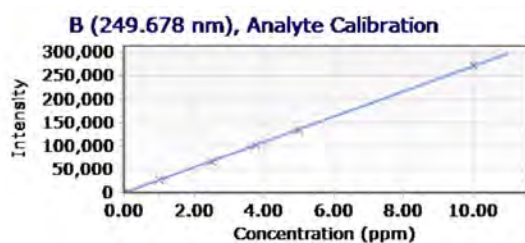
ASSET LABORATORIES
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CALIFORNIA
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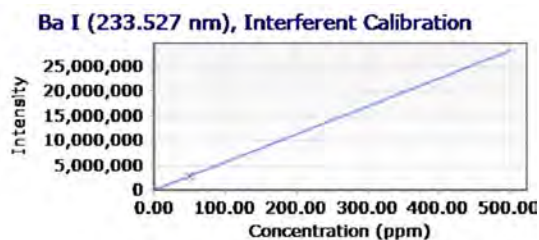
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Standards	Intensity	Method Conc	Calculated Conc	% Error
Standard 4	1100.91322	0.25000	0.25011	0.04425
Standard 5	1647.12096	0.37500	0.37405	0.25388
Standard 6	2187.43718	0.50000	0.49665	0.67031
Standard 7	4395.16674	1.00000	0.99759	0.24064



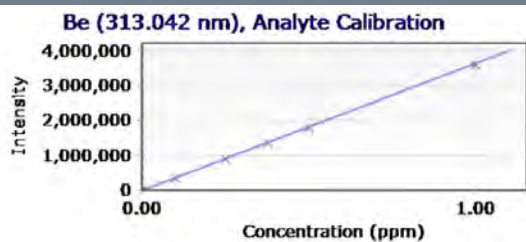
Intensity = 27159.51941448 * Concentration + 82.30081774
 Correlation coefficient: 0.99998
 %RSE:0.60084109

Standards	Intensity	Method Conc	Calculated Conc	% Error
Blank	76.26614	0.00000	-0.00022	N/A
Standard 1	2811.66174	0.10000	0.10049	0.49371
Standard 3	27206.88503	1.00000	0.99871	0.12863
Standard 4	67875.02303	2.50000	2.49609	0.15623
Standard 5	101120.49697	3.75000	3.72018	0.79530
Standard 6	135128.92238	5.00000	4.97235	0.55301
Standard 7	272954.30543	10.00000	10.04701	0.47012



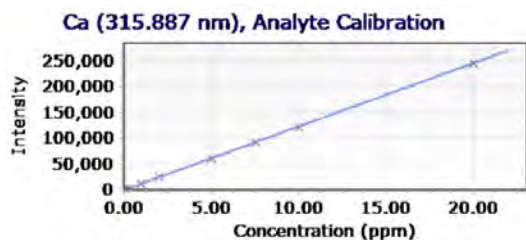
Intensity = 56512.78944050 * Concentration + 6.10817082
 Correlation coefficient: 1.00000
 %RSE:N/A

Standards	Intensity	Method Conc	Calculated Conc	% Error
IEC Blank	6.10817	0.00000	0.00000	N/A
Interferent 02 (Ba)	2825645.58020	50.00000	50.00000	0.00000



Intensity = 3664964.2755504 * Concentration + 28.89021131
 Correlation coefficient: 0.99999
 %RSE:2.03211224

Standards	Intensity	Method Conc	Calculated Conc	% Error
Blank	24.13487	0.00000	0.00000	N/A
Standard 1	3581.94333	0.00100	0.00097	3.05354
Standard 2	37173.95348	0.01000	0.01014	1.35177
Standard 3	364852.75084	0.10000	0.09954	0.45637
Standard 4	899966.43180	0.25000	0.24555	1.77939
Standard 5	1359955.12571	0.37500	0.37106	1.05033
Standard 6	1798036.99074	0.50000	0.49059	1.88128
Standard 7	3620420.60569	1.00000	0.98784	1.21618

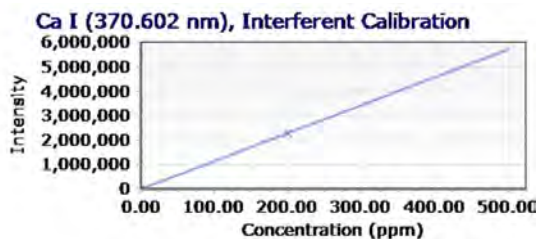


Intensity = 12311.99961591 * Concentration + 336.62288345
 Correlation coefficient: 0.99999
 %RSE:3.77675148

Standards	Intensity	Method Conc	Calculated Conc	% Error
Blank	22.89472	0.00000	-0.02548	N/A
Standard 1	3002.82103	0.20000	0.21655	8.27641
Standard 2	12655.54708	1.00000	1.00056	0.05624
Standard 3	24827.60847	2.00000	1.98920	0.54018
Standard 4	61558.68240	5.00000	4.97255	0.54896

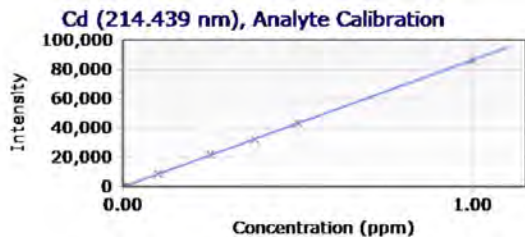


Standards	Intensity	Method Conc	Calculated Conc	% Error
Standard 5	91730.082 01	7.50000	7.42312	1.02506
Standard 6	122156.53 336	10.00000	9.89440	1.05595
Standard 7	245982.18 655	20.00000	19.95172	0.24140



Intensity = 11463.17247137 * Concentration + 91.62513444
 Correlation coefficient: 1.00000
 %RSE:N/A

Standards	Intensity	Method Conc	Calculated Conc	% Error
IEC Blank	91.62513	0.00000	0.00000	N/A
Interferent 04 (Ca)	2292726.1 1941	200.00000	200.00000	0.00000

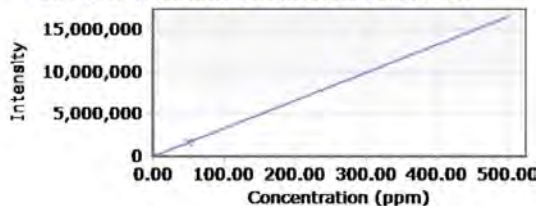


Intensity = 86679.45802150 * Concentration + 32.37803338
 Correlation coefficient: 0.99999
 %RSE:5.08685527

Standards	Intensity	Method Conc	Calculated Conc	% Error
Blank	25.58146	0.00000	-0.00008	N/A
Standard 1	241.64633	0.00250	0.00241	3.42889
Standard 2	992.61795	0.01000	0.01108	10.78056
Standard 3	8754.85410	0.10000	0.10063	0.62910
Standard 4	21837.369 92	0.25000	0.25156	0.62357
Standard 5	32738.248 22	0.37500	0.37732	0.61860
Standard 6	43176.811 14	0.50000	0.49775	0.45062



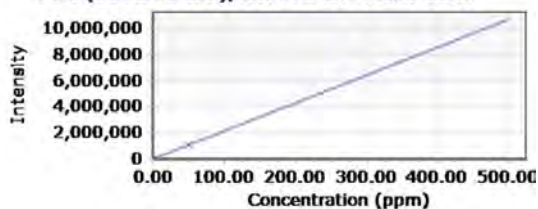
Cu I (324.754 nm), Interferent Calibration



Intensity = 33101.85948620 * Concentration + 684.20878678
 Correlation coefficient: 1.00000
 %RSE:N/A

Standards	Intensity	Method Conc	Calculated Conc	% Error
IEC Blank	684.20879	0.00000	0.00000	N/A
Interferent 09 (Cu)	1655777.18310	50.00000	50.00000	0.00000

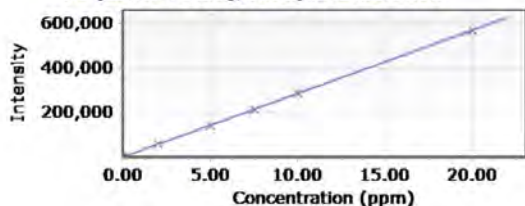
Fe I (239.563 nm), Interferent Calibration



Intensity = 21449.83771380 * Concentration + 29.10415739
 Correlation coefficient: 1.00000
 %RSE:N/A

Standards	Intensity	Method Conc	Calculated Conc	% Error
IEC Blank	29.10416	0.00000	0.00000	N/A
Interferent 10 (Fe)	1072520.98985	50.00000	50.00000	0.00000

Fe (259.940 nm), Analyte Calibration

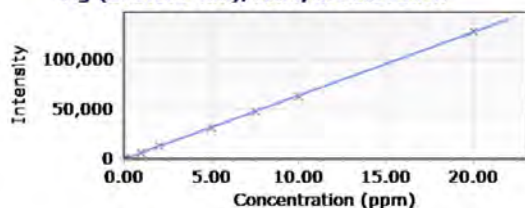


Intensity = 28506.87829741 * Concentration + 172.91935323
 Correlation coefficient: 1.00000
 %RSE:11.35463321

Standards	Intensity	Method Conc	Calculated Conc	% Error
Blank	43.61119	0.00000	-0.00454	N/A

Standards	Intensity	Method Conc	Calculated Conc	% Error
Standard 1	619.06346	0.02000	0.01565	21.74799
Standard 2	1784.95303	0.05000	0.05655	13.09787
Standard 3	57360.57937	2.00000	2.00610	0.30502
Standard 4	142722.24049	5.00000	5.00052	0.01047
Standard 5	213935.11087	7.50000	7.49862	0.01843
Standard 6	285074.83872	10.00000	9.99415	0.05853
Standard 7	569680.22094	20.00000	19.97789	0.11055

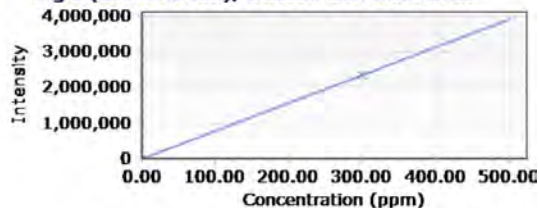
Mg (279.078 nm), Analyte Calibration



Intensity = 6435.13703482 * Concentration + 39.92635937
 Correlation coefficient: 0.99998
 %RSE:2.79435040

Standards	Intensity	Method Conc	Calculated Conc	% Error
Blank	28.63960	0.00000	-0.00175	N/A
Standard 1	718.20707	0.10000	0.10540	5.40268
Standard 2	6663.03831	1.00000	1.02921	2.92107
Standard 3	12905.27897	2.00000	1.99924	0.03824
Standard 4	32181.39524	5.00000	4.99468	0.10634
Standard 5	47854.41086	7.50000	7.43022	0.93040
Standard 6	64004.43082	10.00000	9.93988	0.60118
Standard 7	129107.81821	20.00000	20.05674	0.28372

Mg I (279.078 nm), Interferent Calibration



Intensity = 7830.79440384 * Concentration + 25.13274543

INITIAL CALIBRATION SUMMARY: 241106A

Instrument ID: NV00922-ICP3

Sample ID	Date	Time	Elem	Wavelength	Corrected Intensity	Concentration	Measured	Units	% RE	R
Sodium										
CalBlk	11/06/2024	12:46:30 PM	Na	589.592	423	0.00		mg/L		
Standard1	11/06/2024	12:48:13 PM	Na	589.592	1045	0.1	0.122	mg/L	21.9	
Standard2	11/06/2024	12:50:58 PM	Na	589.592	8874	1.0	1.035	mg/L	3.5	
Standard3	11/06/2024	12:53:42 PM	Na	589.592	21546	2.5	2.514	mg/L	0.5	
Standard4	11/06/2024	12:56:30 PM	Na	589.592	42906	5.0	5.006	mg/L	0.1	
Standard5	11/06/2024	12:59:17 PM	Na	589.592	64026	7.5	7.47	mg/L	-0.4	
Standard6	11/06/2024	01:02:05 PM	Na	589.592	85823	10	10.013	mg/L	0.1	1.0000
Potassium										
CalBlk	11/06/2024	12:46:30 PM	K	766.496	1170	0.00		mg/L		
Standard1	11/06/2024	12:48:13 PM	K	766.496	154	0.1	0.102	mg/L	1.5	
Standard2	11/06/2024	12:50:58 PM	K	766.496	1531	1.0	1.009	mg/L	0.9	
Standard3	11/06/2024	12:53:42 PM	K	766.496	3719	2.5	2.451	mg/L	-2	
Standard4	11/06/2024	12:56:30 PM	K	766.496	7484	5.0	4.931	mg/L	-1.4	
Standard5	11/06/2024	12:59:17 PM	K	766.496	11332	7.5	7.467	mg/L	-0.4	
Standard6	11/06/2024	01:02:05 PM	K	766.496	15282	10.0	10.07	mg/L	0.7	1.0000

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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NEVADA
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P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICV	SampType: ICV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: ICV	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281531						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10032.600	20	10000	0	100	90	110				

Sample ID: LLCCV1	SampType: CCV1	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: ZZZZZZ	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281533						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	16.010	20	20.00	0	80.1	80	120				

Sample ID: CCV1	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCV	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281547						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10183.530	20	10000	0	102	90	110				

Sample ID: CCV2	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCV	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281559						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10145.520	20	10000	0	101	90	110				

Sample ID: CCV3	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCV	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281571						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	10145.100	20	10000	0	101	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: CCV4	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCV	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281583						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10131.710	20	10000	0	101	90	110
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Sample ID: CCV5	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCV	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281587						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10138.160	20	10000	0	101	90	110
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Sample ID: CCV6	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCV	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281601						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10247.030	20	10000	0	102	90	110
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Sample ID: CCV7	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCV	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6281613						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10205.440	20	10000	0	102	90	110
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Sample ID: CCV8	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCV	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6281618						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10201.890	20	10000	0	102	90	110
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPB

Sample ID: CCV9	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCV	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6281632						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 10120.330 20 10000 0 101 90 110

Sample ID: CCV10	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCV	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6281644						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 10105.620 20 10000 0 101 90 110

Sample ID: CCV11	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCV	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6281652						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 10075.690 20 10000 0 101 90 110

Sample ID: CCV12	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCV	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6281666						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 10135.220 20 10000 0 101 90 110

Sample ID: CCV13	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCV	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6281675						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 10094.420 20 10000 0 101 90 110

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPB

Sample ID: CCV14	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCV	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6281687						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10080.470	20	10000	0	101	90	110				
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Sample ID: CCV15	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCV	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6281694						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10088.880	20	10000	0	101	90	110				
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPM

Sample ID: ICV	SampType: ICV	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195149						
Client ID: ICV	Batch ID: R195149	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6283881						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	4.965	0.10	5.000	0	99.3	90	110				
Calcium	9.872	0.50	10.00	0	98.7	90	110				
Magnesium	9.893	0.10	10.00	0	98.9	90	110				

Sample ID: LLCCV1	SampType: CCV1	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195149						
Client ID: ZZZZZ	Batch ID: R195149	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6283883						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	0.101	0.10	0.1000	0	101	80	120				
Calcium	0.221	0.50	0.2000	0	111	80	120				
Magnesium	0.103	0.10	0.1000	0	103	80	120				

Sample ID: CCV1	SampType: CCV	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195149						
Client ID: CCV	Batch ID: R195149	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6283897						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	4.914	0.10	5.000	0	98.3	90	110				
Calcium	9.754	0.50	10.00	0	97.5	90	110				
Magnesium	9.773	0.10	10.00	0	97.7	90	110				

Sample ID: CCV2	SampType: CCV	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195149						
Client ID: CCV	Batch ID: R195149	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6283909						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	4.907	0.10	5.000	0	98.1	90	110				
Calcium	9.742	0.50	10.00	0	97.4	90	110				
Magnesium	9.743	0.10	10.00	0	97.4	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPM

Sample ID: CCV3		SampType: CCV		TestCode: 6010_WDPG		Units: mg/L		Prep Date:		RunNo: 195149		
Client ID: CCV		Batch ID: R195149		TestNo: EPA 6010B				Analysis Date: 10/31/2024		SeqNo: 6283921		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Boron	4.890	0.10	5.000	0	97.8	90	110					
Calcium	9.722	0.50	10.00	0	97.2	90	110					
Magnesium	9.715	0.10	10.00	0	97.1	90	110					

Sample ID: CCV4		SampType: CCV		TestCode: 6010_WDPG		Units: mg/L		Prep Date:		RunNo: 195149		
Client ID: CCV		Batch ID: R195149		TestNo: EPA 6010B				Analysis Date: 10/31/2024		SeqNo: 6283933		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Boron	4.892	0.10	5.000	0	97.8	90	110					
Calcium	9.698	0.50	10.00	0	97.0	90	110					
Magnesium	9.700	0.10	10.00	0	97.0	90	110					

Sample ID: CCV5		SampType: CCV		TestCode: 6010_WDPG		Units: mg/L		Prep Date:		RunNo: 195149		
Client ID: CCV		Batch ID: R195149		TestNo: EPA 6010B				Analysis Date: 10/31/2024		SeqNo: 6283937		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Boron	4.889	0.10	5.000	0	97.8	90	110					
Calcium	9.701	0.50	10.00	0	97.0	90	110					
Magnesium	9.691	0.10	10.00	0	96.9	90	110					

Sample ID: CCV6		SampType: CCV		TestCode: 6010_WDPG		Units: mg/L		Prep Date:		RunNo: 195149		
Client ID: CCV		Batch ID: R195149		TestNo: EPA 6010B				Analysis Date: 10/31/2024		SeqNo: 6283951		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Boron	4.877	0.10	5.000	0	97.5	90	110					
Calcium	9.673	0.50	10.00	0	96.7	90	110					
Magnesium	9.734	0.10	10.00	0	97.3	90	110					

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPM

Sample ID: CCV7	SampType: CCV	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195149						
Client ID: CCV	Batch ID: R195149	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6283963						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	4.864	0.10	5.000	0	97.3	90	110				
Calcium	9.672	0.50	10.00	0	96.7	90	110				
Magnesium	9.697	0.10	10.00	0	97.0	90	110				

Sample ID: CCV8	SampType: CCV	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195149						
Client ID: CCV	Batch ID: R195149	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6283968						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	4.865	0.10	5.000	0	97.3	90	110				
Calcium	9.715	0.50	10.00	0	97.1	90	110				
Magnesium	9.729	0.10	10.00	0	97.3	90	110				

Sample ID: CCV9	SampType: CCV	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195149						
Client ID: CCV	Batch ID: R195149	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6283982						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	4.847	0.10	5.000	0	96.9	90	110				
Calcium	9.630	0.50	10.00	0	96.3	90	110				
Magnesium	9.624	0.10	10.00	0	96.2	90	110				

Sample ID: CCV10	SampType: CCV	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195149						
Client ID: CCV	Batch ID: R195149	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6283994						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	4.895	0.10	5.000	0	97.9	90	110				
Calcium	9.656	0.50	10.00	0	96.6	90	110				
Magnesium	9.690	0.10	10.00	0	96.9	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPM

Sample ID: CCV11		SampType: CCV		TestCode: 6010_WDPG		Units: mg/L		Prep Date:		RunNo: 195149		
Client ID: CCV		Batch ID: R195149		TestNo: EPA 6010B				Analysis Date: 11/1/2024		SeqNo: 6284002		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Boron	4.841	0.10	5.000	0	96.8	90	110					
Calcium	9.686	0.50	10.00	0	96.9	90	110					
Magnesium	9.671	0.10	10.00	0	96.7	90	110					

Sample ID: CCV12		SampType: CCV		TestCode: 6010_WDPG		Units: mg/L		Prep Date:		RunNo: 195149		
Client ID: CCV		Batch ID: R195149		TestNo: EPA 6010B				Analysis Date: 11/1/2024		SeqNo: 6284016		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Boron	4.893	0.10	5.000	0	97.9	90	110					
Calcium	9.751	0.50	10.00	0	97.5	90	110					
Magnesium	9.749	0.10	10.00	0	97.5	90	110					

Sample ID: CCV13		SampType: CCV		TestCode: 6010_WDPG		Units: mg/L		Prep Date:		RunNo: 195149		
Client ID: CCV		Batch ID: R195149		TestNo: EPA 6010B				Analysis Date: 11/1/2024		SeqNo: 6284025		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Boron	4.909	0.10	5.000	0	98.2	90	110					
Calcium	9.752	0.50	10.00	0	97.5	90	110					
Magnesium	9.782	0.10	10.00	0	97.8	90	110					

Sample ID: CCV14		SampType: CCV		TestCode: 6010_WDPG		Units: mg/L		Prep Date:		RunNo: 195149		
Client ID: CCV		Batch ID: R195149		TestNo: EPA 6010B				Analysis Date: 11/1/2024		SeqNo: 6284037		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Boron	4.892	0.10	5.000	0	97.8	90	110					
Calcium	9.738	0.50	10.00	0	97.4	90	110					
Magnesium	9.725	0.10	10.00	0	97.2	90	110					

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPM

Sample ID: CCV15	SampType: CCV	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195149						
Client ID: CCV	Batch ID: R195149	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6284044						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	4.883	0.10	5.000	0	97.7	90	110				
Calcium	9.755	0.50	10.00	0	97.6	90	110				
Magnesium	9.764	0.10	10.00	0	97.6	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPM

Sample ID: ICV	SampType: ICV	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195306						
Client ID: ICV	Batch ID: R195306	TestNo: EPA 6010B		Analysis Date: 11/6/2024	SeqNo: 6294753						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	4.981	0.50	5.000	0	99.6	90	110				
Sodium	4.998	0.50	5.000	0	100	90	110				

Sample ID: LLICV	SampType: CCV	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195306						
Client ID: CCV	Batch ID: R195306	TestNo: EPA 6010B		Analysis Date: 11/6/2024	SeqNo: 6294755						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	0.484	0.50	0.5000	0	96.7	80	120				
Sodium	0.501	0.50	0.5000	0	100	80	120				

Sample ID: CCV1	SampType: CCV	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195306						
Client ID: CCV	Batch ID: R195306	TestNo: EPA 6010B		Analysis Date: 11/6/2024	SeqNo: 6294768						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	4.915	0.50	5.000	0	98.3	90	110				
Sodium	4.944	0.50	5.000	0	98.9	90	110				

Sample ID: CCV2	SampType: CCV	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195306						
Client ID: CCV	Batch ID: R195306	TestNo: EPA 6010B		Analysis Date: 11/6/2024	SeqNo: 6294780						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	4.879	0.50	5.000	0	97.6	90	110				
Sodium	5.004	0.50	5.000	0	100	90	110				

Sample ID: CCV3	SampType: CCV	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195306						
Client ID: CCV	Batch ID: R195306	TestNo: EPA 6010B		Analysis Date: 11/6/2024	SeqNo: 6294790						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	4.824	0.50	5.000	0	96.5	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPM

Sample ID: CCV3	SampType: CCV	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195306						
Client ID: CCV	Batch ID: R195306	TestNo: EPA 6010B		Analysis Date: 11/6/2024	SeqNo: 6294790						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	4.977	0.50	5.000	0	99.5	90	110				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out

E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values

H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
(M) Test is modified

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICB	SampType: ICB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: ICB	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281532						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -3.4 20

Sample ID: CCB1	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCB	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281548						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -0.65 20

Sample ID: CCB2	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCB	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281560						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -2.96 20

Sample ID: CCB3	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCB	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281572						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -2.72 20

Sample ID: CCB4	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCB	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281584						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -3.09 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPB

Sample ID: CCB5	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCB	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281588						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -2.99 20

Sample ID: CCB6	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCB	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281602						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 4.860 20

Sample ID: CCB7	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCB	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6281614						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 3.720 20

Sample ID: CCB8	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCB	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6281619						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 2.200 20

Sample ID: CCB9	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCB	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6281633						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -1. 20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: CCB10	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCB	Batch ID: R195107	TestNo: EPA 6010B	Analysis Date: 11/1/2024	SeqNo: 6281645							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -2.37 20

Sample ID: CCB11	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCB	Batch ID: R195107	TestNo: EPA 6010B	Analysis Date: 11/1/2024	SeqNo: 6281653							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -2.41 20

Sample ID: CCB12	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCB	Batch ID: R195107	TestNo: EPA 6010B	Analysis Date: 11/1/2024	SeqNo: 6281667							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -2.27 20

Sample ID: CCB13	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCB	Batch ID: R195107	TestNo: EPA 6010B	Analysis Date: 11/1/2024	SeqNo: 6281676							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -2.02 20

Sample ID: CCB14	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCB	Batch ID: R195107	TestNo: EPA 6010B	Analysis Date: 11/1/2024	SeqNo: 6281688							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -2.11 20

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out

E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values

H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
(M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID: CCB15	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: CCB	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6281695						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	-2.31	20									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out

E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values

H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
(M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPM

Sample ID: ICB	SampType: ICB	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195149						
Client ID: ICB	Batch ID: R195149	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6283882						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	0.006	0.10									
Calcium	-0.02415	0.50									
Magnesium	-0.00063	0.10									

Sample ID: CCB1	SampType: CCB	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195149						
Client ID: CCB	Batch ID: R195149	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6283898						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	0.005	0.10									
Calcium	-0.04165	0.50									
Magnesium	0.00087	0.10									

Sample ID: CCB2	SampType: CCB	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195149						
Client ID: CCB	Batch ID: R195149	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6283910						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	0.006	0.10									
Calcium	-0.02412	0.50									
Magnesium	-0.0015	0.10									

Sample ID: CCB3	SampType: CCB	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195149						
Client ID: CCB	Batch ID: R195149	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6283922						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	0.006	0.10									
Calcium	-0.02265	0.50									
Magnesium	-0.0013	0.10									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPM

Sample ID: CCB4	SampType: CCB	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195149						
Client ID: CCB	Batch ID: R195149	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6283934						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	0.006	0.10									
Calcium	-0.02299	0.50									
Magnesium	-0.00079	0.10									

Sample ID: CCB5	SampType: CCB	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195149						
Client ID: CCB	Batch ID: R195149	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6283938						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	0.006	0.10									
Calcium	-0.02222	0.50									
Magnesium	0.00092	0.10									

Sample ID: CCB6	SampType: CCB	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195149						
Client ID: CCB	Batch ID: R195149	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6283952						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	0.006	0.10									
Calcium	-0.0246	0.50									
Magnesium	0.003	0.10									

Sample ID: CCB7	SampType: CCB	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195149						
Client ID: CCB	Batch ID: R195149	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6283964						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	0.006	0.10									
Calcium	-0.02041	0.50									
Magnesium	0.003	0.10									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPM

Sample ID: CCB8	SampType: CCB	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195149						
Client ID: CCB	Batch ID: R195149	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6283969						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	0.005	0.10									
Calcium	-0.03547	0.50									
Magnesium	0.002	0.10									

Sample ID: CCB9	SampType: CCB	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195149						
Client ID: CCB	Batch ID: R195149	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6283983						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	0.006	0.10									
Calcium	-0.02454	0.50									
Magnesium	0.002	0.10									

Sample ID: CCB10	SampType: CCB	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195149						
Client ID: CCB	Batch ID: R195149	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6283995						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	0.005	0.10									
Calcium	-0.02352	0.50									
Magnesium	-0.00055	0.10									

Sample ID: CCB11	SampType: CCB	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195149						
Client ID: CCB	Batch ID: R195149	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6284003						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	0.005	0.10									
Calcium	-0.02383	0.50									
Magnesium	0.00047	0.10									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPM

Sample ID: CCB12	SampType: CCB	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195149						
Client ID: CCB	Batch ID: R195149	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6284017						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	0.006	0.10									
Calcium	-0.02236	0.50									
Magnesium	0.002	0.10									

Sample ID: CCB13	SampType: CCB	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195149						
Client ID: CCB	Batch ID: R195149	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6284026						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	0.005	0.10									
Calcium	-0.03351	0.50									
Magnesium	0.00016	0.10									

Sample ID: CCB14	SampType: CCB	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195149						
Client ID: CCB	Batch ID: R195149	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6284038						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	0.007	0.10									
Calcium	-0.03089	0.50									
Magnesium	0.002	0.10									

Sample ID: CCB15	SampType: CCB	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195149						
Client ID: CCB	Batch ID: R195149	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6284045						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	0.006	0.10									
Calcium	-0.02165	0.50									
Magnesium	0.003	0.10									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPM

Sample ID: ICB	SampType: ICB	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195306						
Client ID: ICB	Batch ID: R195306	TestNo: EPA 6010B		Analysis Date: 11/6/2024	SeqNo: 6294754						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	-0.044441	0.50									
Sodium	0.004	0.50									

Sample ID: CCB1	SampType: CCB	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195306						
Client ID: CCB	Batch ID: R195306	TestNo: EPA 6010B		Analysis Date: 11/6/2024	SeqNo: 6294769						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	0.019	0.50									
Sodium	0.019	0.50									

Sample ID: CCB2	SampType: CCB	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195306						
Client ID: CCB	Batch ID: R195306	TestNo: EPA 6010B		Analysis Date: 11/6/2024	SeqNo: 6294781						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	-0.019746	0.50									
Sodium	0.046	0.50									

Sample ID: CCB3	SampType: CCB	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195306						
Client ID: CCB	Batch ID: R195306	TestNo: EPA 6010B		Analysis Date: 11/6/2024	SeqNo: 6294791						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	-0.011592	0.50									
Sodium	0.052	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICSA1	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: ICSA	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281535						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10256.820	50	10000	0	103	80	120				
Calcium	9975.130	500	10000	0	99.8	80	120				
Iron	10555.780	20	10000	0	106	80	120				
Magnesium	9999.140	100	10000	0	100	80	120				

Sample ID: ICSA1	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: ICSA	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281536						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10234.200	50	10000	0	102	80	120				
Calcium	9823.670	500	10000	0	98.2	80	120				
Iron	10339.020	20	10000	0	103	80	120				
Magnesium	9816.300	100	10000	0	98.2	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: ICSA	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281589						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10245.250	50	10000	0	102	80	120				
Calcium	9833.600	500	10000	0	98.3	80	120				
Iron	10544.010	20	10000	0	105	80	120				
Magnesium	9819.760	100	10000	0	98.2	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: ICSA	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6281590						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10237.550	50	10000	0	102	80	120				
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICSAB2		SampType: ICSAB		TestCode: 6010_WDPG		Units: µg/L		Prep Date:		RunNo: 195107		
Client ID: ICSAB		Batch ID: R195107		TestNo: EPA 6010B				Analysis Date: 10/31/2024		SeqNo: 6281590		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Calcium	9652.610	500	10000	0	96.5	80	120					
Iron	10327.070	20	10000	0	103	80	120					
Magnesium	9696.800	100	10000	0	97.0	80	120					

Sample ID: ICSA3		SampType: ICSA		TestCode: 6010_WDPG		Units: µg/L		Prep Date:		RunNo: 195107		
Client ID: ICSA		Batch ID: R195107		TestNo: EPA 6010B				Analysis Date: 11/1/2024		SeqNo: 6281620		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	10235.630	50	10000	0	102	80	120					
Calcium	9820.160	500	10000	0	98.2	80	120					
Iron	10572.800	20	10000	0	106	80	120					
Magnesium	9854.340	100	10000	0	98.5	80	120					

Sample ID: ICSAB3		SampType: ICSAB		TestCode: 6010_WDPG		Units: µg/L		Prep Date:		RunNo: 195107		
Client ID: ICSAB		Batch ID: R195107		TestNo: EPA 6010B				Analysis Date: 11/1/2024		SeqNo: 6281621		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	10231.390	50	10000	0	102	80	120					
Calcium	9677.340	500	10000	0	96.8	80	120					
Iron	10306.690	20	10000	0	103	80	120					
Magnesium	9753.770	100	10000	0	97.5	80	120					

Sample ID: ICSA4		SampType: ICSA		TestCode: 6010_WDPG		Units: µg/L		Prep Date:		RunNo: 195107		
Client ID: ICSA		Batch ID: R195107		TestNo: EPA 6010B				Analysis Date: 11/1/2024		SeqNo: 6281654		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	10224.200	50	10000	0	102	80	120					
Calcium	9843.160	500	10000	0	98.4	80	120					
Iron	10494.840	20	10000	0	105	80	120					

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICSA4	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: ICSA	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6281654						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Magnesium	9861.420	100	10000	0	98.6	80	120				
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Sample ID: ICSA4	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: ICSA	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6281655						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10242.100	50	10000	0	102	80	120				
Calcium	9679.900	500	10000	0	96.8	80	120				
Iron	10285.640	20	10000	0	103	80	120				
Magnesium	9750.700	100	10000	0	97.5	80	120				

Sample ID: ICSA5	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: ICSA	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6281696						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10226.750	50	10000	0	102	80	120				
Calcium	9849.760	500	10000	0	98.5	80	120				
Iron	10442.080	20	10000	0	104	80	120				
Magnesium	9884.860	100	10000	0	98.8	80	120				

Sample ID: ICSA5	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: ICSA	Batch ID: R195107	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6281697						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10247.350	50	10000	0	102	80	120				
Calcium	9713.250	500	10000	0	97.1	80	120				
Iron	10247.340	20	10000	0	102	80	120				
Magnesium	9776.930	100	10000	0	97.8	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPM

Sample ID: ICSA1		SampType: ICSA		TestCode: 6010_WDPG		Units: mg/L		Prep Date:		RunNo: 195149		
Client ID: ICSA		Batch ID: R195149		TestNo: EPA 6010B				Analysis Date: 10/31/2024		SeqNo: 6283885		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	10.257	0.050	10.00	0	103	80	120					
Boron	0.00091	0.10										
Calcium	9.975	0.50	10.00	0	99.8	80	120					
Iron	10.556	0.020	10.00	0	106	80	120					
Magnesium	9.999	0.10	10.00	0	100	80	120					

Sample ID: ICSA1		SampType: ICSA		TestCode: 6010_WDPG		Units: mg/L		Prep Date:		RunNo: 195149		
Client ID: ICSA		Batch ID: R195149		TestNo: EPA 6010B				Analysis Date: 10/31/2024		SeqNo: 6283886		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	10.234	0.050	10.00	0	102	80	120					
Boron	0.487	0.10	0.5000	0	97.4	80	120					
Calcium	9.824	0.50	10.00	0	98.2	80	120					
Iron	10.339	0.020	10.00	0	103	80	120					
Magnesium	9.816	0.10	10.00	0	98.2	80	120					

Sample ID: ICSA2		SampType: ICSA		TestCode: 6010_WDPG		Units: mg/L		Prep Date:		RunNo: 195149		
Client ID: ICSA		Batch ID: R195149		TestNo: EPA 6010B				Analysis Date: 10/31/2024		SeqNo: 6283939		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	10.245	0.050	10.00	0	102	80	120					
Boron	0.006	0.10										
Calcium	9.834	0.50	10.00	0	98.3	80	120					
Iron	10.544	0.020	10.00	0	105	80	120					
Magnesium	9.820	0.10	10.00	0	98.2	80	120					

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPM

Sample ID: ICSAB2	SampType: ICSAB	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195149						
Client ID: ICSAB	Batch ID: R195149	TestNo: EPA 6010B		Analysis Date: 10/31/2024	SeqNo: 6283940						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10.238	0.050	10.00	0	102	80	120				
Boron	0.481	0.10	0.5000	0	96.2	80	120				
Calcium	9.653	0.50	10.00	0	96.5	80	120				
Iron	10.327	0.020	10.00	0	103	80	120				
Magnesium	9.697	0.10	10.00	0	97.0	80	120				

Sample ID: ICSA3	SampType: ICSA	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195149						
Client ID: ICSA	Batch ID: R195149	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6283970						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10.236	0.050	10.00	0	102	80	120				
Boron	0.005	0.10									
Calcium	9.820	0.50	10.00	0	98.2	80	120				
Iron	10.573	0.020	10.00	0	106	80	120				
Magnesium	9.854	0.10	10.00	0	98.5	80	120				

Sample ID: ICSAB3	SampType: ICSAB	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195149						
Client ID: ICSAB	Batch ID: R195149	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6283971						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10.231	0.050	10.00	0	102	80	120				
Boron	0.480	0.10	0.5000	0	96.0	80	120				
Calcium	9.677	0.50	10.00	0	96.8	80	120				
Iron	10.307	0.020	10.00	0	103	80	120				
Magnesium	9.754	0.10	10.00	0	97.5	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPM

Sample ID: ICSA4	SampType: ICSA	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195149						
Client ID: ICSA	Batch ID: R195149	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6284004						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10.224	0.050	10.00	0	102	80	120				
Boron	0.00068	0.10									
Calcium	9.843	0.50	10.00	0	98.4	80	120				
Iron	10.495	0.020	10.00	0	105	80	120				
Magnesium	9.861	0.10	10.00	0	98.6	80	120				

Sample ID: ICSA4	SampType: ICSA	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195149						
Client ID: ICSA	Batch ID: R195149	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6284005						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10.242	0.050	10.00	0	102	80	120				
Boron	0.480	0.10	0.5000	0	96.0	80	120				
Calcium	9.680	0.50	10.00	0	96.8	80	120				
Iron	10.286	0.020	10.00	0	103	80	120				
Magnesium	9.751	0.10	10.00	0	97.5	80	120				

Sample ID: ICSA5	SampType: ICSA	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195149						
Client ID: ICSA	Batch ID: R195149	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6284046						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10.227	0.050	10.00	0	102	80	120				
Boron	0.001	0.10									
Calcium	9.850	0.50	10.00	0	98.5	80	120				
Iron	10.442	0.020	10.00	0	104	80	120				
Magnesium	9.885	0.10	10.00	0	98.8	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPM

Sample ID: ICSAB5	SampType: ICSAB	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195149						
Client ID: ICSAB	Batch ID: R195149	TestNo: EPA 6010B		Analysis Date: 11/1/2024	SeqNo: 6284047						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	10.247	0.050	10.00	0	102	80	120				
Boron	0.483	0.10	0.5000	0	96.6	80	120				
Calcium	9.713	0.50	10.00	0	97.1	80	120				
Iron	10.247	0.020	10.00	0	102	80	120				
Magnesium	9.777	0.10	10.00	0	97.8	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPM

Sample ID: ICSA1	SampType: ICSA	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195306						
Client ID: ICSA	Batch ID: R195306	TestNo: EPA 6010B		Analysis Date: 11/6/2024	SeqNo: 6294756						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	-0.01364	0.50									
Sodium	0.009	0.50									

Sample ID: ICSA1	SampType: ICSA	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195306						
Client ID: ICSA	Batch ID: R195306	TestNo: EPA 6010B		Analysis Date: 11/6/2024	SeqNo: 6294757						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	4.899	0.50	5.000	0	98.0	80	120				
Sodium	4.932	0.50	5.000	0	98.6	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195306						
Client ID: ICSA	Batch ID: R195306	TestNo: EPA 6010B		Analysis Date: 11/6/2024	SeqNo: 6294792						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	0.027	0.50									
Sodium	0.051	0.50									

Sample ID: ICSA2	SampType: ICSA	TestCode: 6010_WDPG	Units: mg/L	Prep Date:	RunNo: 195306						
Client ID: ICSA	Batch ID: R195306	TestNo: EPA 6010B		Analysis Date: 11/6/2024	SeqNo: 6294793						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	4.703	0.50	5.000	0	94.1	80	120				
Sodium	4.881	0.50	5.000	0	97.6	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

INTERNAL STANDARD SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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P: 562.219.7435 F: 562.219.7436

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3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

INTERNAL STANDARD: 241031A

Instrument ID: NV00922-ICP4

Sample Name	Type	DF	Yttrium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
Blank	BLK	1	1	100	65-125	PASS
Standard 1	ICAL	1	1.03	103	65-125	PASS
Standard 2	ICAL	1	1.04	104	65-125	PASS
Standard 3	ICAL	1	1.05	105	65-125	PASS
Standard 4	ICAL	1	1.05	105	65-125	PASS
Standard 5	ICAL	1	1.05	105	65-125	PASS
Standard 6	ICAL	1	1.06	106	65-125	PASS
Standard 7	ICAL	1	1.06	106	65-125	PASS
ICV	ICV	1	1.06	106	65-125	PASS
ICB	ICB	1	1.07	107	65-125	PASS
LLCCV1	CCV1	1	1.08	108	65-125	PASS
LLCCV2	CCV1	1	1.08	108	65-125	PASS
ICSA1	ICSA	1	1.1	110	65-125	PASS
ICSAB1	ICSAB	1	1.11	111	65-125	PASS
LLCCV1	CCV1	1	1.08	108	65-125	PASS
CCV1	CCV	1	1.09	109	65-125	PASS
CCB1	CCB	1	1.1	110	65-125	PASS
CCV2	CCV	1	1.12	112	65-125	PASS
CCB2	CCB	1	1.12	112	65-125	PASS
CCV3	CCV	1	1.13	113	65-125	PASS
CCB3	CCB	1	1.13	113	65-125	PASS
CCV4	CCV	1	1.14	114	65-125	PASS
CCB4	CCB	1	1.13	113	65-125	PASS
CCV5	CCV	1	1.14	114	65-125	PASS
CCB5	CCB	1	1.13	113	65-125	PASS
ICSA2	ICSA	1	1.16	116	65-125	PASS
ICSAB2	ICSAB	1	1.16	116	65-125	PASS
CCV6	CCV	1	1.14	114	65-125	PASS
CCB6	CCB	1	1.13	113	65-125	PASS
CCV7	CCV	1	1.14	114	65-125	PASS
CCB7	CCB	1	1.13	113	65-125	PASS
CCV8	CCV	1	1.13	113	65-125	PASS
CCB8	CCB	1	1.13	113	65-125	PASS
ICSA3	ICSA	1	1.15	115	65-125	PASS
ICSAB3	ICSAB	1	1.16	116	65-125	PASS
CCV9	CCV	1	1.14	114	65-125	PASS
CCB9	CCB	1	1.13	113	65-125	PASS
CCV10	CCV	1	1.13	113	65-125	PASS
CCB10	CCB	1	1.12	112	65-125	PASS
CCV11	CCV	1	1.14	114	65-125	PASS
CCB11	CCB	1	1.13	113	65-125	PASS

INTERNAL STANDARD: 241031A

Instrument ID: NV00922-ICP4

Sample Name	Type	DF	Yttrium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
ICSA4	ICSA	1	1.12	112	65-125	PASS
ICSAB4	ICSAB	1	1.16	116	65-125	PASS
CCV12	CCV	1	1.12	112	65-125	PASS
CCB12	CCB	1	1.12	112	65-125	PASS
CCV13	CCV	1	1.12	112	65-125	PASS
CCB13	CCB	1	1.12	112	65-125	PASS
MB-113745	MBLK	1	1.12	112	65-125	PASS
LCS-113745	LCS	1	1.07	107	65-125	PASS
N069583-001B	SAMP	1	1.11	111	65-125	PASS
N069583-002B	SAMP	1	1.06	106	65-125	PASS
N069583-003B	SAMP	1	1.05	105	65-125	PASS
N069583-003B	SAMP	5	1.11	111	65-125	PASS
N069583-003B-PS	PS	1	1	100	65-125	PASS
N069583-003BMS	MS	1	1.06	106	65-125	PASS
N069583-003BMSD	MSD	1	1.06	106	65-125	PASS
N069583-004B	SAMP	1	1.05	105	65-125	PASS
CCV14	CCV	1	1.13	113	65-125	PASS
CCB14	CCB	1	1.12	112	65-125	PASS
N069583-006B	SAMP	1	1.1	110	65-125	PASS
N069583-008B	SAMP	1	1.06	106	65-125	PASS
N069583-009B	SAMP	1	1.02	102	65-125	PASS
N069583-010B	SAMP	1	1.01	101	65-125	PASS
N060585-001B	SAMP	1	1.1	110	65-125	PASS
CCV15	CCV	1	1.13	113	65-125	PASS
CCB15	CCB	1	1.12	112	65-125	PASS
ICSA5	ICSA	1	1.11	111	65-125	PASS
ICSAB5	ICSAB	1	1.16	116	65-125	PASS

INTERNAL STANDARD: 241106A

Instrument ID: NV00922-ICP3

Sample Name	Type	DF	Scandium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
CalBlk	IBLK	1	1	100	65-125	PASS
Standard1	ICAL	1	1.01	101.3	65-125	PASS
Standard2	ICAL	1	0.99	99.21	65-125	PASS
Standard3	ICAL	1	1.02	102.42	65-125	PASS
Standard4	ICAL	1	1.02	101.61	65-125	PASS
Standard5	ICAL	1	1.02	102.24	65-125	PASS
Standard6	ICAL	1	1.01	100.81	65-125	PASS
ICV	ICV	1	1.02	101.72	65-125	PASS
ICB	ICB	1	0.99	99.32	65-125	PASS
LLICV	CCV	1	0.99	98.73	65-125	PASS
ICSA1	ICSA	1	1	99.9	65-125	PASS
ICSAB1	ICSAB	1	1.04	103.86	65-125	PASS
20 PPM	SAMP	1	1.04	103.92	65-125	PASS
20 PPM	SAMP	1	1.03	103.05	65-125	PASS
25 PPM	SAMP	1	1.03	103.33	65-125	PASS
MB-113745	MBLK	1	1.09	109.19	65-125	PASS
LCS2-113745	LCS	1	0.95	94.66	65-125	PASS
N069585-001B	SAMP	5	1.04	103.62	65-125	PASS
CCV1	CCV	1	1.01	101.43	65-125	PASS
CCB1	CCB	1	1	100.45	65-125	PASS
N069585-001B	SAMP	1	1.09	109.32	65-125	PASS
CCV2	CCV	1	1.03	103.35	65-125	PASS
CCB2	CCB	1	1.01	101.37	65-125	PASS
N069585-001B	SAMP	25	1.02	102.5	65-125	PASS
N069585-001B	SAMP	125	1.02	101.56	65-125	PASS
N069585-001B-PS	PS	1	1	100.15	65-125	PASS
N069585-001B-PS	PS	25	1.04	103.72	65-125	PASS
N069585-001B-MS2	MS	1	1	100.4	65-125	PASS
N069585-001B-MS2	MS	25	1.02	101.96	65-125	PASS
N069585-001B-MSD2	MSD	1	0.99	99.36	65-125	PASS
N069585-001B-MSD2	MSD	25	1.01	101.42	65-125	PASS
CCV3	CCV	1	1.04	103.67	65-125	PASS
CCB3	CCB	1	1.02	101.82	65-125	PASS
ICSA2	ICSA	1	1.02	101.6	65-125	PASS
ICSAB2	ICSAB	1	1.05	105.01	65-125	PASS
CCV4	CCV	1	1.02	102.38	65-125	PASS
CCB4	CCB	1	1.01	100.83	65-125	PASS
CCV5	CCV	1	1.03	102.93	65-125	PASS
CCB5	CCB	1	1.01	101.5	65-125	PASS
CCV6	CCV	1	1.02	102.19	65-125	PASS
CCB6	CCB	1	1.01	100.61	65-125	PASS

INTERNAL STANDARD: 241106A

Instrument ID: NV00922-ICP3

Sample Name	Type	DF	Scandium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
ICSA3	ICSA	1	1	100.17	65-125	PASS
ICSAB3	ICSAB	1	1.03	103.54	65-125	PASS
CCV7	CCV	1	1.05	105.16	65-125	PASS
CCB7	CCB	1	1.04	104.03	65-125	PASS
CCV8	CCV	1	1.06	106.03	65-125	PASS
CCB8	CCB	1	1.05	104.92	65-125	PASS
CCV9	CCV	1	1.05	104.74	65-125	PASS
CCB9	CCB	1	1.04	103.98	65-125	PASS
ICSA4	ICSA	1	1.02	102.52	65-125	PASS
ICSAB4	ICSAB	1	1.07	107.32	65-125	PASS

SERIAL DILUTION/ POST DIGESTION SPIKE



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ASSET Laboratories

ICP-Metals in Water

Work Order No.: N069585
 Test Method: EPA 6010B
 Analysis Date: 11/1/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 113745

Instrument ID: NV00922-ICP4
 Instrument Description: Agilent 5800VDV

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Fe & B. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069583-003B DT 5x	Iron	Fe	µg/L	124.8	NA	145.67	14.33%	10
N069583-003B DT 5x	Boron	B	mg/L	0.8616	NA	0.90604	4.90%	10
N069583-003B DT 5x	Calcium	Ca	mg/L	204.6189	PASS	202.5954	1.00%	10
N069583-003B DT 5x	Magnesium	Mg	mg/L	50.2884	PASS	51.24638	1.87%	10

Reviewed by:

d/Rocha 12/2/2024

Note: NA - Not Applicable

11/19/24 19:30

N069585_6010B_113745_DT

ASSET Laboratories

ICP-Metals in Water

Work Order No.: N069585
Test Method: EPA 6010B
Analysis Date: 11/6/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 113745

Instrument ID: NV00922-ICP3
Instrument Description: Perkin Elmer Avio 500Max

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to K. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069585-001B DT 5x	Potassium	K	mg/L	4.46277	NA	4.275856	4.37%	10
N069585-001B DT 125x	Sodium	Na	mg/L	138.7443	PASS	143.9477	3.61%	10

Reviewed by:

d/Rocha 12/4/2024

Note: NA - Not Applicable

12/02/24 01:37

N069585_6010B_113745_DT

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPB

Sample ID: N069583-003B-PS	SampType: PS	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195107						
Client ID: ZZZZZZ	Batch ID: 113745	TestNo: EPA 6010B EPA 3010A	Analysis Date: 11/1/2024	SeqNo: 6281683							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	263.690	20	100.0	145.7	118	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPM

Sample ID: N069583-003B-PS		SampType: PS		TestCode: 6010_WDPG		Units: mg/L		Prep Date:		RunNo: 195149	
Client ID: ZZZZZZ		Batch ID: 113745		TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/1/2024				SeqNo: 6284033	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	6.417	0.10	5.000	0.9060	110	80	120				
Calcium	212.489	0.50	10.00	202.6	98.9	80	120				
Magnesium	62.107	0.10	10.00	51.25	109	80	120				

Sample ID: N069585-001B-PS		SampType: PS		TestCode: 6010_WDPG		Units: mg/L		Prep Date:		RunNo: 195306	
Client ID: ZZZZZZ		Batch ID: 113745		TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/6/2024				SeqNo: 6294784	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	15.486	0.50	10.00	4.276	112	80	120				

Sample ID: N069585-001B-PS		SampType: PS		TestCode: 6010_WDPG		Units: mg/L		Prep Date:		RunNo: 195306	
Client ID: ZZZZZZ		Batch ID: 113745		TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/6/2024				SeqNo: 6294785	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	408.414	12	250.0	143.9	106	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

LOGBOOK DATA, QUANTITATION REPORT and/or SPECTRA



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HARDNESS BY CALCULATION

TEST METHOD: SM 2340B

FORMULA:

Total Hardness, mg CaCO₃ / L = [Ca] *(100/ 40) + [Mg] *(100/ 24)

OR

Total Hardness, mg CaCO₃/L = 2.497 (Ca,mg/L) + 4.118 (Mg, mg/L)

Sample ID	Ca (mg/L) <small>23.8</small>	Mg (mg/L)	Total Hardness mg CaCO ₃ / L	Ca Hardness mg CaCO ₃ / L	Mg Hardness mg CaCO ₃ / L	Date	Batch	Analyst	Comments
N069585-0013	59.7 23.8 12/4/24	14.0 3.4	73.4	59.4	14.0	10/31/24	113745	DBJ	
Reviewed by:									
d/Rocha 12/4/2024									

Logbook #5



MDL STUDY



ASSET LABORATORIES
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Method Detection Limits

Analytical Method: EPA 6010B
Digestion Method: 3010_W
Digestion Date: 1/31/2024-2/16/24
Instrument Name: ICP2/ ICP3
Analyst/Technician: DJ

Matrix: WATER
Unit: mg/L

Analyte	1	2	3	4	5	6	7	SD	AMT SPIKED (ppm)	MDLs	PQL	MDL
Beryllium	0.0010	0.0010	0.0010	0.0012	0.0012	0.0009	0.0009	0.00013	0.0010	0.00042	0.0010	0.0004
Boron	0.1015	0.0996	0.0981	0.0955	0.0962	0.0921	0.0811	0.00679	0.1000	0.02134	0.1000	0.0519
Magnesium	0.1018	0.1005	0.1004	0.1023	0.1006	0.0924	0.0926	0.00426	0.1000	0.01340	0.1000	0.0134
Silicon	0.0175	0.0205	0.0214	0.0114	0.0100	0.0210	0.0211	0.00489	0.0200	0.01537	0.0200	0.0154
Chromium	0.0009	0.0009	0.0009	0.0011	0.0009	0.0009	0.0010	0.00007	0.0010	0.00023	0.0010	0.0002
Manganese	0.0096	0.0095	0.0093	0.0101	0.0102	0.0102	0.0104	0.00042	0.0100	0.00133	0.0100	0.0013
Iron	0.0219	0.0207	0.0210	0.0226	0.0224	0.0193	0.0175	0.00184	0.0200	0.00577	0.0200	0.0058
Cobalt	0.0020	0.0018	0.0019	0.0019	0.0018	0.0021	0.0020	0.00013	0.0025	0.00039	0.0025	0.0004
Nickel	0.0055	0.0055	0.0052	0.0028	0.0033	0.0048	0.0047	0.00109	0.0050	0.00342	0.0050	0.0034
Copper	0.0056	0.0058	0.0054	0.0063	0.0058	0.0050	0.0053	0.00041	0.0050	0.00128	0.0050	0.0014
Zinc	0.0110	0.0103	0.0100	0.0106	0.0108	0.0092	0.0088	0.00086	0.0100	0.00269	0.0100	0.0027
Arsenic	0.0100	0.0080	0.0060	0.0084	0.0112	0.0132	0.0065	0.00256	0.0100	0.00805	0.0100	0.0081
Selenium	0.0110	0.0126	0.0120	0.0079	0.0137	0.0079	0.0072	0.00264	0.0100	0.00829	0.0100	0.0083
Molybdenum	0.0056	0.0053	0.0057	0.0044	0.0045	0.0051	0.0044	0.00056	0.0050	0.00177	0.0050	0.0018
Silver	0.0025	0.0025	0.0024	0.0019	0.0018	0.0033	0.0031	0.00056	0.0025	0.00175	0.0025	0.0018
Cadmium	0.0027	0.0026	0.0026	0.0016	0.0018	0.0023	0.0025	0.00043	0.0025	0.00136	0.0025	0.0014
Tin	0.0104	0.0095	0.0097	0.0114	0.0111	0.0087	0.0089	0.00104	0.0100	0.00328	0.0100	0.0033
Antimony	0.0090	0.0093	0.0110	0.0136	0.0122	0.0112	0.0087	0.00180	0.0100	0.00565	0.0100	0.0056
Barium	0.0026	0.0026	0.0026	0.0028	0.0028	0.0024	0.0024	0.00016	0.0025	0.00051	0.0025	0.0005
Thallium	0.0172	0.0169	0.0170	0.0165	0.0144	0.0131	0.0130	0.00188	0.0150	0.00592	0.0150	0.0059
Lead	0.0058	0.0060	0.0061	0.0046	0.0083	0.0049	0.0048	0.00125	0.0050	0.00393	0.0050	0.0039
Calcium	0.2188	0.2125	0.2073	0.2186	0.2230	0.1767	0.1699	0.02155	0.2000	0.06772	0.2000	0.0677
Vanadium	0.0026	0.0025	0.0027	0.0030	0.0029	0.0024	0.0023	0.00026	0.0025	0.00081	0.0025	0.0008
Aluminum	0.0523	0.0513	0.0508	0.0490	0.0501	0.0509	0.0482	0.00140	0.0500	0.00439	0.0500	0.0044
Titanium	0.0119	0.0116	0.0108	0.0100	0.0103	0.0105	0.0107	0.00069	0.0100	0.00216	0.0100	0.0022

Method Detection Limits (Blanks)

Analyte	1	2	3	4	5	6	7	SD	Average	MDLb
Beryllium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00006	0.0000	0.00019
Boron	0.000	0.000	-0.001	-0.005	-0.006	-0.045	-0.047	0.02126	-0.0149	0.05194
Magnesium	-0.001	-0.001	-0.001	0.000	0.001	0.000	-0.001	0.00074	-0.0004	0.00192
Silicon	-0.001	-0.004	-0.004	-0.002	-0.001	-0.012	-0.011	0.00477	-0.0049	0.01013
Chromium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00004	-0.0001	0.00008
Manganese	-0.001	-0.001	-0.001	0.000	0.000	0.000	0.000	0.00044	-0.0005	0.00090
Iron	0.000	0.000	0.000	-0.001	-0.001	-0.003	-0.003	0.00140	-0.0010	0.00337
Cobalt	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00012	-0.0001	0.00029
Nickel	0.000	0.000	0.000	-0.002	-0.002	0.000	0.000	0.00089	-0.0006	0.00224
Copper	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.00033	0.0003	0.00138
Zinc	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.00033	0.0000	0.00102
Arsenic	-0.001	-0.003	0.000	0.000	0.000	0.000	0.000	0.00091	-0.0007	0.00221
Selenium	0.004	0.000	0.002	0.001	0.003	-0.001	0.002	0.00153	0.0017	0.00649
Molybdenum	0.000	0.000	0.000	-0.001	-0.001	0.000	0.000	0.00032	-0.0003	0.00074
Silver	-0.001	-0.001	-0.001	-0.001	-0.001	0.000	0.000	0.00049	-0.0007	0.00083
Cadmium	0.000	0.000	0.000	-0.001	0.000	0.000	0.000	0.00029	-0.0001	0.00081
Tin	-0.001	-0.001	-0.001	0.001	0.000	0.000	-0.001	0.00063	-0.0005	0.00150
Antimony	0.000	-0.001	0.000	0.000	-0.001	0.004	0.000	0.00161	0.0002	0.00524
Barium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00008	0.0000	0.00025
Thallium	0.001	0.000	0.002	0.001	0.000	-0.001	-0.001	0.00104	0.0002	0.00343
Lead	0.000	-0.001	-0.001	-0.001	0.000	0.001	-0.001	0.00068	-0.0004	0.00173
Calcium	0.001	0.001	0.001	-0.003	-0.005	-0.003	-0.017	0.00638	-0.0036	0.01650
Vanadium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00012	0.0000	0.00038
Aluminum	0.000	0.001	0.001	-0.001	-0.001	-0.001	-0.002	0.00105	-0.0003	0.00300
Titanium	0.001	0.000	0.001	-0.001	-0.001	-.00003	0.000	0.00064	0.0000	0.00199

Note: Higher value between MDLs and MDLb will be used.

Method Detection Limits

Analytical Method: EPA 6010B
Digestion Method: EPA 3010A
Digestion Date: 2/8-2/12/2024
Analysis Date: 2/16-2/23/2024
Instrument Name: ICP-04
Analyst/Technician: NS/DBJ

Matrix: WATER
Unit: mg/L

Analyte	1	2	3	4	5	6	7	SD	AMT SPIKED (ppm)	MDLs	PQL	MDL
Beryllium	0.00096	0.00098	0.00096	0.00094	0.00114	0.00100	0.00093	0.00007	0.0010	0.00022	0.0010	0.0004
Boron	0.09627	0.09657	0.09643	0.09117	0.09044	0.09475	0.09499	0.00255	0.1000	0.00800	0.1000	0.0080
Magnesium	0.10052	0.10036	0.09959	0.10705	0.10731	0.09987	0.10054	0.00344	0.1000	0.01079	0.1000	0.0153
Silicon	0.01997	0.01949	0.01947	0.02053	0.02103	0.02063	0.02079	0.00063	0.0200	0.00198	0.0200	0.0020
Chromium	0.00100	0.00096	0.00096	0.00116	0.00117	0.00109	0.00115	0.00009	0.0010	0.00030	0.0010	0.0005
Manganese	0.00965	0.00966	0.00962	0.00727	0.00736	0.00964	0.00963	0.00113	0.0100	0.00356	0.0100	0.0037
Iron	0.01670	0.01666	0.01669	0.01930	0.01911	0.01418	0.01399	0.00209	0.0200	0.00657	0.0200	0.0066
Cobalt	0.00276	0.00227	0.00246	0.00248	0.00246	0.00188	0.00221	0.00028	0.0025	0.00087	0.0025	0.0009
Nickel	0.00479	0.00493	0.00510	0.00476	0.00489	0.00457	0.00453	0.00020	0.0050	0.00063	0.0050	0.0006
Copper	0.00508	0.00506	0.00488	0.00503	0.00521	0.00474	0.00486	0.00016	0.0050	0.00050	0.0050	0.0005
Zinc	0.01247	0.01227	0.01233	0.01015	0.01017	0.00939	0.00952	0.00139	0.0100	0.00438	0.0100	0.0044
Arsenic	0.00990	0.00949	0.00882	0.01052	0.01052	0.01070	0.01000	0.00067	0.0100	0.00210	0.0100	0.0021
Selenium	0.00898	0.00986	0.01063	0.01176	0.01126	0.01021	0.01046	0.00091	0.0100	0.00286	0.0100	0.0032
Molybdenum	0.00546	0.00537	0.00512	0.00602	0.00529	0.00458	0.00502	0.00044	0.0050	0.00139	0.0050	0.0021
Silver	0.00245	0.00240	0.00249	0.00200	0.00194	0.00221	0.00211	0.00022	0.0025	0.00070	0.0025	0.0010
Cadmium	0.00248	0.00248	0.00244	0.00239	0.00240	0.00219	0.00224	0.00012	0.0025	0.00036	0.0025	0.0004
Tin	0.00982	0.01010	0.00968	0.01041	0.01050	0.00990	0.00999	0.00030	0.0100	0.00095	0.0100	0.0010
Antimony	0.01076	0.01056	0.00998	0.01034	0.01208	0.00938	0.00979	0.00087	0.0100	0.00274	0.0100	0.0027
Barium	0.00266	0.00257	0.00258	0.00258	0.00257	0.00249	0.00254	0.00005	0.0025	0.00016	0.0025	0.0008
Thallium	0.01580	0.01557	0.01597	0.01222	0.01292	0.01486	0.01560	0.00151	0.0150	0.00475	0.0150	0.0048
Lead	0.00431	0.00500	0.00446	0.00447	0.00503	0.00422	0.00371	0.00046	0.0050	0.00144	0.0050	0.0014
Calcium	0.20228	0.20108	0.20096	0.20023	0.20038	0.19290	0.19351	0.00386	0.2000	0.01211	0.2000	0.0121
Vanadium	0.00265	0.00253	0.00241	0.00232	0.00229	0.00240	0.00246	0.00012	0.0025	0.00039	0.0025	0.0006
Aluminum	0.05361	0.05332	0.05336	0.05134	0.05238	0.05032	0.04987	0.00153	0.0500	0.00482	0.0500	0.0075
Titanium	0.01017	0.01017	0.01014	0.01005	0.01003	0.01004	0.01004	0.00007	0.0100	0.00020	0.0100	0.0012
Sodium	0.10464	0.10886	0.11103	0.10060	0.10108	0.10829	0.10960	0.00421	0.1000	0.01321	0.1000	0.0132
Strontium	0.02468	0.02576	0.02592	0.02543	0.02579	0.02513	0.02569	0.00044	0.0250	0.00139	0.0250	0.0014

BLANK

Analyte	1	2	3	4	5	6	7	SD	Average	MDL	PQL
Beryllium	-0.00048	-0.00014	-0.00014	0.00001	0.00001	-0.00003	-0.00002	0.00017	-0.00011	0.00043	0.0010
Boron	-0.00209	-0.00259	-0.00248	-0.00694	-0.00772	-0.00175	-0.00221	0.00252	-0.00368	0.00423	0.1000
Magnesium	0.00244	0.00147	0.00205	0.00943	0.00934	0.00459	0.00401	0.00334	0.00476	0.01526	0.1000
Silicon	-0.00009	-0.00039	-0.00061	-0.00016	-0.00044	-0.00044	-0.00071	0.00022	-0.00041	0.00029	0.0200
Chromium	0.00017	0.00009	0.00006	0.00027	0.00032	0.00008	0.00012	0.00010	0.00016	0.00047	0.0010
Manganese	-0.00054	-0.00051	-0.00054	-0.00311	-0.00312	0.00037	0.00037	0.00149	-0.00101	0.00368	0.0100
Iron	-0.00361	-0.00368	-0.00350	-0.00126	-0.00121	0.00037	-0.00627	0.00219	-0.00274	0.00416	0.0200
Cobalt	-0.00033	0.00009	-0.00016	-0.00021	-0.00058	-0.00032	-0.00036	0.00021	-0.00027	0.00038	0.0025
Nickel	-0.00036	-0.00009	-0.00024	-0.00021	-0.00033	-0.00022	-0.00023	0.00009	-0.00024	0.00004	0.0050
Copper	0.00005	0.00002	0.00000	0.00019	0.00028	-0.00001	0.00000	0.00011	0.00008	0.00043	0.0050
Zinc	0.00056	-0.00003	-0.00006	-0.00024	-0.00022	-0.00079	-0.00081	0.00047	-0.00023	0.00126	0.0100
Arsenic	-0.00003	-0.00086	-0.00030	-0.00052	0.00012	0.00051	0.00034	0.00049	-0.00011	0.00142	0.0100
Selenium	-0.00105	-0.00101	0.00003	-0.00013	-0.00033	0.00092	0.00175	0.00101	0.00003	0.00321	0.0100
Molybdenum	0.00035	0.00064	-0.00012	0.00102	0.00080	-0.00015	-0.00059	0.00059	0.00028	0.00212	0.0050
Silver	-0.00021	-0.00023	-0.00022	-0.00146	-0.00143	-0.00071	-0.00064	0.00055	-0.00070	0.00102	0.0025
Cadmium	-0.00003	-0.00002	-0.00003	-0.00008	-0.00009	-0.00026	-0.00030	0.00012	-0.00012	0.00025	0.0025
Tin	-0.00048	-0.00035	0.00010	-0.00014	0.00016	-0.00005	-0.00008	0.00023	-0.00012	0.00060	0.0100
Antimony	0.00008	0.00020	0.00049	-0.00016	0.00141	0.00021	0.00121	0.00059	0.00049	0.00236	0.0100
Barium	0.00006	0.00062	0.00005	0.00003	-0.00010	-0.00003	-0.00006	0.00024	0.00008	0.00085	0.0025
Thallium	0.00113	0.00056	0.00015	0.00095	0.00031	0.00135	0.00088	0.00044	0.00076	0.00214	0.0150
Lead	-0.00006	-0.00093	-0.00022	-0.00025	-0.00031	-0.00180	-0.00134	0.00067	-0.00070	0.00139	0.0050
Calcium	-0.00505	0.00006	0.00001	-0.00038	-0.00024	-0.00119	-0.00204	0.00183	-0.00126	0.00450	0.2000
Vanadium	0.00027	0.00033	0.00044	0.00022	0.00016	0.00010	0.00011	0.00012	0.00023	0.00062	0.0025
Aluminum	0.00375	0.00381	0.00445	0.00041	0.00100	0.00108	0.00110	0.00169	0.00223	0.00754	0.0500
Titanium	0.00001	0.00001	-0.00001	-0.00006	-0.00010	0.00000	0.00088	0.00034	0.00010	0.00119	0.0100
Sodium	0.00136	0.00379	0.00132	-0.00038	-0.00214	-0.00015	0.00331	0.00210	0.00102	0.00761	0.1000
Strontium	-0.00115	-0.00166	-0.00116	-0.00120	-0.00012	-0.00045	-0.00044	0.00055	-0.00088	0.00085	0.0200

Note: ICP-04 is an additional instrument, MDL is within 0.5 to 2.0 of existing MDL. Retain existing MDL.

Method Name: Metals by ICP
 Method Number: EPA 6010B / 200.7
 Digestion Method: EPA 3010A
 Date of Analysis: 8/21-8/24/24
 Instrument Name: NV00922-ICP3
 Analysts: DBJ

Matrix: Water
 Units: mg/L
 Amount of Sample:

Analyte	1	2	3	4	5	6	7	SD	Ave	AMT SPIKED	%RSD	MDLs	PQL
Potassium	0.14679	0.19599	0.21424	0.18243	0.18249	0.21682	0.23196	0.02842	0.19582	0.2000	14.5	0.08925	0.50
Sodium	0.141	0.175	0.172	0.142	0.163	0.225	0.23	0.03616	0.17829	0.2000	20.3	0.11356	0.50
Strontium	0.04627	0.05356	0.05524	0.04813	0.05337	0.05604	0.05526	0.00382	0.05255	0.0500	7.3	0.01199	0.05

Method Detection Limit - Blank

Analyte	1	2	3	4	5	6	7	SD	Ave	AMT SPIKED	%RSD	MDLb	PQL
Potassium	0.04107	0.00056	-0.00422	0.02553	-0.00393	0.01421	0.0061	0.01689	0.01133	0.2000	149.1	0.05305	0.50
Sodium	-0.026	-0.03	-0.028	-0.025	-0.034	0.008	0.008	0.01810	-0.01814	0.2000	-99.7	0.05682	0.50
Strontium	0.00023	-0.00004	0.00007	0.00005	0	-0.00046	-0.0005	0.00028	-0.00009	0.0500	-299.2	0.00087	0.05

111503

111549

111593

EPA 6020 Dissolved



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 113746
ASSET #: N069585

Instrument ID: NV00922-ICP8
Analyst: DBJ

Method:

EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 11/1/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?		X			X	
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.		X			X	
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?	X			X		
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits		X			X	
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

Mn is OLR in N069583-003B (SampRef), PS, MS and MSD. For dilution.
%Rec of As and Zn in several IQCS , low bias. For rerun.

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
2nd Level Reviewer NS 11/12/2024

Date: _____
Date: _____



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 113746
ASSET #: N069585

Instrument ID: NV00922-ICP8
Analyst: DBJ

Method:

EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 11/3/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.		X			X	
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

As and Zn rerun
% RSD of As in N069853-003B failed (sample ref). For rerun.

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
2nd Level Reviewer NS 11/12/2024

Date: _____
Date: _____



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 113746
ASSET #: N069585

Instrument ID: NV00922-ICP8
Analyst: DBJ

Method:

EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 11/5/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MMS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICESA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.			X			X
24. LCS compounds within control limits.			X			X
25. MS/MSD, RPD's are within control limits			X			X
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

As rerun for N069583-003B (sample ret).

	Yes	No	N/A
1. All assigned sample(s) analyzed	x		
2. Matrix / units correct	x		
3. Does batch meet QC requirements?	x		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	x		
5. Is first level review correct and complete?	x		

1st Level Reviewer DBJ
2nd Level Reviewer NS 11/12/2024

Date: _____
Date: _____

SAMPLE CALCULATION



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SAMPLE CALCULATION

METHOD: EPA 6020
TEST NAME: Heavy Metals by ICP-MS
MATRIX: Groundwater

FORMULA:

Calculate the Barium concentration, in ug/L in the original sample as follows:

$$\text{Barium, ug/L} = A * DF * PF$$

where:

A = ug/L, calculated concentration

DF = Dilution Factor

PF = Final Volume of Digestate, mL / Amount of Sample, mL

For Sample **N069585-001B**, the concentration in ug/L is calculated as follows:


$$\text{Barium, ug/L} = 39.4099 * 1 * (25 / 25)$$

$$\text{Barium, ug/L} = 39.40989$$

Reporting results in two significant figures,

$$\text{Barium, ug/L} = 39$$

Reviewed by:

 12/21/2024

% RSD SUMMARY



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PERCENT RSD SUMMARY: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	137 Ba [3]				52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.1	28.992	15	<PQL	0.09	22.391	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.48	15.656	15	<PQL	0.48	3.967	15	PASS
Std3-5/50 ppb	ICAL	1	4.77	3.225	15	PASS	4.65	3.476	15	PASS
Std4-10/100 ppb	ICAL	1	9.35	2.086	15	PASS	9.36	3.708	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.26	0.768	15	PASS	18.47	1.601	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	38.63	0.446	15	PASS	37.68	2.102	15	PASS
Std7-100/1000 ppb	ICAL	1	97.98	0.955	15	PASS	98.85	0.823	15	PASS
Std8-200/2000 ppb	ICAL	1	201.4	0.592	15	PASS	201.23	0.396	15	PASS
ICV	ICV	1	9.53	1.544	15	PASS	9.79	1.295	15	PASS
ICB	ICB	1	0	149.924	15	<PQL	0	569.601	15	<PQL
LLCCV1	CCV1	1	0.1	10.341	20	PASS	0.09	21.034	20	<PQL
LLCCV1	CCV1	1	1.03	9.184	20	PASS	0.97	2.498	20	PASS
MLCCV1	CCV	1	19.09	0.205	15	PASS	18.99	2.161	15	PASS
ICSA1	ICSA	1	0.16	8.787	15	PASS	0.1	12.889	15	PASS
ICSA1	ICSA	1	0.01	26.403	15	<PQL	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	19.39	1.922	15	PASS	19.02	2.019	15	PASS
CCV1	CCV	1	18.93	0.954	15	PASS	18.77	1.142	15	PASS
CCB1	CCB	1	0.01	60.799	15	<PQL	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	0.02	65.171	15	<PQL	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	18.99	2.515	15	PASS	19.58	2.103	15	PASS
CCV2	CCV	1	17.99	0.489	15	PASS	18.89	1.663	15	PASS
CCB2	CCB	1	0.01	1.432	15	PASS	0.01	379.958	15	<PQL
CCV3	CCV	1	19.81	1.385	15	PASS	18.51	0.622	15	PASS
CCB3	CCB	1	0.01	76.4	15	<PQL	<0.000	N/A	15	<PQL
CCV4	CCV	1	19.38	0.648	15	PASS	18.92	1.056	15	PASS
CCB4	CCB	1	0	246.672	15	<PQL	0.01	105.878	15	<PQL
CCV5	CCV	1	19.23	3.558	15	PASS	18.64	1.536	15	PASS
CCB5	CCB	1	0.01	63.832	15	<PQL	<0.000	N/A	15	<PQL
CCV6	CCV	1	19.48	3.485	15	PASS	18.6	1.552	15	PASS
CCB6	CCB	1	0.01	38.602	15	<PQL	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	0.01	57.28	15	<PQL	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	20.23	1.777	15	PASS	19.01	0.72	15	PASS
MB-113746	MBLK	1	0.01	1.778	15	PASS	<0.000	N/A	15	<PQL
LCS-113746	LCS	1	9.78	1.574	15	PASS	9.71	2.675	15	PASS
N069542-001B	SAMP	1	12.79	3.256	15	PASS	0.28	4.963	15	PASS
N069542-002B	SAMP	1	33.07	1.168	15	PASS	0.42	12.938	15	PASS
N069542-003B	SAMP	1	13.28	1.354	15	PASS	0.35	13.705	15	PASS
N069582-002B	SAMP	1	59.78	1.142	15	PASS	20.97	0.715	15	PASS
N069582-003B	SAMP	1	48.09	1.138	15	PASS	37.38	1.476	15	PASS
N069582-004B	SAMP	1	70.95	0.772	15	PASS	445.72	1.555	15	PASS

PERCENT RSD SUMMARY: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	137 Ba [3]				52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N069582-005B	SAMP	1	27.57	2.11	15	PASS	803.61	2.263	15	PASS
CCV7	CCV	1	19.25	0.881	15	PASS	18.72	0.783	15	PASS
CCB7	CCB	1	0.01	101.063	15	<PQL	0.01	116.349	15	<PQL
N069582-006B	SAMP	1	53.63	1.933	15	PASS	318.65	1.193	15	PASS
N069583-001B	SAMP	1	188.38	0.697	15	PASS	0.43	5.016	15	PASS
N069583-002B	SAMP	1	54.57	1.087	15	PASS	0.05	12.456	15	PASS
N069583-003B	SAMP	1	41.59	1.547	15	PASS	0.09	39.625	15	<PQL
N069583-003B	SAMP	5	8.92	3.574	15	PASS	<0.000	N/A	15	<PQL
N069583-003B-PS	PS	1	52.14	1.137	15	PASS	9.07	2.798	15	PASS
N069583-003BMS	MS	1	52.4	1.313	15	PASS	8.83	1.914	15	PASS
N069583-003BMSD	MSD	1	51.72	2.298	15	PASS	8.75	2.774	15	PASS
N069583-004B	SAMP	1	50.72	0.617	15	PASS	0.14	15.939	15	<PQL
CCV8	CCV	1	19.42	0.893	15	PASS	18.74	1.495	15	PASS
CCB8	CCB	1	0.01	36.575	15	<PQL	0.02	13.762	15	PASS
N069583-006B	SAMP	1	88.62	1.492	15	PASS	0.04	9.906	15	PASS
N069583-008B	SAMP	1	25.15	0.88	15	PASS	1.34	2.715	15	PASS
N069583-009B	SAMP	1	219.89	1.109	15	PASS	0.45	4.49	15	PASS
N069583-010B	SAMP	1	89.86	2	15	PASS	0.13	15.018	15	<PQL
N069585-001B	SAMP	1	39.41	1.013	15	PASS	25.51	1.829	15	PASS
CCV9	CCV	1	19.89	1.658	15	PASS	18.57	0.178	15	PASS
CCB9	CCB	1	0.01	58.885	15	<PQL	<0.000	N/A	15	<PQL
ICSA4	ICSA	1	0.02	41.554	15	<PQL	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	20.27	1.469	15	PASS	19.05	2.318	15	PASS

PERCENT RSD SUMMARY: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	55 Mn [2]				66 Zn [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.1	31.174	15	<PQL	0.22	3.348	15	PASS
Std2-0.5/5 ppb	ICAL	1	0.42	10.345	15	PASS	0.98	4.408	15	PASS
Std3-5/50 ppb	ICAL	1	4.83	1.702	15	PASS	4.92	4.613	15	PASS
Std4-10/100 ppb	ICAL	1	9.4	3.522	15	PASS	10.03	1.008	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.36	1.207	15	PASS	19.31	3.365	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	38.07	1.716	15	PASS	38.66	3.672	15	PASS
Std7-100/1000 ppb	ICAL	1	98.77	1.248	15	PASS	97.55	0.59	15	PASS
Std8-200/2000 ppb	ICAL	1	201.1	0.23	15	PASS	201.56	2.253	15	PASS
ICV	ICV	1	96.81	1.325	15	PASS	94.28	0.543	15	PASS
ICB	ICB	1	0	357.537	15	<PQL	<0.000	N/A	15	<PQL
LLCCV1	CCV1	1	0.1	11.035	20	PASS	0.22	1.262	20	PASS
LLCCV1	CCV1	1	0.5	9.122	20	PASS	9.66	5.041	20	PASS
MLCCV1	CCV	1	20.05	1.961	15	PASS	19.22	2.057	15	PASS
ICSA1	ICSA	1	0.27	10.484	15	PASS	3.39	4.976	15	PASS
ICSA1	ICSA	1	0.01	85.215	15	<PQL	0.03	123.252	15	<PQL
ICSAB1	ICSAB	1	19.11	2.113	15	PASS	19.92	4.541	15	PASS
CCV1	CCV	1	19.53	1.345	15	PASS	18.61	1.369	15	PASS
CCB1	CCB	1	0	535.825	15	<PQL	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	0.01	21.988	15	<PQL	0.02	166.26	15	<PQL
ICSAB2	ICSAB	1	19.44	1.35	15	PASS	19.31	6.002	15	PASS
CCV2	CCV	1	19.4	1.359	15	PASS	18.78	3.485	15	PASS
CCB2	CCB	1	0.01	76.12	15	<PQL	<0.000	N/A	15	<PQL
CCV3	CCV	1	19.46	1.714	15	PASS	18.45	1.507	15	PASS
CCB3	CCB	1	0	84.421	15	<PQL	0.01	109.898	15	<PQL
CCV4	CCV	1	19.28	1.343	15	PASS	18.38	3.782	15	PASS
CCB4	CCB	1	0.01	25.723	15	<PQL	<0.000	N/A	15	<PQL
CCV5	CCV	1	19.15	1.761	15	PASS	18.06	3.644	15	PASS
CCB5	CCB	1	0.02	44.792	15	<PQL	<0.000	N/A	15	<PQL
CCV6	CCV	1	19.27	2.379	15	PASS	17.82	1.513	15	PASS
CCB6	CCB	1	0.02	51.034	15	<PQL	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	0.03	22.433	15	<PQL	0.04	73.419	15	<PQL
ICSAB3	ICSAB	1	19.03	0.43	15	PASS	18.72	2.039	15	PASS
MB-113746	MBLK	1	0.01	10.984	15	PASS	<0.000	N/A	15	<PQL
LCS-113746	LCS	1	92.18	1.154	15	PASS	87.64	1.787	15	PASS
N069542-001B	SAMP	1	327.61	0.521	15	PASS	3.43	6.465	15	PASS
N069542-002B	SAMP	1	400.98	0.611	15	PASS	4.64	6.708	15	PASS
N069542-003B	SAMP	1	385.9	1.648	15	PASS	4.45	4.583	15	PASS
N069582-002B	SAMP	1	11.92	0.745	15	PASS	1.82	3.742	15	PASS
N069582-003B	SAMP	1	0.54	10.078	15	PASS	1.17	14.862	15	PASS
N069582-004B	SAMP	1	0.89	10.063	15	PASS	0.86	10.173	15	PASS

PERCENT RSD SUMMARY: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	55 Mn [2]				66 Zn [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N069582-005B	SAMP	1	1.36	3.932	15	PASS	0.81	8.114	15	PASS
CCV7	CCV	1	19.17	1.232	15	PASS	17.62	4.411	15	PASS
CCB7	CCB	1	0	162.806	15	<PQL	<0.000	N/A	15	<PQL
N069582-006B	SAMP	1	34.57	1.435	15	PASS	2.09	10.527	15	PASS
N069583-001B	SAMP	1	108.63	2.187	15	PASS	1.08	12.729	15	PASS
N069583-002B	SAMP	1	243.13	0.841	15	PASS	1.49	5.017	15	PASS
N069583-003B	SAMP	1	431.31	2.397	15	PASS	0.71	25.147	15	<PQL
N069583-003B	SAMP	5	91.45	1.608	15	PASS	47.23	1.515	15	PASS
N069583-003B-PS	PS	1	522.35	0.701	15	PASS	81.63	2.936	15	PASS
N069583-003BMS	MS	1	508.59	0.72	15	PASS	79.56	1.254	15	PASS
N069583-003BMSD	MSD	1	515.13	1.162	15	PASS	80.88	1.169	15	PASS
N069583-004B	SAMP	1	922.69	1.61	15	PASS	1.08	13.798	15	PASS
CCV8	CCV	1	19.06	2.704	15	PASS	17.4	1.747	15	PASS
CCB8	CCB	1	0.03	48.398	15	<PQL	0.01	46.344	15	<PQL
N069583-006B	SAMP	1	5.65	3.309	15	PASS	4.38	6.226	15	PASS
N069583-008B	SAMP	1	343.09	1.167	15	PASS	3.74	2.551	15	PASS
N069583-009B	SAMP	1	424.26	1.539	15	PASS	4.02	12.673	15	PASS
N069583-010B	SAMP	1	2227.56	2.478	15	PASS	3.09	3.385	15	PASS
N069585-001B	SAMP	1	1.54	8.232	15	PASS	0.96	3.411	15	PASS
CCV9	CCV	1	19.34	1.622	15	PASS	17.88	4.023	15	PASS
CCB9	CCB	1	0.02	35.663	15	<PQL	<0.000	N/A	15	<PQL
ICSA4	ICSA	1	0.03	3.057	15	PASS	0.04	30.754	15	<PQL
ICSAB4	ICSAB	1	18.79	1.351	15	PASS	18.66	2.222	15	PASS

PERCENT RSD SUMMARY: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.07	31.267	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.49	18.652	15	FAIL
Std3-5/50 ppb	ICAL	1	4.98	5.725	15	PASS
Std4-10/100 ppb	ICAL	1	9.44	7.267	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	18.8	4.353	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.94	4.285	15	PASS
Std7-100/1000 ppb	ICAL	1	95.88	2.592	15	PASS
Std8-200/2000 ppb	ICAL	1	202.22	1.143	15	PASS
ICV	ICV	1	9.84	0.64	15	PASS
ICB	ICB	1	<0.000	N/A	15	<PQL
LLCCV1	CCV1	1	0.1	60.127	20	FAIL
LLCCV1	CCV1	1	0.12	32.98	20	FAIL
MLCCV1	CCV	1	19.62	1.385	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL
ICSA1	ICSA	1	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	19.31	0.281	15	PASS
CCV1	CCV	1	18.85	5.053	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	19.12	2.83	15	PASS
CCV2	CCV	1	18.75	1.13	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL
CCV3	CCV	1	17.97	0.752	15	PASS
CCB3	CCB	1	0.02	213.997	15	<PQL
CCV4	CCV	1	18.35	6.145	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL
CCV5	CCV	1	17.78	4.976	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL
CCV6	CCV	1	18.6	5.378	15	PASS
CCB6	CCB	1	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	18.38	5.411	15	PASS
MB-113746	MBLK	1	<0.000	N/A	15	<PQL
LCS-113746	LCS	1	9.51	2.615	15	PASS
N069542-001B	SAMP	1	5.01	5.513	15	PASS
N069542-002B	SAMP	1	4.96	5.418	15	PASS
N069542-003B	SAMP	1	6.31	3.562	15	PASS
N069582-002B	SAMP	1	4.8	4.125	15	PASS
N069582-003B	SAMP	1	4.61	4.756	15	PASS
N069582-004B	SAMP	1	1.11	3.025	15	PASS

PERCENT RSD SUMMARY: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
N069582-005B	SAMP	1	3.07	5.293	15	PASS
CCV7	CCV	1	17.87	0.863	15	PASS
CCB7	CCB	1	<0.000	N/A	15	<PQL
N069582-006B	SAMP	1	3.27	2.244	15	PASS
N069583-001B	SAMP	1	7.69	3.294	15	PASS
N069583-002B	SAMP	1	0.84	13.156	15	PASS
N069583-003B	SAMP	1	1.21	3.969	15	PASS
N069583-003B	SAMP	5	0.25	7.821	15	PASS
N069583-003B-PS	PS	1	10.88	6.298	15	PASS
N069583-003BMS	MS	1	10.54	1.966	15	PASS
N069583-003BMSD	MSD	1	10.33	3.459	15	PASS
N069583-004B	SAMP	1	0.49	3.345	15	PASS
CCV8	CCV	1	17.32	3.38	15	PASS
CCB8	CCB	1	<0.000	N/A	15	<PQL
N069583-006B	SAMP	1	1.12	7.441	15	PASS
N069583-008B	SAMP	1	0.67	19.706	15	NR!
N069583-009B	SAMP	1	6.89	4.01	15	PASS
N069583-010B	SAMP	1	18.54	3.745	15	PASS
N069585-001B	SAMP	1	5.07	7.002	15	PASS
CCV9	CCV	1	18.45	2.617	15	PASS
CCB9	CCB	1	<0.000	N/A	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	18.57	1.167	15	PASS

PERCENT RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	66 Zn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.17	29.308	15	<PQL	0.13	42.953	15	FAIL
Std2-0.5/5 ppb	ICAL	1	1.06	12.067	15	PASS	0.54	10.145	15	PASS
Std3-5/50 ppb	ICAL	1	4.81	2.644	15	PASS	4.51	6.574	15	PASS
Std4-10/100 ppb	ICAL	1	10.19	9.594	15	PASS	9.64	2.92	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.06	1.388	15	PASS	18.81	0.85	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	38.96	4.066	15	PASS	38.2	4.623	15	PASS
Std7-100/1000 ppb	ICAL	1	98.97	2.691	15	PASS	98.44	4.1	15	PASS
Std8-200/2000 ppb	ICAL	1	200.81	2.805	15	PASS	201.29	1.784	15	PASS
ICV	ICV	1	92.88	0.491	15	PASS	9.65	4.812	15	PASS
ICB	ICB	1	<0.000	N/A	15	<PQL	0.01	326.628	15	<PQL
LLCCV1	CCV1	1	0.17	23.434	20	<PQL	0.08	49.159	20	<PQL
LLCCV2	CCV1	1	9.59	1.792	20	PASS	0.12	51.25	20	FAIL
MLCCV1	CCV	1	18.95	2.643	15	PASS	18.69	3.354	15	PASS
ICSA1	ICSA	1	0.04	167.709	15	<PQL	0.02	86.414	15	<PQL
ICSA1	ICSA	1	0.02	187.641	15	<PQL	0.02	42.121	15	<PQL
ICSAB1	ICSAB	1	20.22	2.359	15	PASS	19.26	5.434	15	PASS
CCV1	CCV	1	19.16	3.885	15	PASS	18.22	3.511	15	PASS
CCB1	CCB	1	<0.000	N/A	15	<PQL	0.01	149.398	15	<PQL
ICSA2	ICSA	1	0	749.752	15	<PQL	0.02	42.695	15	<PQL
ICSAB2	ICSAB	1	19.88	2.165	15	PASS	19.19	2.139	15	PASS
CCV2	CCV	1	19.06	0.895	15	PASS	18.56	3.978	15	PASS
CCB2	CCB	1	0.01	137.255	15	<PQL	0.01	159.22	15	<PQL
CCV3	CCV	1	18.18	3.883	15	PASS	18.43	4.538	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL	0.04	112.271	15	<PQL
CCV4	CCV	1	18.8	3.345	15	PASS	19.23	2.918	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL	0.01	159.18	15	<PQL
ICSA3	ICSA	1	0.02	78.331	15	<PQL	0.02	158.939	15	<PQL
ICSAB3	ICSAB	1	18.44	3.96	15	PASS	17.98	3.367	15	PASS
MB-113746	MBLK	1	0.01	120.216	15	<PQL	0.03	76.964	15	<PQL
LCS-113746	LCS	1	89.04	0.749	15	PASS	9.12	7.088	15	PASS
N069542-001B	SAMP	10	0.43	6.606	15	PASS	0.6	6.717	15	PASS
N069542-002B	SAMP	10	0.67	7.491	15	PASS	0.55	18.867	15	NR!
N069542-003B	SAMP	10	0.69	8.163	15	PASS	0.97	12.179	15	PASS
N069582-002B	SAMP	1	1.91	6.742	15	PASS	4.96	16.586	15	NR!
N069582-003B	SAMP	1	1.11	5.418	15	PASS	4.95	2.639	15	PASS
N069582-004B	SAMP	1	0.76	11.267	15	PASS	1.06	11.98	15	PASS
N069582-005B	SAMP	1	0.9	14.307	15	PASS	3.47	5.041	15	PASS
CCV4	CCV	1	19.31	1.207	15	PASS	19.12	3.351	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL	0.03	162.345	15	<PQL
N069582-006B	SAMP	1	2.1	5.605	15	PASS	3.51	4.277	15	PASS

PERCENT RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	66 Zn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N069583-001B	SAMP	1	1.27	7.769	15	PASS	8.14	3.011	15	PASS
N069583-001B	SAMP	10	0.19	7.774	15	PASS	0.91	9.498	15	PASS
N069583-002B	SAMP	1	1.45	10.034	15	PASS	1.21	7.839	15	PASS
N069583-002B	SAMP	10	0.14	50.451	15	<PQL	0.17	28.237	15	NR!
N069583-003B	SAMP	1	1.03	14.705	15	PASS	1.26	18.025	15	NR!
N069583-003B	SAMP	5	36.23	2.223	15	PASS	0.23	18.397	15	NR!
N069583-003B	SAMP	10	1.1	14.108	15	PASS	0.13	64.792	15	NR!
N069583-003B	SAMP	50	0.12	8.511	15	PASS	0.07	36.586	15	<PQL
CCV5	CCV	1	18.5	0.756	15	PASS	18.71	5.814	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL	0	46824.375	15	<PQL
N069583-003B-PS	PS	1	83.77	2.521	15	PASS	10.54	2.466	15	PASS
N069583-003B-PS	PS	10	88.33	1.632	15	PASS	10.08	4.608	15	PASS
N069583-003BMS	MS	1	83.7	0.952	15	PASS	11.46	5.206	15	PASS
N069583-003BMS	MS	10	9.32	1.264	15	PASS	1	9.894	15	PASS
N069583-003BMSD	MSD	1	85.92	3.786	15	PASS	11.31	3.723	15	PASS
N069583-003BMSD	MSD	10	8.91	3.959	15	PASS	1.13	15.152	15	NR!
N069583-004B	SAMP	1	1.13	9.07	15	PASS	0.5	14.524	15	PASS
N069583-004B	SAMP	10	0.08	48.392	15	<PQL	0.07	20.551	15	<PQL
N069583-006B	SAMP	1	4.3	9.933	15	PASS	1.02	3.088	15	PASS
CCV6	CCV	1	19.46	5.127	15	PASS	19.26	2.211	15	PASS
CCB6	CCB	1	<0.000	N/A	15	<PQL	0.03	73.995	15	<PQL
N069583-008B	SAMP	1	3.73	5.636	15	PASS	0.72	8.883	15	PASS
N069583-008B	SAMP	10	0.39	21.296	15	<PQL	0.11	13.476	15	PASS
N069583-009B	SAMP	1	4.1	6.449	15	PASS	6.98	9.069	15	PASS
N069583-009B	SAMP	10	0.38	11.752	15	PASS	0.68	7.049	15	PASS
N069583-010B	SAMP	1	3.15	5.525	15	PASS	19.27	1.696	15	PASS
N069583-010B	SAMP	100	0.47	21.768	15	<PQL	0.25	14.055	15	PASS
N069585-001B	SAMP	1	5.5	3.566	15	PASS	4.97	5.371	15	PASS
CCV7	CCV	1	18.96	2.199	15	PASS	18.84	2.852	15	PASS
CCB7	CCB	1	<0.000	N/A	15	<PQL	0.01	151.109	15	<PQL
ICSA4	ICSA	1	0.02	58.985	15	<PQL	0.04	67.415	15	<PQL
ICSAB4	ICSAB	1	18.77	7.486	15	PASS	18.65	3.86	15	PASS
CCV8	CCV	1	18.88	0.862	15	PASS	19.62	1.057	15	PASS
CCB8	CCB	1	<0.000	N/A	15	<PQL	0.03	106.449	15	<PQL
CCV9	CCV	1	18.55	0.614	15	PASS	19.46	0.822	15	PASS
CCB9	CCB	1	<0.000	N/A	15	<PQL	0.03	125.315	15	<PQL
CCV10	CCV	1	18.14	3.07	15	PASS	18.78	1.152	15	PASS
CCB10	CCB	1	<0.000	N/A	15	<PQL	0.02	60.37	15	<PQL
CCV11	CCV	1	18.66	3.681	15	PASS	18.2	2.781	15	PASS
CCB11	CCB	1	<0.000	N/A	15	<PQL	0.01	171.917	15	<PQL
ICSA5	ICSA	1	0.01	143.589	15	<PQL	0.01	146.87	15	<PQL

PERCENT RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	66 Zn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
ICSAB5	ICSAB	1	18.74	4.772	15	PASS	18.73	4.101	15	PASS

PERCENT RSD SUMMARY: 241105B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.06	73.782	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.46	18.784	15	FAIL
Std3-5/50 ppb	ICAL	1	4.88	2.548	15	PASS
Std4-10/100 ppb	ICAL	1	9.38	5.875	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	20.16	0.849	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.04	2.941	15	PASS
Std7-100/1000 ppb	ICAL	1	98.47	2.217	15	PASS
Std8-200/2000 ppb	ICAL	1	200.98	2.799	15	PASS
ICV	ICV	1	9.9	4.718	15	PASS
ICB	ICB	1	0.05	49.366	15	<PQL
LLCCV1	CCV1	1	0.07	49.079	20	<PQL
LLCCV2	CCV1	1	0.09	33.099	20	<PQL
MLCCV1	CCV	1	19.47	4.523	15	PASS
ICSA1	ICSA	1	0.03	57.68	15	<PQL
ICSAB1	ICSAB	1	19.51	2.889	15	PASS
CCV1	CCV	1	19.27	1.81	15	PASS
CCB1	CCB	1	0.01	363.462	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	19.2	2.624	15	PASS
CCV2	CCV	1	20.05	4.527	15	PASS
CCB2	CCB	1	<0.000	N/A	15	<PQL
CCV3	CCV	1	19.61	1.135	15	PASS
CCB3	CCB	1	0.01	244.122	15	<PQL
CCV4	CCV	1	19.36	3.637	15	PASS
CCB4	CCB	1	0.03	116.713	15	<PQL
CCV5	CCV	1	19.36	8.309	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL
CCV6	CCV	1	19.56	2.656	15	PASS
CCB6	CCB	1	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	20.4	2.403	15	PASS
N069583-003B	SAMP	1	1.29	13.887	15	PASS
N069583-003B	SAMP	1	1.21	8.587	15	PASS
N069583-003B	SAMP	1	1.34	12.252	15	PASS
CCV7	CCV	1	19.54	0.574	15	PASS
CCB7	CCB	1	0.02	152.548	15	<PQL
CCV8	CCV	1	19.6	2.322	15	PASS
CCB8	CCB	1	<0.000	N/A	15	<PQL
CCV9	CCV	1	18.83	4.194	15	PASS
CCB9	CCB	1	<0.000	N/A	15	<PQL

PERCENT RSD SUMMARY: 241105B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
ICSA4	ICSA	1	0.04	28.68	15	<PQL
ICSAB4	ICSAB	1	18.84	3.808	15	PASS

ANALYSIS RUN LOG



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INJECTION LOG: 241101C

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1101001.d	RINSE	ICAL	1	11/01/24 8:03 PM
B1101002.d	RINSE	ICAL	1	11/01/24 8:09 PM
B1101003.d	RINSE	ICAL	1	11/01/24 8:14 PM
B1101004.d	Cal BIK	IBLK	1	11/01/24 8:20 PM
B1101005.d	Std1-0.1/1 ppb	ICAL	1	11/01/24 8:26 PM
B1101006.d	Std2-0.5/5 ppb	ICAL	1	11/01/24 8:32 PM
B1101007.d	Std3-5/50 ppb	ICAL	1	11/01/24 8:39 PM
B1101008.d	Std4-10/100 ppb	ICAL	1	11/01/24 8:45 PM
B1101009.d	Std5-4.0/20/200 ppb	ICAL	1	11/01/24 8:51 PM
B1101010.d	Std6-8.0/40/400 ppb	ICAL	1	11/01/24 8:57 PM
B1101011.d	Std7-100/1000 ppb	ICAL	1	11/01/24 9:03 PM
B1101012.d	Std8-200/2000 ppb	ICAL	1	11/01/24 9:09 PM
B1101013.d	ICV	ICV	1	11/01/24 9:33 PM
B1101014.d	ICB	ICB	1	11/01/24 9:39 PM
B1101015.d	LLCCV1	CCV1	1	11/01/24 9:45 PM
B1101016.d	LLCCV1	CCV1	1	11/01/24 9:51 PM
B1101017.d	MLCCV1	CCV	1	11/01/24 9:57 PM
B1101018.d	ICSA1	ICSA	1	11/01/24 10:03 PM
B1101019.d	ICSA1	ICSA	1	11/01/24 10:08 PM
B1101020.d	ICSAB1	ICSAB	1	11/01/24 10:14 PM
B1101022.d	N069234-002A	SAMP	1	11/01/24 10:20 PM
B1101023.d	N069234-002D	SAMP	1	11/01/24 10:26 PM
B1101024.d	N069234-007A	SAMP	1	11/01/24 10:32 PM
B1101025.d	N069234-007D	SAMP	1	11/01/24 10:38 PM
B1101026.d	N069234-016A	SAMP	1	11/01/24 10:44 PM
B1101027.d	N069234-016D	SAMP	1	11/01/24 10:50 PM
B1101028.d	RINSE	ICAL	1	11/01/24 10:56 PM
B1101029.d	CCV1	CCV	1	11/01/24 11:01 PM
B1101030.d	CCB1	CCB	1	11/01/24 11:07 PM
B1101031.d	ICSA2	ICSA	1	11/01/24 11:13 PM
B1101032.d	ICSAB2	ICSAB	1	11/01/24 11:19 PM
B1101033.d	N069263-001B	SAMP	1	11/01/24 11:25 PM
B1101034.d	N069498-003B	SAMP	1	11/01/24 11:31 PM
B1101035.d	N069498-006B	SAMP	1	11/01/24 11:37 PM
B1101036.d	N069498-008B	SAMP	1	11/01/24 11:43 PM
B1101037.d	CCV2	CCV	1	11/02/24 1:01 AM
B1101038.d	CCB2	CCB	1	11/02/24 1:07 AM
B1101039.d	MB-113718	MBLK	1	11/02/24 1:13 AM
B1101040.d	LCS-113718	LCS	1	11/02/24 1:19 AM
B1101041.d	N069543-001B	SAMP	1	11/02/24 1:25 AM
B1101042.d	N069543-002B	SAMP	1	11/02/24 1:31 AM
B1101043.d	N069543-002B	SAMP	5	11/02/24 1:37 AM

INJECTION LOG: 241101C

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1101044.d	N069543-002B	SAMP	10	11/02/24 1:43 AM
B1101045.d	N069543-002B	SAMP	50	11/02/24 1:49 AM
B1101046.d	N069543-002B-PS	PS	1	11/02/24 1:54 AM
B1101047.d	N069543-002B-PS	PS	10	11/02/24 2:00 AM
B1101048.d	CCV3	CCV	1	11/02/24 2:06 AM
B1101049.d	CCB3	CCB	1	11/02/24 2:12 AM
B1101050.d	N069543-002B-MS	MS	1	11/02/24 2:18 AM
B1101051.d	N069543-002B-MS	MS	10	11/02/24 2:24 AM
B1101052.d	N069543-002B-MSD	MSD	1	11/02/24 2:30 AM
B1101053.d	N069543-002B-MSD	MSD	10	11/02/24 2:36 AM
B1101054.d	N069543-003B	SAMP	1	11/02/24 2:42 AM
B1101055.d	N069543-003B	SAMP	10	11/02/24 2:48 AM
B1101056.d	N069543-004B	SAMP	1	11/02/24 2:54 AM
B1101057.d	N069543-005B	SAMP	1	11/02/24 3:00 AM
B1101058.d	N069543-006B	SAMP	1	11/02/24 3:06 AM
B1101059.d	RINSE	ICAL	1	11/02/24 3:12 AM
B1101060.d	CCV4	CCV	1	11/02/24 3:17 AM
B1101061.d	CCB4	CCB	1	11/02/24 3:23 AM
B1101062.d	N069543-007B	SAMP	1	11/02/24 3:29 AM
B1101063.d	N069543-008B	SAMP	1	11/02/24 3:35 AM
B1101064.d	N069543-009B	SAMP	1	11/02/24 3:41 AM
B1101065.d	N069543-010B	SAMP	1	11/02/24 3:47 AM
B1101066.d	N069543-011B	SAMP	1	11/02/24 3:53 AM
B1101067.d	N069543-012B	SAMP	1	11/02/24 3:59 AM
B1101068.d	N069543-013B	SAMP	1	11/02/24 4:05 AM
B1101069.d	N069543-014B	SAMP	1	11/02/24 4:11 AM
B1101070.d	N069543-015B	SAMP	1	11/02/24 4:17 AM
B1101071.d	RINSE	ICAL	1	11/02/24 4:23 AM
B1101072.d	CCV5	CCV	1	11/02/24 4:29 AM
B1101073.d	CCB5	CCB	1	11/02/24 4:35 AM
B1101074.d	N069543-016B	SAMP	1	11/02/24 4:40 AM
B1101075.d	N069543-017B	SAMP	1	11/02/24 4:46 AM
B1101076.d	N069543-019B	SAMP	1	11/02/24 4:52 AM
B1101077.d	N069543-020B	SAMP	1	11/02/24 4:58 AM
B1101078.d	RINSE	ICAL	1	11/02/24 5:04 AM
B1101079.d	CCV6	CCV	1	11/02/24 5:10 AM
B1101080.d	CCB6	CCB	1	11/02/24 5:16 AM
B1101081.d	ICSA3	ICSA	1	11/02/24 5:22 AM
B1101082.d	ICSAB3	ICSAB	1	11/02/24 5:28 AM
B1101083.d	MB-113746	MBLK	1	11/02/24 5:34 AM
B1101084.d	LCS-113746	LCS	1	11/02/24 5:39 AM
B1101085.d	N069542-001B	SAMP	1	11/02/24 5:45 AM

INJECTION LOG: 241101C

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1101086.d	N069542-002B	SAMP	1	11/02/24 5:51 AM
B1101087.d	N069542-003B	SAMP	1	11/02/24 5:57 AM
B1101088.d	N069582-002B	SAMP	1	11/02/24 6:03 AM
B1101089.d	N069582-003B	SAMP	1	11/02/24 6:09 AM
B1101090.d	N069582-004B	SAMP	1	11/02/24 6:15 AM
B1101091.d	N069582-005B	SAMP	1	11/02/24 6:21 AM
B1101092.d	RINSE	ICAL	1	11/02/24 6:27 AM
B1101093.d	CCV7	CCV	1	11/02/24 6:33 AM
B1101094.d	CCB7	CCB	1	11/02/24 6:39 AM
B1101095.d	N069582-006B	SAMP	1	11/02/24 6:44 AM
B1101096.d	N069583-001B	SAMP	1	11/02/24 6:50 AM
B1101097.d	N069583-002B	SAMP	1	11/02/24 6:56 AM
B1101098.d	N069583-003B	SAMP	1	11/02/24 7:02 AM
B1101099.d	N069583-003B	SAMP	5	11/02/24 7:08 AM
B1101100.d	N069583-003B-PS	PS	1	11/02/24 7:14 AM
B1101101.d	N069583-003BMS	MS	1	11/02/24 7:20 AM
B1101102.d	N069583-003BMSD	MSD	1	11/02/24 7:26 AM
B1101103.d	N069583-004B	SAMP	1	11/02/24 7:32 AM
B1101104.d	RINSE	ICAL	1	11/02/24 7:38 AM
B1101105.d	CCV8	CCV	1	11/02/24 7:44 AM
B1101106.d	CCB8	CCB	1	11/02/24 7:49 AM
B1101107.d	N069583-006B	SAMP	1	11/02/24 7:55 AM
B1101108.d	N069583-008B	SAMP	1	11/02/24 8:01 AM
B1101109.d	N069583-009B	SAMP	1	11/02/24 8:07 AM
B1101110.d	N069583-010B	SAMP	1	11/02/24 8:13 AM
B1101111.d	N069585-001B	SAMP	1	11/02/24 8:19 AM
B1101112.d	RINSE	ICAL	1	11/02/24 8:25 AM
B1101113.d	CCV9	CCV	1	11/02/24 8:31 AM
B1101114.d	CCB9	CCB	1	11/02/24 8:37 AM
B1101115.d	ICSA4	ICSA	1	11/02/24 8:42 AM
B1101116.d	ICSAB4	ICSAB	1	11/02/24 8:48 AM
B1101117.d	RINSE	ICAL	1	11/02/24 8:54 AM
B1101118.d	RINSE	ICAL	1	11/02/24 9:00 AM
B1101119.d	RINSE	ICAL	1	11/02/24 9:06 AM

INJECTION LOG: 241103B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1103001.d	RINSE	ICAL	1	11/03/24 10:21 PM
A1103002.d	RINSE	ICAL	1	11/03/24 10:27 PM
A1103003.d	RINSE	ICAL	1	11/03/24 10:33 PM
A1103004.d	Cal BIK	IBLK	1	11/03/24 10:39 PM
A1103005.d	Std1-0.1/1 ppb	ICAL	1	11/03/24 10:45 PM
A1103006.d	Std2-0.5/5 ppb	ICAL	1	11/03/24 10:51 PM
A1103007.d	Std3-5/50 ppb	ICAL	1	11/03/24 10:57 PM
A1103008.d	Std4-10/100 ppb	ICAL	1	11/03/24 11:03 PM
A1103009.d	Std5-4.0/20/200 ppb	ICAL	1	11/03/24 11:09 PM
A1103010.d	Std6-8.0/40/400 ppb	ICAL	1	11/03/24 11:15 PM
A1103011.d	Std7-100/1000 ppb	ICAL	1	11/03/24 11:21 PM
A1103012.d	Std8-200/2000 ppb	ICAL	1	11/03/24 11:27 PM
A1103013.d	ICV	ICV	1	11/03/24 11:53 PM
A1103014.d	ICB	ICB	1	11/03/24 11:59 PM
A1103015.d	LLCCV1	CCV1	1	11/04/24 12:05 AM
A1103016.d	LLCCV2	CCV1	1	11/04/24 12:11 AM
A1103017.d	MLCCV1	CCV	1	11/04/24 12:17 AM
A1103018.d	ICSA1	ICSA	1	11/04/24 12:22 AM
A1103019.d	ICSA1	ICSA	1	11/04/24 12:28 AM
A1103020.d	ICSAB1	ICSAB	1	11/04/24 12:34 AM
A1103021.d	N069306-004A	SAMP	1	11/04/24 12:40 AM
A1103022.d	N069306-004D	SAMP	1	11/04/24 12:46 AM
A1103023.d	N069306-005A	SAMP	1	11/04/24 12:52 AM
A1103024.d	N069306-005D	SAMP	1	11/04/24 12:57 AM
A1103025.d	N069306-008A	SAMP	1	11/04/24 1:03 AM
A1103026.d	N069306-008D	SAMP	1	11/04/24 1:09 AM
A1103027.d	RINSE	ICAL	1	11/04/24 1:15 AM
A1103028.d	CCV1	CCV	1	11/04/24 1:21 AM
A1103029.d	CCB1	CCB	1	11/04/24 1:27 AM
A1103030.d	ICSA2	ICSA	1	11/04/24 1:33 AM
A1103031.d	ICSAB2	ICSAB	1	11/04/24 1:39 AM
A1103032.d	MB-113718	MBLK	1	11/04/24 1:44 AM
A1103033.d	LCS-113718	LCS	1	11/04/24 1:50 AM
A1103034.d	N069543-001B	SAMP	1	11/04/24 1:56 AM
A1103035.d	N069543-002B	SAMP	1	11/04/24 2:02 AM
A1103036.d	N069543-002B	SAMP	5	11/04/24 2:08 AM
A1103037.d	N069543-002B-PS	PS	1	11/04/24 2:14 AM
A1103038.d	N069543-002B-MS	MS	1	11/04/24 2:20 AM
A1103039.d	N069543-002B-MSD	MSD	1	11/04/24 2:26 AM
A1103040.d	N069543-003B	SAMP	1	11/04/24 2:32 AM
A1103041.d	RINSE	ICAL	1	11/04/24 2:38 AM
A1103042.d	CCV2	CCV	1	11/04/24 2:44 AM

INJECTION LOG: 241103B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1103043.d	CCB2	CCB	1	11/04/24 2:50 AM
A1103044.d	N069543-004B	SAMP	1	11/04/24 2:55 AM
A1103045.d	N069543-005B	SAMP	1	11/04/24 3:01 AM
A1103046.d	N069543-006B	SAMP	1	11/04/24 3:07 AM
A1103047.d	N069543-007B	SAMP	1	11/04/24 3:13 AM
A1103048.d	N069543-008B	SAMP	1	11/04/24 3:19 AM
A1103049.d	N069543-009B	SAMP	1	11/04/24 3:25 AM
A1103050.d	N069543-010B	SAMP	1	11/04/24 3:31 AM
A1103051.d	N069543-011B	SAMP	1	11/04/24 3:37 AM
A1103052.d	N069543-012B	SAMP	1	11/04/24 3:43 AM
A1103053.d	RINSE	ICAL	1	11/04/24 3:49 AM
A1103054.d	CCV3	CCV	1	11/04/24 3:55 AM
A1103055.d	CCB3	CCB	1	11/04/24 4:01 AM
A1103056.d	N069543-013B	SAMP	1	11/04/24 4:07 AM
A1103057.d	N069543-014B	SAMP	1	11/04/24 4:13 AM
A1103058.d	N069543-015B	SAMP	1	11/04/24 4:19 AM
A1103059.d	N069543-016B	SAMP	1	11/04/24 4:25 AM
A1103060.d	N069543-017B	SAMP	1	11/04/24 4:30 AM
A1103061.d	N069543-019B	SAMP	1	11/04/24 4:36 AM
A1103062.d	N069543-020B	SAMP	1	11/04/24 4:42 AM
A1103063.d	N069543-005B	SAMP	1	11/04/24 4:48 AM
A1103064.d	N069543-006B	SAMP	1	11/04/24 4:54 AM
A1103065.d	N069543-005B	SAMP	1	11/04/24 5:00 AM
A1103066.d	CCV4	CCV	1	11/04/24 5:09 AM
A1103067.d	CCB4	CCB	1	11/04/24 5:15 AM
A1103068.d	ICSA3	ICSA	1	11/04/24 5:21 AM
A1103069.d	ICSAB3	ICSAB	1	11/04/24 5:27 AM
A1103070.d	MB-113746	MBLK	1	11/04/24 5:32 AM
A1103071.d	LCS-113746	LCS	1	11/04/24 5:38 AM
A1103072.d	N069542-001B	SAMP	10	11/04/24 5:44 AM
A1103073.d	N069542-002B	SAMP	10	11/04/24 5:50 AM
A1103074.d	N069542-003B	SAMP	10	11/04/24 5:56 AM
A1103075.d	N069582-002B	SAMP	1	11/04/24 6:02 AM
A1103076.d	N069582-003B	SAMP	1	11/04/24 6:08 AM
A1103077.d	N069582-004B	SAMP	1	11/04/24 6:14 AM
A1103078.d	N069582-005B	SAMP	1	11/04/24 6:19 AM
A1103079.d	RINSE	ICAL	1	11/04/24 6:25 AM
A1103080.d	CCV4	CCV	1	11/04/24 6:31 AM
A1103081.d	CCB4	CCB	1	11/04/24 6:37 AM
A1103082.d	N069582-006B	SAMP	1	11/04/24 6:43 AM
A1103083.d	N069583-001B	SAMP	1	11/04/24 6:49 AM
A1103084.d	N069583-001B	SAMP	10	11/04/24 6:55 AM

INJECTION LOG: 241103B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1103085.d	N069583-002B	SAMP	1	11/04/24 7:01 AM
A1103086.d	N069583-002B	SAMP	10	11/04/24 7:07 AM
A1103087.d	N069583-003B	SAMP	1	11/04/24 7:12 AM
A1103088.d	N069583-003B	SAMP	5	11/04/24 7:18 AM
A1103089.d	N069583-003B	SAMP	10	11/04/24 7:24 AM
A1103090.d	N069583-003B	SAMP	50	11/04/24 7:30 AM
A1103091.d	CCV5	CCV	1	11/04/24 7:36 AM
A1103092.d	CCB5	CCB	1	11/04/24 7:42 AM
A1103093.d	N069583-003B-PS	PS	1	11/04/24 7:48 AM
A1103094.d	N069583-003B-PS	PS	10	11/04/24 7:54 AM
A1103095.d	N069583-003BMS	MS	1	11/04/24 8:00 AM
A1103096.d	N069583-003BMS	MS	10	11/04/24 8:05 AM
A1103097.d	N069583-003BMSD	MSD	1	11/04/24 8:11 AM
A1103098.d	N069583-003BMSD	MSD	10	11/04/24 8:17 AM
A1103099.d	N069583-004B	SAMP	1	11/04/24 8:23 AM
A1103100.d	N069583-004B	SAMP	10	11/04/24 8:29 AM
A1103101.d	N069583-006B	SAMP	1	11/04/24 8:35 AM
A1103102.d	RINSE	ICAL	1	11/04/24 8:41 AM
A1103103.d	CCV6	CCV	1	11/04/24 8:47 AM
A1103104.d	CCB6	CCB	1	11/04/24 8:53 AM
A1103105.d	N069583-008B	SAMP	1	11/04/24 8:58 AM
A1103106.d	N069583-008B	SAMP	10	11/04/24 9:04 AM
A1103107.d	N069583-009B	SAMP	1	11/04/24 9:10 AM
A1103108.d	N069583-009B	SAMP	10	11/04/24 9:16 AM
A1103109.d	N069583-010B	SAMP	1	11/04/24 9:22 AM
A1103110.d	N069583-010B	SAMP	100	11/04/24 9:28 AM
A1103111.d	N069585-001B	SAMP	1	11/04/24 9:34 AM
A1103112.d	RINSE	ICAL	1	11/04/24 9:40 AM
A1103113.d	CCV7	CCV	1	11/04/24 9:46 AM
A1103114.d	CCB7	CCB	1	11/04/24 9:52 AM
A1103115.d	ICSA4	ICSA	1	11/04/24 9:57 AM
A1103116.d	ICSAB4	ICSAB	1	11/04/24 10:03 AM
A1103117.d	MB-113831	MBLK	1	11/04/24 10:09 AM
A1103118.d	LCS-113831	LCS	1	11/04/24 10:15 AM
A1103119.d	N069629-001B	SAMP	1	11/04/24 10:21 AM
A1103120.d	N069629-001B	SAMP	5	11/04/24 10:27 AM
A1103121.d	N069629-001B-PS	PS	1	11/04/24 10:33 AM
A1103122.d	N069629-001B-MS	MS	1	11/04/24 10:39 AM
A1103123.d	N069629-001B-MSD	MSD	1	11/04/24 10:45 AM
A1103124.d	N069629-002B	SAMP	1	11/04/24 10:50 AM
A1103125.d	N069631-008B	SAMP	1	11/04/24 10:56 AM
A1103126.d	RINSE	ICAL	1	11/04/24 11:02 AM

INJECTION LOG: 241103B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1103127.d	CCV8	CCV	1	11/04/24 11:08 AM
A1103128.d	CCB8	CCB	1	11/04/24 11:14 AM
A1103129.d	N069631-009B	SAMP	1	11/04/24 11:20 AM
A1103130.d	N069631-010B	SAMP	1	11/04/24 11:26 AM
A1103131.d	N069631-011B	SAMP	1	11/04/24 11:32 AM
A1103132.d	N069631-012B	SAMP	1	11/04/24 11:38 AM
A1103133.d	N069631-013B	SAMP	1	11/04/24 11:44 AM
A1103134.d	N069631-014B	SAMP	1	11/04/24 11:50 AM
A1103135.d	N069638-001B	SAMP	1	11/04/24 11:56 AM
A1103136.d	N069638-002B	SAMP	1	11/04/24 12:02 PM
A1103137.d	N069638-003B	SAMP	1	11/04/24 12:08 PM
A1103138.d	RINSE	ICAL	1	11/04/24 12:14 PM
A1103139.d	CCV9	CCV	1	11/04/24 12:20 PM
A1103140.d	CCB9	CCB	1	11/04/24 12:25 PM
A1103141.d	N069638-007B	SAMP	1	11/04/24 12:31 PM
A1103142.d	N069638-008B	SAMP	1	11/04/24 12:37 PM
A1103143.d	N069638-009B	SAMP	1	11/04/24 12:43 PM
A1103144.d	RINSE	ICAL	1	11/04/24 12:49 PM
A1103145.d	CCV10	CCV	1	11/04/24 12:55 PM
A1103146.d	CCB10	CCB	1	11/04/24 1:01 PM
A1103147.d	MB-113832	MBLK	1	11/04/24 1:07 PM
A1103148.d	LCS-113832	LCS	1	11/04/24 1:12 PM
A1103149.d	N069542-001C	SAMP	1	11/04/24 1:18 PM
A1103150.d	N069542-001C	SAMP	5	11/04/24 1:24 PM
A1103151.d	N069542-001C-PS	PS	1	11/04/24 1:30 PM
A1103152.d	N069542-001C-MS	MS	1	11/04/24 1:36 PM
A1103153.d	N069542-001C-MSD	MSD	1	11/04/24 1:42 PM
A1103154.d	N069542-002C	SAMP	1	11/04/24 1:48 PM
A1103155.d	N069542-003C	SAMP	1	11/04/24 1:54 PM
A1103156.d	RINSE	ICAL	1	11/04/24 2:00 PM
A1103157.d	CCV11	CCV	1	11/04/24 2:06 PM
A1103158.d	CCB11	CCB	1	11/04/24 2:12 PM
A1103159.d	ICSA5	ICSA	1	11/04/24 2:17 PM
A1103160.d	ICSAB5	ICSAB	1	11/04/24 2:23 PM
A1103161.d	RINSE	ICAL	1	11/04/24 2:29 PM
A1103162.d	RINSE	ICAL	1	11/04/24 2:35 PM

INJECTION LOG: 241105B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1105001.d	RINSE	ICAL	1	11/05/24 4:12 PM
B1105002.d	RINSE	ICAL	1	11/05/24 4:18 PM
B1105003.d	Cal Blk	IBLK	1	11/05/24 4:24 PM
B1105004.d	Std1-0.1/1 ppb	ICAL	1	11/05/24 4:30 PM
B1105005.d	Std2-0.5/5 ppb	ICAL	1	11/05/24 4:36 PM
B1105006.d	Std3-5/50 ppb	ICAL	1	11/05/24 4:42 PM
B1105007.d	Std4-10/100 ppb	ICAL	1	11/05/24 4:48 PM
B1105008.d	Std5-4.0/20/200 ppb	ICAL	1	11/05/24 4:54 PM
B1105009.d	Std6-8.0/40/400 ppb	ICAL	1	11/05/24 5:00 PM
B1105010.d	Std7-100/1000 ppb	ICAL	1	11/05/24 5:06 PM
B1105011.d	Std8-200/2000 ppb	ICAL	1	11/05/24 5:12 PM
B1105012.d	ICV	ICV	1	11/05/24 5:20 PM
B1105013.d	ICB	ICB	1	11/05/24 5:26 PM
B1105014.d	LLCCV1	CCV1	1	11/05/24 5:32 PM
B1105015.d	LLCCV2	CCV1	1	11/05/24 5:38 PM
B1105016.d	MLCCV1	CCV	1	11/05/24 5:44 PM
B1105017.d	ICSA1	ICSA	1	11/05/24 5:50 PM
B1105018.d	ICSAB1	ICSAB	1	11/05/24 5:56 PM
B1105019.d	MB-113875	MBLK	1	11/05/24 6:01 PM
B1105020.d	LCS-113875	LCS	1	11/05/24 6:07 PM
B1105021.d	N069694-003B	SAMP	1	11/05/24 6:13 PM
B1105022.d	N069694-003B	SAMP	5	11/05/24 6:19 PM
B1105023.d	N069694-003B-PS	PS	1	11/05/24 6:25 PM
B1105024.d	N069694-003B-MS	MS	1	11/05/24 6:31 PM
B1105025.d	N069694-003B-MSD	MSD	1	11/05/24 6:37 PM
B1105026.d	RINSE	ICAL	1	11/05/24 6:43 PM
B1105027.d	CCV1	CCV	1	11/05/24 6:48 PM
B1105028.d	CCB1	CCB	1	11/05/24 6:54 PM
B1105029.d	ICSA2	ICSA	1	11/05/24 7:00 PM
B1105030.d	ICSAB2	ICSAB	1	11/05/24 7:06 PM
B1105031.d	MB-113874	MBLK	1	11/05/24 7:12 PM
B1105032.d	LCS-113874	LCS	1	11/05/24 7:18 PM
B1105033.d	N069234-016D	SAMP	1	11/05/24 7:23 PM
B1105034.d	N069234-016D	SAMP	5	11/05/24 7:29 PM
B1105035.d	N069234-016D-PS	PS	1	11/05/24 7:35 PM
B1105036.d	N069234-016D-MS	MS	1	11/05/24 7:41 PM
B1105037.d	N069234-016D-MSD	MSD	1	11/05/24 7:47 PM
B1105038.d	RINSE	ICAL	1	11/05/24 7:53 PM
B1105039.d	CCV2	CCV	1	11/05/24 7:59 PM
B1105040.d	CCB2	CCB	1	11/05/24 8:04 PM
B1105041.d	MB-113864	MBLK	1	11/05/24 8:10 PM
B1105042.d	LCS-113864	LCS	1	11/05/24 8:16 PM

INJECTION LOG: 241105B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1105043.d	N069694-001B	SAMP	1	11/05/24 8:22 PM
B1105044.d	N069694-002B	SAMP	1	11/05/24 8:28 PM
B1105045.d	N069694-003B	SAMP	1	11/05/24 8:34 PM
B1105046.d	N069694-004B	SAMP	1	11/05/24 8:40 PM
B1105047.d	N069695-001B	SAMP	1	11/05/24 8:45 PM
B1105048.d	N069695-001B	SAMP	5	11/05/24 8:51 PM
B1105049.d	N069695-001B-PS	PS	1	11/05/24 8:57 PM
B1105050.d	RINSE	ICAL	1	11/05/24 9:03 PM
B1105051.d	CCV3	CCV	1	11/05/24 9:09 PM
B1105052.d	CCB3	CCB	1	11/05/24 9:15 PM
B1105053.d	N069695-001BMS	MS	1	11/05/24 9:21 PM
B1105054.d	N069695-001BMSD	MSD	1	11/05/24 9:26 PM
B1105055.d	N069695-002B	SAMP	1	11/05/24 9:32 PM
B1105056.d	N069695-003B	SAMP	1	11/05/24 9:38 PM
B1105057.d	N069695-003B	SAMP	5	11/05/24 9:44 PM
B1105058.d	N069695-003B-PS	PS	1	11/05/24 9:50 PM
B1105059.d	N069695-003BMS	MS	1	11/05/24 9:56 PM
B1105060.d	N069695-003BMSD	MSD	1	11/05/24 10:02 PM
B1105061.d	N069697-001B	SAMP	1	11/05/24 10:08 PM
B1105062.d	RINSE	ICAL	1	11/05/24 10:13 PM
B1105063.d	CCV4	CCV	1	11/05/24 10:19 PM
B1105064.d	CCB4	CCB	1	11/05/24 10:25 PM
B1105065.d	N069697-002B	SAMP	1	11/05/24 10:31 PM
B1105066.d	N069697-003B	SAMP	1	11/05/24 10:37 PM
B1105067.d	N069697-004B	SAMP	1	11/05/24 10:43 PM
B1105068.d	N069697-005B	SAMP	1	11/05/24 10:49 PM
B1105069.d	N069697-006B	SAMP	1	11/05/24 10:54 PM
B1105070.d	N069697-007B	SAMP	1	11/05/24 11:00 PM
B1105071.d	N069697-008B	SAMP	1	11/05/24 11:06 PM
B1105072.d	N069697-009B	SAMP	1	11/05/24 11:12 PM
B1105073.d	N069697-010D	SAMP	1	11/05/24 11:18 PM
B1105074.d	RINSE	ICAL	1	11/05/24 11:24 PM
B1105075.d	CCV5	CCV	1	11/05/24 11:30 PM
B1105076.d	CCB5	CCB	1	11/05/24 11:36 PM
B1105077.d	N069697-011D	SAMP	1	11/05/24 11:41 PM
B1105078.d	N069697-012D	SAMP	1	11/05/24 11:48 PM
B1105079.d	N069697-013D	SAMP	1	11/05/24 11:54 PM
B1105080.d	RINSE	ICAL	1	11/06/24 12:00 AM
B1105081.d	CCV6	CCV	1	11/06/24 12:06 AM
B1105082.d	CCB6	CCB	1	11/06/24 12:11 AM
B1105083.d	ICSA3	ICSA	1	11/06/24 12:17 AM
B1105084.d	ICSAB3	ICSAB	1	11/06/24 12:23 AM

INJECTION LOG: 241105B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1105085.d	N069582-002B	SAMP	1	11/06/24 12:29 AM
B1105086.d	N069582-002B	SAMP	1	11/06/24 12:35 AM
B1105087.d	N069582-002B	SAMP	1	11/06/24 12:41 AM
B1105088.d	N069582-004B	SAMP	10	11/06/24 12:47 AM
B1105089.d	N069582-005B	SAMP	10	11/06/24 12:53 AM
B1105090.d	N069582-006B	SAMP	10	11/06/24 12:59 AM
B1105091.d	N069583-003B	SAMP	1	11/06/24 1:05 AM
B1105092.d	N069583-003B	SAMP	1	11/06/24 1:10 AM
B1105093.d	N069583-003B	SAMP	1	11/06/24 1:16 AM
B1105094.d	RINSE	ICAL	1	11/06/24 1:22 AM
B1105095.d	CCV7	CCV	1	11/06/24 1:28 AM
B1105096.d	CCB7	CCB	1	11/06/24 1:34 AM
B1105097.d	N069629-001B	SAMP	1	11/06/24 1:40 AM
B1105098.d	N069631-008B	SAMP	10	11/06/24 1:46 AM
B1105099.d	N069631-009B	SAMP	1	11/06/24 1:52 AM
B1105100.d	N069631-010B	SAMP	1	11/06/24 1:58 AM
B1105101.d	N069631-010B	SAMP	10	11/06/24 2:04 AM
B1105102.d	N069631-011B	SAMP	10	11/06/24 2:10 AM
B1105103.d	N069631-012B	SAMP	10	11/06/24 2:16 AM
B1105104.d	N069631-013B	SAMP	10	11/06/24 2:22 AM
B1105105.d	N069631-014B	SAMP	10	11/06/24 2:28 AM
B1105106.d	N069638-001B	SAMP	10	11/06/24 2:33 AM
B1105107.d	CCV8	CCV	1	11/06/24 2:39 AM
B1105108.d	CCB8	CCB	1	11/06/24 2:45 AM
B1105109.d	N069638-007B	SAMP	1	11/06/24 2:51 AM
B1105110.d	N069629-001B	SAMP	1	11/06/24 2:57 AM
B1105111.d	N069631-009B	SAMP	1	11/06/24 3:03 AM
B1105112.d	N069631-010B	SAMP	1	11/06/24 3:09 AM
B1105113.d	N069629-001B	SAMP	1	11/06/24 3:15 AM
B1105114.d	N069631-009B	SAMP	1	11/06/24 3:21 AM
B1105115.d	N069631-010B	SAMP	1	11/06/24 3:27 AM
B1105116.d	N069638-007B	SAMP	1	11/06/24 3:33 AM
B1105117.d	N069638-008B	SAMP	10	11/06/24 3:39 AM
B1105118.d	N069638-009B	SAMP	100	11/06/24 3:45 AM
B1105119.d	CCV9	CCV	1	11/06/24 3:50 AM
B1105120.d	CCB9	CCB	1	11/06/24 3:56 AM
B1105121.d	ICSA4	ICSA	1	11/06/24 4:02 AM
B1105122.d	ICSAB4	ICSAB	1	11/06/24 4:08 AM
B1105123.d	RINSE	ICAL	1	11/06/24 4:14 AM
B1105124.d	RINSE	ICAL	1	11/06/24 4:20 AM
B1105125.d	RINSE	ICAL	1	11/06/24 4:26 AM

SAMPLE PREPARATION LOG



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: **10/31/2024 9:01:04 AM**
 Prep End Date: **10/31/2024 12:45:00 PM**

Reviewed/ Date: *JRB* **11/14/2024**

Page: 1 of 2

Initials/ Date: _____ for _____

Prep Factor Units Temp. (°C): Location:
 mL / mL **95** **DB-4-38**

Prep Batch **113746** Prep Code: **3010_W_MSDISS_TPK**

Technician: **Diane Jetajobe**

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-113746 50ML LOT# J96406-5447	Aqueous		25	<input type="checkbox"/>	25	1.000		
MB-113746 THERMOMETER ID: DIGESTION 7	Aqueous		25	<input type="checkbox"/>	25	1.000		
N069542-001B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069542-002B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069542-003B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069582-002B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069582-003B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069582-004B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069582-005B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069582-006B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-002B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-003B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17140	NITRIC ACID
17147	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-240815C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-240815D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-240815E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-240815F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: **10/31/2024 9:01:04 AM**
 Prep End Date: **10/31/2024 12:45:00 PM**

Reviewed/ Date: *JRB* **11/14/2024**

Page: 2 of 2

Prep Batch **113746** Prep Code: **3010_W_MSDISS_TPK**

Initials/ Date: _____ for _____
 Technician: **Diane Jetajobe**

Prep Factor Units Temp. (°C): Location:
 mL / mL **95 DB-4-38**

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N069583-003BMS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-003BMSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-004B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-006B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-008B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-009B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069583-010B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069585-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17140	NITRIC ACID
17147	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-240815C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-240815D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-240815E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-240815F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

INSTRUMENT TUNING CHECK



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

385

US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\241031A2.b
Acq. Date-Time 2024-11-01 08:40:26
Report Comment --
Instrument Name G8421A SG19193757

[No Gas]

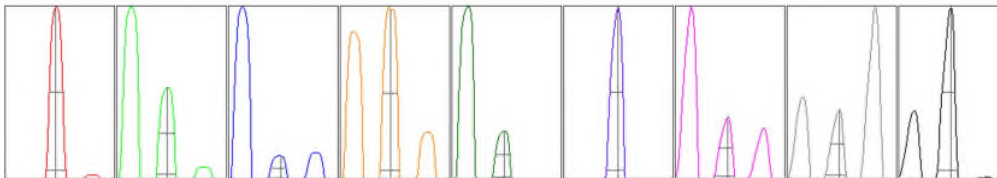
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	7356	73559.99	500.00		2.032	5.000
24	10.00	20517	205168.32	500.00		2.486	5.000
25	10.00	2713	27133.34	500.00		3.226	5.000
26	10.00	3106	31059.03	500.00		2.715	5.000
59	10.00	30751	307510.11	500.00		3.166	5.000
115	10.00	39048	390475.77	500.00		1.887	5.000
206	10.00	8592	85918.90	500.00		1.818	5.000
207	10.00	6781	67813.70	500.00		1.630	5.000
208	10.00	16982	169817.76	500.00		1.559	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.370 %
Doubly Charged 70 / 140 0.996 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	7530.09	8.90	8.90 - 9.10	
24	20369.50	23.90	23.90 - 24.10	
25	2614.33	24.95	24.90 - 25.10	
26	3048.83	25.90	25.90 - 26.10	
59	29609.26	58.95	58.90 - 59.10	
115	37460.70	115.00	114.90 - 115.10	
206	8565.55	205.95	205.90 - 206.10	
207	7135.03	206.95	206.90 - 207.10	
208	17872.34	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.38	0.526	0.900	
24	0.43	0.539	0.900	
25	0.43	0.533	0.900	
26	0.42	0.537	0.900	
59	0.40	0.498	0.900	
115	0.37	0.490	0.900	
206	0.37	0.559	0.900	
207	0.36	0.582	0.900	
208	0.36	0.573	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.2 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2635 V Pulse HV 1863 V

[H2]

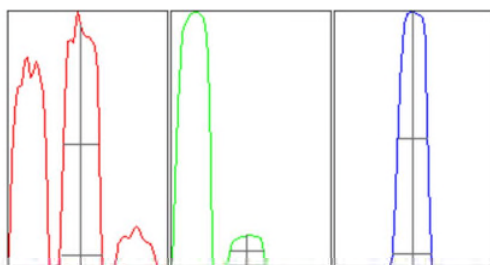
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		163	1628.88			9.264	
59		3302	33015.53			3.035	
115		32124	321242.76			1.905	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.266 %
 Doubly Charged 70 / 140 0.332 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	160.26	25.90	25.90 - 26.10	
59	3418.62	58.95	58.90 - 59.10	
115	33020.69	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.67	0.788	0.900	
59	0.63	0.738	0.900	
115	0.57	0.732	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0003	QP Bias	-15.0 V
Mass Offset	126	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2635 V	Pulse HV	1863 V
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[He]

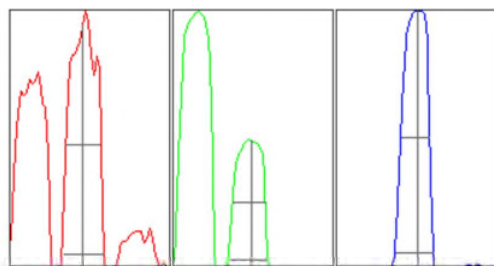
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		68	684.01			14.980	
59		5890	58899.04			2.185	
115		5350	53501.17			2.585	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.114 %
Doubly Charged	70 / 140 1.167 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	72.75	25.90	25.90 - 26.10	
59	6029.36	59.00	58.90 - 59.10	
115	5411.85	115.05	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.66	0.790	0.900	
59	0.62	0.740	0.900	
115	0.56	0.730	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0003	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2635 V	Pulse HV	1863 V
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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\241101C.b
Acq. Date-Time 2024-11-03 22:07:00
Report Comment —
Instrument Name G8421A SG19193757

[No Gas]

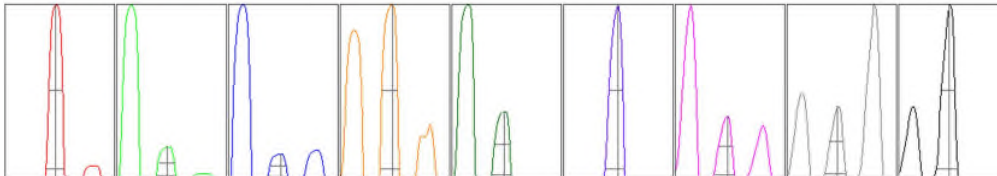
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	5417	54171.13	500.00		3.895	5.000
24	10.00	18113	181134.68	500.00		3.162	5.000
25	10.00	2399	23988.24	500.00		3.991	5.000
26	10.00	2740	27402.98	500.00		3.005	5.000
59	10.00	27813	278128.90	500.00		2.762	5.000
115	10.00	37760	377603.09	500.00		2.136	5.000
206	10.00	7957	79573.41	500.00		2.578	5.000
207	10.00	6230	62297.19	500.00		2.171	5.000
208	10.00	15627	156271.60	500.00		1.981	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.488 %
Doubly Charged 70 / 140 0.858 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	5382.53	8.90	8.90 - 9.10	
24	18039.81	23.90	23.90 - 24.10	
25	2372.48	24.95	24.90 - 25.10	
26	2782.62	25.95	25.90 - 26.10	
59	27056.27	58.95	58.90 - 59.10	
115	37443.11	115.00	114.90 - 115.10	
206	8208.37	205.95	205.90 - 206.10	
207	6843.19	206.90	206.90 - 207.10	
208	16836.48	207.90	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.38	0.490	0.900	
24	0.45	0.541	0.900	
25	0.45	0.548	0.900	
26	0.44	0.542	0.900	
59	0.42	0.538	0.900	
115	0.39	0.531	0.900	
206	0.37	0.582	0.900	
207	0.36	0.606	0.900	
208	0.38	0.594	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.1 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2640 V Pulse HV 1872 V

[H2]

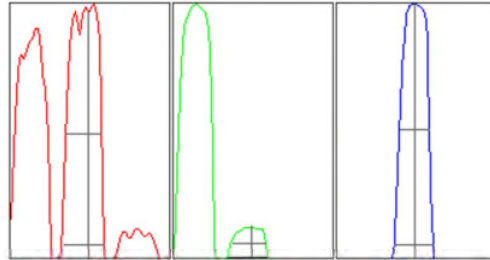
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		161	1614.68			6.992	
59		2324	23240.02			3.102	
115		32900	328995.40			2.512	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.408 %
 Doubly Charged 70 / 140 0.277 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	161.26	26.00	25.90 - 26.10	
59	2408.83	59.00	58.90 - 59.10	
115	34382.52	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.68	0.792	0.900	
59	0.65	0.743	0.900	
115	0.57	0.732	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	--	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	—	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	132	Axis Gain	1.0001	QP Bias	-15.0 V
Mass Offset	126	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.1 mm
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EM

Discriminator	4.5 mV	Analog HV	2640 V	Pulse HV	1872 V
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[He]

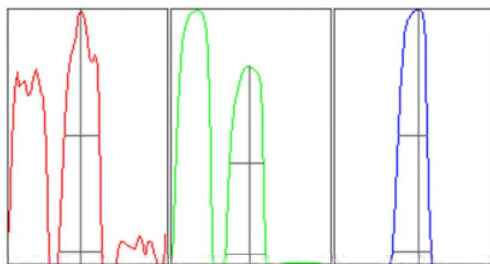
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		70	703.81			10.429	
59		6107	61071.23			1.630	
115		5125	51248.17			1.987	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.177 %
Doubly Charged	70 / 140 1.101 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	73.25	25.90	25.90 - 26.10	
59	6259.21	59.00	58.90 - 59.10	
115	5150.25	115.10	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.67	0.821	0.900	
59	0.64	0.742	0.900	
115	0.56	0.729	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	132	Axis Gain	1.0001	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.1 mm
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EM

Discriminator	4.5 mV	Analog HV	2640 V	Pulse HV	1872 V
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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\241103A.b
Acq. Date-Time 2024-11-05 11:29:09
Report Comment --
Instrument Name G8421A SG19193757

[No Gas]

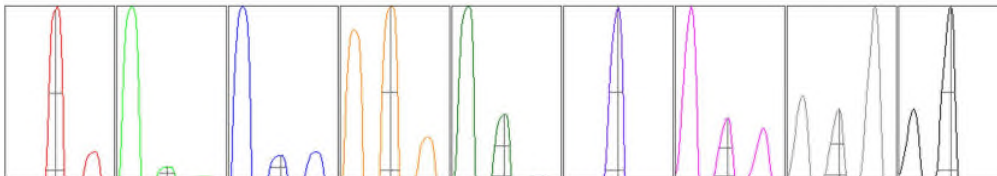
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	4888	48879.00	500.00		3.959	5.000
24	10.00	19646	196455.35	500.00		3.227	5.000
25	10.00	2583	25831.32	500.00		3.555	5.000
26	10.00	2951	29510.30	500.00		3.669	5.000
59	10.00	27289	272887.21	500.00		3.534	5.000
115	10.00	39232	392321.11	500.00		2.442	5.000
206	10.00	8820	88200.38	500.00		2.327	5.000
207	10.00	6890	68901.30	500.00		2.386	5.000
208	10.00	17379	173789.93	500.00		1.774	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.544 %
Doubly Charged 70 / 140 0.797 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	4794.02	8.90	8.90 - 9.10	
24	19543.03	23.90	23.90 - 24.10	
25	2564.02	24.95	24.90 - 25.10	
26	2983.95	25.90	25.90 - 26.10	
59	26620.55	58.95	58.90 - 59.10	
115	38574.62	115.00	114.90 - 115.10	
206	8742.39	205.95	205.90 - 206.10	
207	7306.93	206.95	206.90 - 207.10	
208	18171.35	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.38	0.489	0.900	
24	0.44	0.541	0.900	
25	0.44	0.543	0.900	
26	0.43	0.540	0.900	
59	0.41	0.536	0.900	
115	0.38	0.527	0.900	
206	0.37	0.580	0.900	
207	0.36	0.598	0.900	
208	0.37	0.582	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.2 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2642 V Pulse HV 1876 V

[H2]

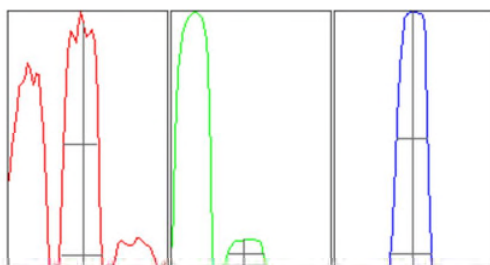
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		159	1586.87			8.791	
59		1988	19877.87			3.412	
115		32511	325106.03			2.213	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.449 %
 Doubly Charged 70 / 140 0.256 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	167.51	25.95	25.90 - 26.10	
59	2044.08	58.90	58.90 - 59.10	
115	33309.86	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.65	0.788	0.900	
59	0.66	0.782	0.900	
115	0.59	0.767	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0004	QP Bias	-15.0 V
Mass Offset	126	Axis Offset	-0.04		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2642 V	Pulse HV	1876 V
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[He]

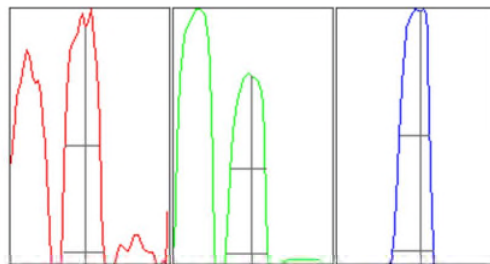
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		74	743.02			13.233	
59		5859	58589.96			2.236	
115		4989	49891.29			2.303	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.178 %
Doubly Charged	70 / 140 1.034 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	73.50	25.95	25.90 - 26.10	
59	5880.57	59.00	58.90 - 59.10	
115	5058.67	115.10	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.65	0.787	0.900	
59	0.65	0.785	0.900	
115	0.58	0.764	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0004	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	-0.04		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2642 V	Pulse HV	1876 V
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INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

INITIAL CALIBRATION SUMMARY: 241101C

Instrument ID: NV00922-ICP8

Analyte	Data File	B1101004.d	B1101005.d	B1101006.d	B1101007.d	B1101008.d	B1101009.d	B1101010.d	B1101011.d	B1101012.d	R
	Acq. Date-Time	11/01/2024 08:20 PM	11/01/2024 08:26 PM	11/01/2024 08:32 PM	11/01/2024 08:39 PM	11/01/2024 08:45 PM	11/01/2024 08:51 PM	11/01/2024 08:57 PM	11/01/2024 09:03 PM	11/01/2024 09:09 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
	Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	
45 Sc (ISTD) [2]	CPS	30750.5		30119.4	30091.5	29964.6	30468.9	30167.2	28974	28449.8	
55 Mn [2]	CPS	10		490	5495.4	10636.8	22279.4	43357.7	108019.2	215945.1	0.9999
52 Cr [2]	CPS	184.4		1235.6	10339.9	20532.7	41047.2	82708.9	208144.8	415878.9	0.9999
72 Ge (ISTD) [2]	CPS	17199.1	17383.7	17099	17053.4	16748.6	16859.8	16586.2	16517.2	15996.8	
75 As [2]	CPS	8.9	25.6	126.7	1202.3	2231.3	4457.3	9311.6	22255.2	45449.7	0.9997
66 Zn [2]	CPS	20		398.9	1909	3802.7	7349.5	14459.7	36321.1	72640.7	0.9999
159 Tb (ISTD) [3]	CPS	1386094.3		1388129.1	1391676.6	1399156.9	1396798.8	1391352.1	1369373.4	1340923	
137 Ba [3]	CPS	3.3		1356.7	13389.3	26362.7	54217.8	108301.3	270326.7	544174.7	0.9999

Standard Code
ICAL: 2MSST-240311B
ICAL: 2MSST-240311C
ICAL: 2MWST-240815K
ICV: 2MWST-240815G
LLICV: 2MWST-240815J
IS Mix: 2MWST-240815A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Analyte	Data File	A1103004.d	A1103005.d	A1103006.d	A1103007.d	A1103008.d	A1103009.d	A1103010.d	A1103011.d	A1103012.d	R
	Acq. Date-Time	11/03/2024 10:39 PM	11/03/2024 10:45 PM	11/03/2024 10:51 PM	11/03/2024 10:57 PM	11/03/2024 11:03 PM	11/03/2024 11:09 PM	11/03/2024 11:15 PM	11/03/2024 11:21 PM	11/03/2024 11:27 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
	Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	
72 Ge (ISTD) [2]	CPS	16330.4	16444.9	16499.4	16386	16102.4	16486.1	15896.7	15498.5	15186	0.9999
75 As [2]	CPS	1.1	30	123.3	1025.6	2151.3	4301.7	8412.2	21140.4	42362.5	0.9999
66 Zn [2]	CPS	23.3		406.7	1741.2	3597.1	6874.8	13516.7	33460.6	66484.9	0.9999

Standard Code
ICAL: 2MSST-240311B
ICAL: 2MSST-240311C
ICAL: 2MWST-240815K
ICV: 2MWST-240815G
LLICV: 2MWST-240815J
IS Mix: 2MWST-240815A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION SUMMARY: 241105B

Instrument ID: NV00922-ICP8

Analyte	Data File	B1105003.d	B1105004.d	B1105005.d	B1105006.d	B1105007.d	B1105008.d	B1105009.d	B1105010.d	B1105011.d	
	Acq. Date-Time	11/05/2024 04:24 PM	11/05/2024 04:30 PM	11/05/2024 04:36 PM	11/05/2024 04:42 PM	11/05/2024 04:48 PM	11/05/2024 04:54 PM	11/05/2024 05:00 PM	11/05/2024 05:06 PM	11/05/2024 05:12 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
	Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	R
72 Ge (ISTD) [2]	CPS	15888.9	15710.9	15716.5	15534.1	15756.5	15703.1	15547.4	15260.5	15210.4	
75 As [2]	CPS	4.4	17.8	102.2	1018.9	1984.6	4246.1	8139.8	20142.4	40958.9	0.9999

Standard Code
ICAL: 2MSST-240311B
ICAL: 2MSST-240311C
ICAL: 2MWST-240815K
ICV: 2MWST-240815G
LLICV: 2MWST-240815J
IS Mix: 2MWST-240815A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ICV	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282936							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.839	0.10	10.00	0	98.4	90	110				
Barium	9.532	1.0	10.00	0	95.3	90	110				
Manganese	96.812	0.50	100.0	0	96.8	90	110				
Zinc	94.282	10	100.0	0	94.3	90	110				

Sample ID LLCCV1	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ZZZZZZ	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282938							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.102	0.10	0.1000	0	102	80	120				

Sample ID LLCCV2	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ZZZZZZ	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282939							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	1.032	1.0	1.000	0	103	80	120				
Manganese	0.499	0.50	0.5000	0	99.7	80	120				
Zinc	9.660	10	10.00	0	96.6	80	120				

Sample ID MLCCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282940							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.620	0.10	20.00	0	98.1	90	110				
Barium	19.089	1.0	20.00	0	95.4	90	110				
Manganese	20.047	0.50	20.00	0	100	90	110				
Zinc	19.223	10	20.00	0	96.1	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020		Analysis Date: 11/1/2024	SeqNo: 6282950						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.848	0.10	20.00	0	94.2	90	110				
Barium	18.928	1.0	20.00	0	94.6	90	110				
Manganese	19.526	0.50	20.00	0	97.6	90	110				
Zinc	18.612	10	20.00	0	93.1	90	110				

Sample ID CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020		Analysis Date: 11/2/2024	SeqNo: 6282958						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.754	0.10	20.00	0	93.8	90	110				
Barium	17.985	1.0	20.00	0	89.9	90	110				S
Manganese	19.397	0.50	20.00	0	97.0	90	110				
Zinc	18.784	10	20.00	0	93.9	90	110				

Sample ID CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020		Analysis Date: 11/2/2024	SeqNo: 6282969						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	17.972	0.10	20.00	0	89.9	90	110				S
Barium	19.810	1.0	20.00	0	99.1	90	110				
Manganese	19.458	0.50	20.00	0	97.3	90	110				
Zinc	18.448	10	20.00	0	92.2	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020		Analysis Date: 11/2/2024	SeqNo: 6282980						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.346	0.10	20.00	0	91.7	90	110				
Barium	19.383	1.0	20.00	0	96.9	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

% Rec of As in several IQCS failed, low bias. However, As is reported at run number 195177 and 195287.

[Signature] 12/4/2024

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282980							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	19.280	0.50	20.00	0	96.4	90	110				
Zinc	18.379	10	20.00	0	91.9	90	110				

Sample ID CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282991							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	17.778	0.10	20.00	0	88.9	90	110				S
Barium	19.228	1.0	20.00	0	96.1	90	110				
Manganese	19.155	0.50	20.00	0	95.8	90	110				
Zinc	18.062	10	20.00	0	90.3	90	110				

Sample ID CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282997							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.605	0.10	20.00	0	93.0	90	110				
Barium	19.477	1.0	20.00	0	97.4	90	110				
Manganese	19.265	0.50	20.00	0	96.3	90	110				
Zinc	17.821	10	20.00	0	89.1	90	110				S

Sample ID CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6283010							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	17.866	0.10	20.00	0	89.3	90	110				S
Barium	19.251	1.0	20.00	0	96.3	90	110				
Manganese	19.172	0.50	20.00	0	95.9	90	110				
Zinc	17.616	10	20.00	0	88.1	90	110				S

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

% Rec of Zn in several IQCS failed. However, Zn is reported at run number 195177.

[Signature] 12/4/2024

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV8	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6283021							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	17.322	0.10	20.00	0	86.6	90	110				S
Barium	19.425	1.0	20.00	0	97.1	90	110				
Manganese	19.055	0.50	20.00	0	95.3	90	110				
Zinc	17.396	10	20.00	0	87.0	90	110				S

Sample ID CCV9	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCV	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6283028							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.453	0.10	20.00	0	92.3	90	110				
Barium	19.892	1.0	20.00	0	99.5	90	110				
Manganese	19.344	0.50	20.00	0	96.7	90	110				
Zinc	17.877	10	20.00	0	89.4	90	110				S

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/3/2024	SeqNo: 6285974							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.646	0.10	10.00	0	96.5	90	110				
Barium	9.298	1.0	10.00	0	93.0	90	110				
Manganese	95.762	0.50	100.0	0	95.8	90	110				
Zinc	92.877	10	100.0	0	92.9	90	110				

Sample ID LLCCV2	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ZZZZZ	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285974							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.118	0.10	0.1000	0	118	80	120				
Barium	0.982	1.0	1.000	0	98.2	80	120				
Manganese	0.521	0.50	0.5000	0	104	80	120				
Zinc	9.590	10	10.00	0	95.9	80	120				

Sample ID MLCCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285978							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.692	0.10	20.00	0	93.5	90	110				
Barium	18.689	1.0	20.00	0	93.4	90	110				
Manganese	20.181	0.50	20.00	0	101	90	110				
Zinc	18.954	10	20.00	0	94.8	90	110				

Sample ID CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285988							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.225	0.10	20.00	0	91.1	90	110				
Barium	18.859	1.0	20.00	0	94.3	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285988							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	19.677	0.50	20.00	0	98.4	90	110				
Zinc	19.160	10	20.00	0	95.8	90	110				

Sample ID CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286001							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.563	0.10	20.00	0	92.8	90	110				
Barium	20.368	1.0	20.00	0	102	90	110				
Manganese	19.361	0.50	20.00	0	96.8	90	110				
Zinc	19.056	10	20.00	0	95.3	90	110				

Sample ID CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286012							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.431	0.10	20.00	0	92.2	90	110				
Barium	20.230	1.0	20.00	0	101	90	110				
Manganese	19.116	0.50	20.00	0	95.6	90	110				
Zinc	18.178	10	20.00	0	90.9	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286024							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.233	0.10	20.00	0	96.2	90	110				
Barium	20.628	1.0	20.00	0	103	90	110				
Manganese	18.981	0.50	20.00	0	94.9	90	110				
Zinc	18.796	10	20.00	0	94.0	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286037							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.118	0.10	20.00	0	95.6	90	110				
Barium	20.193	1.0	20.00	0	101	90	110				
Manganese	19.540	0.50	20.00	0	97.7	90	110				
Zinc	19.309	10	20.00	0	96.5	90	110				

Sample ID CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286048							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.712	0.10	20.00	0	93.6	90	110				
Barium	19.928	1.0	20.00	0	99.6	90	110				
Manganese	19.301	0.50	20.00	0	96.5	90	110				
Zinc	18.496	10	20.00	0	92.5	90	110				

Sample ID CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286059							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.263	0.10	20.00	0	96.3	90	110				
Barium	19.960	1.0	20.00	0	99.8	90	110				
Manganese	19.240	0.50	20.00	0	96.2	90	110				
Zinc	19.460	10	20.00	0	97.3	90	110				

Sample ID CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286068							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.836	0.10	20.00	0	94.2	90	110				
Barium	20.381	1.0	20.00	0	102	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286068						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	19.354	0.50	20.00	0	96.8	90	110				
Zinc	18.965	10	20.00	0	94.8	90	110				

Sample ID CCV8	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286081						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.621	0.10	20.00	0	98.1	90	110				
Barium	20.375	1.0	20.00	0	102	90	110				
Manganese	19.331	0.50	20.00	0	96.7	90	110				
Zinc	18.883	10	20.00	0	94.4	90	110				

Sample ID CCV9	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286092						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.463	0.10	20.00	0	97.3	90	110				
Barium	21.099	1.0	20.00	0	105	90	110				
Manganese	18.952	0.50	20.00	0	94.8	90	110				
Zinc	18.550	10	20.00	0	92.7	90	110				

Sample ID CCV10	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286097						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.781	0.10	20.00	0	93.9	90	110				
Barium	20.477	1.0	20.00	0	102	90	110				
Manganese	19.204	0.50	20.00	0	96.0	90	110				
Zinc	18.143	10	20.00	0	90.7	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV11	SampType: CCV	TestCode: 6020_DIS_TP Units: µg/L				Prep Date:			RunNo: 195177		
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020				Analysis Date: 11/4/2024			SeqNo: 6286108		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.199	0.10	20.00	0	91.0	90	110				
Barium	20.476	1.0	20.00	0	102	90	110				
Manganese	18.873	0.50	20.00	0	94.4	90	110				
Zinc	18.663	10	20.00	0	93.3	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ICV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293418							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.899	0.10	10.00	0	99.0	90	110				

Sample ID LLCCV2	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ZZZZZ	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293421							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.086	0.10	0.1000	0	86.5	80	120				

Sample ID MLCCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293422							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.468	0.10	20.00	0	97.3	90	110				

Sample ID CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293432							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.267	0.10	20.00	0	96.3	90	110				

Sample ID CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293443							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.047	0.10	20.00	0	100	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293454	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	19.611	0.10	20.00	0	98.1 90 110

Sample ID CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293465	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	19.357	0.10	20.00	0	96.8 90 110

Sample ID CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293476	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	19.359	0.10	20.00	0	96.8 90 110

Sample ID CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293481	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	19.564	0.10	20.00	0	97.8 90 110

Sample ID CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293494	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	19.544	0.10	20.00	0	97.7 90 110

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV8	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293506							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.604	0.10	20.00	0	98.0	90	110				

Sample ID CCV9	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293518							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.830	0.10	20.00	0	94.1	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ICV	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/3/2024	SeqNo: 6286829						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 9.773 1.0 10.00 0 97.7 90 110

Sample ID LLCCV2	SampType: CCV1	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ZZZZZ	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286832						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 0.978 1.0 1.000 0 97.8 80 120

Sample ID MLCCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286833						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 19.221 1.0 20.00 0 96.1 90 110

Sample ID CCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286843						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 19.377 1.0 20.00 0 96.9 90 110

Sample ID CCV2	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286856						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 18.614 1.0 20.00 0 93.1 90 110

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCV3	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286867	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	18.501	1.0	20.00	0	92.5 90 110

Sample ID CCV4	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286879	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	18.540	1.0	20.00	0	92.7 90 110

Sample ID CCV4	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286892	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	19.121	1.0	20.00	0	95.6 90 110

Sample ID CCV5	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286903	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	18.914	1.0	20.00	0	94.6 90 110

Sample ID CCV6	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286914	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	19.013	1.0	20.00	0	95.1 90 110

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCV7	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286923						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.225	1.0	20.00	0	96.1	90	110				

Sample ID CCV8	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286936						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.138	1.0	20.00	0	95.7	90	110				

Sample ID CCV9	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286947						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.393	1.0	20.00	0	92.0	90	110				

Sample ID CCV10	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286952						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.142	1.0	20.00	0	95.7	90	110				

Sample ID CCV11	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286963						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.693	1.0	20.00	0	93.5	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ICB	Batch ID: R195133	TestNo: EPA 6020		Analysis Date: 11/1/2024	SeqNo: 6282937						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Zinc	ND	10									

Sample ID CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCB	Batch ID: R195133	TestNo: EPA 6020		Analysis Date: 11/1/2024	SeqNo: 6282951						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Zinc	ND	10									

Sample ID CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCB	Batch ID: R195133	TestNo: EPA 6020		Analysis Date: 11/2/2024	SeqNo: 6282959						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Zinc	ND	10									

Sample ID CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: CCB	Batch ID: R195133	TestNo: EPA 6020		Analysis Date: 11/2/2024	SeqNo: 6282970						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133
Client ID: CCB	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282970	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Barium	ND	1.0			
Manganese	ND	0.50			
Zinc	ND	10			

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133
Client ID: CCB	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282981	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Barium	ND	1.0			
Manganese	ND	0.50			
Zinc	ND	10			

Sample ID CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133
Client ID: CCB	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282992	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Barium	ND	1.0			
Manganese	ND	0.50			
Zinc	ND	10			

Sample ID CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133
Client ID: CCB	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282998	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Barium	ND	1.0			
Manganese	ND	0.50			

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133
Client ID: CCB	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282998	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Zinc	ND	10									
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Sample ID CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133
Client ID: CCB	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6283011	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Zinc	ND	10									

Sample ID CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133
Client ID: CCB	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6283022	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Zinc	ND	10									

Sample ID CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133
Client ID: CCB	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6283029	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Zinc	ND	10									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICB	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/3/2024	SeqNo: 6285975						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Zinc	ND	10

Sample ID CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6285989						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Zinc	ND	10

Sample ID CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286002						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Zinc	ND	10

Sample ID CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286013						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286013	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Manganese	ND	0.50			
Zinc	ND	10			

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286025	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Barium	ND	1.0			
Manganese	ND	0.50			
Zinc	ND	10			

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286038	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Barium	ND	1.0			
Manganese	ND	0.50			
Zinc	ND	10			

Sample ID CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286049	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Barium	ND	1.0			
Manganese	ND	0.50			
Zinc	ND	10			

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286060							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Zinc	ND	10									

Sample ID CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286069							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Zinc	ND	10									

Sample ID CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286082							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Zinc	ND	10									

Sample ID CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286093							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286093	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Manganese	ND	0.50			
Zinc	ND	10			

Sample ID CCB10	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286098	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Barium	ND	1.0			
Manganese	ND	0.50			
Zinc	ND	10			

Sample ID CCB11	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286109	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Arsenic	ND	0.10			
Barium	ND	1.0			
Manganese	ND	0.50			
Zinc	ND	10			

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: ICB	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293419	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic ND 0.10

Sample ID CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293433	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic ND 0.10

Sample ID CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293444	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic ND 0.10

Sample ID CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293455	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic ND 0.10

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293466	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic ND 0.10

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6293477						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.10

Sample ID CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/6/2024	SeqNo: 6293482						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.10

Sample ID CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/6/2024	SeqNo: 6293495						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.10

Sample ID CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/6/2024	SeqNo: 6293507						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.10

Sample ID CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/6/2024	SeqNo: 6293519						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic ND 0.10

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ICB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/3/2024	SeqNo: 6286830	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB1	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286844	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB2	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286857	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB3	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286868	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB4	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286880	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCB4	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286893						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID CCB5	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286904						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID CCB6	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286915						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID CCB7	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286924						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID CCB8	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286937						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCB9	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286948						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium ND 1.0

Sample ID CCB10	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286953						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium ND 1.0

Sample ID CCB11	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286964						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium ND 1.0

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ICSA	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282942							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Zinc	ND	10									

Sample ID ICSA B1	SampType: ICSA B	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ICSA B	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282943							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.313	0.10	20.00	0	96.6	80	120				
Barium	19.388	1.0	20.00	0	96.9	80	120				
Manganese	19.107	0.50	20.00	0	95.5	80	120				
Zinc	19.917	10	20.00	0	99.6	80	120				

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ICSA	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282952							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Zinc	ND	10									

Sample ID ICSA B2	SampType: ICSA B	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ICSA B	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282953							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.116	0.10	20.00	0	95.6	80	120				
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSAB2	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ICSAB	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/1/2024	SeqNo: 6282953							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	18.985	1.0	20.00	0	94.9	80	120				
Manganese	19.440	0.50	20.00	0	97.2	80	120				
Zinc	19.307	10	20.00	0	96.5	80	120				

Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ICSA	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6282999							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Zinc	ND	10									

Sample ID ICSAB3	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ICSAB	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6283000							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.380	0.10	20.00	0	91.9	80	120				
Barium	20.234	1.0	20.00	0	101	80	120				
Manganese	19.026	0.50	20.00	0	95.1	80	120				
Zinc	18.721	10	20.00	0	93.6	80	120				

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ICSA	Batch ID: R195133	TestNo: EPA 6020	Analysis Date: 11/2/2024	SeqNo: 6283030							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ICSA	Batch ID: R195133	TestNo: EPA 6020		Analysis Date: 11/2/2024	SeqNo: 6283030						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Zinc	ND	10									
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Sample ID ICSAB4	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ICSAB	Batch ID: R195133	TestNo: EPA 6020		Analysis Date: 11/2/2024	SeqNo: 6283031						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	18.565	0.10	20.00	0	92.8	80	120				
Barium	20.271	1.0	20.00	0	101	80	120				
Manganese	18.787	0.50	20.00	0	93.9	80	120				
Zinc	18.657	10	20.00	0	93.3	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285980							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Zinc	ND	10									

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285981							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.262	0.10	20.00	0	96.3	80	120				
Barium	19.061	1.0	20.00	0	95.3	80	120				
Manganese	19.789	0.50	20.00	0	98.9	80	120				
Zinc	20.224	10	20.00	0	101	80	120				

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285990							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Zinc	ND	10									

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285991							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.187	0.10	20.00	0	95.9	80	120				
Barium	19.642	1.0	20.00	0	98.2	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSAB2	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSAB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285991							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	19.169	0.50	20.00	0	95.8	80	120				
Zinc	19.883	10	20.00	0	99.4	80	120				

Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286026							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Zinc	ND	10									

Sample ID ICSAB3	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSAB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286027							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	17.976	0.10	20.00	0	89.9	80	120				
Barium	20.373	1.0	20.00	0	102	80	120				
Manganese	19.029	0.50	20.00	0	95.1	80	120				
Zinc	18.441	10	20.00	0	92.2	80	120				

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286070							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Zinc	ND	10									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSAB4	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSAB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286071							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.648	0.10	20.00	0	93.2	80	120				
Barium	20.098	1.0	20.00	0	100	80	120				
Manganese	19.103	0.50	20.00	0	95.5	80	120				
Zinc	18.769	10	20.00	0	93.8	80	120				

Sample ID ICSA5	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286110							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Zinc	ND	10									

Sample ID ICSAB5	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSAB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286111							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.729	0.10	20.00	0	93.6	80	120				
Barium	19.602	1.0	20.00	0	98.0	80	120				
Manganese	19.371	0.50	20.00	0	96.9	80	120				
Zinc	18.738	10	20.00	0	93.7	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293423	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic ND 0.10

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293423	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic 19.505 0.10 20.00 0 97.5 80 120

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293434	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic ND 0.10

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293435	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic 19.198 0.10 20.00 0 96.0 80 120

Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293483	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Arsenic ND 0.10

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069583
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSAB3	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ICSAB	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293484							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.398	0.10	20.00	0	102	80	120				

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293520							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									

Sample ID ICSAB4	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ICSAB	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293521							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.844	0.10	20.00	0	94.2	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286835						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286835						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.496	1.0	20.00	0	97.5	80	120				
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Sample ID ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286845						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286846						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.363	1.0	20.00	0	96.8	80	120				
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Sample ID ICSA3	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286881						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICSAB3	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ICSAB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286882	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium 18.565 1.0 20.00 0 92.8 80 120

Sample ID ICSA4	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286925	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID ICSAB4	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ICSAB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286926	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium 18.601 1.0 20.00 0 93.0 80 120

Sample ID ICSA5	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286965	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID ICSAB5	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ICSAB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286966	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium 18.868 1.0 20.00 0 94.3 80 120

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

INTERNAL STANDARD SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

INTERNAL STANDARD: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	1386094.3	1386094.3	100	PASS	30-150	30750.5	30750.5	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	1381590.3	1386094.3	99.68	PASS	30-150	30550.1	30750.5	99.35	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	1388129.1	1386094.3	100.15	PASS	30-150	30119.4	30750.5	97.95	PASS	30-150
Std3-5/50 ppb	ICAL	1	1391676.6	1386094.3	100.4	PASS	30-150	30091.5	30750.5	97.86	PASS	30-150
Std4-10/100 ppb	ICAL	1	1399156.9	1386094.3	100.94	PASS	30-150	29964.6	30750.5	97.44	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	1396798.8	1386094.3	100.77	PASS	30-150	30468.9	30750.5	99.08	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	1391352.1	1386094.3	100.38	PASS	30-150	30167.2	30750.5	98.1	PASS	30-150
Std7-100/1000 ppb	ICAL	1	1369373.4	1386094.3	98.79	PASS	30-150	28974	30750.5	94.22	PASS	30-150
Std8-200/2000 ppb	ICAL	1	1340923	1386094.3	96.74	PASS	30-150	28449.8	30750.5	92.52	PASS	30-150
ICV	ICV	1	1425371	1386094.3	102.83	PASS	30-150	29290.1	30750.5	95.25	PASS	30-150
ICB	ICB	1	1415227.3	1386094.3	102.1	PASS	30-150	29825.5	30750.5	96.99	PASS	30-150
LLCCV1	CCV1	1	1427849.1	1386094.3	103.01	PASS	30-150	29663	30750.5	96.46	PASS	30-150
LLCCV1	CCV1	1	1412646.4	1386094.3	101.92	PASS	30-150	29506	30750.5	95.95	PASS	30-150
MLCCV1	CCV	1	1405928.3	1386094.3	101.43	PASS	30-150	29745.4	30750.5	96.73	PASS	30-150
ICSA1	ICSA	1	1297287.6	1386094.3	93.59	PASS	30-150	30173.9	30750.5	98.12	PASS	30-150
ICSA1	ICSA	1	1437607	1386094.3	103.72	PASS	30-150	31781.3	30750.5	103.35	PASS	30-150
ICSAB1	ICSAB	1	1445588.4	1386094.3	104.29	PASS	30-150	31837	30750.5	103.53	PASS	30-150
CCV1	CCV	1	1467535.5	1386094.3	105.88	PASS	30-150	29829.9	30750.5	97.01	PASS	30-150
CCB1	CCB	1	1455555.2	1386094.3	105.01	PASS	30-150	29388	30750.5	95.57	PASS	30-150
ICSA2	ICSA	1	1459223.7	1386094.3	105.28	PASS	30-150	29335.7	30750.5	95.4	PASS	30-150
ICSAB2	ICSAB	1	1477731.8	1386094.3	106.61	PASS	30-150	29310.2	30750.5	95.32	PASS	30-150
CCV2	CCV	1	1422636.3	1386094.3	102.64	PASS	30-150	28762.5	30750.5	93.54	PASS	30-150
CCB2	CCB	1	1369426.3	1386094.3	98.8	PASS	30-150	27768.7	30750.5	90.3	PASS	30-150
CCV3	CCV	1	1313932	1386094.3	94.79	PASS	30-150	32384.7	30750.5	105.31	PASS	30-150
CCB3	CCB	1	1308425.2	1386094.3	94.4	PASS	30-150	31519.7	30750.5	102.5	PASS	30-150
CCV4	CCV	1	1240470	1386094.3	89.49	PASS	30-150	30756.1	30750.5	100.02	PASS	30-150
CCB4	CCB	1	1244960.1	1386094.3	89.82	PASS	30-150	30394.3	30750.5	98.84	PASS	30-150
CCV5	CCV	1	1233203.5	1386094.3	88.97	PASS	30-150	31549.8	30750.5	102.6	PASS	30-150
CCB5	CCB	1	1242067.5	1386094.3	89.61	PASS	30-150	30885.2	30750.5	100.44	PASS	30-150
CCV6	CCV	1	1236127.8	1386094.3	89.18	PASS	30-150	30963.1	30750.5	100.69	PASS	30-150
CCB6	CCB	1	1236801.3	1386094.3	89.23	PASS	30-150	29991.3	30750.5	97.53	PASS	30-150
ICSA3	ICSA	1	1238401.6	1386094.3	89.34	PASS	30-150	30671.4	30750.5	99.74	PASS	30-150
ICSAB3	ICSAB	1	1271607	1386094.3	91.74	PASS	30-150	30025.8	30750.5	97.64	PASS	30-150
MB-113746	MBLK	1	1228174	1386094.3	88.61	PASS	30-150	28546.7	30750.5	92.83	PASS	30-150
LCS-113746	LCS	1	1247887.7	1386094.3	90.03	PASS	30-150	28741.4	30750.5	93.47	PASS	30-150
N069542-001B	SAMP	1	1044632	1386094.3	75.37	PASS	30-150	24462.4	30750.5	79.55	PASS	30-150
N069542-002B	SAMP	1	1017871.5	1386094.3	73.43	PASS	30-150	25182.4	30750.5	81.89	PASS	30-150
N069542-003B	SAMP	1	993981.9	1386094.3	71.71	PASS	30-150	24515.8	30750.5	79.72	PASS	30-150
N069582-002B	SAMP	1	781868.4	1386094.3	56.41	PASS	30-150	21997.8	30750.5	71.54	PASS	30-150
N069582-003B	SAMP	1	1078803.8	1386094.3	77.83	PASS	30-150	27391.4	30750.5	89.08	PASS	30-150
N069582-004B	SAMP	1	1097148.8	1386094.3	79.15	PASS	30-150	27238.9	30750.5	88.58	PASS	30-150

INTERNAL STANDARD: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
N069582-005B	SAMP	1	945645.1	1386094.3	68.22	PASS	30-150	24685	30750.5	80.28	PASS	30-150
CCV7	CCV	1	1149365.8	1386094.3	82.92	PASS	30-150	28826	30750.5	93.74	PASS	30-150
CCB7	CCB	1	1134847.5	1386094.3	81.87	PASS	30-150	28323	30750.5	92.11	PASS	30-150
N069582-006B	SAMP	1	854885.1	1386094.3	61.68	PASS	30-150	23515.5	30750.5	76.47	PASS	30-150
N069583-001B	SAMP	1	1125338.2	1386094.3	81.19	PASS	30-150	27363.5	30750.5	88.99	PASS	30-150
N069583-002B	SAMP	1	1001787.3	1386094.3	72.27	PASS	30-150	25213.5	30750.5	81.99	PASS	30-150
N069583-003B	SAMP	1	938241.4	1386094.3	67.69	PASS	30-150	24123	30750.5	78.45	PASS	30-150
N069583-003B	SAMP	5	1088768	1386094.3	78.55	PASS	30-150	27386.9	30750.5	89.06	PASS	30-150
N069583-003B-PS	PS	1	923055.3	1386094.3	66.59	PASS	30-150	24288.8	30750.5	78.99	PASS	30-150
N069583-003BMS	MS	1	929115	1386094.3	67.03	PASS	30-150	25807.7	30750.5	83.93	PASS	30-150
N069583-003BMSD	MSD	1	928834.5	1386094.3	67.01	PASS	30-150	25675.3	30750.5	83.5	PASS	30-150
N069583-004B	SAMP	1	901346.6	1386094.3	65.03	PASS	30-150	24934.2	30750.5	81.09	PASS	30-150
CCV8	CCV	1	1159706.3	1386094.3	83.67	PASS	30-150	30013.6	30750.5	97.6	PASS	30-150
CCB8	CCB	1	1169120.3	1386094.3	84.35	PASS	30-150	29026.3	30750.5	94.39	PASS	30-150
N069583-006B	SAMP	1	1103209	1386094.3	79.59	PASS	30-150	26039.2	30750.5	84.68	PASS	30-150
N069583-008B	SAMP	1	977464	1386094.3	70.52	PASS	30-150	23923.8	30750.5	77.8	PASS	30-150
N069583-009B	SAMP	1	843831	1386094.3	60.88	PASS	30-150	22827.8	30750.5	74.24	PASS	30-150
N069583-010B	SAMP	1	713659.9	1386094.3	51.49	PASS	30-150	20570.5	30750.5	66.89	PASS	30-150
N069585-001B	SAMP	1	1076715.5	1386094.3	77.68	PASS	30-150	28022.4	30750.5	91.13	PASS	30-150
CCV9	CCV	1	1165334	1386094.3	84.07	PASS	30-150	30059.2	30750.5	97.75	PASS	30-150
CCB9	CCB	1	1176816.1	1386094.3	84.9	PASS	30-150	29677.4	30750.5	96.51	PASS	30-150
ICSA4	ICSA	1	1207785.8	1386094.3	87.14	PASS	30-150	29351.3	30750.5	95.45	PASS	30-150
ICSAB4	ICSAB	1	1199268.9	1386094.3	86.52	PASS	30-150	29635.1	30750.5	96.37	PASS	30-150

INTERNAL STANDARD: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	17199.1	17199.1	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	17383.7	17199.1	101.07	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	17099	17199.1	99.42	PASS	30-150
Std3-5/50 ppb	ICAL	1	17053.4	17199.1	99.15	PASS	30-150
Std4-10/100 ppb	ICAL	1	16748.6	17199.1	97.38	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	16859.8	17199.1	98.03	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	16586.2	17199.1	96.44	PASS	30-150
Std7-100/1000 ppb	ICAL	1	16517.2	17199.1	96.04	PASS	30-150
Std8-200/2000 ppb	ICAL	1	15996.8	17199.1	93.01	PASS	30-150
ICV	ICV	1	16673	17199.1	96.94	PASS	30-150
ICB	ICB	1	16804.2	17199.1	97.7	PASS	30-150
LLCCV1	CCV1	1	16598.4	17199.1	96.51	PASS	30-150
LLCCV1	CCV1	1	16759.7	17199.1	97.45	PASS	30-150
MLCCV1	CCV	1	16531.7	17199.1	96.12	PASS	30-150
ICSA1	ICSA	1	16271.5	17199.1	94.61	PASS	30-150
ICSA1	ICSA	1	17651.8	17199.1	102.63	PASS	30-150
ICSAB1	ICSAB	1	17605.1	17199.1	102.36	PASS	30-150
CCV1	CCV	1	17122.3	17199.1	99.55	PASS	30-150
CCB1	CCB	1	17002.2	17199.1	98.86	PASS	30-150
ICSA2	ICSA	1	16799.8	17199.1	97.68	PASS	30-150
ICSAB2	ICSAB	1	17048.9	17199.1	99.13	PASS	30-150
CCV2	CCV	1	16337.1	17199.1	94.99	PASS	30-150
CCB2	CCB	1	15821	17199.1	91.99	PASS	30-150
CCV3	CCV	1	18001	17199.1	104.66	PASS	30-150
CCB3	CCB	1	17885.4	17199.1	103.99	PASS	30-150
CCV4	CCV	1	17333.7	17199.1	100.78	PASS	30-150
CCB4	CCB	1	17205.7	17199.1	100.04	PASS	30-150
CCV5	CCV	1	17848.7	17199.1	103.78	PASS	30-150
CCB5	CCB	1	17832	17199.1	103.68	PASS	30-150
CCV6	CCV	1	17563.9	17199.1	102.12	PASS	30-150
CCB6	CCB	1	17032.2	17199.1	99.03	PASS	30-150
ICSA3	ICSA	1	17340.3	17199.1	100.82	PASS	30-150
ICSAB3	ICSAB	1	17185.7	17199.1	99.92	PASS	30-150
MB-113746	MBLK	1	16419.4	17199.1	95.47	PASS	30-150
LCS-113746	LCS	1	16548.4	17199.1	96.22	PASS	30-150
N069542-001B	SAMP	1	13782.5	17199.1	80.14	PASS	30-150
N069542-002B	SAMP	1	13828.1	17199.1	80.4	PASS	30-150
N069542-003B	SAMP	1	13780.3	17199.1	80.12	PASS	30-150
N069582-002B	SAMP	1	12136.8	17199.1	70.57	PASS	30-150
N069582-003B	SAMP	1	15290.5	17199.1	88.9	PASS	30-150
N069582-004B	SAMP	1	15313.9	17199.1	89.04	PASS	30-150

INTERNAL STANDARD: 241101C

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
N069582-005B	SAMP	1	13594.6	17199.1	79.04	PASS	30-150
CCV7	CCV	1	16475	17199.1	95.79	PASS	30-150
CCB7	CCB	1	16328.2	17199.1	94.94	PASS	30-150
N069582-006B	SAMP	1	13179.8	17199.1	76.63	PASS	30-150
N069583-001B	SAMP	1	15535.2	17199.1	90.33	PASS	30-150
N069583-002B	SAMP	1	14351.9	17199.1	83.45	PASS	30-150
N069583-003B	SAMP	1	13446.7	17199.1	78.18	PASS	30-150
N069583-003B	SAMP	5	15537.4	17199.1	90.34	PASS	30-150
N069583-003B-PS	PS	1	13465.6	17199.1	78.29	PASS	30-150
N069583-003BMS	MS	1	14210.6	17199.1	82.62	PASS	30-150
N069583-003BMSD	MSD	1	13997.1	17199.1	81.38	PASS	30-150
N069583-004B	SAMP	1	13738	17199.1	79.88	PASS	30-150
CCV8	CCV	1	17446	17199.1	101.44	PASS	30-150
CCB8	CCB	1	16481.7	17199.1	95.83	PASS	30-150
N069583-006B	SAMP	1	15083.7	17199.1	87.7	PASS	30-150
N069583-008B	SAMP	1	13659.1	17199.1	79.42	PASS	30-150
N069583-009B	SAMP	1	12320.2	17199.1	71.63	PASS	30-150
N069583-010B	SAMP	1	11205	17199.1	65.15	PASS	30-150
N069585-001B	SAMP	1	16185.8	17199.1	94.11	PASS	30-150
CCV9	CCV	1	17117.9	17199.1	99.53	PASS	30-150
CCB9	CCB	1	17179.1	17199.1	99.88	PASS	30-150
ICSA4	ICSA	1	16805.3	17199.1	97.71	PASS	30-150
ICSAB4	ICSAB	1	16976.6	17199.1	98.71	PASS	30-150

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	16330.4	16330.4	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	16444.9	16330.4	100.7	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	16499.4	16330.4	101.04	PASS	30-150
Std3-5/50 ppb	ICAL	1	16386	16330.4	100.34	PASS	30-150
Std4-10/100 ppb	ICAL	1	16102.4	16330.4	98.6	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	16486.1	16330.4	100.95	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	15896.7	16330.4	97.34	PASS	30-150
Std7-100/1000 ppb	ICAL	1	15498.5	16330.4	94.91	PASS	30-150
Std8-200/2000 ppb	ICAL	1	15186	16330.4	92.99	PASS	30-150
ICV	ICV	1	15547.4	16330.4	95.21	PASS	30-150
ICB	ICB	1	14906.8	16330.4	91.28	PASS	30-150
LLCCV1	CCV1	1	15984.5	16330.4	97.88	PASS	30-150
LLCCV2	CCV1	1	16202.5	16330.4	99.22	PASS	30-150
MLCCV1	CCV	1	16255.9	16330.4	99.54	PASS	30-150
ICSA1	ICSA	1	16071.3	16330.4	98.41	PASS	30-150
ICSA1	ICSA	1	16109.1	16330.4	98.64	PASS	30-150
ICSAB1	ICSAB	1	15932.2	16330.4	97.56	PASS	30-150
CCV1	CCV	1	16217	16330.4	99.31	PASS	30-150
CCB1	CCB	1	16017.9	16330.4	98.09	PASS	30-150
ICSA2	ICSA	1	16200.3	16330.4	99.2	PASS	30-150
ICSAB2	ICSAB	1	16095.7	16330.4	98.56	PASS	30-150
CCV2	CCV	1	18084.5	16330.4	110.74	PASS	30-150
CCB2	CCB	1	17948.8	16330.4	109.91	PASS	30-150
CCV3	CCV	1	17583.9	16330.4	107.68	PASS	30-150
CCB3	CCB	1	17972.1	16330.4	110.05	PASS	30-150
CCV4	CCV	1	18471.6	16330.4	113.11	PASS	30-150
CCB4	CCB	1	17793	16330.4	108.96	PASS	30-150
ICSA3	ICSA	1	17878.7	16330.4	109.48	PASS	30-150
ICSAB3	ICSAB	1	17414.9	16330.4	106.64	PASS	30-150
MB-113746	MBLK	1	17080	16330.4	104.59	PASS	30-150
LCS-113746	LCS	1	17393.8	16330.4	106.51	PASS	30-150
N069542-001B	SAMP	10	15766.5	16330.4	96.55	PASS	30-150
N069542-002B	SAMP	10	15812.1	16330.4	96.83	PASS	30-150
N069542-003B	SAMP	10	15762.1	16330.4	96.52	PASS	30-150
N069582-002B	SAMP	1	13145.3	16330.4	80.5	PASS	30-150
N069582-003B	SAMP	1	15906.7	16330.4	97.41	PASS	30-150
N069582-004B	SAMP	1	15796.6	16330.4	96.73	PASS	30-150
N069582-005B	SAMP	1	14209.5	16330.4	87.01	PASS	30-150
CCV4	CCV	1	17409.3	16330.4	106.61	PASS	30-150
CCB4	CCB	1	16869.8	16330.4	103.3	PASS	30-150
N069582-006B	SAMP	1	13691.3	16330.4	83.84	PASS	30-150

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
N069583-001B	SAMP	1	15710.9	16330.4	96.21	PASS	30-150
N069583-001B	SAMP	10	15940	16330.4	97.61	PASS	30-150
N069583-002B	SAMP	1	14195.1	16330.4	86.92	PASS	30-150
N069583-002B	SAMP	10	15798.8	16330.4	96.74	PASS	30-150
N069583-003B	SAMP	1	13640.2	16330.4	83.53	PASS	30-150
N069583-003B	SAMP	5	15243.8	16330.4	93.35	PASS	30-150
N069583-003B	SAMP	10	15505.2	16330.4	94.95	PASS	30-150
N069583-003B	SAMP	50	15891.1	16330.4	97.31	PASS	30-150
CCV5	CCV	1	16845.4	16330.4	103.15	PASS	30-150
CCB5	CCB	1	16214.7	16330.4	99.29	PASS	30-150
N069583-003B-PS	PS	1	13257.6	16330.4	81.18	PASS	30-150
N069583-003B-PS	PS	10	15466.2	16330.4	94.71	PASS	30-150
N069583-003BMS	MS	1	13589	16330.4	83.21	PASS	30-150
N069583-003BMS	MS	10	15922.2	16330.4	97.5	PASS	30-150
N069583-003BMSD	MSD	1	13590.1	16330.4	83.22	PASS	30-150
N069583-003BMSD	MSD	10	15921.1	16330.4	97.49	PASS	30-150
N069583-004B	SAMP	1	13495.6	16330.4	82.64	PASS	30-150
N069583-004B	SAMP	10	15764.3	16330.4	96.53	PASS	30-150
N069583-006B	SAMP	1	14819	16330.4	90.74	PASS	30-150
CCV6	CCV	1	15974.5	16330.4	97.82	PASS	30-150
CCB6	CCB	1	16074.6	16330.4	98.43	PASS	30-150
N069583-008B	SAMP	1	13763.6	16330.4	84.28	PASS	30-150
N069583-008B	SAMP	10	15129.3	16330.4	92.65	PASS	30-150
N069583-009B	SAMP	1	12722.8	16330.4	77.91	PASS	30-150
N069583-009B	SAMP	10	15717.6	16330.4	96.25	PASS	30-150
N069583-010B	SAMP	1	11849.9	16330.4	72.56	PASS	30-150
N069583-010B	SAMP	100	16640.7	16330.4	101.9	PASS	30-150
N069585-001B	SAMP	1	16446.1	16330.4	100.71	PASS	30-150
CCV7	CCV	1	16984.4	16330.4	104	PASS	30-150
CCB7	CCB	1	16408.3	16330.4	100.48	PASS	30-150
ICSA4	ICSA	1	16159.1	16330.4	98.95	PASS	30-150
ICSAB4	ICSAB	1	15827.7	16330.4	96.92	PASS	30-150
CCV8	CCV	1	16861	16330.4	103.25	PASS	30-150
CCB8	CCB	1	15987.9	16330.4	97.9	PASS	30-150
CCV9	CCV	1	17377	16330.4	106.41	PASS	30-150
CCB9	CCB	1	17262.5	16330.4	105.71	PASS	30-150
CCV10	CCV	1	17232.4	16330.4	105.52	PASS	30-150
CCB10	CCB	1	16481.7	16330.4	100.93	PASS	30-150
CCV11	CCV	1	16592.9	16330.4	101.61	PASS	30-150
CCB11	CCB	1	15954.5	16330.4	97.7	PASS	30-150
ICSA5	ICSA	1	15833.3	16330.4	96.96	PASS	30-150

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
ICSAB5	ICSAB	1	15496.3	16330.4	94.89	PASS	30-150

INTERNAL STANDARD: 241105B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	15888.9	15888.9	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	15710.9	15888.9	98.88	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	15716.5	15888.9	98.91	PASS	30-150
Std3-5/50 ppb	ICAL	1	15534.1	15888.9	97.77	PASS	30-150
Std4-10/100 ppb	ICAL	1	15756.5	15888.9	99.17	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	15703.1	15888.9	98.83	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	15547.4	15888.9	97.85	PASS	30-150
Std7-100/1000 ppb	ICAL	1	15260.5	15888.9	96.05	PASS	30-150
Std8-200/2000 ppb	ICAL	1	15210.4	15888.9	95.73	PASS	30-150
ICV	ICV	1	16022.3	15888.9	100.84	PASS	30-150
ICB	ICB	1	15748.7	15888.9	99.12	PASS	30-150
LLCCV1	CCV1	1	15783.2	15888.9	99.33	PASS	30-150
LLCCV2	CCV1	1	16176.9	15888.9	101.81	PASS	30-150
MLCCV1	CCV	1	15278.3	15888.9	96.16	PASS	30-150
ICSA1	ICSA	1	16009	15888.9	100.76	PASS	30-150
ICSAB1	ICSAB	1	15943.4	15888.9	100.34	PASS	30-150
CCV1	CCV	1	15724.3	15888.9	98.96	PASS	30-150
CCB1	CCB	1	15388.4	15888.9	96.85	PASS	30-150
ICSA2	ICSA	1	16109.1	15888.9	101.39	PASS	30-150
ICSAB2	ICSAB	1	15911.1	15888.9	100.14	PASS	30-150
CCV2	CCV	1	15558.5	15888.9	97.92	PASS	30-150
CCB2	CCB	1	15545.2	15888.9	97.84	PASS	30-150
CCV3	CCV	1	15672	15888.9	98.63	PASS	30-150
CCB3	CCB	1	15445.1	15888.9	97.21	PASS	30-150
CCV4	CCV	1	15849.9	15888.9	99.75	PASS	30-150
CCB4	CCB	1	15727.6	15888.9	98.98	PASS	30-150
CCV5	CCV	1	15420.6	15888.9	97.05	PASS	30-150
CCB5	CCB	1	15709.8	15888.9	98.87	PASS	30-150
CCV6	CCV	1	15479.6	15888.9	97.42	PASS	30-150
CCB6	CCB	1	15430.7	15888.9	97.12	PASS	30-150
ICSA3	ICSA	1	15716.5	15888.9	98.91	PASS	30-150
ICSAB3	ICSAB	1	15657.5	15888.9	98.54	PASS	30-150
N069583-003B	SAMP	1	13014.1	15888.9	81.91	PASS	30-150
N069583-003B	SAMP	1	13088.6	15888.9	82.38	PASS	30-150
N069583-003B	SAMP	1	13134.2	15888.9	82.66	PASS	30-150
CCV7	CCV	1	16386	15888.9	103.13	PASS	30-150
CCB7	CCB	1	15853.3	15888.9	99.78	PASS	30-150
CCV8	CCV	1	15698.7	15888.9	98.8	PASS	30-150
CCB8	CCB	1	15605.3	15888.9	98.22	PASS	30-150
CCV9	CCV	1	15618.6	15888.9	98.3	PASS	30-150
CCB9	CCB	1	15601.9	15888.9	98.19	PASS	30-150

INTERNAL STANDARD: 241105B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
ICSA4	ICSA	1	15911.1	15888.9	100.14	PASS	30-150
ICSAB4	ICSAB	1	15811	15888.9	99.51	PASS	30-150

SERIAL DILUTION/ POST DIGESTION SPIKE



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ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N069585
 Test Method: EPA 6020
 Analysis Date: 11/1 & 3/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 113746

Instrument ID: NV00922-ICP8 (ICPMS-03)
 Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069583-003B DT 5x	Barium	Ba	µg/L	44.60151	PASS	41.58536	7.25%	10
N069583-003B DT 5x	Zinc	Zn	µg/L	181.1554	NA	1.035078	17401.62%	10
N069583-003B DT 5x	Arsenic	As	µg/L	1.130018	NA	1.294523	12.71%	10
N069583-003B DT 5x	Chromium	Cr	µg/L	0	NA	0		10
N069583-003B DT 50x	Manganese	Mn	µg/L	456.8206	PASS	446.5084	2.31%	10

Reviewed by:



12/21/2024

Note: NA - Not Applicable

12/03/24 21:59

N069585_6020_113746_DT

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID N069583-003B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195133						
Client ID: ZZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/2/2024	SeqNo: 6283017						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	52.141	1.0	10.00	41.59	106	80	120				

Sample ID N069583-003B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ZZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286050						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	83.774	10	100.0	1.035	82.7	80	120				

Sample ID N069583-003B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ZZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286051						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	1340.810	5.0	1000	446.5	89.4	80	120				

Sample ID N069583-003B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ZZZZZZ	Batch ID: 113746	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6293881						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.536	0.10	10.00	1.295	92.4	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069585
Project: PG&E Topock - Phase2B, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID N069583-003B-PS	SampType: PS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ZZZZZZ	Batch ID: 113746	TestNo: EPA 6020	EPA 3010A	Analysis Date: 11/4/2024	SeqNo: 6286905						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.171	1.0	10.00	0	91.7	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

MDL STUDY



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Method Detection Limit

Analytical Method: **EPA 6020B**
 Digestion Method: **3010**
 Date of Analysis: **2/15-2/19/2024**
 Digestion Date: **2/15-2/19/2024**
 Instrument Name: **NV0922-ICP8**
 Analysts: **DJ**

Matrix: **Water**
 Unit: **ug/L**

Analyte	1	2	3	4	5	6	7	AMT SPIKED, ppb	SD	MDLs	PQL	MDL
ANTIMONY	0.543	0.521	0.559	0.527	0.573	0.559	0.572	0.50	0.0208	0.0653	0.50	0.0653
ARSENIC	0.102	0.123	0.107	0.116	0.096	0.161	0.115	0.10	0.0212	0.0668	0.10	0.0668
BARIUM	1.103	1.065	1.083	1.081	1.094	1.066	1.060	1.00	0.0159	0.0499	1.00	0.0499
BERYLLIUM	0.533	0.524	0.557	0.541	0.564	0.565	0.502	0.50	0.0233	0.0733	0.50	0.0733
CADMIUM	0.523	0.562	0.529	0.559	0.491	0.544	0.533	0.50	0.0243	0.0763	0.50	0.0763
CHROMIUM	1.015	0.996	1.000	1.100	1.030	1.081	1.052	1.00	0.0402	0.1264	1.00	0.1264
COBALT	0.524	0.523	0.541	0.559	0.528	0.534	0.551	0.50	0.0138	0.0433	0.50	0.0433
COPPER	1.043	1.028	1.026	1.016	1.068	1.098	1.021	1.00	0.0301	0.0947	1.00	0.0947
IRON	11.041	10.660	10.783	11.168	10.989	10.919	10.802	10.00	0.1734	0.5449	10.00	0.5449
LEAD	1.076	1.068	1.091	1.077	1.083	1.040	1.040	1.00	0.0203	0.0637	1.00	0.0637
MANGANESE	0.558	0.529	0.519	0.541	0.532	0.525	0.554	0.50	0.0148	0.0465	0.50	0.0465
MOLYBDENUM	0.564	0.571	0.574	0.537	0.518	0.554	0.550	0.50	0.0200	0.0629	0.50	0.0629
NICKEL	1.025	1.059	1.057	0.947	0.974	1.069	1.036	1.00	0.0465	0.1461	1.00	0.1461
SELENIUM	0.679	0.622	0.547	0.429	0.439	0.552	0.506	0.50	0.0911	0.2863	0.50	0.2863
SILVER	0.525	0.538	0.555	0.545	0.551	0.530	0.518	0.50	0.0140	0.0439	0.50	0.0439
THALLIUM	0.503	0.493	0.491	0.555	0.525	0.504	0.499	0.50	0.0227	0.0713	0.50	0.0713
URANIUM	0.517	0.513	0.528	0.542	0.526	0.533	0.523	0.50	0.0097	0.0306	0.50	0.0306
VANADIUM	1.081	1.076	1.027	1.054	1.069	1.043	1.080	1.00	0.0209	0.0658	1.00	0.0658
ZINC	10.646	10.643	10.661	10.514	10.927	10.516	10.419	10.00	0.1631	0.5126	10.00	0.7534
ALUMINUM	10.305	10.064	10.146	10.336	10.592	10.459	10.670	10.00	0.2224	0.6990	10.00	0.6990



Method Detection Limit (Blanks)

Analyte	1	2	3	4	5	6	7	Mean	SD	MDLb
ANTIMONY	0.011	0.009	0.001	0.001	0.003	0.018	0.012	0.0080	0.0065	0.0285
ARSENIC	0.021	0.013	0.004	0.008	0.000	0.001	0.000	0.0067	0.0079	0.0316
BARIUM	0.000	0.018	0.014	0.000	0.003	0.001	0.003	0.0054	0.0072	0.0280
BERYLLIUM	0.003	0.005	0.007	0.002	0.005	0.014	0.003	0.0057	0.0039	0.0179
CADMIUM	0.000	0.002	0.000	0.000	0.000	0.001	0.000	0.0004	0.0007	0.0026
CHROMIUM	0.000	0.000	0.000	0.000	0.000	0.001	0.004	0.0008	0.0016	0.0059
COBALT	0.000	0.000	0.000	0.000	0.000	0.003	0.001	0.0006	0.0012	0.0042
COPPER	0.000	0.000	0.069	0.000	0.010	0.000	0.000	0.0113	0.0258	0.0924
IRON	0.000	0.000	0.000	0.236	0.187	0.020	0.112	0.0792	0.0996	0.3922
LEAD	0.001	0.000	0.000	0.002	0.001	0.001	0.001	0.0011	0.0009	0.0037
MANGANESE	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.0008	0.0020	0.0071
MOLYBDENUM	0.017	0.013	0.007	0.015	0.004	0.022	0.009	0.0126	0.0062	0.0321
NICKEL	0.000	0.000	0.062	0.000	0.000	0.017	0.013	0.0132	0.0228	0.0849
SELENIUM	0.007	0.027	0.000	0.000	0.019	0.000	0.013	0.0093	0.0107	0.0428
SILVER	0.004	0.002	0.002	0.000	0.000	0.001	0.000	0.0012	0.0014	0.0057
THALLIUM	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.0003	0.0008	0.0028
URANIUM	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.0001	0.0004	0.0013
VANADIUM	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.0003	0.0004	0.0016
ZINC	0.000	0.000	0.257	0.175	0.513	0.000	0.000	0.1350	0.1968	0.7534
ALUMINUM	0.000	0.000	0.106	0.000	0.000	0.170	0.295	0.0816	0.1160	0.4460

Note: Higher value between **MDLs** and **MDLb** will be used.



LOD PQL VERIFICATION 2024

Analytical Method: EPA 6020 / 200.8
Digestion Method: EPA 3010A
Date of Analysis: 1/20/2024
Digestion Date: 1/20/2024
Instrument Name: ICPMS3
Analysts: DBJ

Matrix: Water
Units: ug/L

N062388

Analyte	MDLs	LOD	ACTUAL LOD	PQL	ACTUAL PQL	% RECOVERY
ANTIMONY	0.0652	0.025	0.288	0.50	0.552	110
ARSENIC	0.0667	0.050	0.055	0.10	0.107	107
BARIUM	0.0498	0.500	0.547	1.00	1.049	105
BERYLLIUM	0.0732	0.250	0.253	0.50	0.502	100
CADMIUM	0.0763	0.250	0.255	0.50	0.498	100
CHROMIUM	0.1263	0.500	0.536	1.00	1.048	105
COBALT	0.0433	0.250	0.261	0.50	0.518	104
COPPER	0.0946	0.100	0.620	1.00	0.941	94
IRON	0.5444	5.000	5.219	10.00	10.531	105
LEAD	0.0636	0.500	0.513	1.00	1.035	104
MANGANESE	0.0464	0.250	0.261	0.50	0.602	120
MOLYBDENUM	0.0628	0.250	0.275	0.50	0.534	107
NICKEL	0.1460	0.500	0.492	1.00	1.184	118
SELENIUM	0.2861	0.250	0.272	0.50	0.536	107
SILVER	0.0438	0.250	0.277	0.50	0.534	107
THALLIUM	0.0712	0.250	0.264	0.50	0.508	102
URANIUM	0.0306	0.250	0.261	0.50	0.523	105
VANADIUM	0.0657	0.500	0.557	1.00	1.063	106
ZINC	0.5121	5.000	5.394	10.00	10.481	105
ALUMINUM	0.6983	5.000	5.519	10.00	10.395	104

ARCADIS

Project: PG&E Topock - PCM

Project No.: 30211191

ASSET Laboratories Work Order:

N069631

ANALYTICAL and QC RESULTS SAMPLE RECEIVING ITEMS

PRIVILEGED AND CONFIDENTIAL



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ASSET Laboratories Work Order: N069631

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November 18, 2024

Laura Madsen
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661
TEL: 1 720 344 3771
FAX:

Workorder No.: N069631

RE: PG&E Topock - PCM, 30211191

Attention: Laura Madsen

Enclosed are the results for sample(s) received on October 31, 2024 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

The reported results relate only to the samples as received and parameters tested by the laboratory.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,



Nancy Sibucan
Laboratory Director

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CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30211191
Lab Order: N069631

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 218.6:

Dilution was necessary for some samples due to matrix interference. Samples were analyzed at lower dilution however matrix spike recovery and/or retention time criteria were not met indicating possible matrix interference. Samples were reported at dilution that meets matrix spike recovery limit and the detected peak within retention time window.

Analytical Comments for EPA 6020_Dissolved:

Sample N069629-001 (sample reference) was reanalyzed several times due to RSD not meeting the <15% criteria for analyte Arsenic. Arsenic was reported at 0.143 ug/L with the lowest RSD of 28.26%. The results are comparable on all runs. See Corrective Action Report 8175.

Sample N069631-012 was reanalyzed several times due to RSD not meeting the <15% criteria for analyte Arsenic. Arsenic was reported at 0.367ug/L with the lowest RSD of 15.99 %. The results are comparable on all runs. See Corrective Action Report 7311.



ASSET Laboratories

Date: 18-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30211191
Lab Order: N069631
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N069631-001A	MW-52D-EB-Q424	Groundwater	10/31/2024 12:35:00 PM	10/31/2024	11/18/2024
N069631-002A	MW-52M-EB-Q424	Groundwater	10/31/2024 12:10:00 PM	10/31/2024	11/18/2024
N069631-003A	MW-52S-EB-Q424	Groundwater	10/31/2024 11:25:00 AM	10/31/2024	11/18/2024
N069631-004A	MW-53D-EB-Q424	Groundwater	10/31/2024 10:50:00 AM	10/31/2024	11/18/2024
N069631-005A	MW-53M-EB-Q424	Groundwater	10/31/2024 10:20:00 AM	10/31/2024	11/18/2024
N069631-006A	MW-43-075-EB-Q424	Groundwater	10/31/2024 9:37:00 AM	10/31/2024	11/18/2024
N069631-007A	MW-43-090-EB-Q424	Groundwater	10/31/2024 9:05:00 AM	10/31/2024	11/18/2024
N069631-008A	MW-52D-Q424	Groundwater	10/31/2024 12:55:00 PM	10/31/2024	11/18/2024
N069631-008B	MW-52D-Q424	Groundwater	10/31/2024 12:55:00 PM	10/31/2024	11/18/2024
N069631-008C	MW-52D-Q424	Groundwater	10/31/2024 12:55:00 PM	10/31/2024	11/18/2024
N069631-009A	MW-52M-Q424	Groundwater	10/31/2024 12:28:00 PM	10/31/2024	11/18/2024
N069631-009B	MW-52M-Q424	Groundwater	10/31/2024 12:28:00 PM	10/31/2024	11/18/2024
N069631-009C	MW-52M-Q424	Groundwater	10/31/2024 12:28:00 PM	10/31/2024	11/18/2024
N069631-010A	MW-52S-Q424	Groundwater	10/31/2024 11:46:00 AM	10/31/2024	11/18/2024
N069631-010B	MW-52S-Q424	Groundwater	10/31/2024 11:46:00 AM	10/31/2024	11/18/2024
N069631-010C	MW-52S-Q424	Groundwater	10/31/2024 11:46:00 AM	10/31/2024	11/18/2024
N069631-011A	MW-53D-Q424	Groundwater	10/31/2024 11:11:00 AM	10/31/2024	11/18/2024
N069631-011B	MW-53D-Q424	Groundwater	10/31/2024 11:11:00 AM	10/31/2024	11/18/2024
N069631-011C	MW-53D-Q424	Groundwater	10/31/2024 11:11:00 AM	10/31/2024	11/18/2024
N069631-012A	MW-53M-Q424	Groundwater	10/31/2024 10:39:00 AM	10/31/2024	11/18/2024
N069631-012B	MW-53M-Q424	Groundwater	10/31/2024 10:39:00 AM	10/31/2024	11/18/2024
N069631-012C	MW-53M-Q424	Groundwater	10/31/2024 10:39:00 AM	10/31/2024	11/18/2024
N069631-013A	MW-43-075-Q424	Groundwater	10/31/2024 9:56:00 AM	10/31/2024	11/18/2024
N069631-013B	MW-43-075-Q424	Groundwater	10/31/2024 9:56:00 AM	10/31/2024	11/18/2024
N069631-013C	MW-43-075-Q424	Groundwater	10/31/2024 9:56:00 AM	10/31/2024	11/18/2024
N069631-014A	MW-43-090-Q424	Groundwater	10/31/2024 9:24:00 AM	10/31/2024	11/18/2024
N069631-014B	MW-43-090-Q424	Groundwater	10/31/2024 9:24:00 AM	10/31/2024	11/18/2024
N069631-014C	MW-43-090-Q424	Groundwater	10/31/2024 9:24:00 AM	10/31/2024	11/18/2024
N069631-015A	EB-715-Q424	Groundwater	10/31/2024 2:02:00 PM	10/31/2024	11/18/2024



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ANALYTICAL RESULTS

Print Date: 18-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069631
Project: PG&E Topock - PCM, 30211191
Lab ID: N069631-001

Client Sample ID: MW-52D-EB-Q424
Collection Date: 10/31/2024 12:35:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241101A	QC Batch: R195173			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	11/1/2024 08:46 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 18-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069631
Project: PG&E Topock - PCM, 30211191
Lab ID: N069631-002

Client Sample ID: MW-52M-EB-Q424
Collection Date: 10/31/2024 12:10:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241101A	QC Batch: R195173			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	11/1/2024 09:05 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 18-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069631
Project: PG&E Topock - PCM, 30211191
Lab ID: N069631-003

Client Sample ID: MW-52S-EB-Q424
Collection Date: 10/31/2024 11:25:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241101A	QC Batch: R195173	PrepDate:	Analyst: RAB
Hexavalent Chromium	ND 0.039	0.20	µg/L 1 11/1/2024 09:24 PM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 18-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069631
Project: PG&E Topock - PCM, 30211191
Lab ID: N069631-004

Client Sample ID: MW-53D-EB-Q424
Collection Date: 10/31/2024 10:50:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241101A	QC Batch: R195173			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	11/1/2024 09:43 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 18-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069631
Project: PG&E Topock - PCM, 30211191
Lab ID: N069631-005

Client Sample ID: MW-53M-EB-Q424
Collection Date: 10/31/2024 10:20:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241101A	QC Batch: R195173	PrepDate:	Analyst: RAB
Hexavalent Chromium	ND 0.039	0.20	µg/L 1 11/1/2024 10:20 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 18-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069631
Project: PG&E Topock - PCM, 30211191
Lab ID: N069631-006

Client Sample ID: MW-43-075-EB-Q424
Collection Date: 10/31/2024 9:37:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241101A	QC Batch: R195173	PrepDate:	Analyst: RAB
Hexavalent Chromium	ND 0.039 0.20	µg/L	1 11/1/2024 10:39 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 18-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069631
Project: PG&E Topock - PCM, 30211191
Lab ID: N069631-007

Client Sample ID: MW-43-090-EB-Q424
Collection Date: 10/31/2024 9:05:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241101A	QC Batch: R195173				PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20		µg/L	1	11/1/2024 10:58 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 18-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069631
Project: PG&E Topock - PCM, 30211191
Lab ID: N069631-008

Client Sample ID: MW-52D-Q424
Collection Date: 10/31/2024 12:55:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241101A	QC Batch: R195173				PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.19	1.0		µg/L	5	11/1/2024 03:32 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113831				PrepDate: 11/3/2024		Analyst: DJ
Chromium	ND	0.13	1.0		µg/L	1	11/4/2024 10:56 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 18-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069631
Project: PG&E Topock - PCM, 30211191
Lab ID: N069631-009

Client Sample ID: MW-52M-Q424
Collection Date: 10/31/2024 12:28:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241101A	QC Batch: R195173				PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.19	1.0		µg/L	5	11/1/2024 04:40 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113831				PrepDate: 11/3/2024		Analyst: DJ
Chromium	ND	0.13	1.0		µg/L	1	11/4/2024 11:20 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069631
Project: PG&E Topock - PCM, 30211191
Lab ID: N069631-010

Client Sample ID: MW-52S-Q424
Collection Date: 10/31/2024 11:46:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241101A	QC Batch: R195173				PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.19	1.0		µg/L	5	11/1/2024 05:18 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113831				PrepDate: 11/3/2024		Analyst: DJ
Chromium	ND	0.13	1.0		µg/L	1	11/4/2024 11:26 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 18-Nov-24

CLIENT: ARCADIS U.S., Inc. - California	Client Sample ID: MW-53D-Q424
Lab Order: N069631	
Project: PG&E Topock - PCM, 30211191	Collection Date: 10/31/2024 11:11:00 AM
Lab ID: N069631-011	Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241101A	QC Batch: R195173	PrepDate:	Analyst: RAB
Hexavalent Chromium	ND 0.19	1.0	µg/L 5 11/1/2024 05:56 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113831	PrepDate: 11/3/2024	Analyst: DJ
Chromium	ND 0.13	1.0	µg/L 1 11/4/2024 11:32 AM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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ANALYTICAL RESULTS

Print Date: 18-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069631
Project: PG&E Topock - PCM, 30211191
Lab ID: N069631-012

Client Sample ID: MW-53M-Q424
Collection Date: 10/31/2024 10:39:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241101A	QC Batch: R195173				PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.19	1.0		µg/L	5	11/1/2024 06:52 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113831				PrepDate: 11/3/2024		Analyst: DJ
Chromium	ND	0.13	1.0		µg/L	1	11/4/2024 11:38 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 18-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069631
Project: PG&E Topock - PCM, 30211191
Lab ID: N069631-013

Client Sample ID: MW-43-075-Q424
Collection Date: 10/31/2024 9:56:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241101A	QC Batch: R195173				PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.19	1.0		µg/L	5	11/1/2024 07:30 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113831				PrepDate: 11/3/2024		Analyst: DJ
Chromium	ND	0.13	1.0		µg/L	1	11/4/2024 11:44 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 18-Nov-24

CLIENT:	ARCADIS U.S., Inc. - California	Client Sample ID:	MW-43-090-Q424
Lab Order:	N069631		
Project:	PG&E Topock - PCM, 30211191	Collection Date:	10/31/2024 9:24:00 AM
Lab ID:	N069631-014	Matrix:	GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241101A	QC Batch: R195173			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.19	1.0	µg/L	5	11/1/2024 08:27 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113831			PrepDate: 11/3/2024		Analyst: DJ
Chromium	ND	0.13	1.0	µg/L	1	11/4/2024 11:50 AM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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ANALYTICAL RESULTS

Print Date: 18-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069631
Project: PG&E Topock - PCM, 30211191
Lab ID: N069631-015

Client Sample ID: EB-715-Q424
Collection Date: 10/31/2024 2:02:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241104A	QC Batch: R195216			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	11/4/2024 03:41 PM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID MB-R195173	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: PBW	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285586							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.039	0.20									

Sample ID LCS-R195173	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: LCSW	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285587							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.841	0.039	0.20	5.000	0	96.8	90	110				

Sample ID N069582-004ADUP	SampType: DUP	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZ	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285589							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	438.095	1.9	10						438.3	0.0399	20	

Sample ID N069582-004AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZ	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285590							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	677.400	1.9	10	250.0	438.3	95.7	90	110				

Sample ID N069629-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZ	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285595							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.057	0.039	0.20	1.000	0	106	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069582-006AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZZ	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285596							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	589.385	1.9	10	250.0	336.0	101	90	110				

Sample ID N069582-006AMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZZ	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285597							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	586.425	1.9	10	250.0	336.0	100	90	110	589.4	0.503	20	

Sample ID N069582-005AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZZ	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285599							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1337.330	3.9	20	500.0	842.1	99.1	90	110				

Sample ID N069629-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZZ	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285601							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.938	0.039	0.20	1.000	1.966	97.2	90	110				

Sample ID N069629-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZZ	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285605							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.928	0.039	0.20	1.000	1.915	101	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| (M) Test is modified | | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069631-008AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZZ	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285607							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.732	0.19	1.0	5.000	0	94.6	90	110
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Sample ID N069631-009AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZZ	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285611							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.044	0.19	1.0	5.000	0	101	90	110
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Sample ID N069631-010AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZZ	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285613							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.834	0.19	1.0	5.000	0	96.7	90	110
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Sample ID N069631-011AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZZ	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285615							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.852	0.19	1.0	5.000	0	97.0	90	110
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Sample ID N069631-012AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZZ	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285619							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.969	0.19	1.0	5.000	0	99.4	90	110
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| (M) Test is modified | | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069631-013AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZ	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285621							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.131	0.19	1.0	5.000	0	103	90	110
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Sample ID N069631-014AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZ	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285625							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.830	0.19	1.0	5.000	0	96.6	90	110
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Sample ID N069631-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZ	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285627							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	1.107	0.039	0.20	1.000	0.07280	103	90	110
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Sample ID N069631-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZ	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285629							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	1.077	0.039	0.20	1.000	0	108	90	110
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Sample ID N069631-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZ	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285631							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	1.061	0.039	0.20	1.000	0	106	90	110
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| (M) Test is modified | | |



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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069631-004AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZ	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285633								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.119	0.039	0.20	1.000	0.06170	106	90	110				

Sample ID N069631-005AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZ	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285637								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.099	0.039	0.20	1.000	0	110	90	110				

Sample ID N069631-006AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZ	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285639								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.105	0.039	0.20	1.000	0.08950	102	90	110				

Sample ID N069631-007AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173							
Client ID: ZZZZZ	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285641								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.068	0.039	0.20	1.000	0	107	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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 ORELAP Cert 4046

“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID MB-R195216	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216							
Client ID: PBW	Batch ID: R195216	TestNo: EPA 218.6		Analysis Date: 11/4/2024	SeqNo: 6287789							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	ND	0.039	0.20									
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Sample ID LCS-R195216	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216							
Client ID: LCSW	Batch ID: R195216	TestNo: EPA 218.6		Analysis Date: 11/4/2024	SeqNo: 6287790							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.735	0.039	0.20	5.000	0	94.7	90	110				
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Sample ID N069263-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216							
Client ID: ZZZZZ	Batch ID: R195216	TestNo: EPA 218.6		Analysis Date: 11/4/2024	SeqNo: 6287792							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	1.054	0.039	0.20	1.000	0	105	90	110				
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Sample ID N069638-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216							
Client ID: ZZZZZ	Batch ID: R195216	TestNo: EPA 218.6		Analysis Date: 11/4/2024	SeqNo: 6287794							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	35.055	0.19	1.0	25.00	10.80	97.0	90	110				
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Sample ID N069638-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216							
Client ID: ZZZZZ	Batch ID: R195216	TestNo: EPA 218.6		Analysis Date: 11/4/2024	SeqNo: 6287796							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	44.144	0.19	1.0	25.00	18.35	103	90	110				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| (M) Test is modified | | |



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Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069638-001ADUP	SampType: DUP	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216							
Client ID: ZZZZZZ	Batch ID: R195216	TestNo: EPA 218.6		Analysis Date: 11/4/2024	SeqNo: 6287799							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	11.491	0.19	1.0						10.80	6.20	20	

Sample ID N069638-001AMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216							
Client ID: ZZZZZZ	Batch ID: R195216	TestNo: EPA 218.6		Analysis Date: 11/4/2024	SeqNo: 6287800							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	35.061	0.19	1.0	25.00	10.80	97.0	90	110	35.06	0.0157	20	

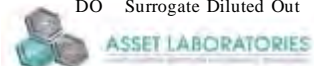
Sample ID N069638-007AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216							
Client ID: ZZZZZZ	Batch ID: R195216	TestNo: EPA 218.6		Analysis Date: 11/4/2024	SeqNo: 6287802							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.228	0.039	0.20	1.000	0.1455	108	90	110				

Sample ID N069638-008AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216							
Client ID: ZZZZZZ	Batch ID: R195216	TestNo: EPA 218.6		Analysis Date: 11/4/2024	SeqNo: 6287804							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.079	0.039	0.20	1.000	0	108	90	110				

Sample ID N069631-015AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216							
Client ID: ZZZZZZ	Batch ID: R195216	TestNo: EPA 218.6		Analysis Date: 11/4/2024	SeqNo: 6287806							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.053	0.039	0.20	1.000	0	105	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| (M) Test is modified | | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069638-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216							
Client ID: ZZZZZZ	Batch ID: R195216	TestNo: EPA 218.6		Analysis Date: 11/4/2024	SeqNo: 6287810							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.034	0.19	1.0	5.000	0	101	90	110
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Sample ID N069638-009AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216							
Client ID: ZZZZZZ	Batch ID: R195216	TestNo: EPA 218.6		Analysis Date: 11/4/2024	SeqNo: 6287811							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.275	0.19	1.0	5.000	0	105	90	110
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Sample ID N069638-004AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216							
Client ID: ZZZZZZ	Batch ID: R195216	TestNo: EPA 218.6		Analysis Date: 11/4/2024	SeqNo: 6287814							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	1.062	0.039	0.20	1.000	0	106	90	110
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Sample ID N069638-005AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216							
Client ID: ZZZZZZ	Batch ID: R195216	TestNo: EPA 218.6		Analysis Date: 11/4/2024	SeqNo: 6287816							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	1.095	0.039	0.20	1.000	0	110	90	110
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Sample ID N069638-006AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216							
Client ID: ZZZZZZ	Batch ID: R195216	TestNo: EPA 218.6		Analysis Date: 11/4/2024	SeqNo: 6287820							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	1.091	0.039	0.20	1.000	0	109	90	110
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| (M) Test is modified | | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069638-010AMS	SampType: MS	TestCode: 218.6_WPGE Units: µg/L				Prep Date:	RunNo: 195216					
Client ID: ZZZZZZ	Batch ID: R195216	TestNo: EPA 218.6				Analysis Date: 11/4/2024	SeqNo: 6287822					
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.076	0.039	0.20	1.000	0	108	90	110				

Sample ID N069306-014AMS	SampType: MS	TestCode: 218.6_WPGE Units: µg/L				Prep Date:	RunNo: 195216					
Client ID: ZZZZZZ	Batch ID: R195216	TestNo: EPA 218.6				Analysis Date: 11/4/2024	SeqNo: 6287826					
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	7.550	0.039	0.20	5.000	2.420	103	90	110				

Sample ID N069306-014AMSD	SampType: MSD	TestCode: 218.6_WPGE Units: µg/L				Prep Date:	RunNo: 195216					
Client ID: ZZZZZZ	Batch ID: R195216	TestNo: EPA 218.6				Analysis Date: 11/4/2024	SeqNo: 6287827					
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	7.716	0.039	0.20	5.000	2.420	106	90	110	7.550	2.17	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID MB-113831	SampType: MBLK	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 11/3/2024	RunNo: 195188							
Client ID: PBW	Batch ID: 113831	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286927							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium ND 0.13 1.0

Sample ID LCS-113831	SampType: LCS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 11/3/2024	RunNo: 195188							
Client ID: LCSW	Batch ID: 113831	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286928							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 9.704 0.13 1.0 10.00 0 97.0 85 115

Sample ID N069629-001B-MS	SampType: MS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 11/3/2024	RunNo: 195188							
Client ID: ZZZZZ	Batch ID: 113831	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286932							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 11.963 0.13 1.0 10.00 2.803 91.6 75 125

Sample ID N069629-001B-MSD	SampType: MSD	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 11/3/2024	RunNo: 195188							
Client ID: ZZZZZ	Batch ID: 113831	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286933							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 11.870 0.13 1.0 10.00 2.803 90.7 75 125 11.96 0.786 20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



ASSET LABORATORIES

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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069631
Project: PG&E Topock - PCM, 30211191
Lab ID: N069631-008

Client Sample ID: MW-52D-Q424
Collection Date: 10/31/2024 12:55:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241101A	QC Batch: R195096	PrepDate:	Analyst: RAB
Nitrate as N	ND 0.24	0.50	mg/L 10 11/1/2024 11:28 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 18-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069631
Project: PG&E Topock - PCM, 30211191
Lab ID: N069631-009

Client Sample ID: MW-52M-Q424
Collection Date: 10/31/2024 12:28:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241101A	QC Batch: R195096	PrepDate:	Analyst: RAB
Nitrate as N	ND 0.24	0.50	mg/L 10 11/1/2024 11:44 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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 3151 W. Post Rd., Las Vegas, NV 89118
 ELAP Cert 2676 | NV Cert NV00922
 ORELAP Cert 4046

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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069631
Project: PG&E Topock - PCM, 30211191
Lab ID: N069631-010

Client Sample ID: MW-52S-Q424
Collection Date: 10/31/2024 11:46:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241101A	QC Batch: R195096	PrepDate:	Analyst: RAB
Nitrate as N	ND 0.24	0.50	mg/L 10 11/1/2024 12:01 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 18-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069631
Project: PG&E Topock - PCM, 30211191
Lab ID: N069631-011

Client Sample ID: MW-53D-Q424
Collection Date: 10/31/2024 11:11:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241101A	QC Batch: R195096	PrepDate:	Analyst: RAB
Nitrate as N	ND 0.24	0.50	mg/L 10 11/1/2024 12:17 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 18-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069631
Project: PG&E Topock - PCM, 30211191
Lab ID: N069631-012

Client Sample ID: MW-53M-Q424
Collection Date: 10/31/2024 10:39:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241101A	QC Batch: R195096	PrepDate:	Analyst: RAB
Nitrate as N	ND 0.24	0.50	mg/L 10 11/1/2024 12:33 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 18-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069631
Project: PG&E Topock - PCM, 30211191
Lab ID: N069631-013

Client Sample ID: MW-43-075-Q424
Collection Date: 10/31/2024 9:56:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241101A	QC Batch: R195096			PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50	mg/L	10	11/1/2024 12:50 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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ANALYTICAL RESULTS

Print Date: 18-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069631
Project: PG&E Topock - PCM, 30211191
Lab ID: N069631-014

Client Sample ID: MW-43-090-Q424
Collection Date: 10/31/2024 9:24:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241101A	QC Batch: R195096	PrepDate:	Analyst: RAB
Nitrate as N	ND 0.24	0.50	mg/L 10 11/1/2024 01:39 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID	MB-R195096_NO3	SampType:	MBLK	TestCode:	300WLLNO3	Units:	mg/L	Prep Date:		RunNo:	195096			
Client ID:	PBW	Batch ID:	R195096	TestNo:	EPA 300.0			Analysis Date:	11/1/2024	SeqNo:	6280740			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.024 0.050

Sample ID	LCS-R195096_NO3	SampType:	LCS	TestCode:	300WLLNO3	Units:	mg/L	Prep Date:		RunNo:	195096			
Client ID:	LCSW	Batch ID:	R195096	TestNo:	EPA 300.0			Analysis Date:	11/1/2024	SeqNo:	6280741			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 1.208 0.024 0.050 1.250 0 96.6 90 110

Sample ID	N069629-001CDUP	SampType:	DUP	TestCode:	300WLLNO3	Units:	mg/L	Prep Date:		RunNo:	195096			
Client ID:	ZZZZZ	Batch ID:	R195096	TestNo:	EPA 300.0			Analysis Date:	11/1/2024	SeqNo:	6280753			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 8.697 0.12 0.25 8.710 0.149 20

Sample ID	N069631-008CMS	SampType:	MS	TestCode:	300WLLNO3	Units:	mg/L	Prep Date:		RunNo:	195096			
Client ID:	ZZZZZ	Batch ID:	R195096	TestNo:	EPA 300.0			Analysis Date:	11/1/2024	SeqNo:	6280754			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 11.951 0.24 0.50 12.50 0 95.6 80 120

Sample ID	N069631-008CMSD	SampType:	MSD	TestCode:	300WLLNO3	Units:	mg/L	Prep Date:		RunNo:	195096			
Client ID:	ZZZZZ	Batch ID:	R195096	TestNo:	EPA 300.0			Analysis Date:	11/1/2024	SeqNo:	6280755			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 11.920 0.24 0.50 12.50 0 95.4 80 120 11.95 0.260 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID N069631-013CMS	SampType: MS	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195096							
Client ID: ZZZZZZ	Batch ID: R195096	TestNo: EPA 300.0	Analysis Date: 11/1/2024	SeqNo: 6280758								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	12.083	0.24	0.50	12.50	0	96.7	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |



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ANALYTICAL RESULTS

Print Date: 18-Nov-24

CLIENT:	ARCADIS U.S., Inc. - California	Client Sample ID:	MW-52D-Q424
Lab Order:	N069631		
Project:	PG&E Topock - PCM, 30211191	Collection Date:	10/31/2024 12:55:00 PM
Lab ID:	N069631-008	Matrix:	GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP4_241103G	QC Batch: 113806			PrepDate: 11/1/2024		Analyst: DJ
Iron	680	5.8	20	µg/L	1	11/4/2024 02:01 AM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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ANALYTICAL RESULTS

Print Date: 18-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069631
Project: PG&E Topock - PCM, 30211191
Lab ID: N069631-009

Client Sample ID: MW-52M-Q424
Collection Date: 10/31/2024 12:28:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP4_241103G	QC Batch: 113806			PrepDate: 11/1/2024		Analyst: DJ
Iron	950	5.8	20	µg/L	1	11/4/2024 02:04 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 18-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069631
Project: PG&E Topock - PCM, 30211191
Lab ID: N069631-010

Client Sample ID: MW-52S-Q424
Collection Date: 10/31/2024 11:46:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP4_241103G	QC Batch: 113806			PrepDate:	11/1/2024	Analyst: DJ	
Iron	18000	5.8	20		µg/L	1	11/4/2024 02:06 AM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 18-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069631
Project: PG&E Topock - PCM, 30211191
Lab ID: N069631-011

Client Sample ID: MW-53D-Q424
Collection Date: 10/31/2024 11:11:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP4_241103G	QC Batch: 113806			PrepDate: 11/1/2024		Analyst: DJ	
Iron	360	5.8	20	µg/L	1	11/4/2024 02:08 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 18-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069631
Project: PG&E Topock - PCM, 30211191
Lab ID: N069631-012

Client Sample ID: MW-53M-Q424
Collection Date: 10/31/2024 10:39:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP4_241103G	QC Batch: 113806			PrepDate: 11/1/2024		Analyst: DJ	
Iron	1000	5.8	20	µg/L	1	11/4/2024 02:11 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 18-Nov-24

CLIENT:	ARCADIS U.S., Inc. - California	Client Sample ID:	MW-43-075-Q424
Lab Order:	N069631		
Project:	PG&E Topock - PCM, 30211191	Collection Date:	10/31/2024 9:56:00 AM
Lab ID:	N069631-013	Matrix:	GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP4_241103G	QC Batch: 113806			PrepDate: 11/1/2024		Analyst: DJ
Iron	3800	5.8	20	µg/L	1	11/4/2024 02:13 AM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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ANALYTICAL RESULTS

Print Date: 18-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069631
Project: PG&E Topock - PCM, 30211191
Lab ID: N069631-014

Client Sample ID: MW-43-090-Q424
Collection Date: 10/31/2024 9:24:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP4_241103G	QC Batch: 113806			PrepDate: 11/1/2024		Analyst: DJ	
Iron	1700	5.8	20	µg/L	1	11/4/2024 02:20 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID MB-113806	SampType: MBLK	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 11/1/2024	RunNo: 195160							
Client ID: PBW	Batch ID: 113806	TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6285101							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	7.880	5.8	20									

Sample ID LCS-113806	SampType: LCS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 11/1/2024	RunNo: 195160							
Client ID: LCSW	Batch ID: 113806	TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6285102							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	106.260	5.8	20	100.0	0	106	85	115				

Sample ID N069444-001B-MS	SampType: MS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 11/1/2024	RunNo: 195160							
Client ID: ZZZZZ	Batch ID: 113806	TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6285109							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	134.180	5.8	20	100.0	14.15	120	75	125				

Sample ID N069444-001B-MSD	SampType: MSD	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 11/1/2024	RunNo: 195160							
Client ID: ZZZZZ	Batch ID: 113806	TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6285110							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	128.750	5.8	20	100.0	14.15	115	75	125	134.2	4.13	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

Calculations are based on raw values



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

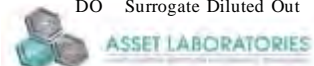
ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID N069444-001B-PS	SampType: PS	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160							
Client ID: ZZZZZ	Batch ID: 113806	TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6285108							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	126.160	5.8	20	100.0	14.15	112	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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ICP-Metals in Water

Work Order No.: N069631
Test Method: EPA 6010B
Analysis Date: 11/4/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 113806

Instrument ID: NV00922-ICP4
Instrument Description: Agilent 5800VDV

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Fe. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069444-001B DT 5x	Iron	Fe	µg/L	0	NA	14.15	100.00%	10

REVIEWED BY:



11/18/2024

Note: NA - Not Applicable

11/18/24 21:42

N069631_6010B_113806_DT

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 18-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069631
Project: PG&E Topock - PCM, 30211191
Lab ID: N069631-008

Client Sample ID: MW-52D-Q424
Collection Date: 10/31/2024 12:55:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241103A	QC Batch:	113831	PrepDate:	11/3/2024	Analyst:	DJ
Arsenic	1.3	0.067	0.10	µg/L	1	11/4/2024 10:56 AM	
Barium	34	0.050	1.0	µg/L	1	11/4/2024 10:56 AM	
Manganese	220	0.46	5.0	µg/L	10	11/6/2024 01:46 AM	
Molybdenum	58	0.063	0.50	µg/L	1	11/4/2024 10:56 AM	
Selenium	ND	0.29	0.50	µg/L	1	11/4/2024 10:56 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 18-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069631
Project: PG&E Topock - PCM, 30211191
Lab ID: N069631-009

Client Sample ID: MW-52M-Q424
Collection Date: 10/31/2024 12:28:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241105F	QC Batch:	113831	PrepDate:	11/4/2024	Analyst:	DJ
Arsenic	0.65	0.067	0.10	µg/L	1	11/6/2024 01:52 AM	
Barium	53	0.050	1.0	µg/L	1	11/4/2024 11:20 AM	
Manganese	160	0.046	0.50	µg/L	1	11/4/2024 11:20 AM	
Molybdenum	32	0.063	0.50	µg/L	1	11/4/2024 11:20 AM	
Selenium	ND	0.29	0.50	µg/L	1	11/4/2024 11:20 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 18-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069631
Project: PG&E Topock - PCM, 30211191
Lab ID: N069631-010

Client Sample ID: MW-52S-Q424
Collection Date: 10/31/2024 11:46:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241105F	QC Batch: 113831			PrepDate: 11/4/2024	Analyst: DJ		
Arsenic	0.88	0.067	0.10	µg/L	1	11/6/2024 01:58 AM	
Barium	110	0.050	1.0	µg/L	1	11/4/2024 11:26 AM	
Manganese	910	0.46	5.0	µg/L	10	11/6/2024 02:04 AM	
Molybdenum	24	0.063	0.50	µg/L	1	11/4/2024 11:26 AM	
Selenium	0.91	0.29	0.50	µg/L	1	11/4/2024 11:26 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 18-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069631
Project: PG&E Topock - PCM, 30211191
Lab ID: N069631-011

Client Sample ID: MW-53D-Q424
Collection Date: 10/31/2024 11:11:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241103A	QC Batch:	113831	PrepDate:	11/3/2024	Analyst:	DJ
Arsenic	1.5	0.067	0.10	µg/L	1	11/4/2024 11:32 AM	
Barium	42	0.050	1.0	µg/L	1	11/4/2024 11:32 AM	
Manganese	1000	0.46	5.0	µg/L	10	11/6/2024 02:10 AM	
Molybdenum	140	0.063	0.50	µg/L	1	11/4/2024 11:32 AM	
Selenium	ND	0.29	0.50	µg/L	1	11/4/2024 11:32 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 18-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069631
Project: PG&E Topock - PCM, 30211191
Lab ID: N069631-012

Client Sample ID: MW-53M-Q424
Collection Date: 10/31/2024 10:39:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241103A	QC Batch:	113831	PrepDate:	11/3/2024	Analyst:	DJ
Arsenic	0.37	0.067	0.10	µg/L	1	11/4/2024 11:38 AM	
Barium	75	0.050	1.0	µg/L	1	11/4/2024 11:38 AM	
Manganese	510	0.46	5.0	µg/L	10	11/6/2024 02:16 AM	
Molybdenum	47	0.063	0.50	µg/L	1	11/4/2024 11:38 AM	
Selenium	ND	0.29	0.50	µg/L	1	11/4/2024 11:38 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 18-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069631
Project: PG&E Topock - PCM, 30211191
Lab ID: N069631-013

Client Sample ID: MW-43-075-Q424
Collection Date: 10/31/2024 9:56:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241103A	QC Batch:	113831	PrepDate:	11/3/2024	Analyst:	DJ
Arsenic	12	0.067	0.10	µg/L	1	11/4/2024	11:44 AM
Barium	68	0.050	1.0	µg/L	1	11/4/2024	11:44 AM
Manganese	520	0.46	5.0	µg/L	10	11/6/2024	02:22 AM
Molybdenum	18	0.063	0.50	µg/L	1	11/4/2024	11:44 AM
Selenium	ND	0.29	0.50	µg/L	1	11/4/2024	11:44 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 18-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069631
Project: PG&E Topock - PCM, 30211191
Lab ID: N069631-014

Client Sample ID: MW-43-090-Q424
Collection Date: 10/31/2024 9:24:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241103A	QC Batch:	113831	PrepDate:	11/3/2024	Analyst:	DJ
Arsenic	3.4	0.067	0.10	µg/L	1	11/4/2024 11:50 AM	
Barium	60	0.050	1.0	µg/L	1	11/4/2024 11:50 AM	
Manganese	620	0.46	5.0	µg/L	10	11/6/2024 02:28 AM	
Molybdenum	29	0.063	0.50	µg/L	1	11/4/2024 11:50 AM	
Selenium	ND	0.29	0.50	µg/L	1	11/4/2024 11:50 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID MB-113831	SampType: MBLK	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 11/3/2024	RunNo: 195177							
Client ID: PBW	Batch ID: 113831	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286072							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.067	0.10									
Barium	ND	0.050	1.0									
Manganese	ND	0.046	0.50									
Molybdenum	ND	0.063	0.50									
Selenium	ND	0.29	0.50									

Sample ID LCS-113831	SampType: LCS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 11/3/2024	RunNo: 195177							
Client ID: LCSW	Batch ID: 113831	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286073							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.568	0.067	0.10	10.00	0	95.7	85	115				
Barium	9.829	0.050	1.0	10.00	0	98.3	85	115				
Manganese	97.590	0.046	0.50	100.0	0	97.6	85	115				
Molybdenum	9.636	0.063	0.50	10.00	0	96.4	85	115				
Selenium	9.284	0.29	0.50	10.00	0	92.8	85	115				

Sample ID N069629-001B-MS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 11/3/2024	RunNo: 195177							
Client ID: ZZZZZ	Batch ID: 113831	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286077							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.460	0.067	0.10	10.00	0.1432	93.2	75	125				
Barium	96.015	0.050	1.0	10.00	85.48	105	75	125				
Manganese	108.956	0.046	0.50	100.0	18.04	90.9	75	125				
Molybdenum	89.937	0.063	0.50	10.00	79.48	105	75	125				
Selenium	13.979	0.29	0.50	10.00	4.925	90.5	75	125				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

Calculations are based on raw values

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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID N069629-001B-MSD		SampType: MSD		TestCode: 6020_DIS_TP			Units: µg/L		Prep Date: 11/3/2024			RunNo: 195177	
Client ID: ZZZZZZ		Batch ID: 113831		TestNo: EPA 6020		EPA 3010A		Analysis Date: 11/4/2024			SeqNo: 6286078		
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual	
Arsenic	9.669	0.067	0.10	10.00	0.1432	95.3	75	125	9.460	2.18	20		
Barium	94.116	0.050	1.0	10.00	85.48	86.4	75	125	96.01	2.00	20		
Manganese	109.312	0.046	0.50	100.0	18.04	91.3	75	125	109.0	0.326	20		
Molybdenum	90.352	0.063	0.50	10.00	79.48	109	75	125	89.94	0.461	20		
Selenium	14.182	0.29	0.50	10.00	4.925	92.6	75	125	13.98	1.44	20		

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID	N069629-001B-PS	SampType:	PS	TestCode:	6020_DIS_TP	Units:	µg/L	Prep Date:		RunNo:	195177	
Client ID:	ZZZZZZ	Batch ID:	113831	TestNo:	EPA 6020 EPA 3010A			Analysis Date:	11/4/2024	SeqNo:	6286076	
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.080	0.067	0.10	10.00	0.1432	99.4	80	120				
Barium	99.732	0.050	1.0	10.00	85.48	143	80	120				S
Manganese	111.545	0.046	0.50	100.0	18.04	93.5	80	120				
Molybdenum	93.851	0.063	0.50	10.00	79.48	144	80	120				S
Selenium	14.512	0.29	0.50	10.00	4.925	95.9	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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ICP-MS-Metals in Water

Work Order No.: N069629
 Test Method: EPA 6020
 Analysis Date: 11/4/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 113831

Instrument ID: NV00922-ICP8 (ICPMS-03)
 Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to As, Se, Cr. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069629-001B DT 5x	Arsenic	As	µg/L	0	NA	0.1432094	100.00%	10
N069629-001B DT 5x	Barium	Ba	µg/L	85.86791	PASS	85.47964	0.45%	10
N069629-001B DT 5x	Manganese	Mn	µg/L	17.6874	PASS	18.04301	1.97%	10
N069629-001B DT 5x	Molybdenum	Mo	µg/L	76.22411	PASS	79.47769	4.09%	10
N069629-001B DT 5x	Selenium	Se	µg/L	5.09346	NA	4.925108	3.42%	10
N069629-001B DT 5x	Chromium	Cr	µg/L	2.681676	NA	2.80325	4.34%	10

REVIEWED BY:



11/18/2024

Note: NA - Not Applicable

11/18/24 21:50

N069629_6020_113831_DT

SAMPLE RECEIVING ITEMS



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”



Client: Arcadis		Report to: Laura Madsen		Bill to: Janet Newman		EDD Requirement		QA/QC		Sample Receipt Condition									
Address: 630 Plaza Dr, Suite 200		Company: Arcadis		Address:		Excel EDD		RTNE		Y N									
Address: Highlands Ranch, CO 80129		Email: laura.madsen@arcadis.com		Address:		Geotracker		RWQCB		1 Chilled									
Phone: 720-344-3500		Address:		Email to: janet.newman@arcadis.com		Labspec		CalTrans		2 Headspace									
Submitted By: <i>Rissie Top</i>		Address:		P.O.#		Others		LEVEL III		3. Container Intact									
Title: <i>Field Tech</i>		Phone: 720-344-3771		Fax:		Specify: RWQCB		LEVEL IV		4. Seal Present									
Signature: <i>[Signature]</i> Date: <i>10/31/24</i>		Sampled By: <i>Rissie Top</i>		Ground		Global ID:		Regulatory		5. IR number									
Project Name: PG&E Topock - PCM		Date: <i>10/31/24</i>		X Sediment		Specify State:		6. Method of Cooling:		6. Method of Cooling:									
Project Number: 30211191		Surface		Potable		Sample Temp: <i>ICE 2.2 OC</i>		Courier: <i>ASSET</i>		Tracking No.:									
I hereby authorize ASSET Labs to perform the tests indicated below.		NPDES		Other Solid		Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH		Turn Around Time		Remarks									
		Surface				Nitrate as N, sulfate (EPA 300.0)		No. of Container											
						Dissolved metals (SW6020) FF: HNO3 Arsenic, Iron, Barium, Manganese		Container Type											
						Dissolved metals (SW6020) FF: HNO3 Total Dissolved Chromium,		PRESERVATION											
						Dissolved metals (SW6020) FF: HNO3 Molybdenum, Selenium													
						Total Organic Carbon (SM5310C): H2SO4													
						Dissolved metals (SW6020) FF: HNO3 Arsenic, Manganese													
						Ammonia as Nitrogen (SM4500NH3): H2SO4													
						Nitrate as N (EPA 300.0)													
Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH	Nitrate as N, sulfate (EPA 300.0)	Dissolved metals (SW6020) FF: HNO3 Arsenic, Iron, Barium, Manganese	Dissolved metals (SW6020) FF: HNO3 Total Dissolved Chromium,	Dissolved metals (SW6020) FF: HNO3 Molybdenum, Selenium	Total Organic Carbon (SM5310C): H2SO4	Dissolved metals (SW6020) FF: HNO3 Arsenic, Manganese	Ammonia as Nitrogen (SM4500NH3): H2SO4	Nitrate as N (EPA 300.0)	Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
1	N069631-001	MW-52D-EB-Q424	10/31/2024	12:35		X									E 3	P	BNS		
2	-002	MW-52M-EB-Q424	10/31/2024	12:10		X									E 3	P	BNS		
3	-003	MW-52S-EB-Q424	10/31/2024	11:25		X									E 3	P	BNS	MSMSB	
4	-004	MW-53D-EB-Q424	10/31/2024	10:50		X									E 3	P	BNS		
5	-005	MW-53M-EB-Q424	10/31/2024	10:20		X									E 1	P	BNS		
6	-006	MW-43-075-EB-Q424	10/31/2024	9:37		X									E 1	P	BNS		
7	-007	MW-43-090-EB-Q424	10/31/2024	9:05		X									E 1	P	BNS		
8						X									E 3	P	BNS		
9						X									E 3	P	BNS		
10						X									E 3	P	BNS		
11	-008	MW-52D-Q424	10/31/2024	12:55		X		X	X				X		E 3	P	BNS		
12	-009	MW-52M-Q424	10/31/2024	12:28		X		X	X				X		E 3	P	BNS		
13	-010	MW-52S-Q424	10/31/2024	11:46		X		X	X				X		E 3	P	BNS		
14	-011	MW-53D-Q424	10/31/2024	11:11		X		X	X				X		E 3	P	BNS		
Requisitioned by (Signature and Printed Name): <i>Rissie Top</i> Date/Time: <i>10/31/24 1815</i>		Requisitioned by (Signature and Printed Name): <i>DOMEO ALCANTARA</i> Date/Time: <i>10/31/24 1542</i>		Turn Around Time (TAT)		Special Instruction:													
Requisitioned by (Signature and Printed Name): <i>DOMEO ALCANTARA</i> Date/Time: <i>10/31/24 1815</i>		Requisitioned by (Signature and Printed Name): <i>DOMEO ALCANTARA</i> Date/Time: <i>10/31/24 1815</i>		A < 24 Hrs or Same Day TAT															
				B = Next Workday															
				C = 2 Workdays															
				D = 3 Workdays															
				E = Routine 5-7 Workdays															
				TAT Starts at 8 AM the following day if samples received after 3:00PM.															
Terms		5. Trip Blanks and Equipment Blanks are billable sample.		Preservatives:		Container Type:													
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.		6. Asset Laboratories is not responsible for samples collected using incorrect methodology.		H=HCL		T=Tube													
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis.		7. Terms are net 30 days.		Z=Zn(AC)2		V=VOA													
3. Less than 24 Hrs.=200% Next Day=100% 2 Workdays=50% 3 Workdays=35% 4 Workdays=20%		8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.		O=NaOH		B=Tedlar													
4. Custom EDD formats will be an additional 5% of the total project price.		9. For subcontract analysis, TAT and Surcharges will vary.		T=Na2S2O3		M=Metal													
5. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project				Others/Specify: B (NH4)2SO4/NH4OH		C=Can													

White-Laboratory Copy

Yellow=Customer's Copy



Client: Arcadis Address: 630 Plaza Dr, Suite 200 Address: Highlands Ranch, CO 80129 Phone: 720-344-3500 Submitted By: <u>Reggie Top</u> Title: <u>Field Tool</u>			Report to: Laura Madsen Company: Arcadis Email: laura.madsen@arcadis.com Address: Phone: 720-344-3771			Bill to: Janet Newman Address: Email to: janet.newman@arcadis.com Phone: 949 293-2445 Fax: P.O.#			EDD Requirement: Excel EDD Geotracker Lebspec Others Specify: RWQCB Global ID:			QA/QC: RTNE RWQCB CalTrans LEVEL III LEVEL IV Regulatory Specify State:			Sample Receipt Condition: 1. Chilled 2. Headspace 3. Container Intact 4. Seal Present 5. IR number 6. Method of Cooling: <u>ICE</u> Sample Temp: <u>2.2 °C</u> Courier: <u>ASSET</u> Tracking No.:		
Signature: <u>[Signature]</u> Date: <u>10/31/24</u> <i>I hereby authorize ASSET Labs to perform the tests indicated below.</i>			Sampled By: <u>Reggie Top</u> <i>I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for action.</i>			Signature: <u>[Signature]</u> Date: <u>10/31/24</u>			Matrix: Ground [X] Sediment Potable Soil NPDES Other Solid Surface			250 mL poly 1 L poly 500mL poly 500mL poly 500mL poly 3x40 mL VOA 125 mL poly 1 L poly 1 L poly 1 L poly			Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH Nitrate as N, sulfate (EPA 300.0) Dissolved metals (SW6020) FF; HNO3 Arsenic, Iron, Barium, Manganese Dissolved metals (SW6020) FF; HNO3 Total Dissolved Chromium, Dissolved metals (SW6020) FF; HNO3 Molybdenum, Selenium Total Organic Carbon (SM5310C); H2SO4 Nitrate/Nitrite as Nitrogen (SM4500NH3); H2SO4 Ammonia as Nitrogen (SM4500NH3); H2SO4 Nitrate as N (EPA 300.0)		
Project Name: PG&E Topock - PCM Project Number: 30211191			Sample ID/Location			Sample Date			Sample Time			Others			Turn Around Time No. of Container Container Type PRESERVATION Remarks		
Item No.	Laboratory Work Order No.	Sample ID/Location			Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH	Nitrate as N, sulfate (EPA 300.0)	Dissolved metals (SW6020) FF; HNO3 Arsenic, Iron, Barium, Manganese	Dissolved metals (SW6020) FF; HNO3 Total Dissolved Chromium,	Dissolved metals (SW6020) FF; HNO3 Molybdenum, Selenium	Total Organic Carbon (SM5310C); H2SO4	Nitrate/Nitrite as Nitrogen (SM4500NH3); H2SO4	Ammonia as Nitrogen (SM4500NH3); H2SO4	Nitrate as N (EPA 300.0)	Turn Around Time No. of Container Container Type PRESERVATION Remarks
1	<u>NA8513-012</u>	<u>MW-53M-Q424</u>			10/31/2024	10:39		X		X	X	X				X	E 3 P BNS
2	<u>I -013</u>	<u>MW-43-075-Q424</u>			10/31/2024	9:56		X		X	X	X				X	E 3 P BNS
3	<u>I -014</u>	<u>MW-43-090-Q424</u>			10/31/2024	9:24		X		X	X	X				X	E 3 P BNS
4																	E 3 P BNS
5																	E 3 P BNS
6																	E 3 P BNS
7	<u>I -015</u>	<u>EB-715-Q424</u>			10/31/2024	<u>1402</u>		X									E 1 P B
8																	
9																	
10																	
11																	
12																	
13																	
14																	
Relinquished by (Signature and Printed Name): <u>Reggie Top</u> Date/Time: <u>10/31/24 1542</u>				Relinquished by (Signature and Printed Name): <u>DOMCO ALCANTARA</u> Date/Time: <u>10/31/24 1542</u>				Turn Around Time (TAT) A < 24 Hrs or Same Day TAT B = Next Workday C = 2 Workdays D = 3 Workdays E = Routine 5-7 Workdays				Special instruction:					
Relinquished by (Signature and Printed Name): <u>[Signature]</u> Date/Time: <u>10/31/24 1815</u>				Relinquished by (Signature and Printed Name): <u>DOMCO ALCANTARA</u> Date/Time: <u>10/31/24 1815</u>				TAT Starts at 8 AM the following day if samples received after 3:00PM.									
Relinquished by (Signature and Printed Name): <u>[Signature]</u> Date/Time: <u>10/31/24 1815</u>				Relinquished by (Signature and Printed Name): <u>[Signature]</u> Date/Time: <u>10/31/24 1815</u>				Preservatives: H=HCL N=HNO3 S=H2SO4 C=4°C Z=Zn(AC)2 O=NaOH T=Na2S2O3 Others/Specify: B (NH4)2SO4/NH4OH				Container Type: T=Tube V=VOA P=Pint Z=Zn(AC)2 O=NaOH T=Na2S2O3 J=Jar B=Tedlar G=Glass M=Metal M=Metal C=Can					
Terms: 1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report. 2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis. Less than 24 Hrs.=200% Next Day=100% 2 Workdays=50% 3 Workdays=35% 4 Workdays=20% 3. Custom EDD formats will be an additional 3% of the total project price. 4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project price.				5. Trip Blanks and Equipment Blanks are billable samples. 6. Asset Laboratories is not responsible for samples collected using incorrect methodology. 7. Terms are not 30 days. 8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed. 9. For subcontract analysis, TAT and Surcharges will vary.				White=Laboratory Copy				Yellow=Customer's Copy					

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On: 10/31/2024 Workorder: N069631
 Rep sample Temp (Deg C): 2.2 IR Gun ID: 4
 Temp Blank: Yes No
 Carrier name: ASSET
 Last 4 digits of Tracking No.: NA Packing Material Used: None
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

- | | | | |
|---|---|-----------------------------|---|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 14. Water - pH acceptable upon receipt?
Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 15. Did the bottle labels indicate correct preservatives used? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 16. Were there Non-Conformance issues at login?
Was Client notified? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

Comments:

Checklist Completed By: EF *Efanegof* 11/1/2024

Reviewed By: for: *Maupabius*
MBC11/05/2024

ASSET Laboratories

WORK ORDER Summary

01-Nov-24

WorkOrder: N069631

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30211191

QC Level: Level IV

Date Received: 10/31/2024 6:15 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N069631-001A	MW-52D-EB-Q424	10/31/2024 12:35:00 PM	11/15/2024	Groundwater	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069631-002A	MW-52M-EB-Q424	10/31/2024 12:10:00 PM	11/15/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069631-003A	MW-52S-EB-Q424	10/31/2024 11:25:00 AM	11/15/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069631-004A	MW-53D-EB-Q424	10/31/2024 10:50:00 AM	11/15/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069631-005A	MW-53M-EB-Q424	10/31/2024 10:20:00 AM	11/15/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069631-006A	MW-43-075-EB-Q424	10/31/2024 9:37:00 AM	11/15/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069631-007A	MW-43-090-EB-Q424	10/31/2024 9:05:00 AM	11/15/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069631-008A	MW-52D-Q424	10/31/2024 12:55:00 PM	11/15/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069631-008B			11/15/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069631-008C			11/15/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069631-009A	MW-52M-Q424	10/31/2024 12:28:00 PM	11/15/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069631-009B			11/15/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069631-009C			11/15/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069631-010A	MW-52S-Q424	10/31/2024 11:46:00 AM	11/15/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

01-Nov-24

WorkOrder: N069631

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30211191

QC Level: Level IV

Date Received: 10/31/2024 6:15 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N069631-010B	MW-52S-Q424	10/31/2024 11:46:00 AM	11/15/2024	Groundwater	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069631-010C			11/15/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069631-011A	MW-53D-Q424	10/31/2024 11:11:00 AM	11/15/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069631-011B			11/15/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069631-011C			11/15/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069631-012A	MW-53M-Q424	10/31/2024 10:39:00 AM	11/15/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069631-012B			11/15/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069631-012C			11/15/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069631-013A	MW-43-075-Q424	10/31/2024 9:56:00 AM	11/15/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069631-013B			11/15/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

01-Nov-24

WorkOrder: N069631

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30211191

QC Level: Level IV

Date Received: 10/31/2024 6:15 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N069631-013B	MW-43-075-Q424	10/31/2024 9:56:00 AM	11/15/2024	Groundwater	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069631-013C			11/15/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069631-014A	MW-43-090-Q424	10/31/2024 9:24:00 AM	11/15/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069631-014B			11/15/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069631-014C			11/15/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069631-015A	EB-715-Q424	10/31/2024 2:02:00 PM	11/15/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069631-016A	FOLDER	11/15/2024	11/15/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			11/15/2024		Folder	Level IV Report	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			11/15/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

List of Analysts

ASSET Laboratories Work Order: N069631

NAME	TEST METHOD
Ria Abes	EPA 218.6, EPA 300.0
Diane Jetajobe	EPA 6010B_Dissolved, EPA 6020_Dissolved



EPA 218.6



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IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
REV 2.0
011416

QC Batch Number: R195173
ASSET #: N069631

Instrument ID: NV00922-IC7
Analyst: RBA
Date Analyzed: 11/1/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria? (r = 0.995, r = 0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)	X			X		
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?	X			X		
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?	X			X		
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)	X			X		
14. For Hinkley DOM samples, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?	X			X		
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)	X			X		X
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments: **Dilution was necessary for some samples due to matrix interference.**

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA
2nd Level Reviewer dMocha 11/7/2024

Date: _____
Date: _____



IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
 REV 2.0
 011416

QC Batch Number: R195216
 ASSET #: N069631

Instrument ID: NV00922-IC7
 Analyst: RBA
 Date Analyzed: 11/4/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria? (r = 0.995, r = 0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)	X			X		
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?	X			X		
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?	X			X		
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)	X			X		
14. For Hinkley DOM samples, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?	X					X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)	X			X		
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA

Date: _____

2nd Level Reviewer NS 11052024

Date: _____

SAMPLE CALCULATION



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Sample Calculation

METHOD: EPA 218.6
TEST NAME: HEXAVALENT CHROMIUM BY IC
MATRIX: Groundwater

FORMULA:

Calculate the Hexavalent Chromium concentration, in $\mu\text{g/L}$, in the original sample as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = A * \text{DF}$$

where:

A = $\mu\text{g/L}$, IC Cr+6 calculated concentration
DF = dilution factor

For Sample **N069631-001A** , the concentration in $\mu\text{g/L}$ is calculated as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = 0.0728 * 1$$

$$\text{Cr}^{+6}, \mu\text{g/L} = 0.0728$$

Since PQL is $0.2 \mu\text{g/L}$,

$$\text{Cr}^{+6}, \mu\text{g/L} = \text{ND}$$

Reviewed by:

d/Rocha 12/2/2024

ANALYSIS RUN LOG



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INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	ICV	ICV	1	Hexavalent Chromium	10/28/24 10:49 AM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/28/24 10:59 AM	Reported
11	ICB	ICB	1	Hexavalent Chromium	10/28/24 11:08 AM	Reported
12	MB-R194895	MBLK	1	Hexavalent Chromium	10/28/24 11:17 AM	Reported
13	LCS-R194895	LCS	1	Hexavalent Chromium	10/28/24 11:27 AM	Reported
14	N069445-001A	SAMP	1	Hexavalent Chromium	10/28/24 11:36 AM	Reported
15	N069445-001AMS	MS	1	Hexavalent Chromium	10/28/24 11:46 AM	Reported
16	N069445-001AMSD	MSD	1	Hexavalent Chromium	10/28/24 11:55 AM	Reported
17	N069445-001ADUP	DUP	1	Hexavalent Chromium	10/28/24 12:05 PM	Reported
18	N069453-001A	SAMP	1	Hexavalent Chromium	10/28/24 12:14 PM	Reported
19	N069453-002A	SAMP	1	Hexavalent Chromium	10/28/24 12:24 PM	Reported
20	N069453-003A	SAMP	1	Hexavalent Chromium	10/28/24 12:33 PM	Reported
21	N069453-004A	SAMP	1	Hexavalent Chromium	10/28/24 12:43 PM	Reported
22	CCV-1	CCV1	1	Hexavalent Chromium	10/28/24 12:52 PM	Reported
23	CCB-1	CCB	1	Hexavalent Chromium	10/28/24 1:02 PM	Reported
24	N069444-001A	SAMP	1	Hexavalent Chromium	10/28/24 1:11 PM	Reported
25	N069444-001AMS	MS	1	Hexavalent Chromium	10/28/24 1:20 PM	Reported
26	N069444-002A	SAMP	1	Hexavalent Chromium	10/28/24 1:30 PM	Reported
27	N069444-002AMS	MS	1	Hexavalent Chromium	10/28/24 1:39 PM	Reported
28	N069444-003A	SAMP	1	Hexavalent Chromium	10/28/24 1:49 PM	Not Reported
29	N069444-003AMS	MS	1	Hexavalent Chromium	10/28/24 1:58 PM	Not Reported
30	N069444-001A	SAMP	5	Hexavalent Chromium	10/28/24 2:08 PM	Not Reported
31	N069444-001AMS	MS	5	Hexavalent Chromium	10/28/24 2:17 PM	Not Reported
32	N069444-002A	SAMP	5	Hexavalent Chromium	10/28/24 2:27 PM	Not Reported
33	N069444-002AMS	MS	5	Hexavalent Chromium	10/28/24 2:36 PM	Not Reported
34	CCV-2	CCV	1	Hexavalent Chromium	10/28/24 2:46 PM	Reported
35	CCB-2	CCB	1	Hexavalent Chromium	10/28/24 2:55 PM	Reported
36	N069444-003A	SAMP	5	Hexavalent Chromium	10/28/24 3:04 PM	Reported
37	N069444-003AMS	MS	5	Hexavalent Chromium	10/28/24 3:14 PM	Reported
38	N069233-009A	SAMP	5	Hexavalent Chromium	10/28/24 3:23 PM	Not Reported
39	N069233-009AMS	MS	5	Hexavalent Chromium	10/28/24 3:33 PM	Not Reported
40	N069233-015A	SAMP	5	Hexavalent Chromium	10/28/24 3:42 PM	Not Reported
41	N069233-015AMS	MS	5	Hexavalent Chromium	10/28/24 3:52 PM	Not Reported
42	CCV-3	CCV1	1	Hexavalent Chromium	10/28/24 4:01 PM	Reported

INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	CCB-3	CCB	1	Hexavalent Chromium	10/28/24 4:11 PM	Reported
44	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 4:20 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241028A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	28/Oct/24 16:50:54
No. of Injections:	47	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	ICV,ICV,1,	9	1000	Unknown		10/28/2024 10:49	Finished	ICV @5ppb, IWST-240729B
10	PQL @0.2ppb,CCV2,	10	1000	Unknown		10/28/2024 10:59	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		10/28/2024 11:08	Finished	ICB R240926A
12	MB-H2O,MBLK,1,	12	1000	Unknown		10/28/2024 11:17	Finished	MB R240926A
13	LCS-H2O,LCS,1,	13	1000	Unknown		10/28/2024 11:27	Finished	LCS @5ppb, IWST-240729B
14	N069445-001A,SAMP	14	1000	Unknown		10/28/2024 11:36	Finished	SAMP,10 mL
15	N069445-001AMS,MS	15	1000	Unknown		10/28/2024 11:46	Finished	MS (1ppb), IWST-240729B,10r
16	N069445-001AMSD,N	16	1000	Unknown		10/28/2024 11:55	Finished	MSD (1ppb), IWST-240729B,1
17	N069445-001ADUP,D	17	1000	Unknown		10/28/2024 12:05	Finished	DUP,10 mL
18	N069453-001A,SAMP	18	1000	Unknown		10/28/2024 12:14	Finished	SAMP,10 mL
19	N069453-002A,SAMP	19	1000	Unknown		10/28/2024 12:24	Finished	SAMP,10 mL
20	N069453-003A,SAMP	20	1000	Unknown		10/28/2024 12:33	Finished	SAMP,10 mL
21	N069453-004A,SAMP	21	1000	Unknown		10/28/2024 12:43	Finished	SAMP,10 mL
22	CCV-1,CCV1,1,	22	1000	Unknown		10/28/2024 12:52	Finished	CCV @10ppb, IWST-240729A
23	CCB-1,CCB,1,	23	1000	Unknown		10/28/2024 13:02	Finished	CCB R240926A
24	N069444-001A,SAMP	24	1000	Unknown		10/28/2024 13:11	Finished	SAMP,10 mL
25	N069444-001AMS,MS	25	1000	Unknown		10/28/2024 13:20	Finished	MS (1ppb), IWST-240729B,10r
26	N069444-002A,SAMP	26	1000	Unknown		10/28/2024 13:30	Finished	SAMP,10 mL
27	N069444-002AMS,MS	27	1000	Unknown		10/28/2024 13:39	Finished	MS (1ppb), IWST-240729B,10r
28	N069444-003A,SAMP	28	1000	Unknown		10/28/2024 13:49	Finished	SAMP,10 mL
29	N069444-003AMS,MS	29	1000	Unknown		10/28/2024 13:58	Finished	MS (1ppb), IWST-240729B,10r
30	N069444-001A,SAMP	30	1000	Unknown		10/28/2024 14:08	Finished	SAMP,2>10 mL
31	N069444-001AMS,MS	31	1000	Unknown		10/28/2024 14:17	Finished	MS (1ppb), IWST-240729B,2>
32	N069444-002A,SAMP	32	1000	Unknown		10/28/2024 14:27	Finished	SAMP,2>10 mL
33	N069444-002AMS,MS	33	1000	Unknown		10/28/2024 14:36	Finished	MS (1ppb), IWST-240729B,2>
34	CCV-2,CCV,1,	34	1000	Unknown		10/28/2024 14:46	Finished	CCV @5ppb, IWST-240729A
35	CCB-2,CCB,1,	35	1000	Unknown		10/28/2024 14:55	Finished	CCB R240926A
36	N069444-003A,SAMP	36	1000	Unknown		10/28/2024 15:04	Finished	SAMP,2>10 mL
37	N069444-003AMS,MS	37	1000	Unknown		10/28/2024 15:14	Finished	MS (1ppb), IWST-240729B,2>
38	N069233-009A,SAMP	38	1000	Unknown		10/28/2024 15:23	Finished	SAMP,2>10 mL
39	N069233-009AMS,MS	39	1000	Unknown		10/28/2024 15:33	Finished	MS (1ppb), IWST-240729B,2>
40	N069233-015A,SAMP	40	1000	Unknown		10/28/2024 15:42	Finished	SAMP,2>10 mL
41	N069233-015AMS,MS	41	1000	Unknown		10/28/2024 15:52	Finished	MS (1ppb), IWST-240729B,2>
42	CCV-3,CCV1,1,	42	1000	Unknown		10/28/2024 16:01	Finished	CCV @10ppb, IWST-240729A
43	CCB-3,CCB,1,	43	1000	Unknown		10/28/2024 16:11	Finished	CCB R240926A
44	BLANK	44	1000	Unknown		10/28/2024 16:20	Finished	BLANK
45	SHUTDOWN	45	1000	Unknown		10/28/2024 16:30	Finished	
46	Eluent: R241025A	46	1000	Unknown		n.a.	Finished	
47	PCR: R241025B	47	1000	Unknown		n.a.	Finished	

INJECTION LOG: 241101A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	11/01/24 9:57 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	11/01/24 10:11 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	11/01/24 10:20 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	11/01/24 10:30 AM	Reported
13	MB-R195173	MBLK	1	Hexavalent Chromium	11/01/24 10:39 AM	Reported
14	LCS-R195173	LCS	1	Hexavalent Chromium	11/01/24 10:49 AM	Reported
15	N069582-004A	SAMP	50	Hexavalent Chromium	11/01/24 11:05 AM	Reported
16	N069582-004ADUP	DUP	50	Hexavalent Chromium	11/01/24 11:17 AM	Reported
17	N069582-004AMS	MS	50	Hexavalent Chromium	11/01/24 11:26 AM	Reported
18	N069582-005A	SAMP	50	Hexavalent Chromium	11/01/24 11:35 AM	Not Reported
19	N069582-006A	SAMP	50	Hexavalent Chromium	11/01/24 11:45 AM	Reported
20	N069629-001A	SAMP	5	Hexavalent Chromium	11/01/24 11:54 AM	Not Reported
21	N069629-001AMS	MS	5	Hexavalent Chromium	11/01/24 12:04 PM	Not Reported
22	N069629-001AMSD	MSD	5	Hexavalent Chromium	11/01/24 12:13 PM	Not Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	11/01/24 12:23 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	11/01/24 12:32 PM	Reported
25	N069629-002A	SAMP	5	Hexavalent Chromium	11/01/24 12:42 PM	Not Reported
26	N069629-002AMS	MS	5	Hexavalent Chromium	11/01/24 12:51 PM	Not Reported
27	N069629-003A	SAMP	1	Hexavalent Chromium	11/01/24 1:01 PM	Reported
28	N069629-003AMS	MS	1	Hexavalent Chromium	11/01/24 1:10 PM	Reported
29	N069582-006AMS	MS	50	Hexavalent Chromium	11/01/24 1:19 PM	Reported
30	N069582-006AMSD	MSD	50	Hexavalent Chromium	11/01/24 1:29 PM	Reported
31	N069582-005A	SAMP	100	Hexavalent Chromium	11/01/24 1:38 PM	Reported
32	N069582-005AMS	MS	100	Hexavalent Chromium	11/01/24 1:48 PM	Reported
33	N069629-001A	SAMP	1	Hexavalent Chromium	11/01/24 1:57 PM	Reported
34	N069629-001AMS	MS	1	Hexavalent Chromium	11/01/24 2:07 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	11/01/24 2:16 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	11/01/24 2:26 PM	Reported
37	N069629-002A	SAMP	1	Hexavalent Chromium	11/01/24 2:35 PM	Reported
38	N069629-002AMS	MS	1	Hexavalent Chromium	11/01/24 2:45 PM	Reported
39	N069629-001AMS	MS	5	Hexavalent Chromium	11/01/24 2:54 PM	Not Reported
40	N069629-002AMS	MS	5	Hexavalent Chromium	11/01/24 3:03 PM	Not Reported
41	N069631-008A	SAMP	1	Hexavalent Chromium	11/01/24 3:13 PM	Not Reported
42	N069631-008AMS	MS	1	Hexavalent Chromium	11/01/24 3:22 PM	Not Reported

INJECTION LOG: 241101A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069631-008A	SAMP	5	Hexavalent Chromium	11/01/24 3:32 PM	Reported
44	N069631-008AMS	MS	5	Hexavalent Chromium	11/01/24 3:41 PM	Reported
45	N069631-009A	SAMP	1	Hexavalent Chromium	11/01/24 3:51 PM	Not Reported
46	N069631-009AMS	MS	1	Hexavalent Chromium	11/01/24 4:00 PM	Not Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	11/01/24 4:19 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	11/01/24 4:31 PM	Reported
49	N069631-009A	SAMP	5	Hexavalent Chromium	11/01/24 4:40 PM	Reported
50	N069631-009AMS	MS	5	Hexavalent Chromium	11/01/24 4:50 PM	Reported
51	N069631-010A	SAMP	1	Hexavalent Chromium	11/01/24 4:59 PM	Not Reported
52	N069631-010AMS	MS	1	Hexavalent Chromium	11/01/24 5:08 PM	Not Reported
53	N069631-010A	SAMP	5	Hexavalent Chromium	11/01/24 5:18 PM	Reported
54	N069631-010AMS	MS	5	Hexavalent Chromium	11/01/24 5:27 PM	Reported
55	N069631-011A	SAMP	1	Hexavalent Chromium	11/01/24 5:37 PM	Not Reported
56	N069631-011AMS	MS	1	Hexavalent Chromium	11/01/24 5:46 PM	Not Reported
57	N069631-011A	SAMP	5	Hexavalent Chromium	11/01/24 5:56 PM	Reported
58	N069631-011AMS	MS	5	Hexavalent Chromium	11/01/24 6:05 PM	Reported
59	CCV-5	CCV	1	Hexavalent Chromium	11/01/24 6:15 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	11/01/24 6:24 PM	Reported
61	N069631-012A	SAMP	1	Hexavalent Chromium	11/01/24 6:34 PM	Not Reported
62	N069631-012AMS	MS	1	Hexavalent Chromium	11/01/24 6:43 PM	Not Reported
63	N069631-012A	SAMP	5	Hexavalent Chromium	11/01/24 6:52 PM	Reported
64	N069631-012AMS	MS	5	Hexavalent Chromium	11/01/24 7:02 PM	Reported
65	N069631-013A	SAMP	1	Hexavalent Chromium	11/01/24 7:11 PM	Not Reported
66	N069631-013AMS	MS	1	Hexavalent Chromium	11/01/24 7:21 PM	Not Reported
67	N069631-013A	SAMP	5	Hexavalent Chromium	11/01/24 7:30 PM	Reported
68	N069631-013AMS	MS	5	Hexavalent Chromium	11/01/24 7:40 PM	Reported
69	N069631-014A	SAMP	1	Hexavalent Chromium	11/01/24 7:49 PM	Not Reported
70	N069631-014AMS	MS	1	Hexavalent Chromium	11/01/24 7:59 PM	Not Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	11/01/24 8:08 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	11/01/24 8:18 PM	Reported
73	N069631-014A	SAMP	5	Hexavalent Chromium	11/01/24 8:27 PM	Reported
74	N069631-014AMS	MS	5	Hexavalent Chromium	11/01/24 8:36 PM	Reported
75	N069631-001A	SAMP	1	Hexavalent Chromium	11/01/24 8:46 PM	Reported
76	N069631-001AMS	MS	1	Hexavalent Chromium	11/01/24 8:55 PM	Reported
77	N069631-002A	SAMP	1	Hexavalent Chromium	11/01/24 9:05 PM	Reported
78	N069631-002AMS	MS	1	Hexavalent Chromium	11/01/24 9:14 PM	Reported
79	N069631-003A	SAMP	1	Hexavalent Chromium	11/01/24 9:24 PM	Reported
80	N069631-003AMS	MS	1	Hexavalent Chromium	11/01/24 9:33 PM	Reported
81	N069631-004A	SAMP	1	Hexavalent Chromium	11/01/24 9:43 PM	Reported
82	N069631-004AMS	MS	1	Hexavalent Chromium	11/01/24 9:52 PM	Reported
83	CCV-7	CCV	1	Hexavalent Chromium	11/01/24 10:02 PM	Reported
84	CCB-7	CCB	1	Hexavalent Chromium	11/01/24 10:11 PM	Reported

INJECTION LOG: 241101A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N069631-005A	SAMP	1	Hexavalent Chromium	11/01/24 10:20 PM	Reported
86	N069631-005AMS	MS	1	Hexavalent Chromium	11/01/24 10:30 PM	Reported
87	N069631-006A	SAMP	1	Hexavalent Chromium	11/01/24 10:39 PM	Reported
88	N069631-006AMS	MS	1	Hexavalent Chromium	11/01/24 10:49 PM	Reported
89	N069631-007A	SAMP	1	Hexavalent Chromium	11/01/24 10:58 PM	Reported
90	N069631-007AMS	MS	1	Hexavalent Chromium	11/01/24 11:08 PM	Reported
91	CCV-8	CCV1	1	Hexavalent Chromium	11/01/24 11:17 PM	Reported
92	CCB-8	CCB	1	Hexavalent Chromium	11/01/24 11:27 PM	Reported
93	BLANK	BLANK	1	Hexavalent Chromium	11/01/24 11:36 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241101A	Created On:	24Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	02/Nov/24 00:06:57
No. of Injections:	96	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	BLANK	1	1000	Unknown		11/01/2024 09:57	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		11/01/2024 10:11	Finished	CCV @5ppb, IWST-240729A
11	PQL@0.2ppb,CCV2,	3	1000	Unknown		11/01/2024 10:20	Finished	PQL @ 0.2ppb
12	CCB-1.CCB,1,	4	1000	Unknown		11/01/2024 10:30	Finished	CCB R241001A
13	MB-H2O,MBLK,1,	5	1000	Unknown		11/01/2024 10:39	Finished	MB R241001A
14	LCS-H2O,LCS,1,	6	1000	Unknown		11/01/2024 10:49	Finished	LCS @5ppb, IWST-240729B
15	N069582-004A,SAMP	1	1000	Unknown		11/01/2024 11:05	Finished	SAMP,0.2>10 mL
16	N069582-004ADUP,D	2	1000	Unknown		11/01/2024 11:17	Finished	DUP,0.2>10 mL
17	N069582-004AMS,MS	3	1000	Unknown		11/01/2024 11:26	Finished	MS (5ppb), IWST-240729B,0.2
18	N069582-005A,SAMP	4	1000	Unknown		11/01/2024 11:35	Finished	SAMP,0.2>10 mL
19	N069582-006A,SAMP	5	1000	Unknown		11/01/2024 11:45	Finished	SAMP,0.2>10 mL
20	N069629-001A,SAMP	6	1000	Unknown		11/01/2024 11:54	Finished	SAMP,2>10 mL
21	N069629-001AMS,MS	7	1000	Unknown		11/01/2024 12:04	Finished	MS (5ppb), IWST-240729B,2>1
22	N069629-001AMSD,N	8	1000	Unknown		11/01/2024 12:13	Finished	MSD (5ppb), IWST-240729B,2>1
23	CCV-2,CCV1,1,	9	1000	Unknown		11/01/2024 12:23	Finished	CCV @10ppb, IWST-240729A
24	CCB-2,CCB,1,	10	1000	Unknown		11/01/2024 12:32	Finished	CCB R241001A
25	N069629-002A,SAMP	11	1000	Unknown		11/01/2024 12:42	Finished	SAMP,2>10 mL
26	N069629-002AMS,MS	12	1000	Unknown		11/01/2024 12:51	Finished	MS (5ppb), IWST-240729B,2>1
27	N069629-003A,SAMP	13	1000	Unknown		11/01/2024 13:01	Finished	SAMP,10 mL
28	N069629-003AMS,MS	14	1000	Unknown		11/01/2024 13:10	Finished	MS (1ppb), IWST-240729B,10r
29	N069582-006AMS,MS	15	1000	Unknown		11/01/2024 13:19	Finished	MS (5ppb), IWST-240729B,0.2
30	N069582-006AMSD,N	16	1000	Unknown		11/01/2024 13:29	Finished	MSD (5ppb), IWST-240729B,0.2
31	N069582-005A,SAMP	17	1000	Unknown		11/01/2024 13:38	Finished	SAMP,0.1>10 mL
32	N069582-005AMS,MS	18	1000	Unknown		11/01/2024 13:48	Finished	MS (5ppb), IWST-240729B,0.1
33	N069629-001A,SAMP	19	1000	Unknown		11/01/2024 13:57	Finished	SAMP,10 mL
34	N069629-001AMS,MS	20	1000	Unknown		11/01/2024 14:07	Finished	MS (1ppb), IWST-240729B,10r
35	CCV-3,CCV,1,	21	1000	Unknown		11/01/2024 14:16	Finished	CCV @5ppb, IWST-240729A
36	CCB-3,CCB,1,	22	1000	Unknown		11/01/2024 14:26	Finished	CCB R241001A
37	N069629-002A,SAMP	23	1000	Unknown		11/01/2024 14:35	Finished	SAMP,10 mL
38	N069629-002AMS,MS	24	1000	Unknown		11/01/2024 14:45	Finished	MS (1ppb), IWST-240729B,10r
39	N069629-001AMS,MS	25	1000	Unknown		11/01/2024 14:54	Finished	MS (1ppb), IWST-240729B,2>1
40	N069629-002AMS,MS	26	1000	Unknown		11/01/2024 15:03	Finished	MS (1ppb), IWST-240729B,2>1
41	N069631-008A,SAMP	27	1000	Unknown		11/01/2024 15:13	Finished	SAMP,10 mL
42	N069631-008AMS,MS	28	1000	Unknown		11/01/2024 15:22	Finished	MS (1ppb), IWST-240729B,10r
43	N069631-008A,SAMP	29	1000	Unknown		11/01/2024 15:32	Finished	SAMP,2>10 mL
44	N069631-008AMS,MS	30	1000	Unknown		11/01/2024 15:41	Finished	MS (1ppb), IWST-240729B,2>1
45	N069631-009A,SAMP	31	1000	Unknown		11/01/2024 15:51	Finished	SAMP,10 mL
46	N069631-009AMS,MS	32	1000	Unknown		11/01/2024 16:00	Finished	MS (1ppb), IWST-240729B,10r
47	CCV-4,CCV1,1,	1	1000	Unknown		11/01/2024 16:19	Finished	CCV @10ppb, IWST-240729A
48	CCB-4,CCB,1,	2	1000	Unknown		11/01/2024 16:31	Finished	CCB R241001A
49	N069631-009A,SAMP	3	1000	Unknown		11/01/2024 16:40	Finished	SAMP,2>10 mL
50	N069631-009AMS,MS	4	1000	Unknown		11/01/2024 16:50	Finished	MS (1ppb), IWST-240729B,2>1
51	N069631-010A,SAMP	5	1000	Unknown		11/01/2024 16:59	Finished	SAMP,10 mL
52	N069631-010AMS,MS	6	1000	Unknown		11/01/2024 17:08	Finished	MS (1ppb), IWST-240729B,10r
53	N069631-010A,SAMP	7	1000	Unknown		11/01/2024 17:18	Finished	SAMP,2>10 mL
54	N069631-010AMS,MS	8	1000	Unknown		11/01/2024 17:27	Finished	MS (1ppb), IWST-240729B,2>1
55	N069631-011A,SAMP	9	1000	Unknown		11/01/2024 17:37	Finished	SAMP,10 mL
56	N069631-011AMS,MS	10	1000	Unknown		11/01/2024 17:46	Finished	MS (1ppb), IWST-240729B,10r
57	N069631-011A,SAMP	11	1000	Unknown		11/01/2024 17:56	Finished	SAMP,2>10 mL
58	N069631-011AMS,MS	12	1000	Unknown		11/01/2024 18:05	Finished	MS (1ppb), IWST-240729B,2>1
59	CCV-5,CCV,1,	13	1000	Unknown		11/01/2024 18:15	Finished	CCV @5ppb, IWST-240729A
60	CCB-5,CCB,1,	14	1000	Unknown		11/01/2024 18:24	Finished	CCB R241001A

61	N069631-012A,SAMP	15	1000	Unknown		11/01/2024 18:34	Finished	SAMP,10 mL
62	N069631-012AMS,MS	16	1000	Unknown		11/01/2024 18:43	Finished	MS (1ppb), IWST-240729B,10r
63	N069631-012A,SAMP	17	1000	Unknown		11/01/2024 18:52	Finished	SAMP,2>10 mL
64	N069631-012AMS,MS	18	1000	Unknown		11/01/2024 19:02	Finished	MS (1ppb), IWST-240729B,2>1
65	N069631-013A,SAMP	19	1000	Unknown		11/01/2024 19:11	Finished	SAMP,10 mL
66	N069631-013AMS,MS	20	1000	Unknown		11/01/2024 19:21	Finished	MS (1ppb), IWST-240729B,10r
67	N069631-013A,SAMP	21	1000	Unknown		11/01/2024 19:30	Finished	SAMP,2>10 mL
68	N069631-013AMS,MS	22	1000	Unknown		11/01/2024 19:40	Finished	MS (1ppb), IWST-240729B,2>1
69	N069631-014A,SAMP	23	1000	Unknown		11/01/2024 19:49	Finished	MS (1ppb), IWST-240729B,2>1
70	N069631-014AMS,MS	24	1000	Unknown		11/01/2024 19:59	Finished	SAMP,10 mL
71	CCV-6,CCV1,1,	25	1000	Unknown		11/01/2024 20:08	Finished	CCV @10ppb, IWST-240729A
72	CCB-6,CCB,1,	26	1000	Unknown		11/01/2024 20:18	Finished	CCB R241001A
73	N069631-014A,SAMP	27	1000	Unknown		11/01/2024 20:27	Finished	SAMP,2>10 mL
74	N069631-014AMS,MS	28	1000	Unknown		11/01/2024 20:36	Finished	MS (1ppb), IWST-240729B,2>1
75	N069631-001A,SAMP	29	1000	Unknown		11/01/2024 20:46	Finished	SAMP,10 mL
76	N069631-001AMS,MS	30	1000	Unknown		11/01/2024 20:55	Finished	MS (1ppb), IWST-240729B,10r
77	N069631-002A,SAMP	31	1000	Unknown		11/01/2024 21:05	Finished	SAMP,10 mL
78	N069631-002AMS,MS	32	1000	Unknown		11/01/2024 21:14	Finished	MS (1ppb), IWST-240729B,10r
79	N069631-003A,SAMP	33	1000	Unknown		11/01/2024 21:24	Finished	SAMP,10 mL
80	N069631-003AMS,MS	34	1000	Unknown		11/01/2024 21:33	Finished	MS (1ppb), IWST-240729B,10r
81	N069631-004A,SAMP	35	1000	Unknown		11/01/2024 21:43	Finished	SAMP,10 mL
82	N069631-004AMS,MS	36	1000	Unknown		11/01/2024 21:52	Finished	MS (1ppb), IWST-240729B,10r
83	CCV-7,CCV,1,	37	1000	Unknown		11/01/2024 22:02	Finished	CCV @5ppb, IWST-240729A
84	CCB-7,CCB,1,	38	1000	Unknown		11/01/2024 22:11	Finished	CCB R241001A
85	N069631-005A,SAMP	39	1000	Unknown		11/01/2024 22:20	Finished	SAMP,10 mL
86	N069631-005AMS,MS	40	1000	Unknown		11/01/2024 22:30	Finished	MS (1ppb), IWST-240729B,10r
87	N069631-006A,SAMP	41	1000	Unknown		11/01/2024 22:39	Finished	SAMP,10 mL
88	N069631-006AMS,MS	42	1000	Unknown		11/01/2024 22:49	Finished	MS (1ppb), IWST-240729B,10r
89	N069631-007A,SAMP	43	1000	Unknown		11/01/2024 22:58	Finished	SAMP,10 mL
90	N069631-007AMS,MS	44	1000	Unknown		11/01/2024 23:08	Finished	MS (1ppb), IWST-240729B,10r
91	CCV-8,CCV1,1,	45	1000	Unknown		11/01/2024 23:17	Finished	CCV @10ppb, IWST-240729A
92	CCB-8,CCB,1,	46	1000	Unknown		11/01/2024 23:27	Finished	CCB R241001A
93	BLANK	47	1000	Unknown		11/01/2024 23:36	Finished	BLANK
94	SHUTDOWN	48	1000	Unknown		11/01/2024 23:46	Finished	
95	Eluent: R241029A	49	1000	Unknown		n.a.	Finished	
96	PCR: R241029B	50	1000	Unknown		n.a.	Finished	



INJECTION LOG: 241104A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	11/04/24 10:47 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	11/04/24 11:01 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	11/04/24 11:10 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	11/04/24 11:20 AM	Reported
13	MB-R195216	MBLK	1	Hexavalent Chromium	11/04/24 11:29 AM	Reported
14	LCS-R195216	LCS	1	Hexavalent Chromium	11/04/24 11:39 AM	Reported
15	N069263-003A	SAMP	1	Hexavalent Chromium	11/04/24 12:35 PM	Reported
16	N069263-003AMS	MS	1	Hexavalent Chromium	11/04/24 12:45 PM	Reported
17	N069263-003A	SAMP	5	Hexavalent Chromium	11/04/24 12:54 PM	Not Reported
18	N069263-003AMS	MS	5	Hexavalent Chromium	11/04/24 1:04 PM	Not Reported
19	N069638-001A	SAMP	5	Hexavalent Chromium	11/04/24 1:13 PM	Reported
20	N069638-001AMS	MS	5	Hexavalent Chromium	11/04/24 1:23 PM	Reported
21	N069638-002A	SAMP	5	Hexavalent Chromium	11/04/24 1:32 PM	Reported
22	N069638-002AMS	MS	5	Hexavalent Chromium	11/04/24 1:42 PM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	11/04/24 1:51 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	11/04/24 2:01 PM	Reported
25	N069638-001ADUP	DUP	5	Hexavalent Chromium	11/04/24 2:43 PM	Reported
26	N069638-001AMSD	MSD	5	Hexavalent Chromium	11/04/24 2:53 PM	Reported
27	N069638-007A	SAMP	1	Hexavalent Chromium	11/04/24 3:03 PM	Reported
28	N069638-007AMS	MS	1	Hexavalent Chromium	11/04/24 3:12 PM	Reported
29	N069638-008A	SAMP	1	Hexavalent Chromium	11/04/24 3:22 PM	Reported
30	N069638-008AMS	MS	1	Hexavalent Chromium	11/04/24 3:31 PM	Reported
31	N069631-015A	SAMP	1	Hexavalent Chromium	11/04/24 3:41 PM	Reported
32	N069631-015AMS	MS	1	Hexavalent Chromium	11/04/24 3:50 PM	Reported
33	N069638-003A	SAMP	1	Hexavalent Chromium	11/04/24 4:00 PM	Not Reported
34	N069638-003AMS	MS	1	Hexavalent Chromium	11/04/24 4:09 PM	Not Reported
35	CCV-3	CCV	1	Hexavalent Chromium	11/04/24 4:19 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	11/04/24 4:28 PM	Reported
37	N069638-003A	SAMP	5	Hexavalent Chromium	11/04/24 4:37 PM	Reported
38	N069638-003AMS	MS	5	Hexavalent Chromium	11/04/24 4:47 PM	Reported
39	N069638-009A	SAMP	1	Hexavalent Chromium	11/04/24 4:56 PM	Not Reported
40	N069638-009AMS	MS	1	Hexavalent Chromium	11/04/24 5:06 PM	Not Reported
41	N069638-009AMS	MS	5	Hexavalent Chromium	11/04/24 5:15 PM	Reported
42	N069638-009A	SAMP	5	Hexavalent Chromium	11/04/24 5:25 PM	Reported

INJECTION LOG: 241104A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069638-004A	SAMP	1	Hexavalent Chromium	11/04/24 5:34 PM	Reported
44	N069638-004AMS	MS	1	Hexavalent Chromium	11/04/24 5:44 PM	Reported
45	N069638-005A	SAMP	1	Hexavalent Chromium	11/04/24 5:53 PM	Reported
46	N069638-005AMS	MS	1	Hexavalent Chromium	11/04/24 6:03 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	11/04/24 6:12 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	11/04/24 6:22 PM	Reported
49	N069638-006A	SAMP	1	Hexavalent Chromium	11/04/24 6:31 PM	Reported
50	N069638-006AMS	MS	1	Hexavalent Chromium	11/04/24 6:40 PM	Reported
51	N069638-010A	SAMP	1	Hexavalent Chromium	11/04/24 6:50 PM	Reported
52	N069638-010AMS	MS	1	Hexavalent Chromium	11/04/24 6:59 PM	Reported
53	N069234-002A	SAMP	1	Hexavalent Chromium	11/04/24 7:11 PM	Not Reported
54	N069234-002AMS	MS	1	Hexavalent Chromium	11/04/24 7:21 PM	Not Reported
55	N069234-007A	SAMP	1	Hexavalent Chromium	11/04/24 7:30 PM	Not Reported
56	N069234-007AMS	MS	1	Hexavalent Chromium	11/04/24 7:40 PM	Not Reported
57	N069234-016A	SAMP	1	Hexavalent Chromium	11/04/24 7:49 PM	Not Reported
58	N069234-016AMS	MS	1	Hexavalent Chromium	11/04/24 7:59 PM	Not Reported
59	CCV-5	CCV	1	Hexavalent Chromium	11/04/24 8:08 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	11/04/24 8:18 PM	Reported
61	N069306-004A	SAMP	1	Hexavalent Chromium	11/04/24 8:27 PM	Not Reported
62	N069306-004AMS	MS	1	Hexavalent Chromium	11/04/24 8:37 PM	Not Reported
63	N069306-005A	SAMP	1	Hexavalent Chromium	11/04/24 8:46 PM	Not Reported
64	N069306-005AMS	MS	1	Hexavalent Chromium	11/04/24 8:55 PM	Not Reported
65	N069306-008A	SAMP	1	Hexavalent Chromium	11/04/24 9:05 PM	Not Reported
66	N069306-008AMS	MS	1	Hexavalent Chromium	11/04/24 9:14 PM	Not Reported
67	N069306-014A	SAMP	1	Hexavalent Chromium	11/04/24 9:24 PM	Reported
68	N069306-014AMS	MS	1	Hexavalent Chromium	11/04/24 9:33 PM	Reported
69	N069306-014AMSD	MSD	1	Hexavalent Chromium	11/04/24 9:43 PM	Reported
70	CCV-6	CCV1	1	Hexavalent Chromium	11/04/24 9:52 PM	Reported
71	CCB-6	CCB	1	Hexavalent Chromium	11/04/24 10:02 PM	Reported
72	BLANK	BLANK	1	Hexavalent Chromium	11/04/24 10:11 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241104A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	04/Nov/24 22:41:56
No. of Injections:	75	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	BLANK	1	1000	Unknown		11/04/2024 10:47	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		11/04/2024 11:01	Finished	CCV @5ppb, IWST-240729A
11	PQL @0.2ppb,CCV2,	3	1000	Unknown		11/04/2024 11:10	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		11/04/2024 11:20	Finished	CCB R241001A
13	MB-H2O,MBLK,1,	5	1000	Unknown		11/04/2024 11:29	Finished	MB R241001A
14	LCS-H2O,LCS,1,	6	1000	Unknown		11/04/2024 11:39	Finished	LCS @5ppb, IWST-240729B
15	N069263-003A,SAMP	2	1000	Unknown		11/04/2024 12:35	Finished	SAMP,10 mL
16	N069263-003AMS,M\$	3	1000	Unknown		11/04/2024 12:45	Finished	MS (1ppb), IWST-240729B,10r
17	N069263-003A,SAMP	4	1000	Unknown		11/04/2024 12:54	Finished	SAMP,2>10 mL
18	N069263-003AMS,M\$	5	1000	Unknown		11/04/2024 13:04	Finished	MS (1ppb), IWST-240729B,2>
19	N069638-001A,SAMP	6	1000	Unknown		11/04/2024 13:13	Finished	SAMP,2>10 mL
20	N069638-001AMS,M\$	7	1000	Unknown		11/04/2024 13:23	Finished	MS (5ppb), IWST-240729B,2>
21	N069638-002A,SAMP	8	1000	Unknown		11/04/2024 13:32	Finished	SAMP,2>10 mL
22	N069638-002AMS,M\$	9	1000	Unknown		11/04/2024 13:42	Finished	MS (5ppb), IWST-240729B,2>
23	CCV-2,CCV1,1,	10	1000	Unknown		11/04/2024 13:51	Finished	CCV @10ppb, IWST-240729A
24	CCB-2,CCB,1,	11	1000	Unknown		11/04/2024 14:01	Finished	CCB R241001A
25	N069638-001ADUP,D	1	1000	Unknown		11/04/2024 14:43	Finished	DUP,2>10 mL
26	N069638-001AMSD,I	2	1000	Unknown		11/04/2024 14:53	Finished	MSD (5ppb), IWST-240729B,2
27	N069638-007A,SAMP	3	1000	Unknown		11/04/2024 15:03	Finished	SAMP,10 mL
28	N069638-007AMS,M\$	4	1000	Unknown		11/04/2024 15:12	Finished	MS (1ppb), IWST-240729B,10r
29	N069638-008A,SAMP	5	1000	Unknown		11/04/2024 15:22	Finished	SAMP,10 mL
30	N069638-008AMS,M\$	6	1000	Unknown		11/04/2024 15:31	Finished	MS (1ppb), IWST-240729B,10r
31	N069631-015A,SAMP	7	1000	Unknown		11/04/2024 15:41	Finished	SAMP,10 mL
32	N069631-015AMS,M\$	8	1000	Unknown		11/04/2024 15:50	Finished	MS (1ppb), IWST-240729B,10r
33	N069638-003A,SAMP	9	1000	Unknown		11/04/2024 16:00	Finished	SAMP,10 mL
34	N069638-003AMS,M\$	10	1000	Unknown		11/04/2024 16:09	Finished	MS (1ppb), IWST-240729B,10r
35	CCV-3,CCV,1,	11	1000	Unknown		11/04/2024 16:19	Finished	CCV @5ppb, IWST-240729A
36	CCB-3,CCB,1,	12	1000	Unknown		11/04/2024 16:28	Finished	CCB R241001A
37	N069638-003A,SAMP	13	1000	Unknown		11/04/2024 16:37	Finished	SAMP,2>10 mL
38	N069638-003AMS,M\$	14	1000	Unknown		11/04/2024 16:47	Finished	MS (1ppb), IWST-240729B,2>
39	N069638-009A,SAMP	15	1000	Unknown		11/04/2024 16:56	Finished	SAMP,10 mL
40	N069638-009AMS,M\$	16	1000	Unknown		11/04/2024 17:06	Finished	MS (1ppb), IWST-240729B,10r
41	N069638-009A,SAMP	17	1000	Unknown		11/04/2024 17:15	Finished	SAMP,2>10 mL
42	N069638-009AMS,M\$	18	1000	Unknown		11/04/2024 17:25	Finished	MS (1ppb), IWST-240729B,2>
43	N069638-004A,SAMP	19	1000	Unknown		11/04/2024 17:34	Finished	SAMP,10 mL
44	N069638-004AMS,M\$	20	1000	Unknown		11/04/2024 17:44	Finished	MS (1ppb), IWST-240729B,10r
45	N069638-005A,SAMP	21	1000	Unknown		11/04/2024 17:53	Finished	SAMP,10 mL
46	N069638-005AMS,M\$	22	1000	Unknown		11/04/2024 18:03	Finished	MS (1ppb), IWST-240729B,10r
47	CCV-4,CCV1,1,	23	1000	Unknown		11/04/2024 18:12	Finished	CCV @10ppb, IWST-240729A
48	CCB-4,CCB,1,	24	1000	Unknown		11/04/2024 18:22	Finished	CCB R241001A
49	N069638-006A,SAMP	25	1000	Unknown		11/04/2024 18:31	Finished	SAMP,10 mL
50	N069638-006AMS,M\$	26	1000	Unknown		11/04/2024 18:40	Finished	MS (1ppb), IWST-240729B,10r
51	N069638-010A,SAMP	27	1000	Unknown		11/04/2024 18:50	Finished	SAMP,10 mL
52	N069638-010AMS,M\$	28	1000	Unknown		11/04/2024 18:59	Finished	MS (5ppb), IWST-240729B,10r
53	N069234-002A,SAMP	29	1000	Unknown		11/04/2024 19:11	Finished	SAMP,10 mL
54	N069234-002AMS,M\$	30	1000	Unknown		11/04/2024 19:21	Finished	MS (5ppb), IWST-240729B,10r
55	N069234-007A,SAMP	31	1000	Unknown		11/04/2024 19:30	Finished	SAMP,10 mL
56	N069234-007AMS,M\$	32	1000	Unknown		11/04/2024 19:40	Finished	MS (1ppb), IWST-240729B,10r
57	N069234-016A,SAMP	33	1000	Unknown		11/04/2024 19:49	Finished	SAMP,10 mL
58	N069234-016AMS,M\$	34	1000	Unknown		11/04/2024 19:59	Finished	MS (5ppb), IWST-240729B,10r
59	CCV-5,CCV,1,	35	1000	Unknown		11/04/2024 20:08	Finished	CCV @5ppb, IWST-240729A
60	CCB-5,CCB,1,	36	1000	Unknown		11/04/2024 20:18	Finished	CCB R241001A

61	N069306-004A,SAMF	37	1000	Unknown	11/04/2024 20:27	Finished	SAMP,10 mL
62	N069306-004AMS,M\$	38	1000	Unknown	11/04/2024 20:37	Finished	MS (5ppb), IWST-240729B,10r
63	N069306-005A,SAMF	39	1000	Unknown	11/04/2024 20:46	Finished	SAMP,10 mL
64	N069306-005AMS,M\$	40	1000	Unknown	11/04/2024 20:55	Finished	MS (5ppb), IWST-240729B,10r
65	N069306-008A,SAMF	41	1000	Unknown	11/04/2024 21:05	Finished	SAMP,10 mL
66	N069306-008AMS,M\$	42	1000	Unknown	11/04/2024 21:14	Finished	MS (1ppb), IWST-240729B,10r
67	N069306-014A,SAMF	43	1000	Unknown	11/04/2024 21:24	Finished	SAMP,10 mL
68	N069306-014AMS,M\$	44	1000	Unknown	11/04/2024 21:33	Finished	MS (1ppb), IWST-240729B,10r
69	N069306-014AMSD,N	45	1000	Unknown	11/04/2024 21:43	Finished	MSD (1ppb), IWST-240729B,10r
70	CCV-6,CCV1,1,	46	1000	Unknown	11/04/2024 21:52	Finished	CCV @10ppb, IWST-240729A
71	CCB-6,CCB,1,	47	1000	Unknown	11/04/2024 22:02	Finished	CCB R241001A
72	BLANK	48	1000	Unknown	11/04/2024 22:11	Finished	BLANK
73	SHUTDOWN	49	1000	Unknown	11/04/2024 22:21	Finished	
74	Eluent: R241101A	50	1000	Unknown	n.a.	Finished	
75	PCR: R241101B	51	1000	Unknown	n.a.	Finished	



SAMPLE PREPARATION LOG



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

Hexavalent Chromium Preparation and Runlog

Sample Preparation

Date Prepared: 11/1/24
 Time Prepared: 10:54
 Prepared By: WA

Reagent ID:
 Sulfuric Acid: 16020 pH meter ID: 01
 Diphenylcarbazide: 16810
 NH₄OH + NH₄SO₄ eluent: N241029A
 NH₄OH + NH₄SO₄ buffer: N241001A

	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	N069629 1A	9.41	-	-200μ	-200μ		
2)	2A	9.28	-				
3)	3A	9.66	-				
4)	N069629-10	9.74	-				
5)	2A	9.72	-				
6)	3A	9.70	-				
7)	4A	9.71	-				
8)	5A	9.75	-				
9)	6A	9.70	-				
10)	7A	9.69	-				
11)	8A	9.74	-				
12)	9A	9.28	-				
13)	10A	9.76	-				
14)	11A	9.76	-				
15)	12A	9.71	-				
	13A	9.41	-				

Sample Preparation

Date Prepared: 11/1/24
 Time Prepared: 10:54
 Prepared By: RA

Reagent ID:
 Sulfuric Acid: 16020 pH meter ID: 01
 Diphenylcarbazide: 16810
 NH₄OH + NH₄SO₄ eluent: N241029A
 NH₄OH + NH₄SO₄ buffer: N241001A

	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	N069629-14A	9.44	-	-200μ	-200μ		
2)	15A	9.68	-				
3)							
4)							
5)							
6)							
7)							
8)							
9)							
10)							
11)							
12)							
13)							
14)							
15)							

Logbook No. 26



INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
INTEGRATION OF ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
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"Serving Clients with Passion and Professionalism"

(EPA 218.6) - INITIAL CALIBRATION

Instrument ID: NV00922-IC7
Date Calibrated: 10/28/2024

Initial Calibration:

Hexavalent Chromium	STD1	STD2	STD3	STD4	STD5	STD6	
COMPOUND, in ug/L	0.2	1	5	10	15	20	R ²
Area,mAU*min	0.0527	0.2779	1.4196	2.8235	4.2553	5.6829	1.0000
Measured, in ug/L	0.185700	0.979400	5.002800	9.950700	14.996600	20.027700	
Relative Error (%RE)	-7.2%		0.1%				

	Stock	Working
Standard Concentration:	1,000,000 PPB	1,000 PPB
Standard ID:	ISST-240705H	IWST-240729A

Calibration Acceptance Criteria: > 0.999 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
INTEGRATION • INNOVATION • IMPROVEMENT • INSIGHT

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173						
Client ID: ICV	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6285580							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.730	0.20	5.000	0	94.6	90	110				

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173						
Client ID: ZZZZZZ	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6285581							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.211	0.20	0.2000	0	106	80	120				

Sample ID CCV-1	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173						
Client ID: CCV	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285583							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.858	0.20	5.000	0	97.2	95	105				

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173						
Client ID: ZZZZZZ	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285584							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.212	0.20	0.2000	0	106	80	120				

Sample ID CCV-2	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173						
Client ID: ZZZZZZ	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285592							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.740	0.20	10.00	0	97.4	95	105				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCV-3	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173						
Client ID: CCV	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285602							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.072	0.20	5.000	0	101	95	105				

Sample ID CCV-4	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173						
Client ID: ZZZZZZ	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285608							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.716	0.20	10.00	0	97.2	95	105				

Sample ID CCV-5	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173						
Client ID: CCV	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285616							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.000	0.20	5.000	0	100	95	105				

Sample ID CCV-6	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173						
Client ID: ZZZZZZ	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285622							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.874	0.20	10.00	0	98.7	95	105				

Sample ID CCV-7	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173						
Client ID: CCV	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285634							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.892	0.20	5.000	0	97.8	95	105				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCV-8	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173						
Client ID: ZZZZZZ	Batch ID: R195173	TestNo: EPA 218.6		Analysis Date: 11/1/2024	SeqNo: 6285642						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.868	0.20	10.00	0	98.7	95	105				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216
Client ID: ICV	Batch ID: R195216	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6287783	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	4.730	0.20	5.000	0	94.6 90 110

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216
Client ID: ZZZZZ	Batch ID: R195216	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6287784	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	0.211	0.20	0.2000	0	106 80 120

Sample ID CCV-1	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216
Client ID: CCV	Batch ID: R195216	TestNo: EPA 218.6	Analysis Date: 11/4/2024	SeqNo: 6287786	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	4.870	0.20	5.000	0	97.4 95 105

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216
Client ID: ZZZZZ	Batch ID: R195216	TestNo: EPA 218.6	Analysis Date: 11/4/2024	SeqNo: 6287787	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	0.188	0.20	0.2000	0	94.2 80 120

Sample ID CCV-2	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216
Client ID: ZZZZZ	Batch ID: R195216	TestNo: EPA 218.6	Analysis Date: 11/4/2024	SeqNo: 6287797	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	9.790	0.20	10.00	0	97.9 95 105

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCV-3	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216
Client ID: CCV	Batch ID: R195216	TestNo: EPA 218.6	Analysis Date: 11/4/2024	SeqNo: 6287807	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	4.920	0.20	5.000	0	98.4	95	105
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Sample ID CCV-4	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216
Client ID: ZZZZZ	Batch ID: R195216	TestNo: EPA 218.6	Analysis Date: 11/4/2024	SeqNo: 6287817	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	9.899	0.20	10.00	0	99.0	95	105
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Sample ID CCV-5	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216
Client ID: CCV	Batch ID: R195216	TestNo: EPA 218.6	Analysis Date: 11/4/2024	SeqNo: 6287823	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	5.028	0.20	5.000	0	101	95	105
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Sample ID CCV-6	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216
Client ID: ZZZZZ	Batch ID: R195216	TestNo: EPA 218.6	Analysis Date: 11/4/2024	SeqNo: 6287828	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	10.044	0.20	10.00	0	100	95	105
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
INSTRUMENT BLANKS AND ENVIRONMENTAL TESTING

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173
Client ID: ICB	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6285582	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	ND	0.20			
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Sample ID CCB-1	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173
Client ID: CCB	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285585	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	ND	0.20			
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Sample ID CCB-2	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173
Client ID: CCB	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285593	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	ND	0.20			
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Sample ID CCB-3	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173
Client ID: CCB	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285603	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	ND	0.20			
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Sample ID CCB-4	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173
Client ID: CCB	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285609	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium	ND	0.20			
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCB-5	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173
Client ID: CCB	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285617	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-6	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173
Client ID: CCB	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285623	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-7	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173
Client ID: CCB	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285635	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-8	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195173
Client ID: CCB	Batch ID: R195173	TestNo: EPA 218.6	Analysis Date: 11/1/2024	SeqNo: 6285643	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216						
Client ID: ICB	Batch ID: R195216	TestNo: EPA 218.6		Analysis Date: 10/28/2024	SeqNo: 6287785						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

ND

0.20

Sample ID CCB-1	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216						
Client ID: CCB	Batch ID: R195216	TestNo: EPA 218.6		Analysis Date: 11/4/2024	SeqNo: 6287788						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

ND

0.20

Sample ID CCB-2	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216						
Client ID: CCB	Batch ID: R195216	TestNo: EPA 218.6		Analysis Date: 11/4/2024	SeqNo: 6287798						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

ND

0.20

Sample ID CCB-3	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216						
Client ID: CCB	Batch ID: R195216	TestNo: EPA 218.6		Analysis Date: 11/4/2024	SeqNo: 6287808						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

ND

0.20

Sample ID CCB-4	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216						
Client ID: CCB	Batch ID: R195216	TestNo: EPA 218.6		Analysis Date: 11/4/2024	SeqNo: 6287818						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium

ND

0.20

Qualifiers:

B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 DO Surrogate Diluted Out

E Value above quantitation range
 R RPD outside accepted recovery limits
 Calculations are based on raw values

H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCB-5	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216
Client ID: CCB	Batch ID: R195216	TestNo: EPA 218.6	Analysis Date: 11/4/2024	SeqNo: 6287824	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-6	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216
Client ID: CCB	Batch ID: R195216	TestNo: EPA 218.6	Analysis Date: 11/4/2024	SeqNo: 6287829	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

RETENTION TIME SUMMARY



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 11/1/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.706	
CCV-2	5.706	
CCV-3	5.706	
CCV-4	5.706	
CCV-5	5.706	
CCV-6	5.698	
CCV-7	5.698	
CCV-8	5.698	

Average 5.703
Actual RT Window 5.623 - 5.783
Applied RT Window 5.503 - 5.903

MB-R195173	N.A.	N.A.
LCS-R195173	5.706	PASS
N069582-004A	5.706	PASS
N069582-004ADUP	5.706	PASS
N069582-004AMS	5.706	PASS
N069582-005A	5.706	PASS
N069582-006A	5.706	PASS
N069629-001A	5.698	PASS
N069629-001AMS	5.698	PASS
N069629-001AMSD	5.698	PASS
N069629-002A	5.698	PASS
N069629-002AMS	5.706	PASS
N069629-003A	N.A.	N.A.
N069629-003AMS	5.698	PASS
N069582-006AMS	5.698	PASS
N069582-006AMSD	5.698	PASS
N069582-005A	5.706	PASS
N069582-005AMS	5.706	PASS
N069629-001A	5.673	PASS
N069629-001AMS	5.673	PASS

Reviewed by:

MRecha 11/7/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 11/1/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.706	
CCV-2	5.706	
CCV-3	5.706	
CCV-4	5.706	
CCV-5	5.706	
CCV-6	5.698	
CCV-7	5.698	
CCV-8	5.698	

Average 5.703
Actual RT Window 5.623 - 5.783
Applied RT Window 5.503 - 5.903

N069629-002A	5.673	PASS
N069629-002AMS	5.673	PASS
N069629-001AMS	5.698	PASS
N069629-002AMS	5.698	PASS
N069631-008A	N.A.	N.A.
N069631-008AMS	N.A.	N.A.
N069631-008A	N.A.	N.A.
N069631-008AMS	5.623	PASS
N069631-009A	N.A.	N.A.
N069631-009AMS	N.A.	N.A.
N069631-009A	N.A.	N.A.
N069631-009AMS	5.648	PASS
N069631-010A	N.A.	N.A.
N069631-010AMS	N.A.	N.A.
N069631-010A	N.A.	N.A.
N069631-010AMS	5.656	PASS
N069631-011A	N.A.	N.A.
N069631-011AMS	N.A.	N.A.
N069631-011A	N.A.	N.A.
N069631-011AMS	5.598	PASS

Reviewed by:

M. Rocha 11/7/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 11/1/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.706	
CCV-2	5.706	
CCV-3	5.706	
CCV-4	5.706	
CCV-5	5.706	
CCV-6	5.698	
CCV-7	5.698	
CCV-8	5.698	

Average 5.703
Actual RT Window 5.623 - 5.783
Applied RT Window 5.503 - 5.903

N069631-012A	N.A.	N.A.
N069631-012AMS	N.A.	N.A.
N069631-012A	N.A.	N.A.
N069631-012AMS	5.623	PASS
N069631-013A	N.A.	N.A.
N069631-013A	N.A.	N.A.
N069631-013AMS	5.648	PASS
N069631-014A	N.A.	N.A.
N069631-014AMS	N.A.	N.A.
N069631-014A	N.A.	N.A.
N069631-014AMS	5.648	PASS
N069631-001A	5.665	PASS
N069631-001AMS	5.698	PASS
N069631-002A	N.A.	N.A.
N069631-002AMS	5.706	PASS
N069631-003A	N.A.	N.A.
N069631-003AMS	5.698	PASS
N069631-004A	5.690	PASS
N069631-004AMS	5.690	PASS
N069631-005A	N.A.	N.A.

Reviewed by:

MRecha 11/7/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 11/1/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.706	
CCV-2	5.706	
CCV-3	5.706	
CCV-4	5.706	
CCV-5	5.706	
CCV-6	5.698	
CCV-7	5.698	
CCV-8	5.698	

Average 5.703
Actual RT Window 5.623 - 5.783
Applied RT Window 5.503 - 5.903

N069631-005AMS	5.690	PASS
N069631-006A	5.781	PASS
N069631-006AMS	5.698	PASS
N069631-007A	N.A.	N.A.
N069631-007AMS	5.698	PASS

Reviewed by:

M. Rocha 11/7/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 11/4/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.690	
CCV-2	5.690	
CCV-3	5.698	
CCV-4	5.698	
CCV-5	5.698	
CCV-6	5.698	

Average 5.695
Actual RT Window 5.615 - 5.775
Applied RT Window 5.495 - 5.895

MB-R195216	N.A.	N.A.
LCS-R195216	5.690	PASS
N069263-003A	N.A.	N.A.
N069263-003AMS	5.540	PASS
N069263-003A	N.A.	N.A.
N069263-003AMS	5.665	PASS
N069638-001A	5.640	PASS
N069638-001AMS	5.640	PASS
N069638-002A	5.656	PASS
N069638-002AMS	5.656	PASS
N069638-001ADUP	5.640	PASS
N069638-001AMSD	5.640	PASS
N069638-007A	5.690	PASS
N069638-007AMS	5.681	PASS
N069638-008A	N.A.	N.A.
N069638-008AMS	5.665	PASS
N069631-015A	N.A.	N.A.
N069631-015AMS	5.690	PASS
N069638-003A	N.A.	N.A.
N069638-003AMS	N.A.	N.A.
N069638-003A	N.A.	N.A.
N069638-003AMS	5.640	PASS

Reviewed by:

dMrocha 12/2/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 11/4/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.690	
CCV-2	5.690	
CCV-3	5.698	
CCV-4	5.698	
CCV-5	5.698	
CCV-6	5.698	

Average 5.695
Actual RT Window 5.615 - 5.775
Applied RT Window 5.495 - 5.895

N069638-009A	N.A.	N.A.
N069638-009AMS	5.506	PASS
N069638-009AMS	5.665	PASS
N069638-009A	N.A.	N.A.
N069638-004A	N.A.	N.A.
N069638-004AMS	5.698	PASS
N069638-005A	N.A.	N.A.
N069638-005AMS	5.690	PASS
N069638-006A	N.A.	N.A.
N069638-006AMS	5.698	PASS
N069638-010A	N.A.	N.A.
N069638-010AMS	5.690	PASS
N069234-002A	5.690	PASS
N069234-002AMS	5.690	PASS
N069234-007A	5.673	PASS
N069234-007AMS	5.673	PASS
N069234-016A	5.690	PASS
N069234-016AMS	5.690	PASS
N069306-004A	5.690	PASS
N069306-004AMS	5.690	PASS
N069306-005A	5.690	PASS
N069306-005AMS	5.690	PASS

Reviewed by:

dMocha 12/2/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 11/4/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.690	
CCV-2	5.690	
CCV-3	5.698	
CCV-4	5.698	
CCV-5	5.698	
CCV-6	5.698	

Average 5.695
Actual RT Window 5.615 - 5.775
Applied RT Window 5.495 - 5.895

N069306-008A	5.690	PASS
N069306-008AMS	5.690	PASS
N069306-014A	5.681	PASS
N069306-014AMS	5.681	PASS
N069306-014AMSD	5.681	PASS

Reviewed by:

MRecha 12/2/2024

MDL STUDY



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL AND ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

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METHOD DETECTION LIMIT (Spiked)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): 10/4/2022, 11/15/2022, 1/4/2023, 3/1/2023, 4/4/2023, 5/16/2023, 7/10/2023, 8/2/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: ug/L

Instrument Name: **IC-07**

Datafile 221004A D12 221115A D12 230104A D11 230301C D14 230404A D11 230516A D11 230710A D12 230802A D11

Analyte	#1	#2	#3	#4	#5	#6	#7	#8	Spike Conc., ug/L	SD	t _(n-1) value	MDLs	PQL
Hexavalent Chromium	0.199	0.194	0.169	0.190	0.167	0.194	0.201	0.185	0.20	0.0129	2.998	0.0387	0.20

METHOD DETECTION LIMIT (Blanks)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Instrument Name: **IC-07**

Analyte	MDLb	#of Records
Hexavalent Chromium	0.00	166

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

RAW DATA



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INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	ICV	ICV	1	Hexavalent Chromium	10/28/24 10:49 AM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/28/24 10:59 AM	Reported
11	ICB	ICB	1	Hexavalent Chromium	10/28/24 11:08 AM	Reported
12	MB-R194895	MBLK	1	Hexavalent Chromium	10/28/24 11:17 AM	Reported
13	LCS-R194895	LCS	1	Hexavalent Chromium	10/28/24 11:27 AM	Reported
14	N069445-001A	SAMP	1	Hexavalent Chromium	10/28/24 11:36 AM	Reported
15	N069445-001AMS	MS	1	Hexavalent Chromium	10/28/24 11:46 AM	Reported
16	N069445-001AMSD	MSD	1	Hexavalent Chromium	10/28/24 11:55 AM	Reported
17	N069445-001ADUP	DUP	1	Hexavalent Chromium	10/28/24 12:05 PM	Reported
18	N069453-001A	SAMP	1	Hexavalent Chromium	10/28/24 12:14 PM	Reported
19	N069453-002A	SAMP	1	Hexavalent Chromium	10/28/24 12:24 PM	Reported
20	N069453-003A	SAMP	1	Hexavalent Chromium	10/28/24 12:33 PM	Reported
21	N069453-004A	SAMP	1	Hexavalent Chromium	10/28/24 12:43 PM	Reported
22	CCV-1	CCV1	1	Hexavalent Chromium	10/28/24 12:52 PM	Reported
23	CCB-1	CCB	1	Hexavalent Chromium	10/28/24 1:02 PM	Reported
24	N069444-001A	SAMP	1	Hexavalent Chromium	10/28/24 1:11 PM	Reported
25	N069444-001AMS	MS	1	Hexavalent Chromium	10/28/24 1:20 PM	Reported
26	N069444-002A	SAMP	1	Hexavalent Chromium	10/28/24 1:30 PM	Reported
27	N069444-002AMS	MS	1	Hexavalent Chromium	10/28/24 1:39 PM	Reported
28	N069444-003A	SAMP	1	Hexavalent Chromium	10/28/24 1:49 PM	Not Reported
29	N069444-003AMS	MS	1	Hexavalent Chromium	10/28/24 1:58 PM	Not Reported
30	N069444-001A	SAMP	5	Hexavalent Chromium	10/28/24 2:08 PM	Not Reported
31	N069444-001AMS	MS	5	Hexavalent Chromium	10/28/24 2:17 PM	Not Reported
32	N069444-002A	SAMP	5	Hexavalent Chromium	10/28/24 2:27 PM	Not Reported
33	N069444-002AMS	MS	5	Hexavalent Chromium	10/28/24 2:36 PM	Not Reported
34	CCV-2	CCV	1	Hexavalent Chromium	10/28/24 2:46 PM	Reported
35	CCB-2	CCB	1	Hexavalent Chromium	10/28/24 2:55 PM	Reported
36	N069444-003A	SAMP	5	Hexavalent Chromium	10/28/24 3:04 PM	Reported
37	N069444-003AMS	MS	5	Hexavalent Chromium	10/28/24 3:14 PM	Reported
38	N069233-009A	SAMP	5	Hexavalent Chromium	10/28/24 3:23 PM	Not Reported
39	N069233-009AMS	MS	5	Hexavalent Chromium	10/28/24 3:33 PM	Not Reported
40	N069233-015A	SAMP	5	Hexavalent Chromium	10/28/24 3:42 PM	Not Reported
41	N069233-015AMS	MS	5	Hexavalent Chromium	10/28/24 3:52 PM	Not Reported
42	CCV-3	CCV1	1	Hexavalent Chromium	10/28/24 4:01 PM	Reported

INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	CCB-3	CCB	1	Hexavalent Chromium	10/28/24 4:11 PM	Reported
44	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 4:20 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241028A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	28/Oct/24 16:50:54
No. of Injections:	47	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	ICV,ICV,1,	9	1000	Unknown		10/28/2024 10:49	Finished	ICV @5ppb, IWST-240729B
10	PQL @0.2ppb,CCV2,	10	1000	Unknown		10/28/2024 10:59	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		10/28/2024 11:08	Finished	ICB R240926A
12	MB-H2O,MBLK,1,	12	1000	Unknown		10/28/2024 11:17	Finished	MB R240926A
13	LCS-H2O,LCS,1,	13	1000	Unknown		10/28/2024 11:27	Finished	LCS @5ppb, IWST-240729B
14	N069445-001A,SAMP	14	1000	Unknown		10/28/2024 11:36	Finished	SAMP,10 mL
15	N069445-001AMS,MS	15	1000	Unknown		10/28/2024 11:46	Finished	MS (1ppb), IWST-240729B,10r
16	N069445-001AMSD,N	16	1000	Unknown		10/28/2024 11:55	Finished	MSD (1ppb), IWST-240729B,10r
17	N069445-001ADUP,D	17	1000	Unknown		10/28/2024 12:05	Finished	DUP,10 mL
18	N069453-001A,SAMP	18	1000	Unknown		10/28/2024 12:14	Finished	SAMP,10 mL
19	N069453-002A,SAMP	19	1000	Unknown		10/28/2024 12:24	Finished	SAMP,10 mL
20	N069453-003A,SAMP	20	1000	Unknown		10/28/2024 12:33	Finished	SAMP,10 mL
21	N069453-004A,SAMP	21	1000	Unknown		10/28/2024 12:43	Finished	SAMP,10 mL
22	CCV-1,CCV1,1,	22	1000	Unknown		10/28/2024 12:52	Finished	CCV @10ppb, IWST-240729A
23	CCB-1,CCB,1,	23	1000	Unknown		10/28/2024 13:02	Finished	CCB R240926A
24	N069444-001A,SAMP	24	1000	Unknown		10/28/2024 13:11	Finished	SAMP,10 mL
25	N069444-001AMS,MS	25	1000	Unknown		10/28/2024 13:20	Finished	MS (1ppb), IWST-240729B,10r
26	N069444-002A,SAMP	26	1000	Unknown		10/28/2024 13:30	Finished	SAMP,10 mL
27	N069444-002AMS,MS	27	1000	Unknown		10/28/2024 13:39	Finished	MS (1ppb), IWST-240729B,10r
28	N069444-003A,SAMP	28	1000	Unknown		10/28/2024 13:49	Finished	SAMP,10 mL
29	N069444-003AMS,MS	29	1000	Unknown		10/28/2024 13:58	Finished	MS (1ppb), IWST-240729B,10r
30	N069444-001A,SAMP	30	1000	Unknown		10/28/2024 14:08	Finished	SAMP,2>10 mL
31	N069444-001AMS,MS	31	1000	Unknown		10/28/2024 14:17	Finished	MS (1ppb), IWST-240729B,2>10
32	N069444-002A,SAMP	32	1000	Unknown		10/28/2024 14:27	Finished	SAMP,2>10 mL
33	N069444-002AMS,MS	33	1000	Unknown		10/28/2024 14:36	Finished	MS (1ppb), IWST-240729B,2>10
34	CCV-2,CCV,1,	34	1000	Unknown		10/28/2024 14:46	Finished	CCV @5ppb, IWST-240729A
35	CCB-2,CCB,1,	35	1000	Unknown		10/28/2024 14:55	Finished	CCB R240926A
36	N069444-003A,SAMP	36	1000	Unknown		10/28/2024 15:04	Finished	SAMP,2>10 mL
37	N069444-003AMS,MS	37	1000	Unknown		10/28/2024 15:14	Finished	MS (1ppb), IWST-240729B,2>10
38	N069233-009A,SAMP	38	1000	Unknown		10/28/2024 15:23	Finished	SAMP,2>10 mL
39	N069233-009AMS,MS	39	1000	Unknown		10/28/2024 15:33	Finished	MS (1ppb), IWST-240729B,2>10
40	N069233-015A,SAMP	40	1000	Unknown		10/28/2024 15:42	Finished	SAMP,2>10 mL
41	N069233-015AMS,MS	41	1000	Unknown		10/28/2024 15:52	Finished	MS (1ppb), IWST-240729B,2>10
42	CCV-3,CCV1,1,	42	1000	Unknown		10/28/2024 16:01	Finished	CCV @10ppb, IWST-240729A
43	CCB-3,CCB,1,	43	1000	Unknown		10/28/2024 16:11	Finished	CCB R240926A
44	BLANK	44	1000	Unknown		10/28/2024 16:20	Finished	BLANK
45	SHUTDOWN	45	1000	Unknown		10/28/2024 16:30	Finished	
46	Eluent: R241025A	46	1000	Unknown		n.a.	Finished	
47	PCR: R241025B	47	1000	Unknown		n.a.	Finished	

Reviewed by:

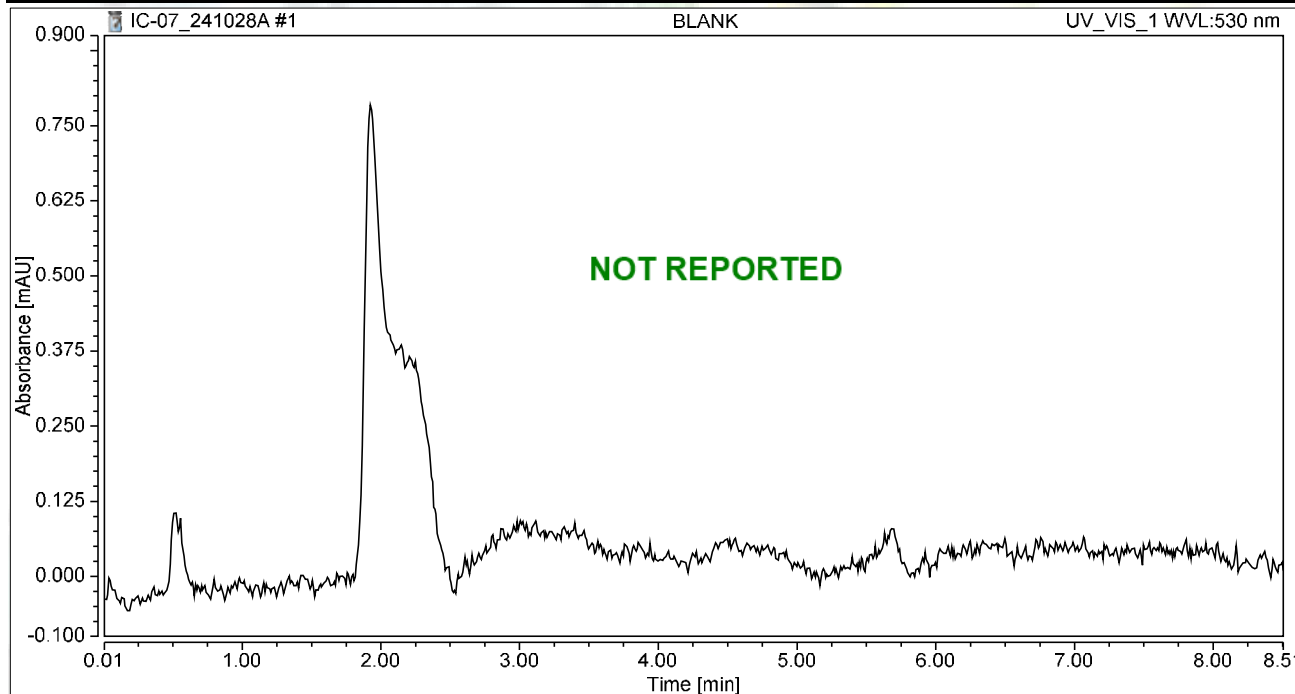
d/Recha 11/3/2024

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 09:30	Sample Weight:	1.0000

Chromatogram



Integration Results

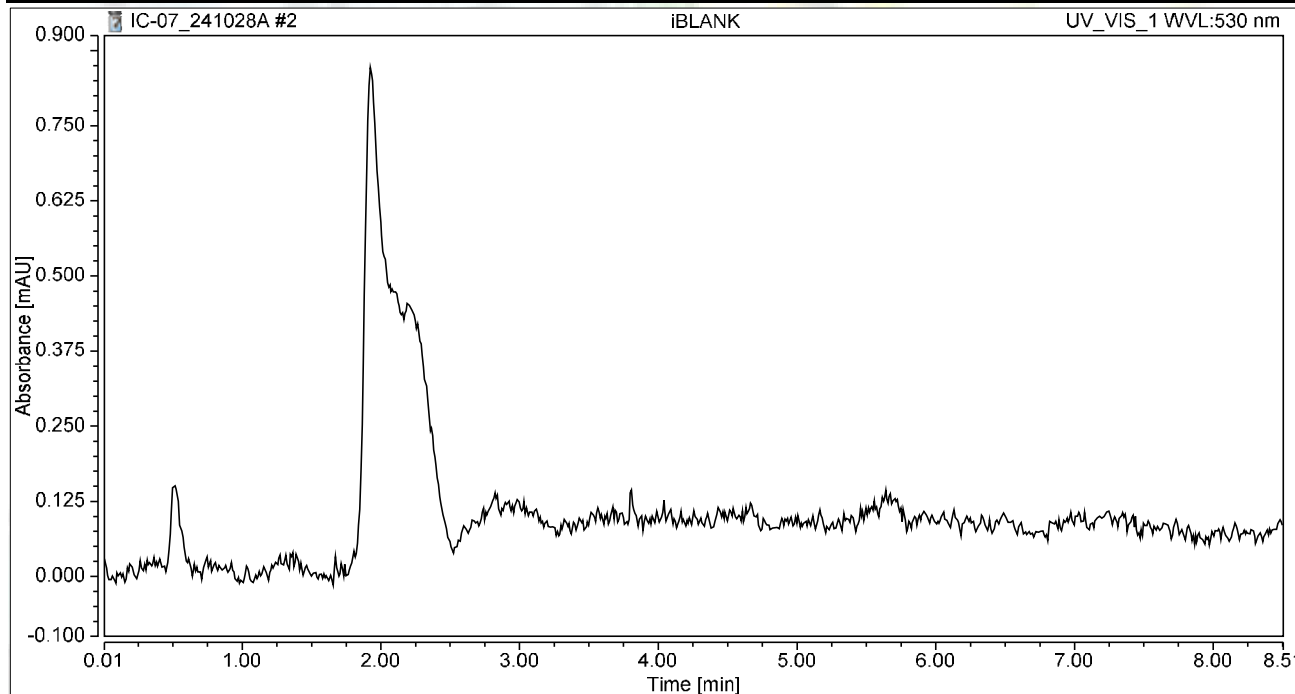
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	iBLANK	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 09:43	Sample Weight:	1.0000

Chromatogram



Integration Results

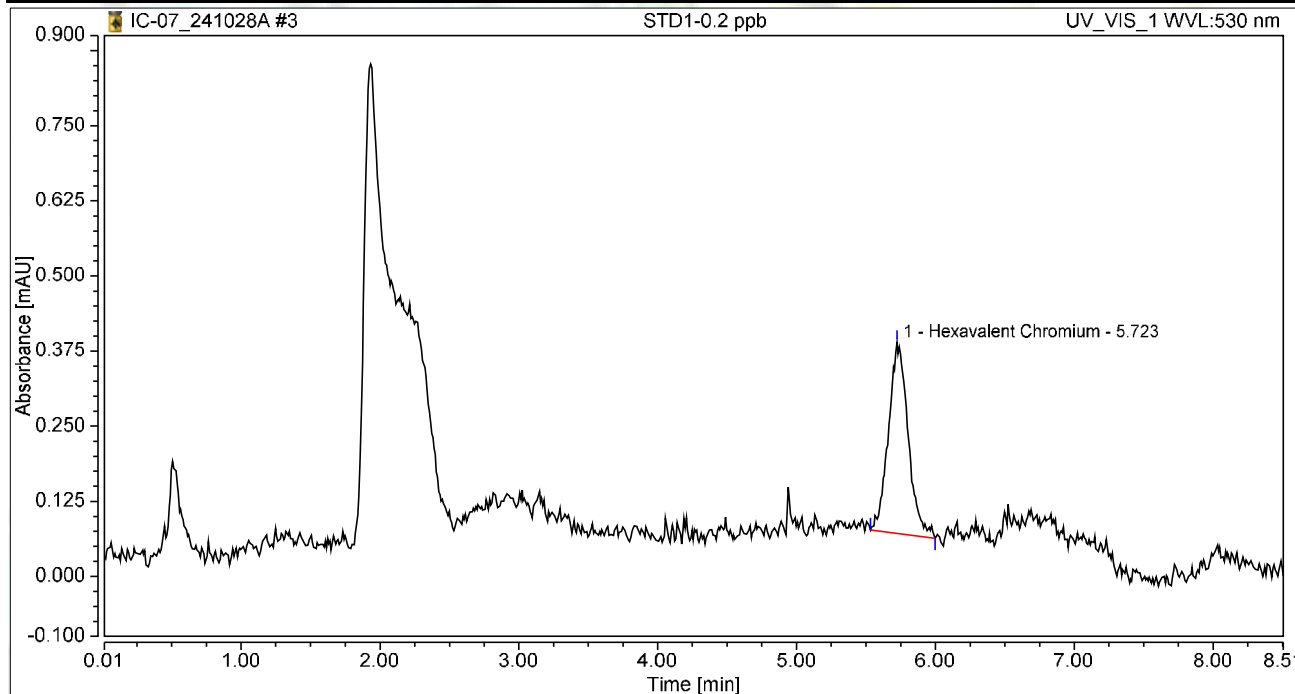
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	STD1-0.2 ppb	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	01	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 09:52	Sample Weight:	1.0000

Chromatogram



Integration Results

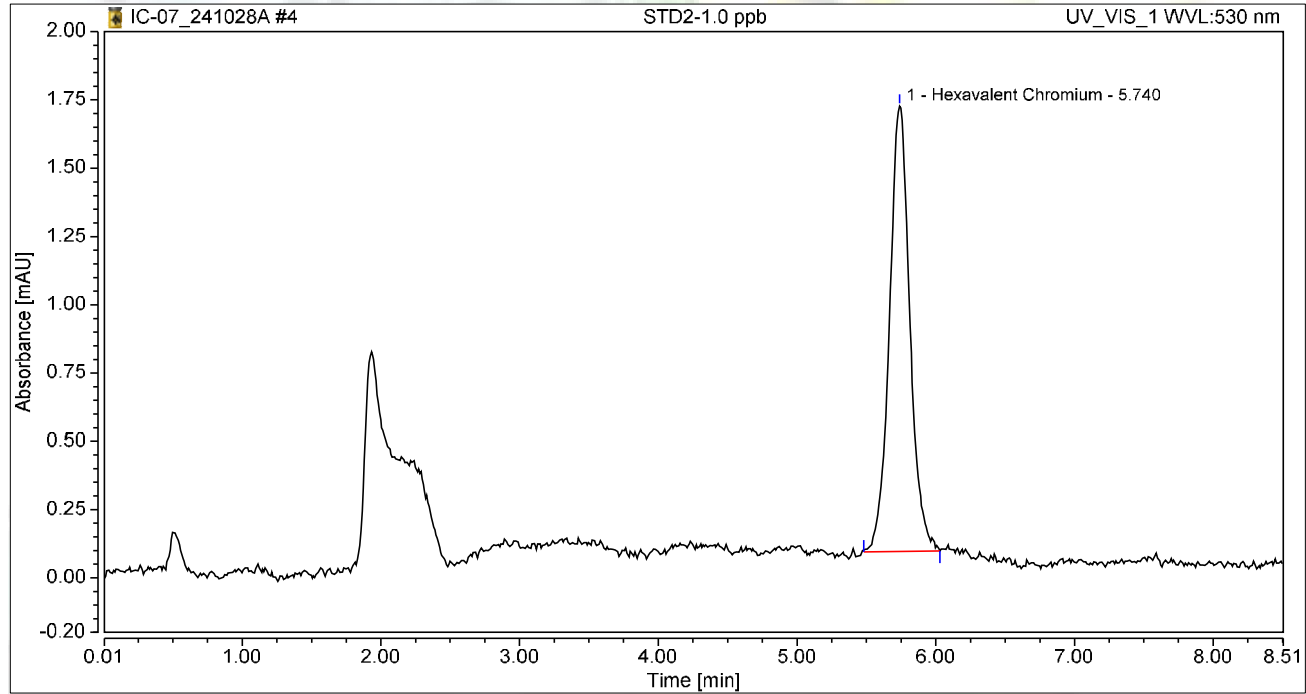
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.053	0.318	100.00	100.00	0.1857
Total:			0.053	0.318	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD2-1.0 ppb	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	02	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:02	Sample Weight:	1.0000

Chromatogram



Integration Results

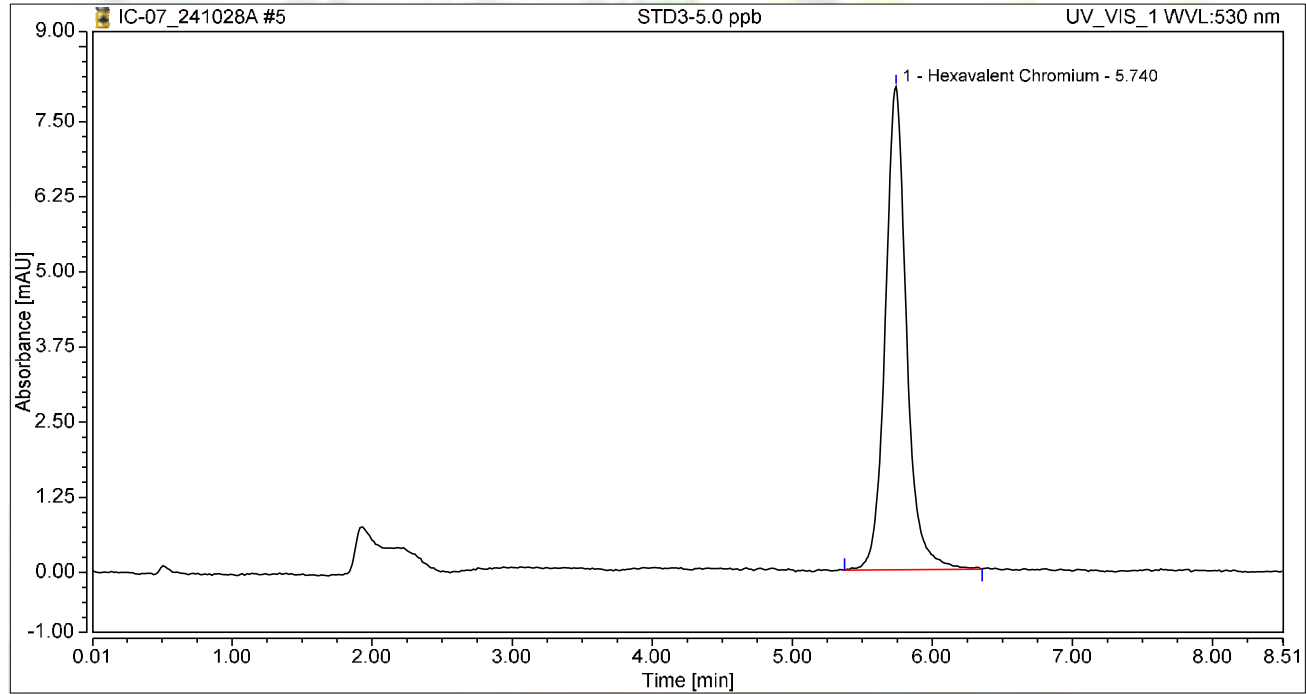
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	0.278	1.631	100.00	100.00	0.9794
Total:			0.278	1.631	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD3-5.0 ppb	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	03	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:11	Sample Weight:	1.0000

Chromatogram



Integration Results

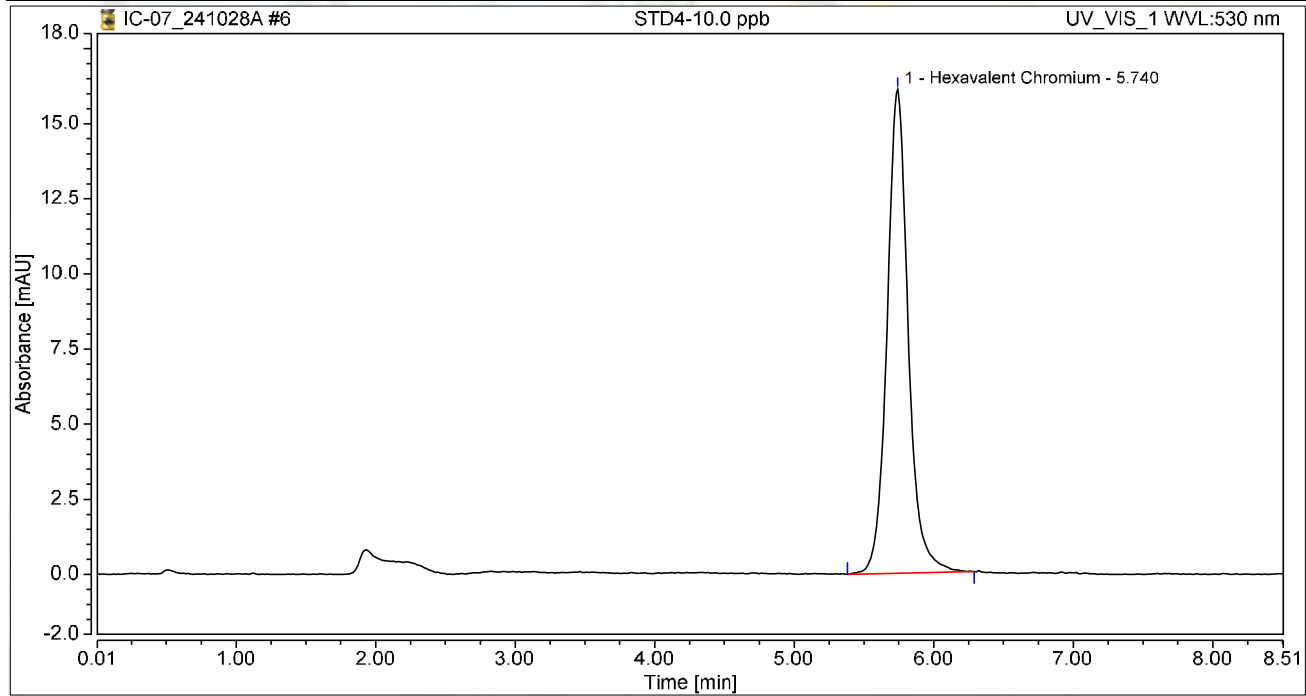
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	1.420	8.039	100.00	100.00	5.0028
Total:			1.420	8.039	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD4-10.0 ppb	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	04	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:21	Sample Weight:	1.0000

Chromatogram



Integration Results

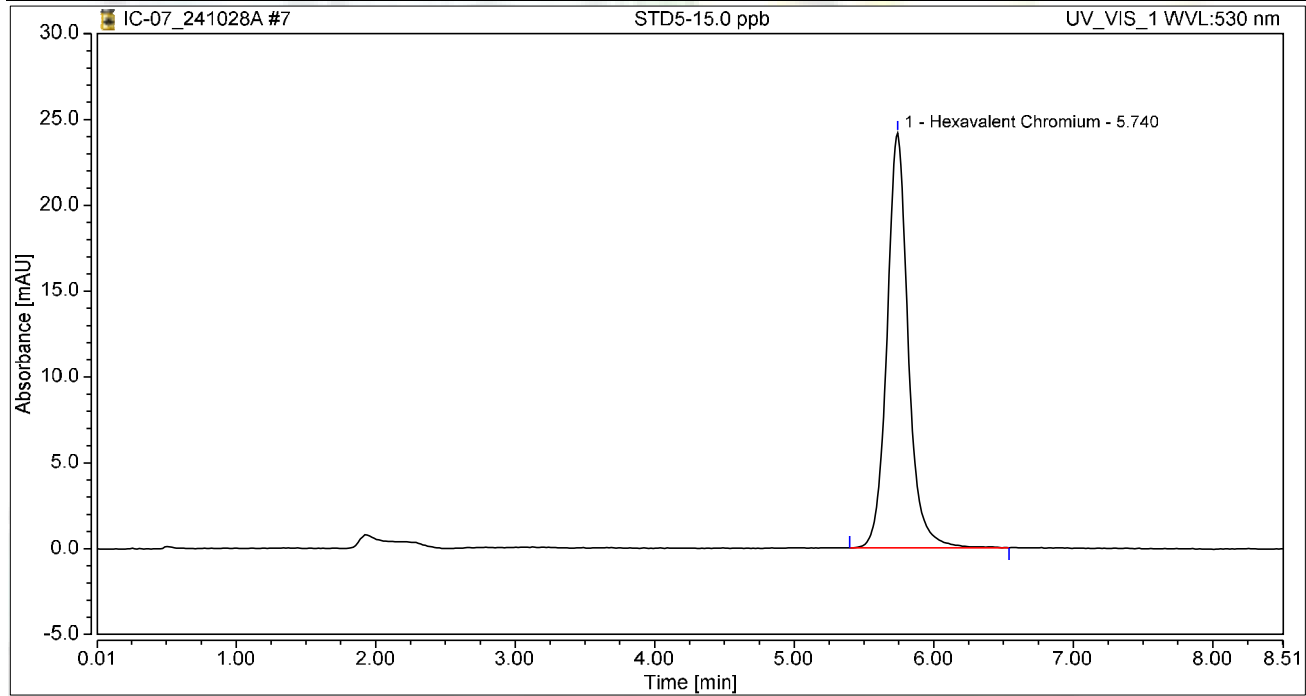
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	2.824	16.106	100.00	100.00	9.9507
Total:			2.824	16.106	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD5-15.0 ppb	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	05	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:30	Sample Weight:	1.0000

Chromatogram



Integration Results

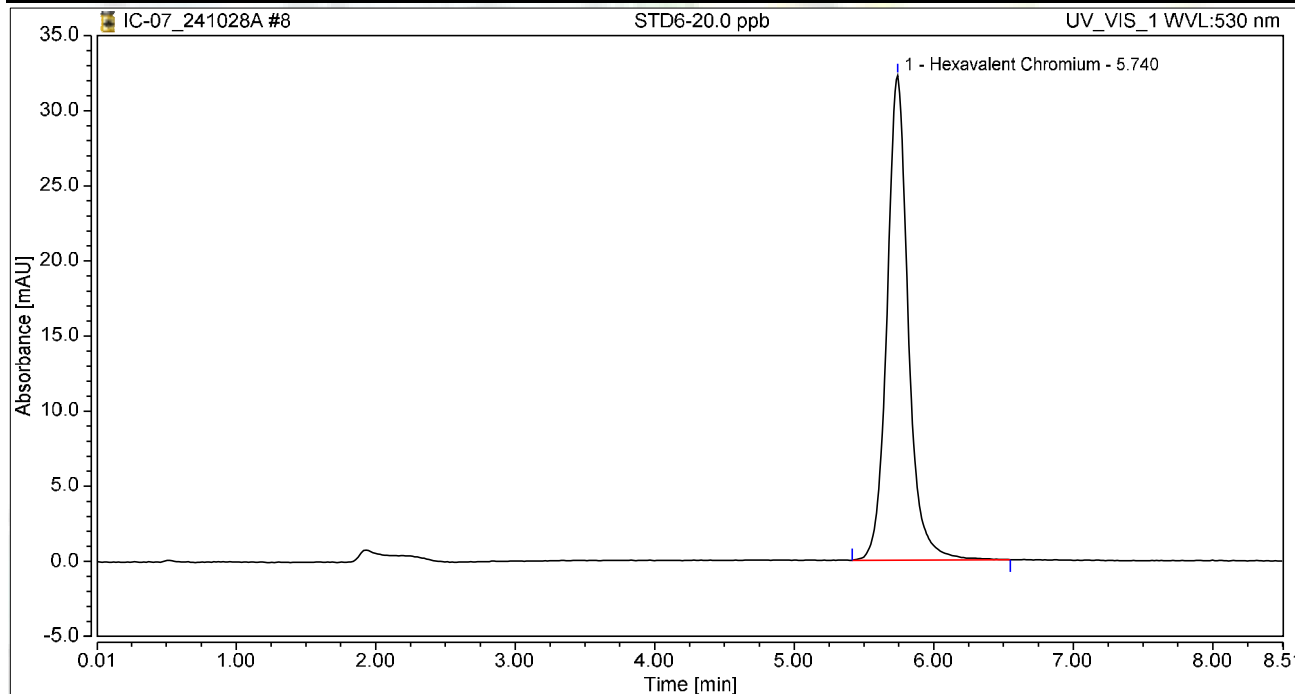
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	4.255	24.168	100.00	100.00	14.9966
Total:			4.255	24.168	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD6-20.0 ppb	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	06	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:40	Sample Weight:	1.0000

Chromatogram



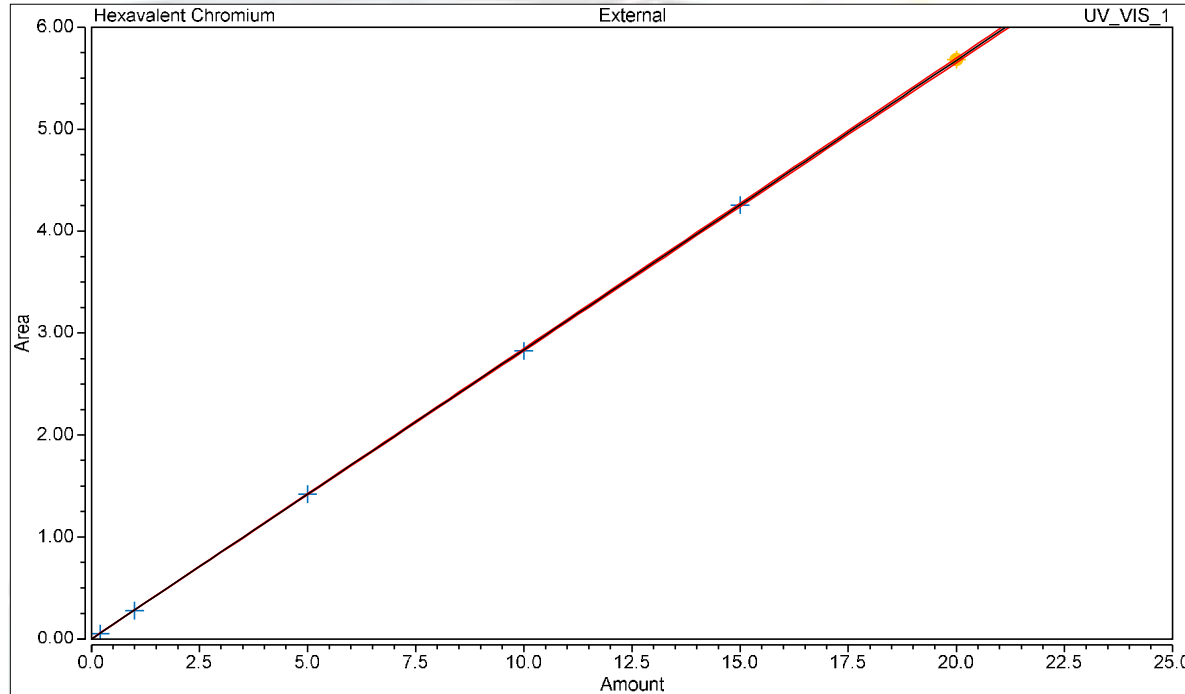
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	5.683	32.257	100.00	100.00	20.0277
Total:			5.683	32.257	100.00	100.00	

Initial Calibration Summary

Calibration Details		Hexavalent Chromium	
Calibration Type	Lin	Offset (C0)	0.0000
Evaluation Type	Area	Slope (C1)	0.2838
Number of Calibration Points	6	Curve (C2)	0.0000
Number of disabled Calibration Points	0	R-Square	0.99999

Calibration Plot Hexavalent Chromium



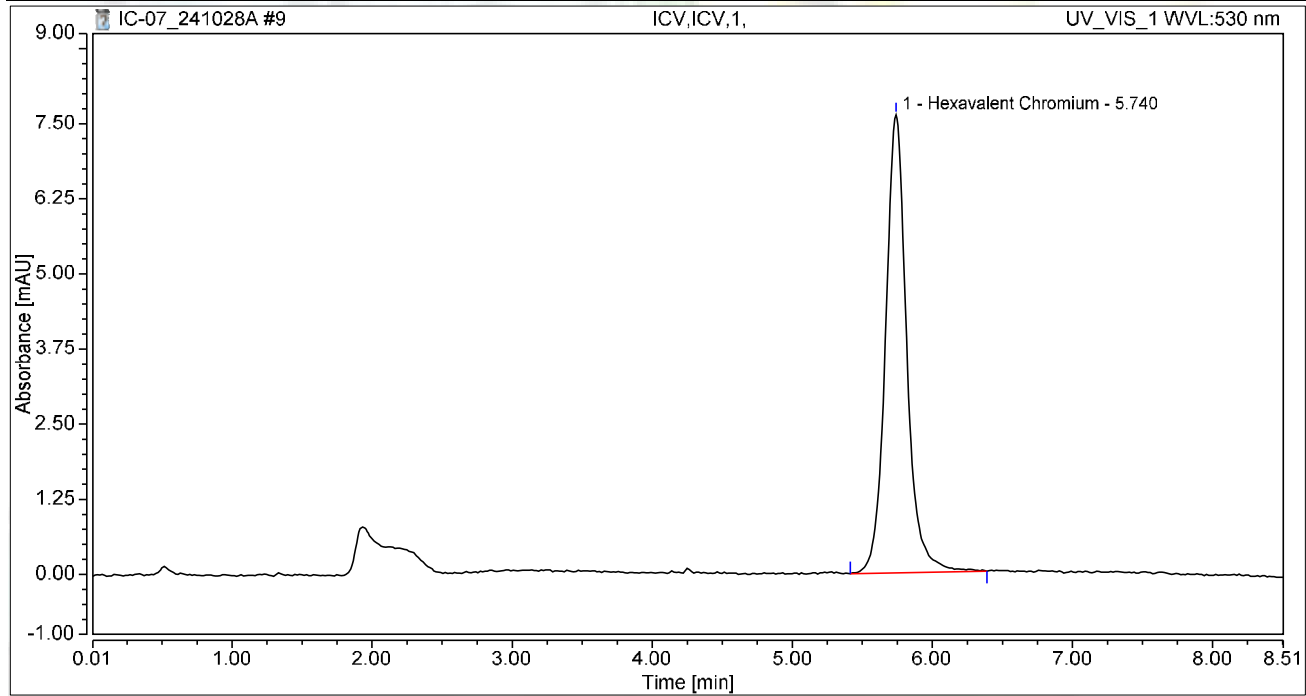
Calibration Results		Hexavalent Chromium				
No.	Injection Name	Calibration Level	X Value	Y Value	Area mAU*min	Height mAU
3	STD1-0.2 ppb	01	0.2000	0.0527	0.053	0.318
4	STD2-1.0 ppb	02	1.0000	0.2779	0.278	1.631
5	STD3-5.0 ppb	03	5.0000	1.4196	1.420	8.039
6	STD4-10.0 ppb	04	10.0000	2.8235	2.824	16.106
7	STD5-15.0 ppb	05	15.0000	4.2553	4.255	24.168
8	STD6-20.0 ppb	06	20.0000	5.6829	5.683	32.257

Chromatogram and Results

Injection Details

Injection Name:	ICV,ICV,1,	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:49	Sample Weight:	1.0000

Chromatogram



Integration Results

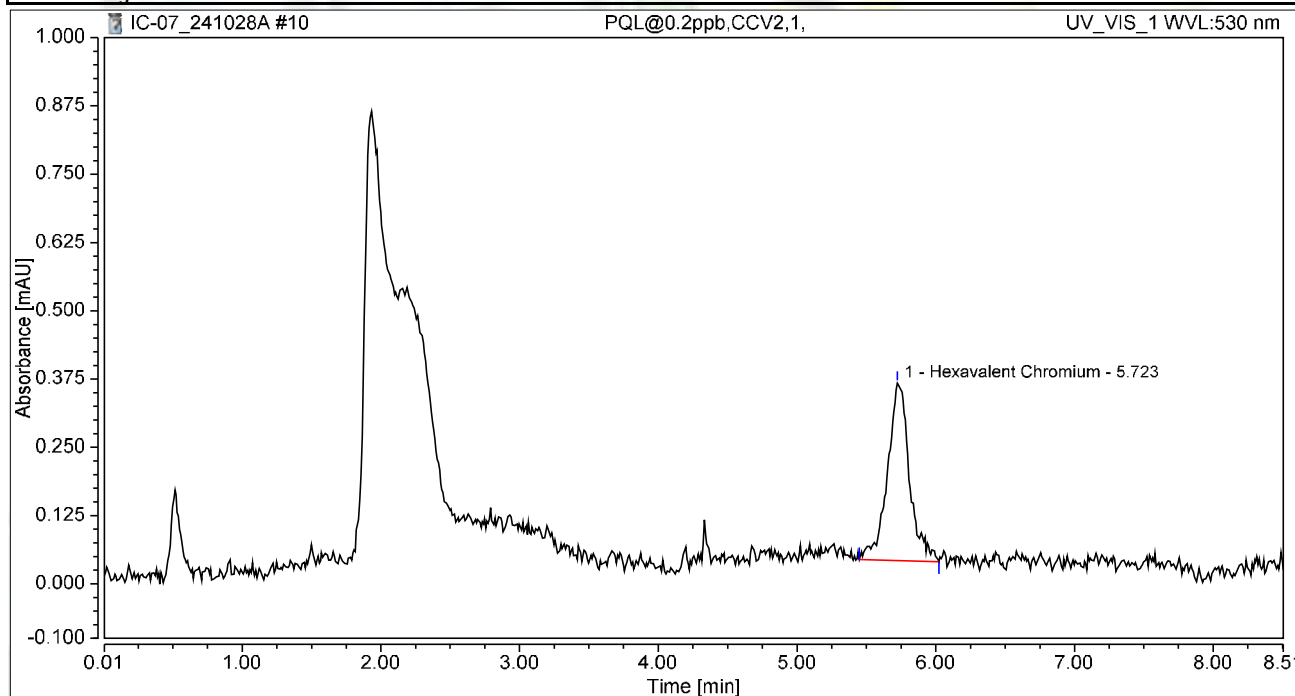
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	1.342	7.624	100.00	100.00	4.7300
Total:			1.342	7.624	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:59	Sample Weight:	1.0000

Chromatogram



Integration Results

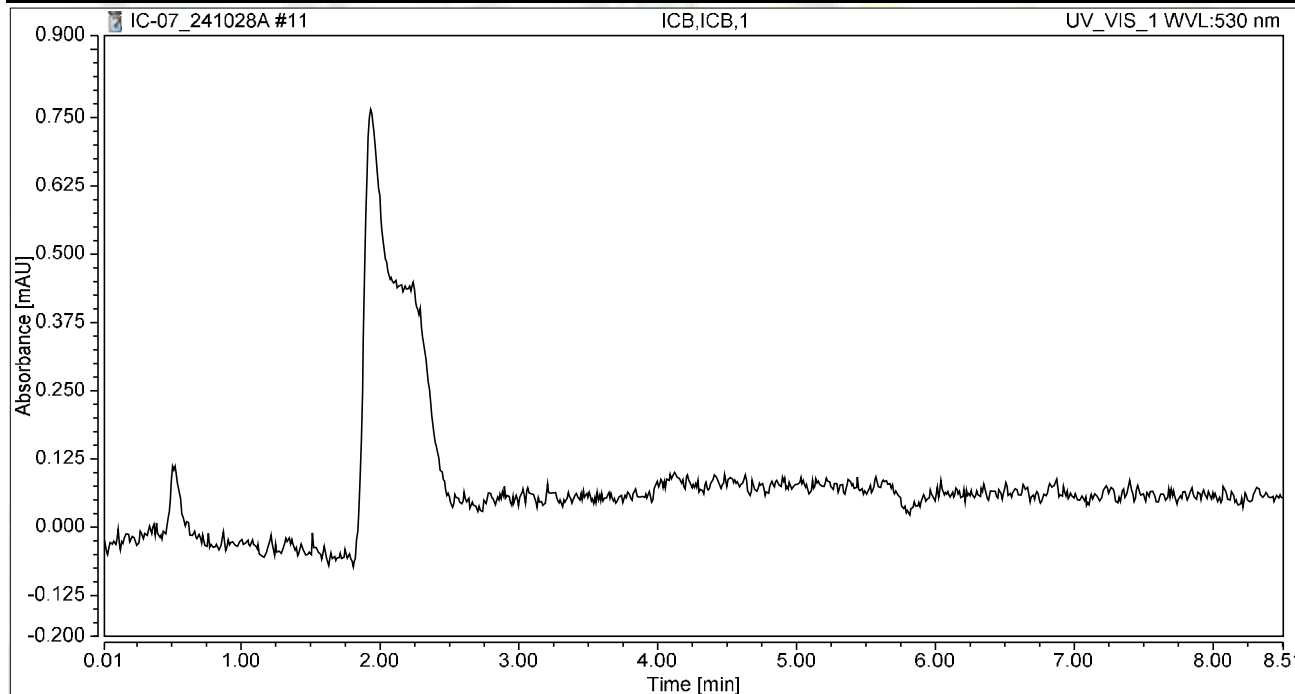
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.060	0.325	100.00	100.00	0.2110
Total:			0.060	0.325	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	ICB,ICB,1	Run Time (min):	8.49
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 11:08	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	



RAW DATA



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"Serving Clients with Passion and Professionalism"

INJECTION LOG: 241101A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	11/01/24 9:57 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	11/01/24 10:11 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	11/01/24 10:20 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	11/01/24 10:30 AM	Reported
13	MB-R195173	MBLK	1	Hexavalent Chromium	11/01/24 10:39 AM	Reported
14	LCS-R195173	LCS	1	Hexavalent Chromium	11/01/24 10:49 AM	Reported
15	N069582-004A	SAMP	50	Hexavalent Chromium	11/01/24 11:05 AM	Reported
16	N069582-004ADUP	DUP	50	Hexavalent Chromium	11/01/24 11:17 AM	Reported
17	N069582-004AMS	MS	50	Hexavalent Chromium	11/01/24 11:26 AM	Reported
18	N069582-005A	SAMP	50	Hexavalent Chromium	11/01/24 11:35 AM	Not Reported
19	N069582-006A	SAMP	50	Hexavalent Chromium	11/01/24 11:45 AM	Reported
20	N069629-001A	SAMP	5	Hexavalent Chromium	11/01/24 11:54 AM	Not Reported
21	N069629-001AMS	MS	5	Hexavalent Chromium	11/01/24 12:04 PM	Not Reported
22	N069629-001AMSD	MSD	5	Hexavalent Chromium	11/01/24 12:13 PM	Not Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	11/01/24 12:23 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	11/01/24 12:32 PM	Reported
25	N069629-002A	SAMP	5	Hexavalent Chromium	11/01/24 12:42 PM	Not Reported
26	N069629-002AMS	MS	5	Hexavalent Chromium	11/01/24 12:51 PM	Not Reported
27	N069629-003A	SAMP	1	Hexavalent Chromium	11/01/24 1:01 PM	Reported
28	N069629-003AMS	MS	1	Hexavalent Chromium	11/01/24 1:10 PM	Reported
29	N069582-006AMS	MS	50	Hexavalent Chromium	11/01/24 1:19 PM	Reported
30	N069582-006AMSD	MSD	50	Hexavalent Chromium	11/01/24 1:29 PM	Reported
31	N069582-005A	SAMP	100	Hexavalent Chromium	11/01/24 1:38 PM	Reported
32	N069582-005AMS	MS	100	Hexavalent Chromium	11/01/24 1:48 PM	Reported
33	N069629-001A	SAMP	1	Hexavalent Chromium	11/01/24 1:57 PM	Reported
34	N069629-001AMS	MS	1	Hexavalent Chromium	11/01/24 2:07 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	11/01/24 2:16 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	11/01/24 2:26 PM	Reported
37	N069629-002A	SAMP	1	Hexavalent Chromium	11/01/24 2:35 PM	Reported
38	N069629-002AMS	MS	1	Hexavalent Chromium	11/01/24 2:45 PM	Reported
39	N069629-001AMS	MS	5	Hexavalent Chromium	11/01/24 2:54 PM	Not Reported
40	N069629-002AMS	MS	5	Hexavalent Chromium	11/01/24 3:03 PM	Not Reported
41	N069631-008A	SAMP	1	Hexavalent Chromium	11/01/24 3:13 PM	Not Reported
42	N069631-008AMS	MS	1	Hexavalent Chromium	11/01/24 3:22 PM	Not Reported

INJECTION LOG: 241101A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069631-008A	SAMP	5	Hexavalent Chromium	11/01/24 3:32 PM	Reported
44	N069631-008AMS	MS	5	Hexavalent Chromium	11/01/24 3:41 PM	Reported
45	N069631-009A	SAMP	1	Hexavalent Chromium	11/01/24 3:51 PM	Not Reported
46	N069631-009AMS	MS	1	Hexavalent Chromium	11/01/24 4:00 PM	Not Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	11/01/24 4:19 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	11/01/24 4:31 PM	Reported
49	N069631-009A	SAMP	5	Hexavalent Chromium	11/01/24 4:40 PM	Reported
50	N069631-009AMS	MS	5	Hexavalent Chromium	11/01/24 4:50 PM	Reported
51	N069631-010A	SAMP	1	Hexavalent Chromium	11/01/24 4:59 PM	Not Reported
52	N069631-010AMS	MS	1	Hexavalent Chromium	11/01/24 5:08 PM	Not Reported
53	N069631-010A	SAMP	5	Hexavalent Chromium	11/01/24 5:18 PM	Reported
54	N069631-010AMS	MS	5	Hexavalent Chromium	11/01/24 5:27 PM	Reported
55	N069631-011A	SAMP	1	Hexavalent Chromium	11/01/24 5:37 PM	Not Reported
56	N069631-011AMS	MS	1	Hexavalent Chromium	11/01/24 5:46 PM	Not Reported
57	N069631-011A	SAMP	5	Hexavalent Chromium	11/01/24 5:56 PM	Reported
58	N069631-011AMS	MS	5	Hexavalent Chromium	11/01/24 6:05 PM	Reported
59	CCV-5	CCV	1	Hexavalent Chromium	11/01/24 6:15 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	11/01/24 6:24 PM	Reported
61	N069631-012A	SAMP	1	Hexavalent Chromium	11/01/24 6:34 PM	Not Reported
62	N069631-012AMS	MS	1	Hexavalent Chromium	11/01/24 6:43 PM	Not Reported
63	N069631-012A	SAMP	5	Hexavalent Chromium	11/01/24 6:52 PM	Reported
64	N069631-012AMS	MS	5	Hexavalent Chromium	11/01/24 7:02 PM	Reported
65	N069631-013A	SAMP	1	Hexavalent Chromium	11/01/24 7:11 PM	Not Reported
66	N069631-013AMS	MS	1	Hexavalent Chromium	11/01/24 7:21 PM	Not Reported
67	N069631-013A	SAMP	5	Hexavalent Chromium	11/01/24 7:30 PM	Reported
68	N069631-013AMS	MS	5	Hexavalent Chromium	11/01/24 7:40 PM	Reported
69	N069631-014A	SAMP	1	Hexavalent Chromium	11/01/24 7:49 PM	Not Reported
70	N069631-014AMS	MS	1	Hexavalent Chromium	11/01/24 7:59 PM	Not Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	11/01/24 8:08 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	11/01/24 8:18 PM	Reported
73	N069631-014A	SAMP	5	Hexavalent Chromium	11/01/24 8:27 PM	Reported
74	N069631-014AMS	MS	5	Hexavalent Chromium	11/01/24 8:36 PM	Reported
75	N069631-001A	SAMP	1	Hexavalent Chromium	11/01/24 8:46 PM	Reported
76	N069631-001AMS	MS	1	Hexavalent Chromium	11/01/24 8:55 PM	Reported
77	N069631-002A	SAMP	1	Hexavalent Chromium	11/01/24 9:05 PM	Reported
78	N069631-002AMS	MS	1	Hexavalent Chromium	11/01/24 9:14 PM	Reported
79	N069631-003A	SAMP	1	Hexavalent Chromium	11/01/24 9:24 PM	Reported
80	N069631-003AMS	MS	1	Hexavalent Chromium	11/01/24 9:33 PM	Reported
81	N069631-004A	SAMP	1	Hexavalent Chromium	11/01/24 9:43 PM	Reported
82	N069631-004AMS	MS	1	Hexavalent Chromium	11/01/24 9:52 PM	Reported
83	CCV-7	CCV	1	Hexavalent Chromium	11/01/24 10:02 PM	Reported
84	CCB-7	CCB	1	Hexavalent Chromium	11/01/24 10:11 PM	Reported

INJECTION LOG: 241101A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N069631-005A	SAMP	1	Hexavalent Chromium	11/01/24 10:20 PM	Reported
86	N069631-005AMS	MS	1	Hexavalent Chromium	11/01/24 10:30 PM	Reported
87	N069631-006A	SAMP	1	Hexavalent Chromium	11/01/24 10:39 PM	Reported
88	N069631-006AMS	MS	1	Hexavalent Chromium	11/01/24 10:49 PM	Reported
89	N069631-007A	SAMP	1	Hexavalent Chromium	11/01/24 10:58 PM	Reported
90	N069631-007AMS	MS	1	Hexavalent Chromium	11/01/24 11:08 PM	Reported
91	CCV-8	CCV1	1	Hexavalent Chromium	11/01/24 11:17 PM	Reported
92	CCB-8	CCB	1	Hexavalent Chromium	11/01/24 11:27 PM	Reported
93	BLANK	BLANK	1	Hexavalent Chromium	11/01/24 11:36 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241101A	Created On:	24Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	02/Nov/24 00:06:57
No. of Injections:	96	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	BLANK	1	1000	Unknown		11/01/2024 09:57	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		11/01/2024 10:11	Finished	CCV @5ppb, IWST-240729A
11	PQL@0.2ppb,CCV2,	3	1000	Unknown		11/01/2024 10:20	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		11/01/2024 10:30	Finished	CCB R241001A
13	MB-H2O,MBLK,1,	5	1000	Unknown		11/01/2024 10:39	Finished	MB R241001A
14	LCS-H2O,LCS,1,	6	1000	Unknown		11/01/2024 10:49	Finished	LCS @5ppb, IWST-240729B
15	N069582-004A,SAMP	1	1000	Unknown		11/01/2024 11:05	Finished	SAMP,0.2>10 mL
16	N069582-004ADUP,D	2	1000	Unknown		11/01/2024 11:17	Finished	DUP,0.2>10 mL
17	N069582-004AMS,MS	3	1000	Unknown		11/01/2024 11:26	Finished	MS (5ppb), IWST-240729B,0.2
18	N069582-005A,SAMP	4	1000	Unknown		11/01/2024 11:35	Finished	SAMP,0.2>10 mL
19	N069582-006A,SAMP	5	1000	Unknown		11/01/2024 11:45	Finished	SAMP,0.2>10 mL
20	N069629-001A,SAMP	6	1000	Unknown		11/01/2024 11:54	Finished	SAMP,2>10 mL
21	N069629-001AMS,MS	7	1000	Unknown		11/01/2024 12:04	Finished	MS (5ppb), IWST-240729B,2>1
22	N069629-001AMSD,N	8	1000	Unknown		11/01/2024 12:13	Finished	MSD (5ppb), IWST-240729B,2>1
23	CCV-2,CCV1,1,	9	1000	Unknown		11/01/2024 12:23	Finished	CCV @10ppb, IWST-240729A
24	CCB-2,CCB,1,	10	1000	Unknown		11/01/2024 12:32	Finished	CCB R241001A
25	N069629-002A,SAMP	11	1000	Unknown		11/01/2024 12:42	Finished	SAMP,2>10 mL
26	N069629-002AMS,MS	12	1000	Unknown		11/01/2024 12:51	Finished	MS (5ppb), IWST-240729B,2>1
27	N069629-003A,SAMP	13	1000	Unknown		11/01/2024 13:01	Finished	SAMP,10 mL
28	N069629-003AMS,MS	14	1000	Unknown		11/01/2024 13:10	Finished	MS (1ppb), IWST-240729B,10r
29	N069582-006AMS,MS	15	1000	Unknown		11/01/2024 13:19	Finished	MS (5ppb), IWST-240729B,0.2
30	N069582-006AMSD,N	16	1000	Unknown		11/01/2024 13:29	Finished	MSD (5ppb), IWST-240729B,0.2
31	N069582-005A,SAMP	17	1000	Unknown		11/01/2024 13:38	Finished	SAMP,0.1>10 mL
32	N069582-005AMS,MS	18	1000	Unknown		11/01/2024 13:48	Finished	MS (5ppb), IWST-240729B,0.1
33	N069629-001A,SAMP	19	1000	Unknown		11/01/2024 13:57	Finished	SAMP,10 mL
34	N069629-001AMS,MS	20	1000	Unknown		11/01/2024 14:07	Finished	MS (1ppb), IWST-240729B,10r
35	CCV-3,CCV,1,	21	1000	Unknown		11/01/2024 14:16	Finished	CCV @5ppb, IWST-240729A
36	CCB-3,CCB,1,	22	1000	Unknown		11/01/2024 14:26	Finished	CCB R241001A
37	N069629-002A,SAMP	23	1000	Unknown		11/01/2024 14:35	Finished	SAMP,10 mL
38	N069629-002AMS,MS	24	1000	Unknown		11/01/2024 14:45	Finished	MS (1ppb), IWST-240729B,10r
39	N069629-001AMS,MS	25	1000	Unknown		11/01/2024 14:54	Finished	MS (1ppb), IWST-240729B,2>1
40	N069629-002AMS,MS	26	1000	Unknown		11/01/2024 15:03	Finished	MS (1ppb), IWST-240729B,2>1
41	N069631-008A,SAMP	27	1000	Unknown		11/01/2024 15:13	Finished	SAMP,10 mL
42	N069631-008AMS,MS	28	1000	Unknown		11/01/2024 15:22	Finished	MS (1ppb), IWST-240729B,10r
43	N069631-008A,SAMP	29	1000	Unknown		11/01/2024 15:32	Finished	SAMP,2>10 mL
44	N069631-008AMS,MS	30	1000	Unknown		11/01/2024 15:41	Finished	MS (1ppb), IWST-240729B,2>1
45	N069631-009A,SAMP	31	1000	Unknown		11/01/2024 15:51	Finished	SAMP,10 mL
46	N069631-009AMS,MS	32	1000	Unknown		11/01/2024 16:00	Finished	MS (1ppb), IWST-240729B,10r
47	CCV-4,CCV1,1,	1	1000	Unknown		11/01/2024 16:19	Finished	CCV @10ppb, IWST-240729A
48	CCB-4,CCB,1,	2	1000	Unknown		11/01/2024 16:31	Finished	CCB R241001A
49	N069631-009A,SAMP	3	1000	Unknown		11/01/2024 16:40	Finished	SAMP,2>10 mL
50	N069631-009AMS,MS	4	1000	Unknown		11/01/2024 16:50	Finished	MS (1ppb), IWST-240729B,2>1
51	N069631-010A,SAMP	5	1000	Unknown		11/01/2024 16:59	Finished	SAMP,10 mL
52	N069631-010AMS,MS	6	1000	Unknown		11/01/2024 17:08	Finished	MS (1ppb), IWST-240729B,10r
53	N069631-010A,SAMP	7	1000	Unknown		11/01/2024 17:18	Finished	SAMP,2>10 mL
54	N069631-010AMS,MS	8	1000	Unknown		11/01/2024 17:27	Finished	MS (1ppb), IWST-240729B,2>1
55	N069631-011A,SAMP	9	1000	Unknown		11/01/2024 17:37	Finished	SAMP,10 mL
56	N069631-011AMS,MS	10	1000	Unknown		11/01/2024 17:46	Finished	MS (1ppb), IWST-240729B,10r
57	N069631-011A,SAMP	11	1000	Unknown		11/01/2024 17:56	Finished	SAMP,2>10 mL
58	N069631-011AMS,MS	12	1000	Unknown		11/01/2024 18:05	Finished	MS (1ppb), IWST-240729B,2>1
59	CCV-5,CCV,1,	13	1000	Unknown		11/01/2024 18:15	Finished	CCV @5ppb, IWST-240729A
60	CCB-5,CCB,1,	14	1000	Unknown		11/01/2024 18:24	Finished	CCB R241001A

61	N069631-012A,SAMP	15	1000	Unknown	11/01/2024 18:34	Finished	SAMP,10 mL
62	N069631-012AMS,MS	16	1000	Unknown	11/01/2024 18:43	Finished	MS (1ppb), IWST-240729B,10r
63	N069631-012A,SAMP	17	1000	Unknown	11/01/2024 18:52	Finished	SAMP,2>10 mL
64	N069631-012AMS,MS	18	1000	Unknown	11/01/2024 19:02	Finished	MS (1ppb), IWST-240729B,2>1
65	N069631-013A,SAMP	19	1000	Unknown	11/01/2024 19:11	Finished	SAMP,10 mL
66	N069631-013AMS,MS	20	1000	Unknown	11/01/2024 19:21	Finished	MS (1ppb), IWST-240729B,10r
67	N069631-013A,SAMP	21	1000	Unknown	11/01/2024 19:30	Finished	SAMP,2>10 mL
68	N069631-013AMS,MS	22	1000	Unknown	11/01/2024 19:40	Finished	MS (1ppb), IWST-240729B,2>1
69	N069631-014A,SAMP	23	1000	Unknown	11/01/2024 19:49	Finished	MS (1ppb), IWST-240729B,2>1
70	N069631-014AMS,MS	24	1000	Unknown	11/01/2024 19:59	Finished	SAMP,10 mL
71	CCV-6,CCV1,1,	25	1000	Unknown	11/01/2024 20:08	Finished	CCV @10ppb, IWST-240729A
72	CCB-6,CCB,1,	26	1000	Unknown	11/01/2024 20:18	Finished	CCB R241001A
73	N069631-014A,SAMP	27	1000	Unknown	11/01/2024 20:27	Finished	SAMP,2>10 mL
74	N069631-014AMS,MS	28	1000	Unknown	11/01/2024 20:36	Finished	MS (1ppb), IWST-240729B,2>1
75	N069631-001A,SAMP	29	1000	Unknown	11/01/2024 20:46	Finished	SAMP,10 mL
76	N069631-001AMS,MS	30	1000	Unknown	11/01/2024 20:55	Finished	MS (1ppb), IWST-240729B,10r
77	N069631-002A,SAMP	31	1000	Unknown	11/01/2024 21:05	Finished	SAMP,10 mL
78	N069631-002AMS,MS	32	1000	Unknown	11/01/2024 21:14	Finished	MS (1ppb), IWST-240729B,10r
79	N069631-003A,SAMP	33	1000	Unknown	11/01/2024 21:24	Finished	SAMP,10 mL
80	N069631-003AMS,MS	34	1000	Unknown	11/01/2024 21:33	Finished	MS (1ppb), IWST-240729B,10r
81	N069631-004A,SAMP	35	1000	Unknown	11/01/2024 21:43	Finished	SAMP,10 mL
82	N069631-004AMS,MS	36	1000	Unknown	11/01/2024 21:52	Finished	MS (1ppb), IWST-240729B,10r
83	CCV-7,CCV,1,	37	1000	Unknown	11/01/2024 22:02	Finished	CCV @5ppb, IWST-240729A
84	CCB-7,CCB,1,	38	1000	Unknown	11/01/2024 22:11	Finished	CCB R241001A
85	N069631-005A,SAMP	39	1000	Unknown	11/01/2024 22:20	Finished	SAMP,10 mL
86	N069631-005AMS,MS	40	1000	Unknown	11/01/2024 22:30	Finished	MS (1ppb), IWST-240729B,10r
87	N069631-006A,SAMP	41	1000	Unknown	11/01/2024 22:39	Finished	SAMP,10 mL
88	N069631-006AMS,MS	42	1000	Unknown	11/01/2024 22:49	Finished	MS (1ppb), IWST-240729B,10r
89	N069631-007A,SAMP	43	1000	Unknown	11/01/2024 22:58	Finished	SAMP,10 mL
90	N069631-007AMS,MS	44	1000	Unknown	11/01/2024 23:08	Finished	MS (1ppb), IWST-240729B,10r
91	CCV-8,CCV1,1,	45	1000	Unknown	11/01/2024 23:17	Finished	CCV @10ppb, IWST-240729A
92	CCB-8,CCB,1,	46	1000	Unknown	11/01/2024 23:27	Finished	CCB R241001A
93	BLANK	47	1000	Unknown	11/01/2024 23:36	Finished	BLANK
94	SHUTDOWN	48	1000	Unknown	11/01/2024 23:46	Finished	
95	Eluent: R241029A	49	1000	Unknown	n.a.	Finished	
96	PCR: R241029B	50	1000	Unknown	n.a.	Finished	

Reviewed by:

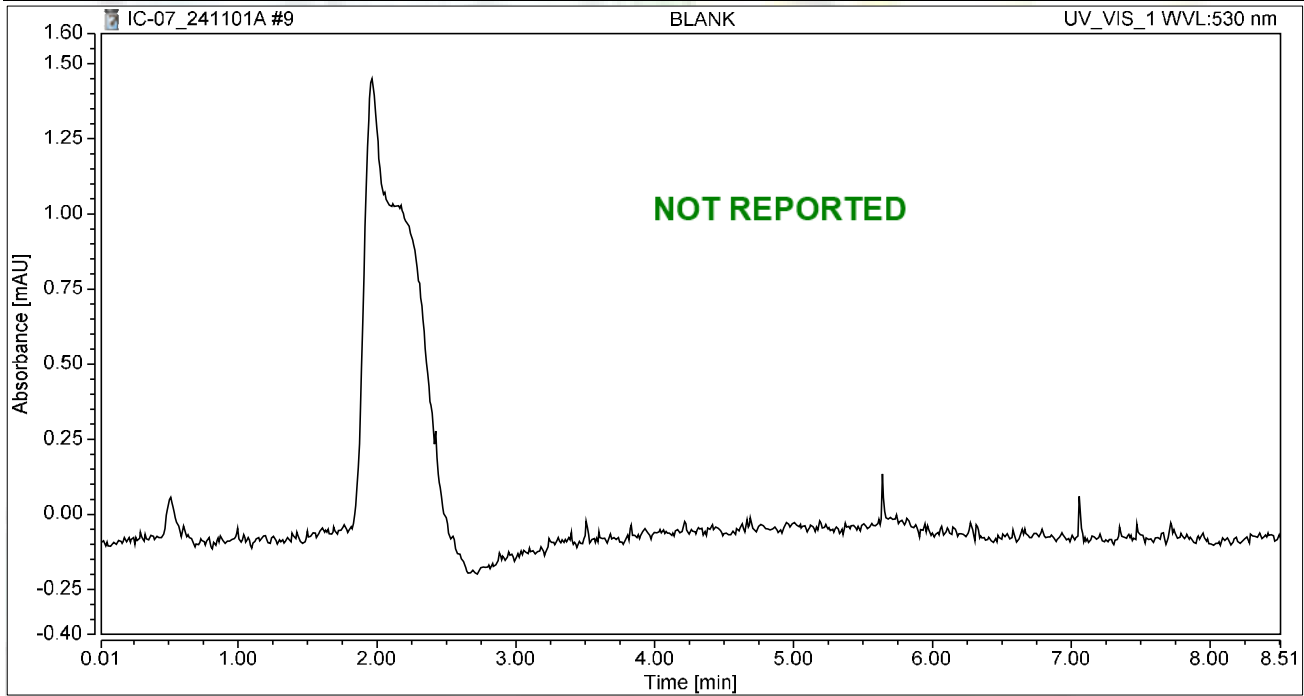
MRecha 11/7/2024

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 09:57	Sample Weight:	1.0000

Chromatogram



Integration Results

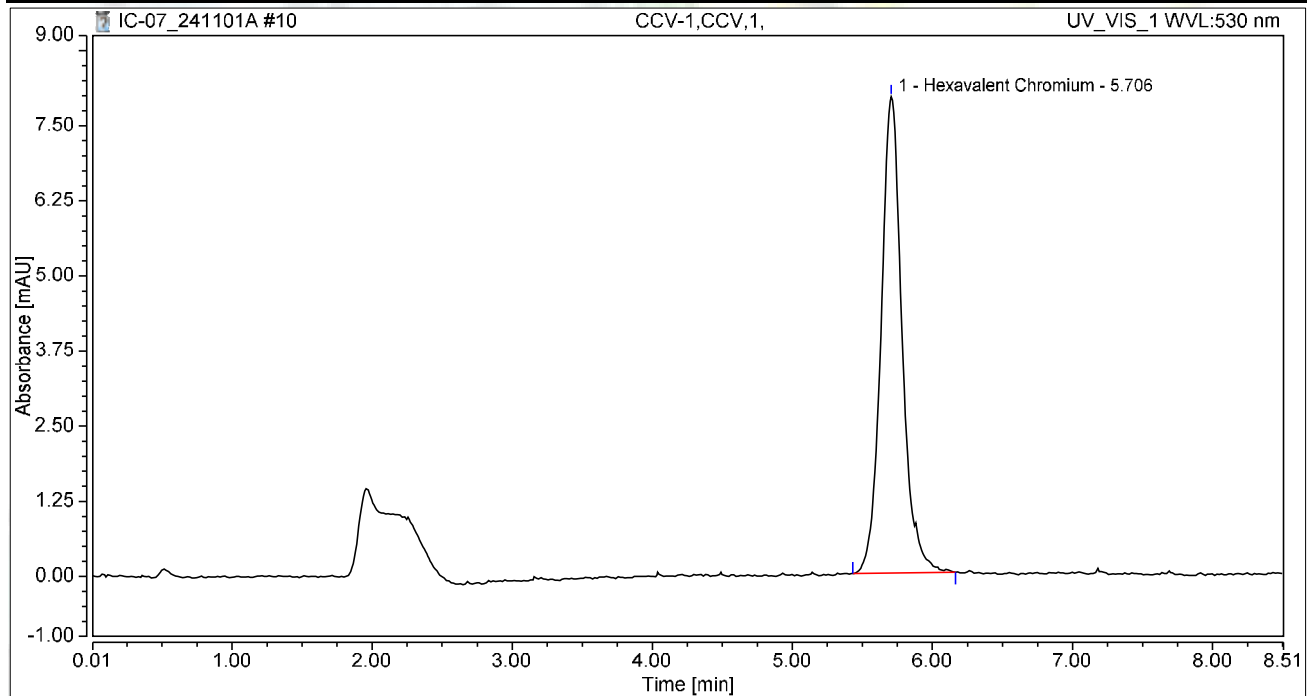
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-1,CCV,1,	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 10:11	Sample Weight:	1.0000

Chromatogram



Integration Results

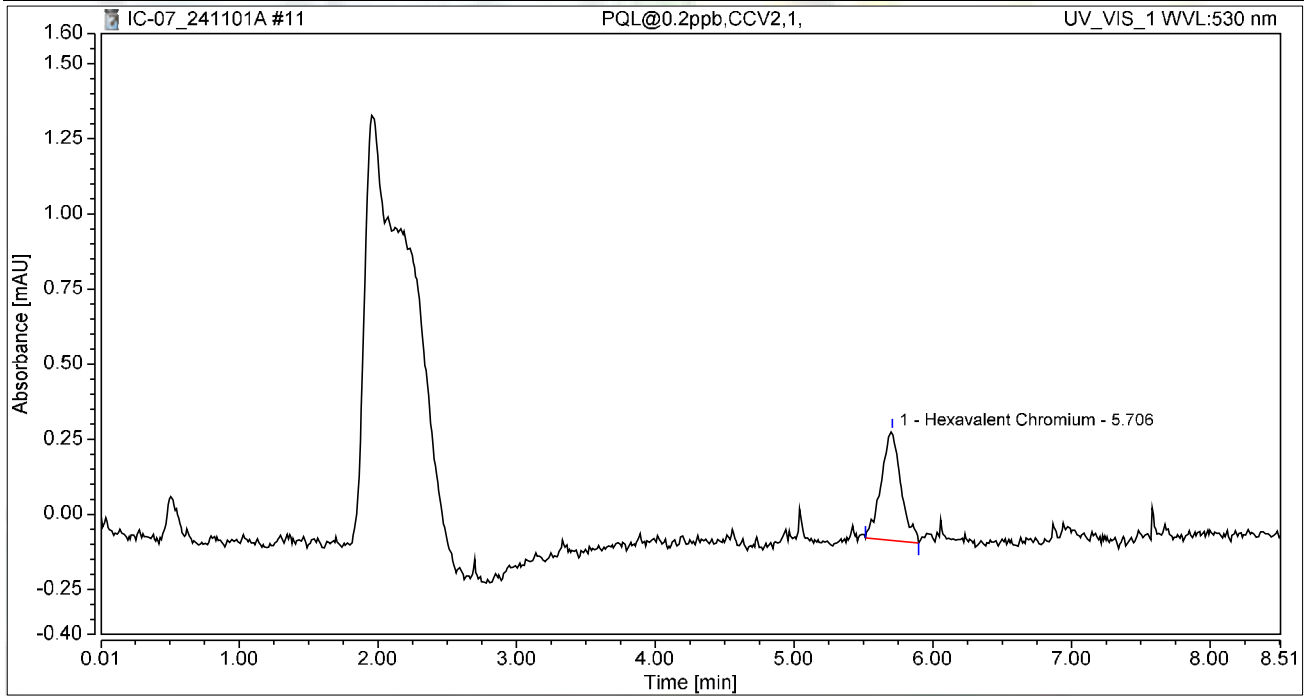
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	1.379	7.932	100.00	100.00	4.8582
Total:			1.379	7.932	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 10:20	Sample Weight:	1.0000

Chromatogram



Integration Results

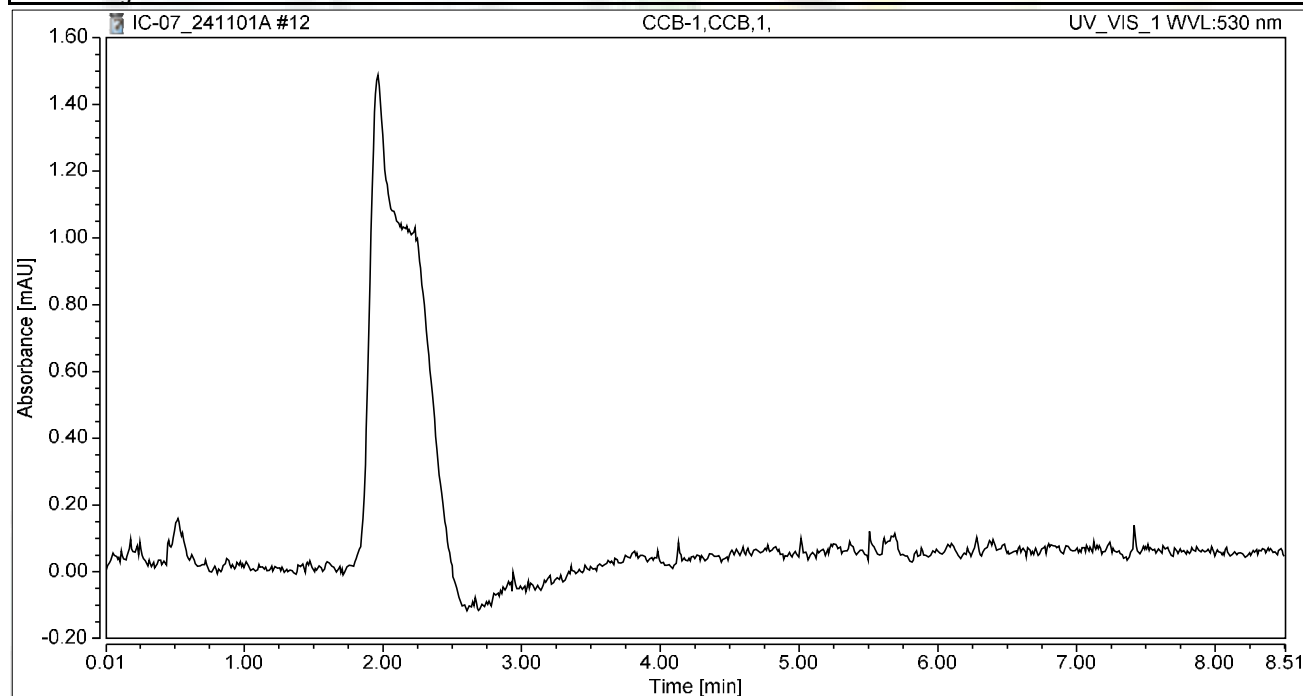
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	0.060	0.365	100.00	100.00	0.2120
Total:			0.060	0.365	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-1,CCB,1,	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 10:30	Sample Weight:	1.0000

Chromatogram



Integration Results

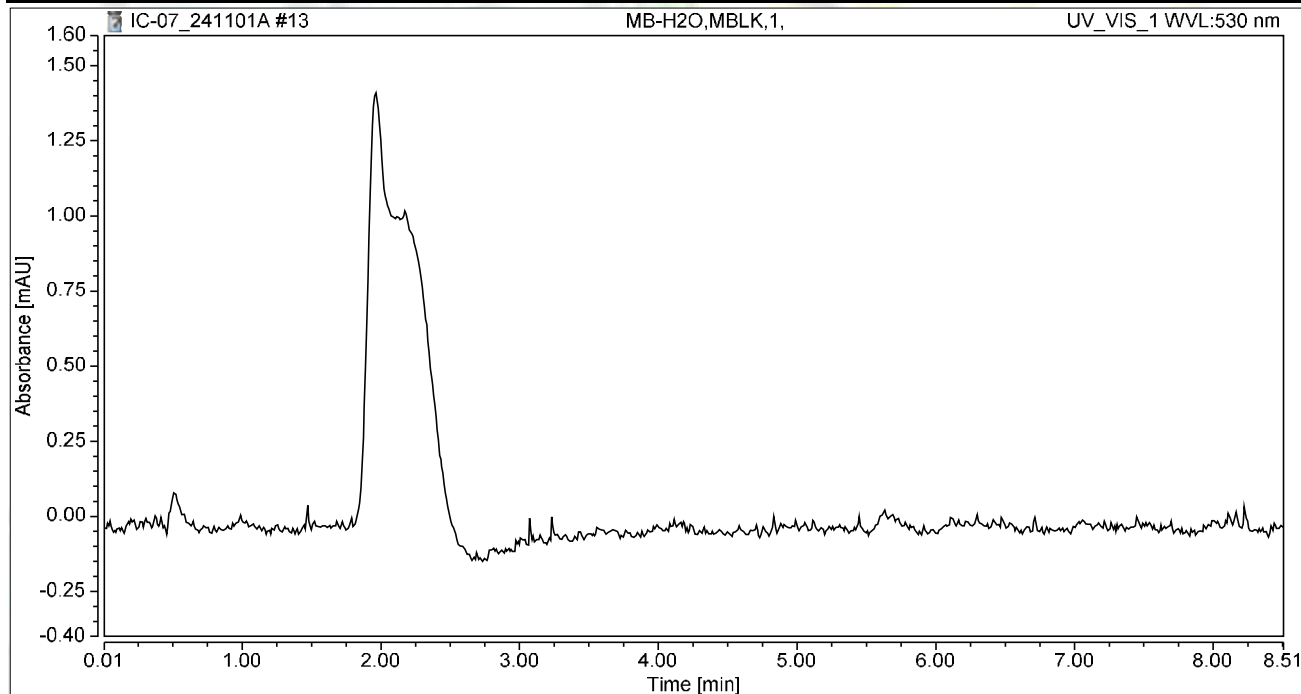
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 10:39	Sample Weight:	1.0000

Chromatogram



Integration Results

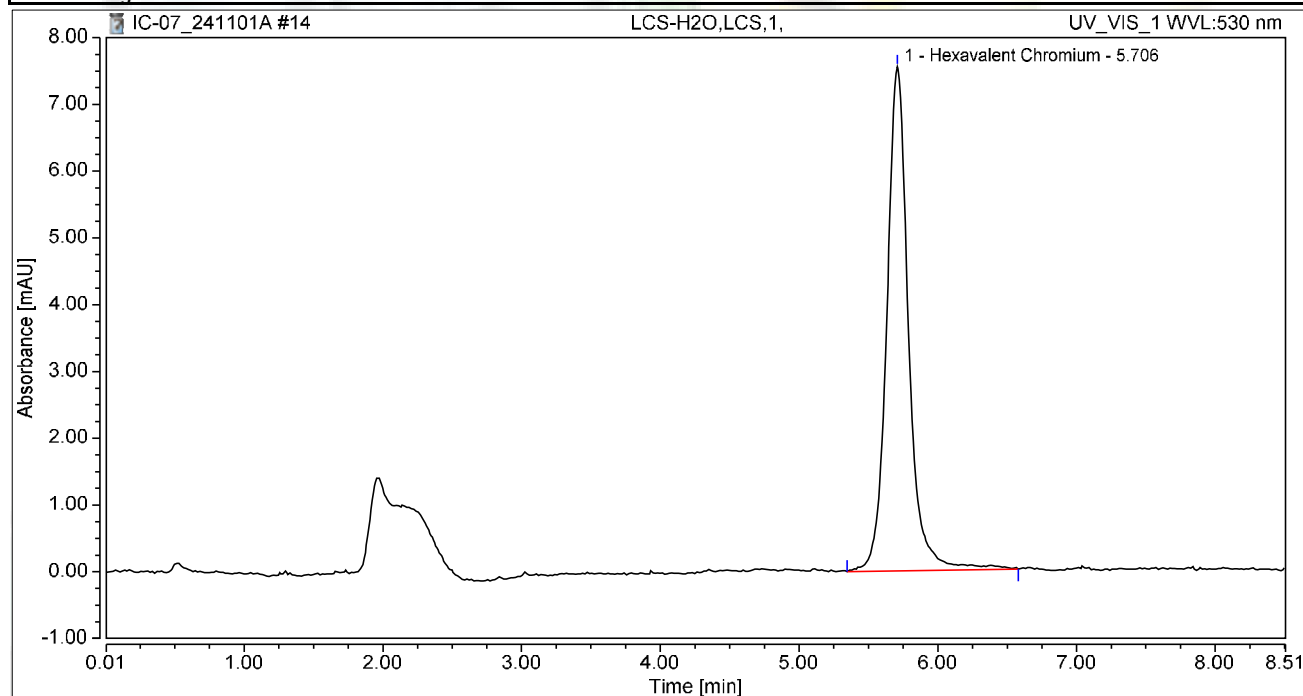
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-H2O,LCS,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 10:49	Sample Weight:	1.0000

Chromatogram



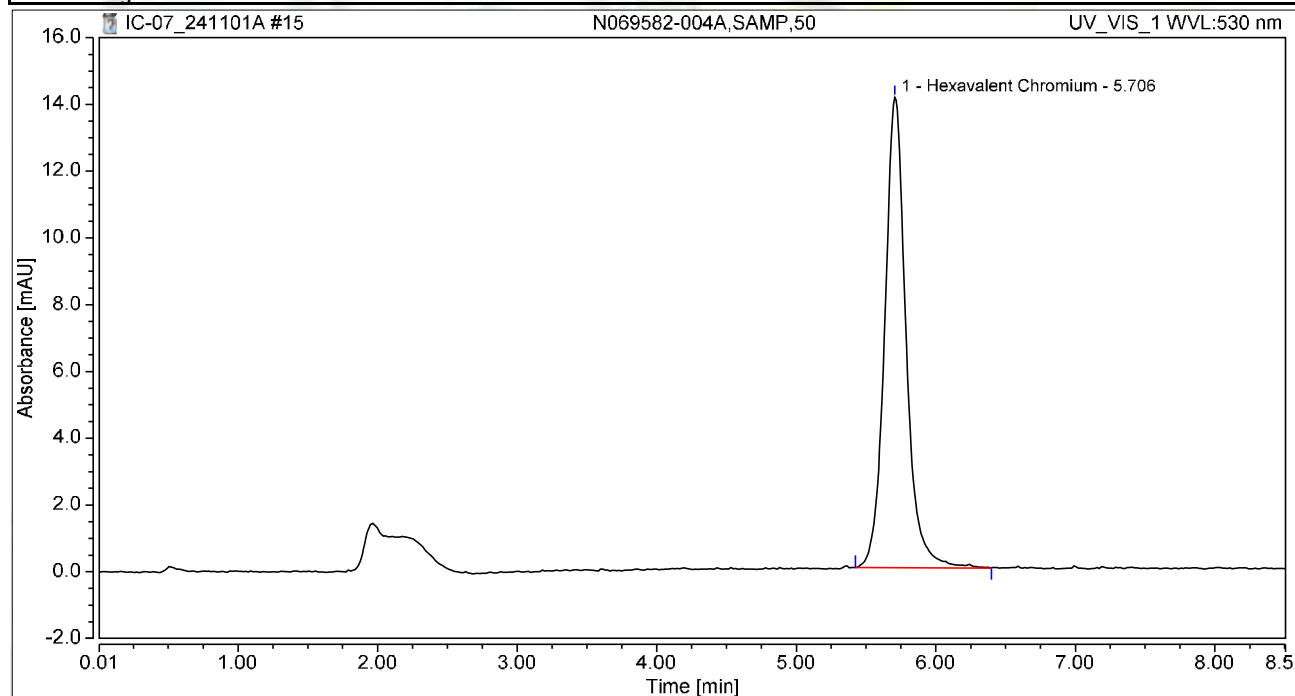
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	1.374	7.557	100.00	100.00	4.8414
Total:			1.374	7.557	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069582-004A,SAMP,50	Run Time (min): 8.50
Vial Number:	1	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	01/Nov/24 11:05	Sample Weight: 1.0000

Chromatogram



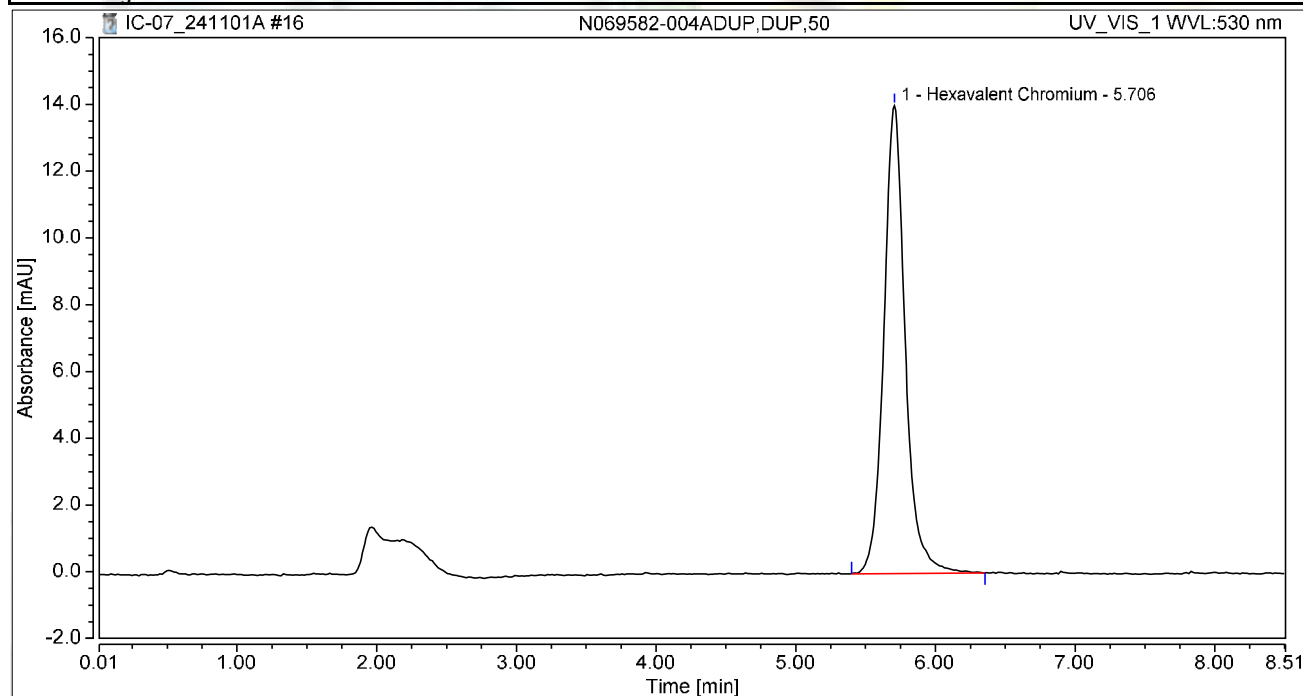
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	2.487	14.081	100.00	100.00	8.7654
Total:			2.487	14.081	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-004ADUP,DUP,50	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 11:17	Sample Weight:	1.0000

Chromatogram



Integration Results

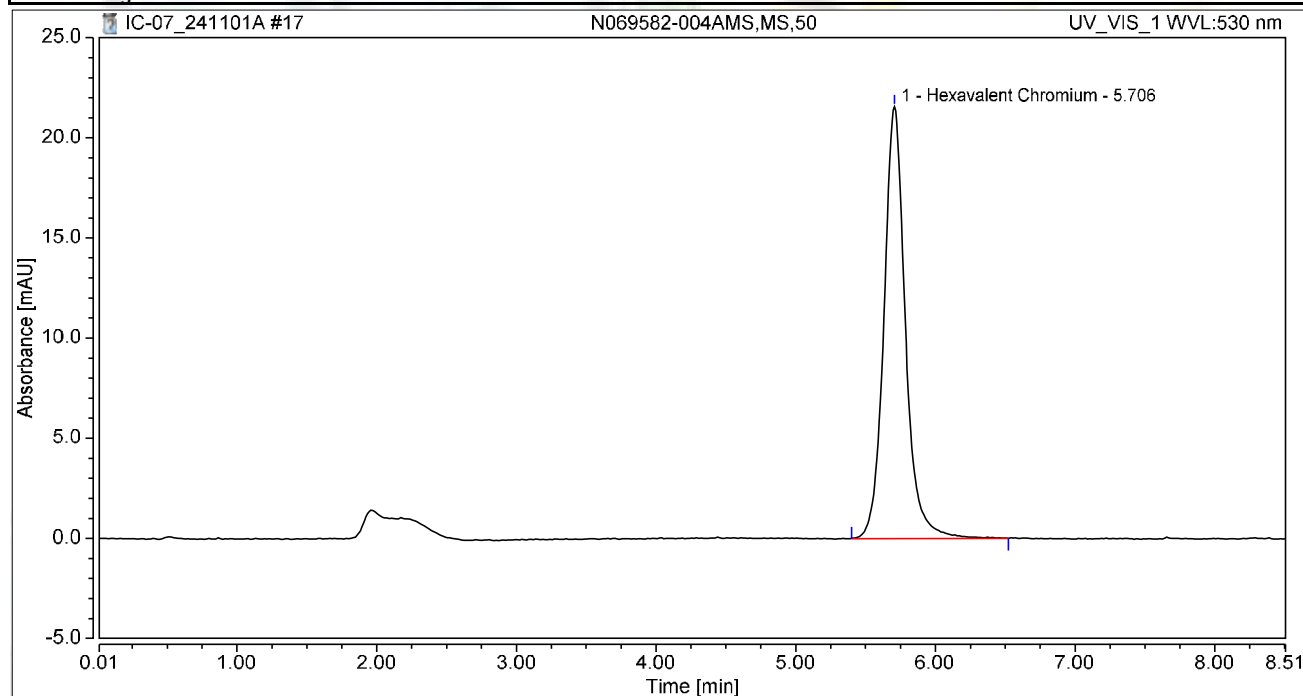
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	2.486	14.014	100.00	100.00	8.7619
Total:			2.486	14.014	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-004AMS,MS,50	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 11:26	Sample Weight:	1.0000

Chromatogram



Integration Results

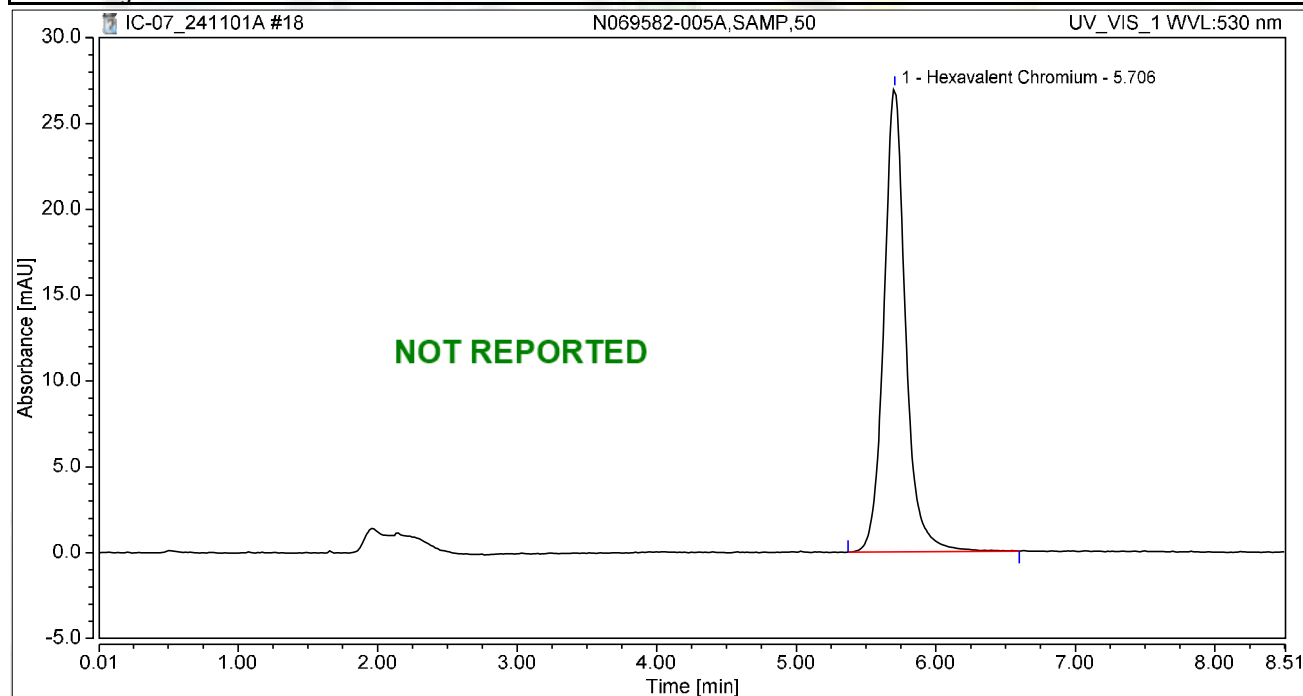
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	3.844	21.561	100.00	100.00	13.5480
Total:			3.844	21.561	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-005A,SAMP,50	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 11:35	Sample Weight:	1.0000

Chromatogram



Integration Results

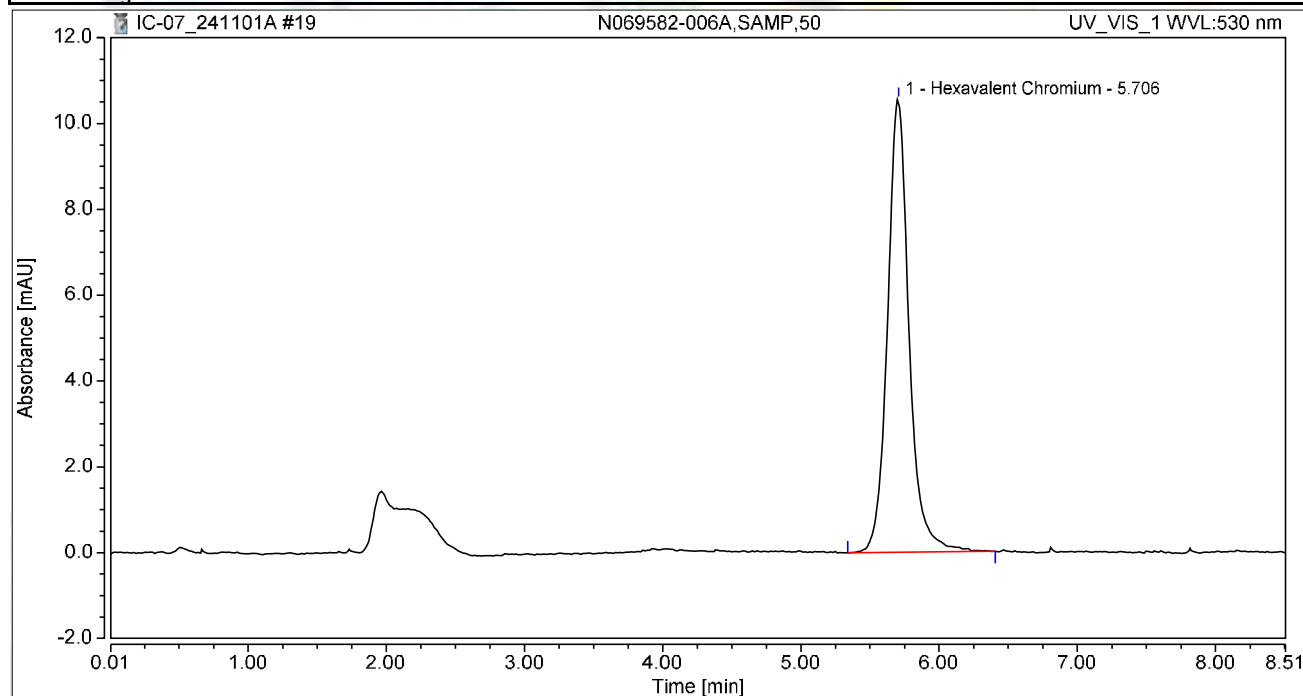
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	4.856	27.009	100.00	100.00	17.1140
Total:			4.856	27.009	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-006A,SAMP,50	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 11:45	Sample Weight:	1.0000

Chromatogram



Integration Results

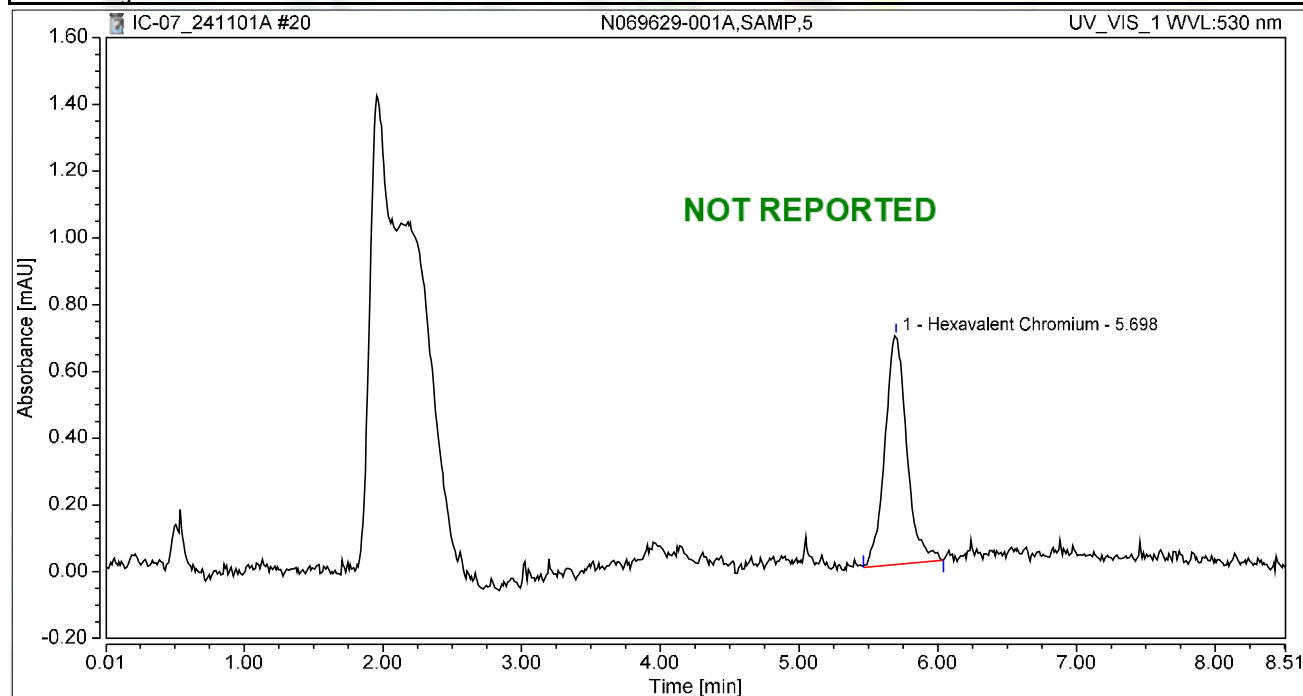
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	1.907	10.553	100.00	100.00	6.7199
Total:			1.907	10.553	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069629-001A,SAMP,5	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 11:54	Sample Weight:	1.0000

Chromatogram



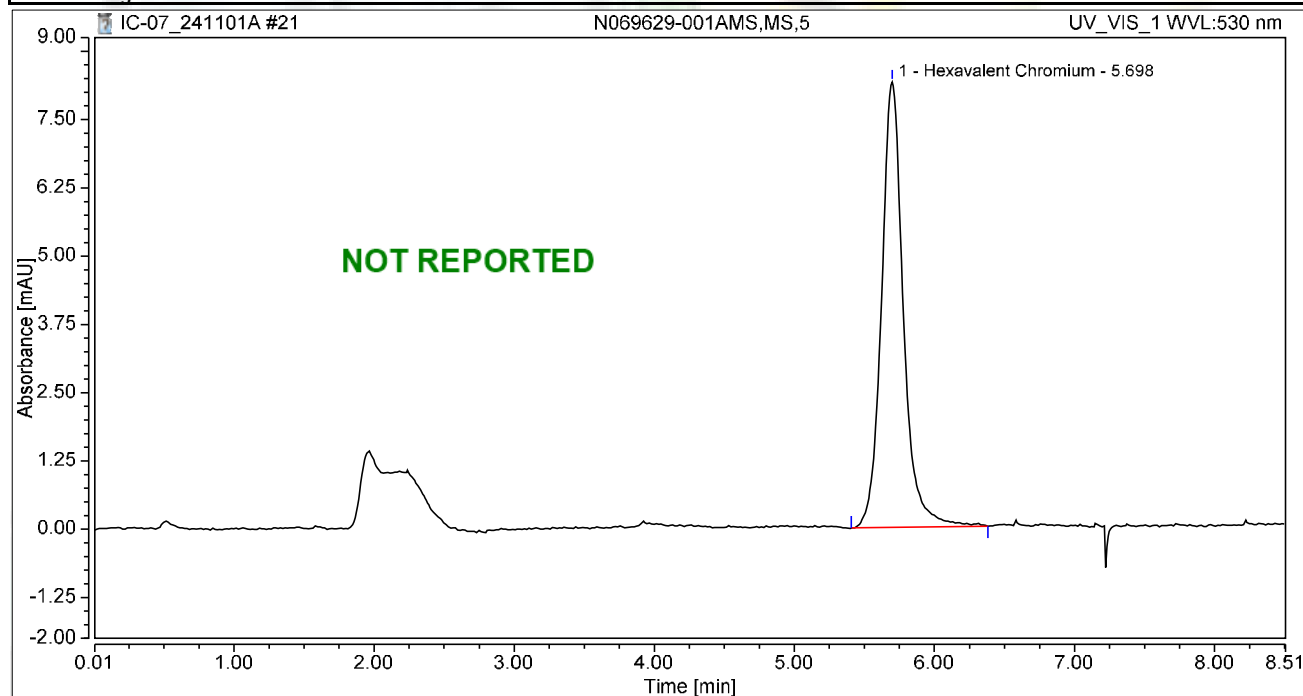
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	0.126	0.686	100.00	100.00	0.4437
Total:			0.126	0.686	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069629-001AMS,MS,5	Run Time (min): 8.50
Vial Number:	7	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	01/Nov/24 12:04	Sample Weight: 1.0000

Chromatogram



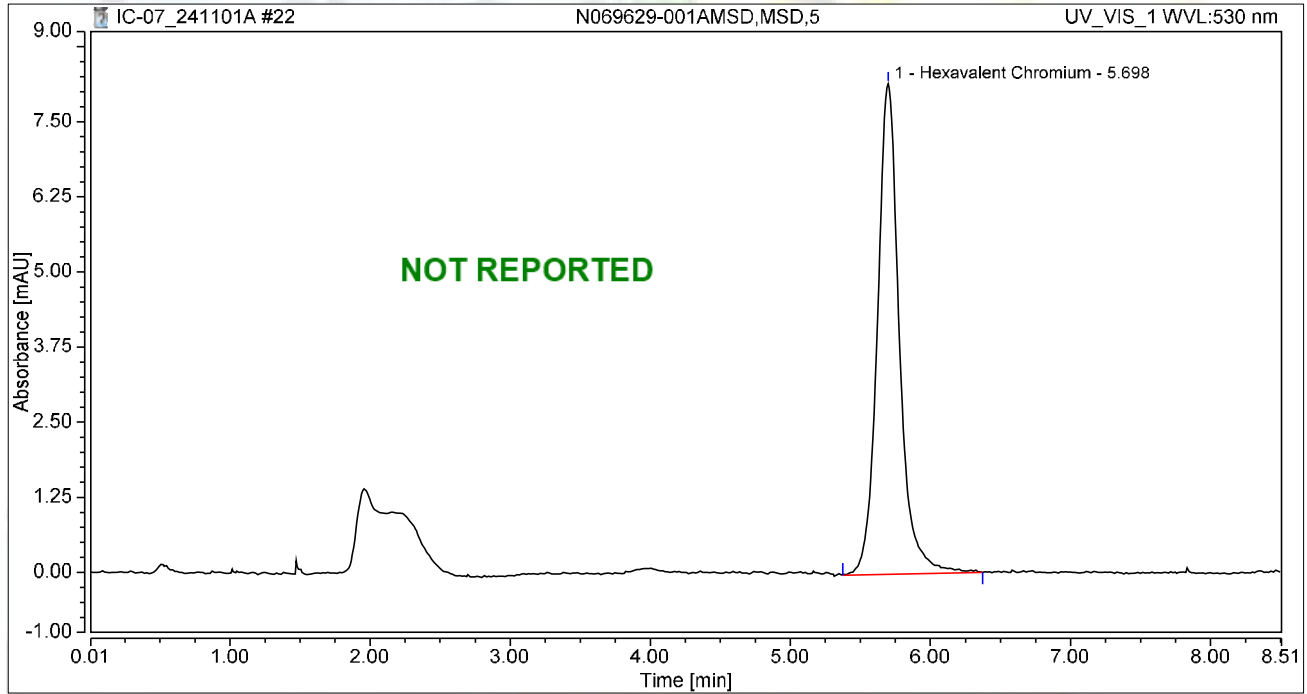
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	1.476	8.156	100.00	100.00	5.2007
Total:			1.476	8.156	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069629-001AMSD,MSD,5	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 12:13	Sample Weight:	1.0000

Chromatogram



Integration Results

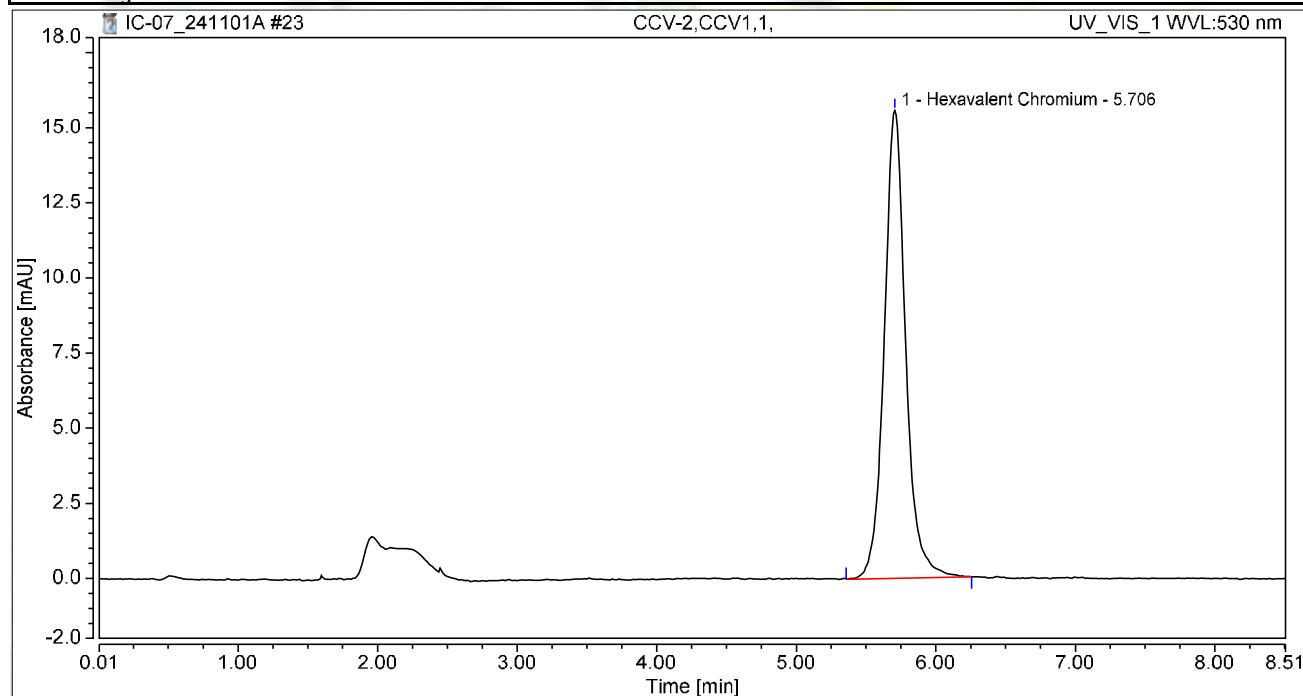
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	1.482	8.164	100.00	100.00	5.2236
Total:			1.482	8.164	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-2,CCV1,1,	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 12:23	Sample Weight:	1.0000

Chromatogram



Integration Results

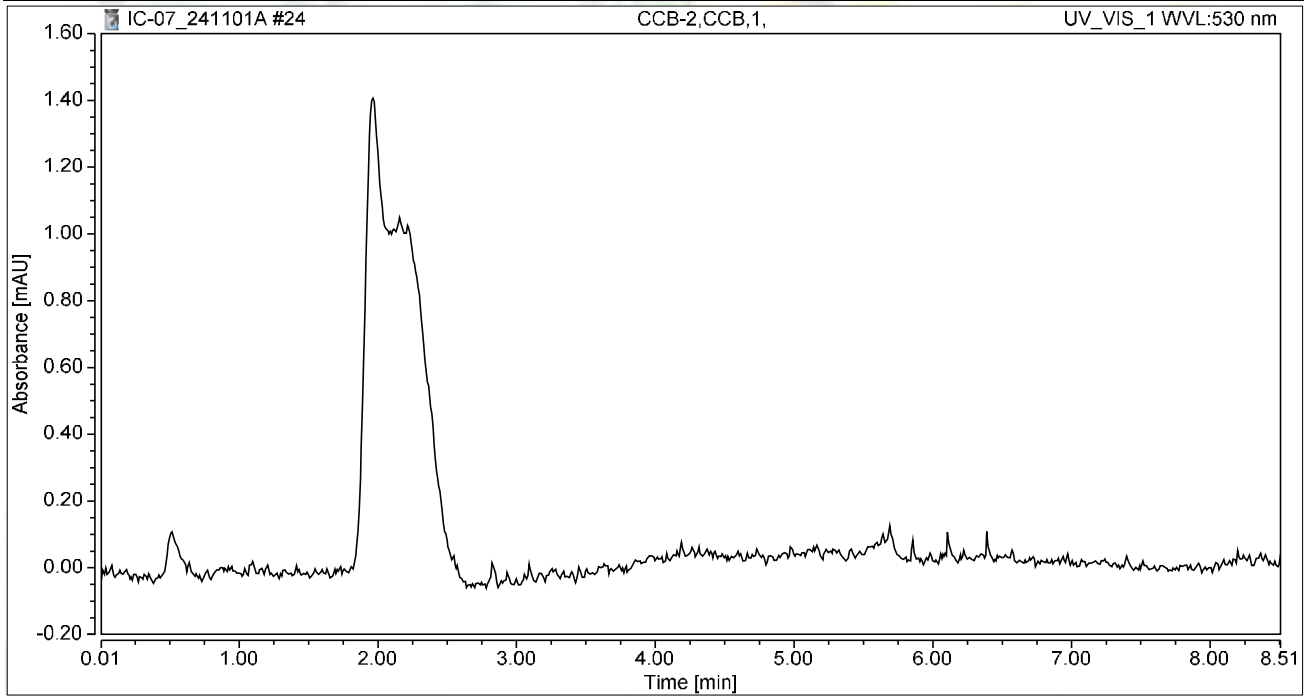
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	2.764	15.570	100.00	100.00	9.7401
Total:			2.764	15.570	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-2,CCB,1,	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 12:32	Sample Weight:	1.0000

Chromatogram



Integration Results

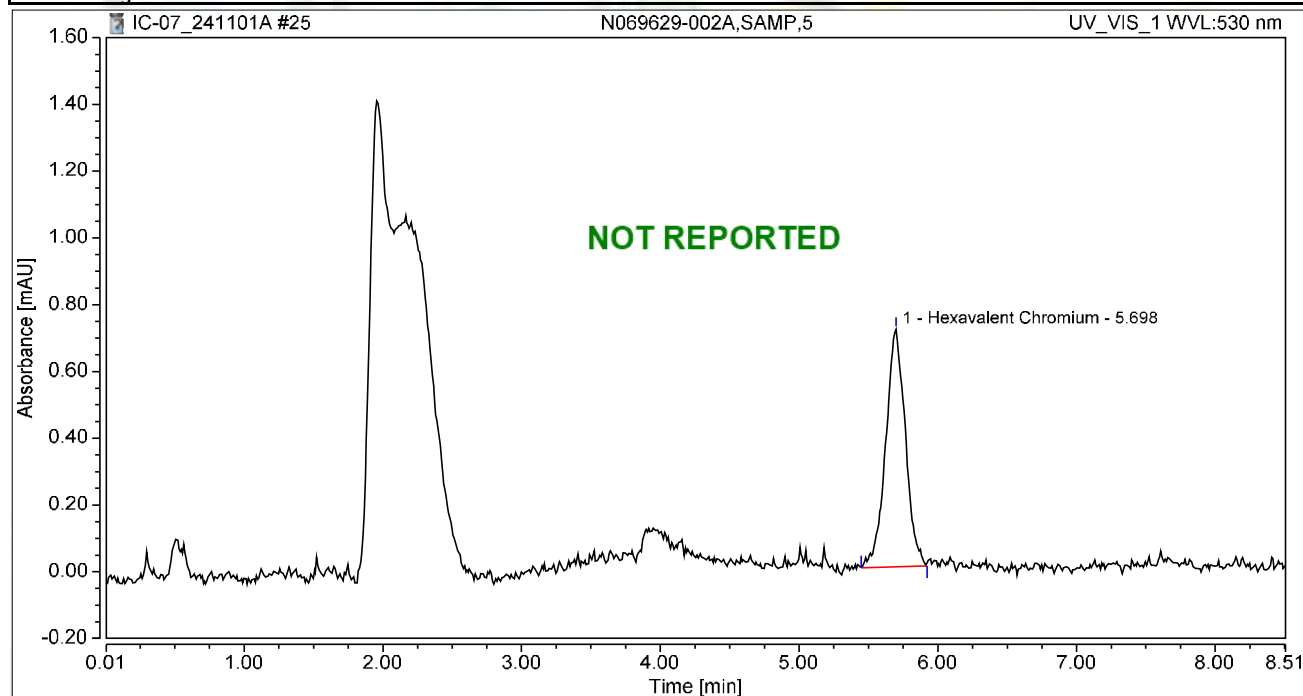
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069629-002A,SAMP,5	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 12:42	Sample Weight:	1.0000

Chromatogram



Integration Results

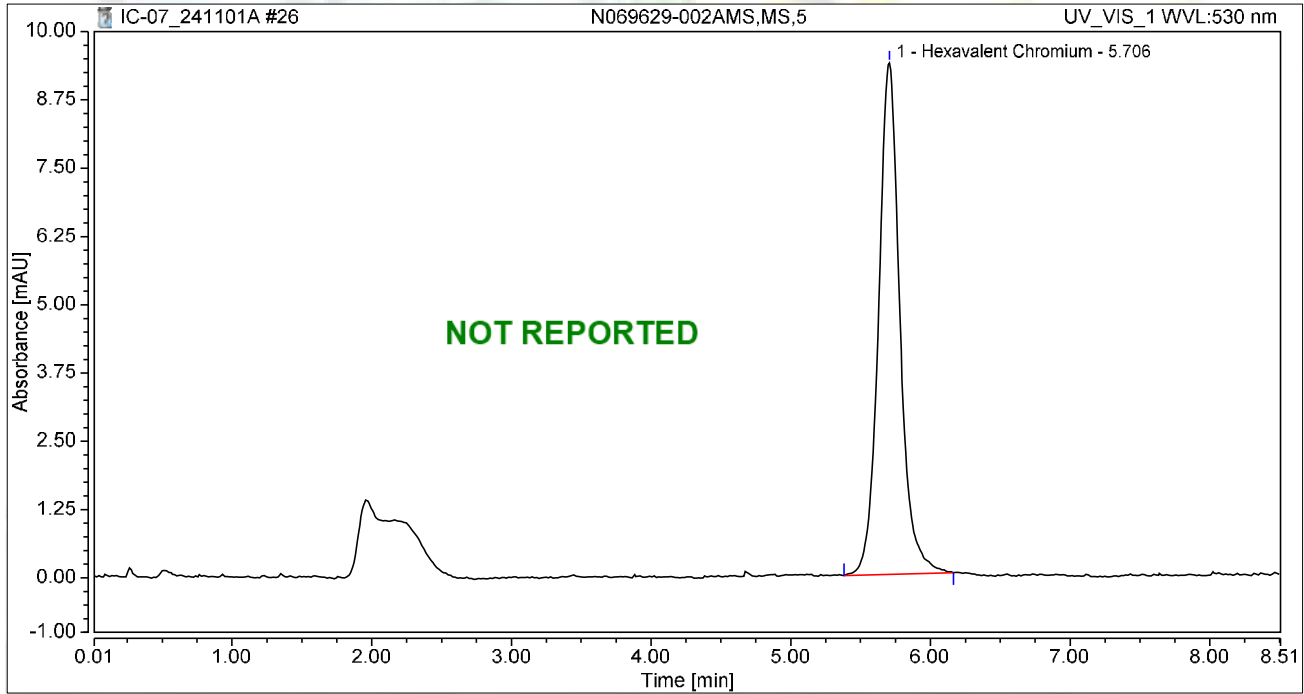
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	0.117	0.711	100.00	100.00	0.4124
Total:			0.117	0.711	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069629-002AMS,MS,5	Run Time (min):	8.49
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 12:51	Sample Weight:	1.0000

Chromatogram



Integration Results

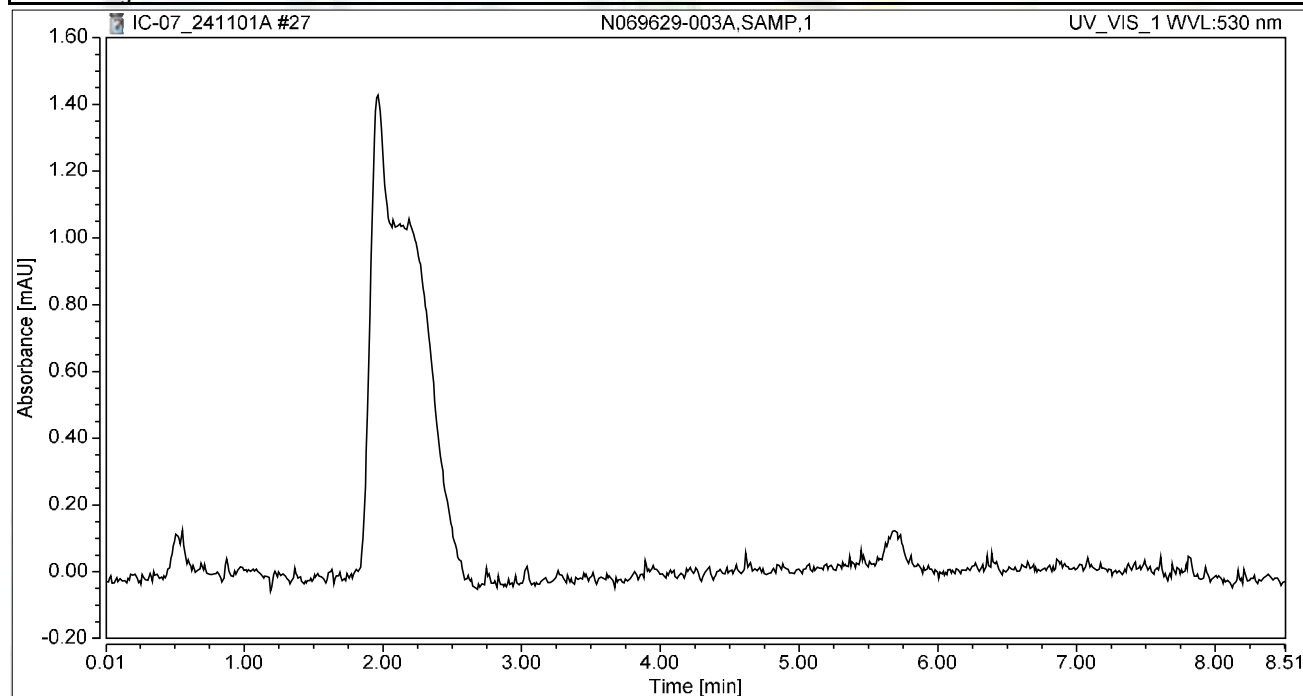
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	1.656	9.365	100.00	100.00	5.8369
Total:			1.656	9.365	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069629-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 13:01	Sample Weight:	1.0000

Chromatogram



Integration Results

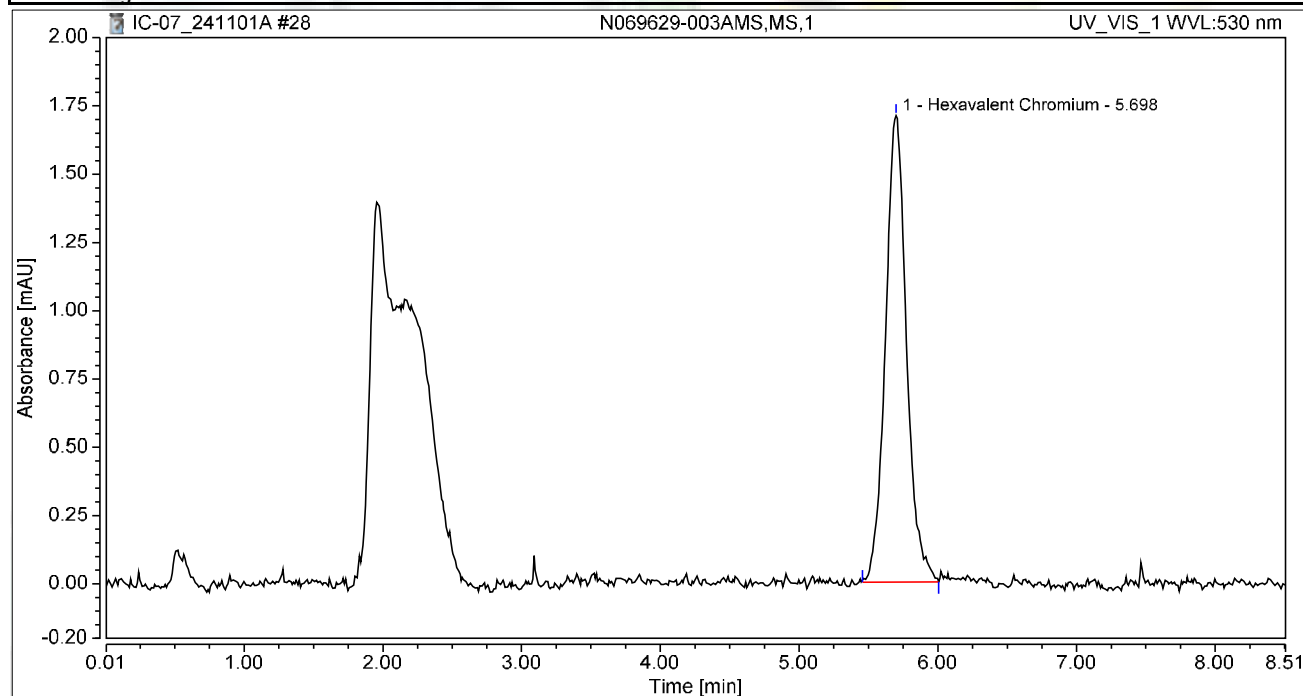
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069629-003AMS,MS,1	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 13:10	Sample Weight:	1.0000

Chromatogram



Integration Results

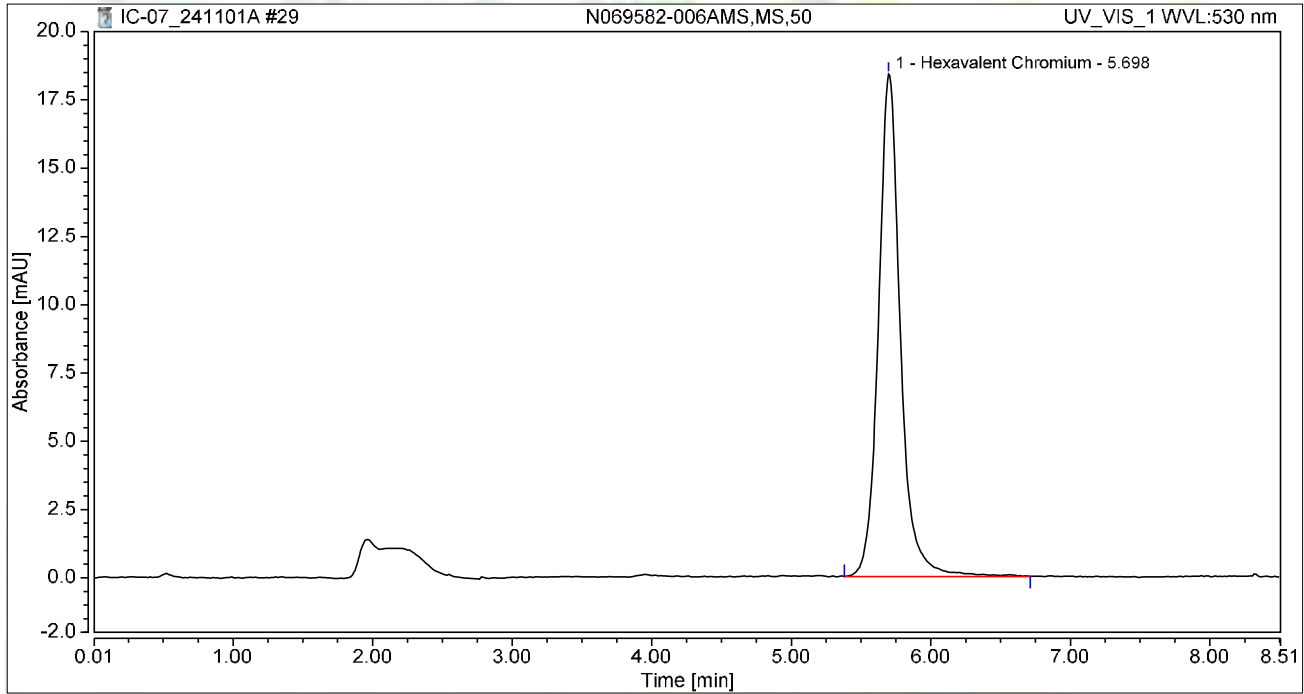
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	0.300	1.707	100.00	100.00	1.0573
Total:			0.300	1.707	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-006AMS,MS,50	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 13:19	Sample Weight:	1.0000

Chromatogram



Integration Results

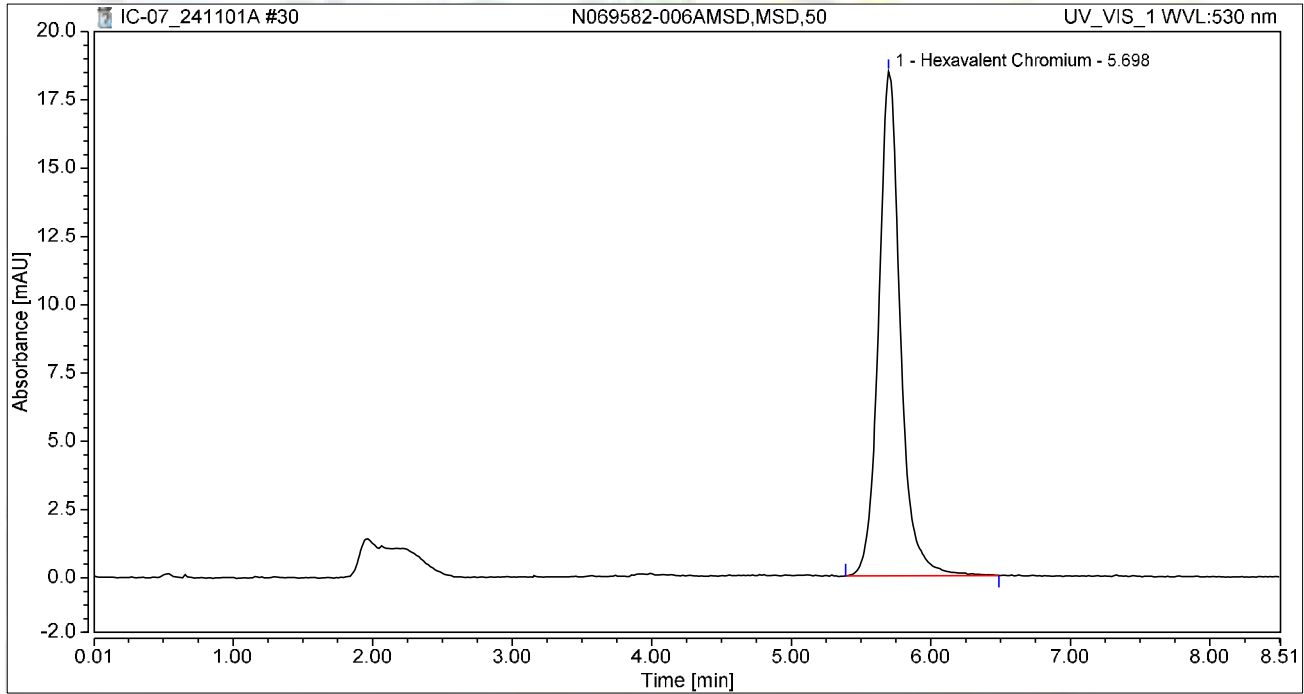
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	3.345	18.397	100.00	100.00	11.7877
Total:			3.345	18.397	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-006AMSD,MSD,50	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 13:29	Sample Weight:	1.0000

Chromatogram



Integration Results

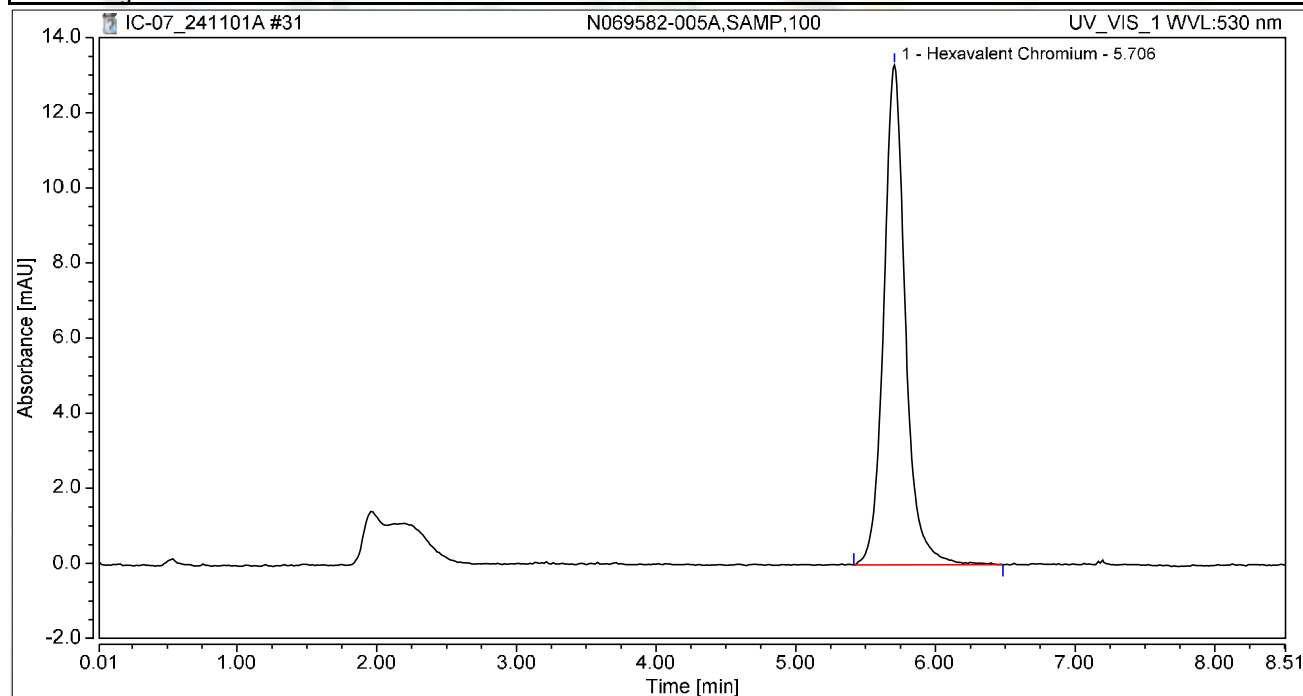
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	3.328	18.464	100.00	100.00	11.7285
Total:			3.328	18.464	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-005A,SAMP,100	Run Time (min):	8.49
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 13:38	Sample Weight:	1.0000

Chromatogram



Integration Results

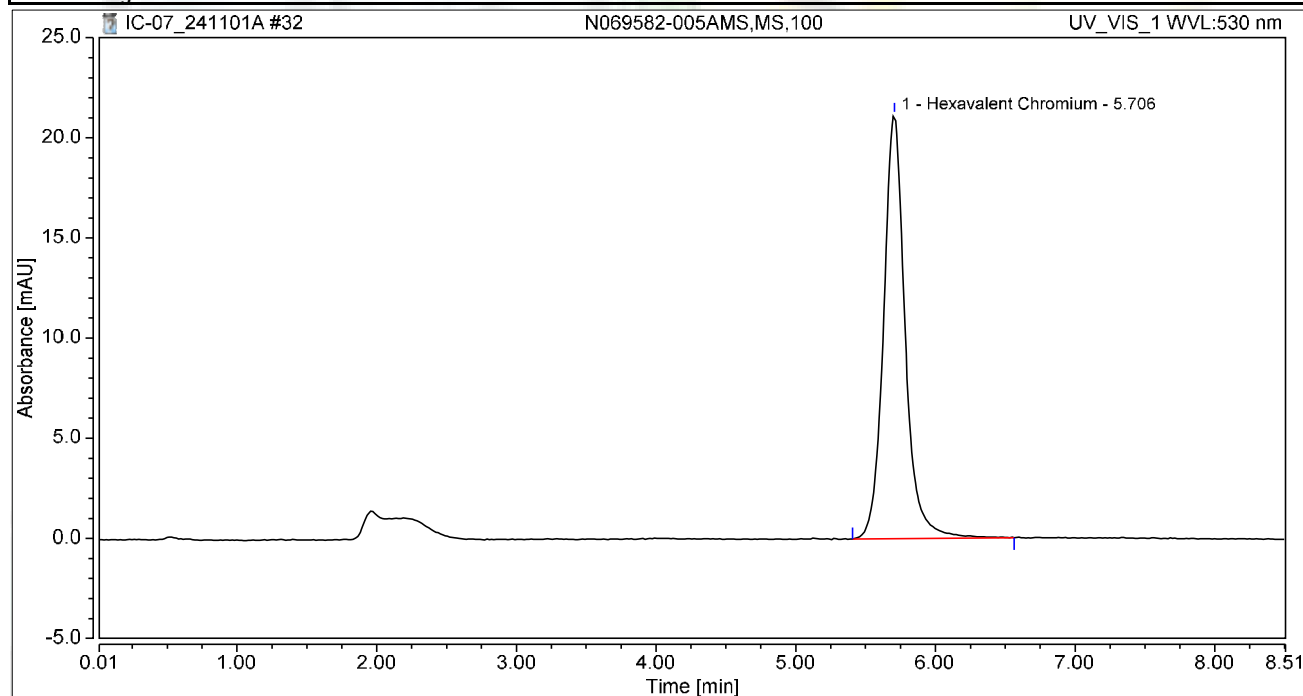
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	2.389	13.308	100.00	100.00	8.4207
Total:			2.389	13.308	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069582-005AMS,MS,100	Run Time (min):	8.49
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 13:48	Sample Weight:	1.0000

Chromatogram



Integration Results

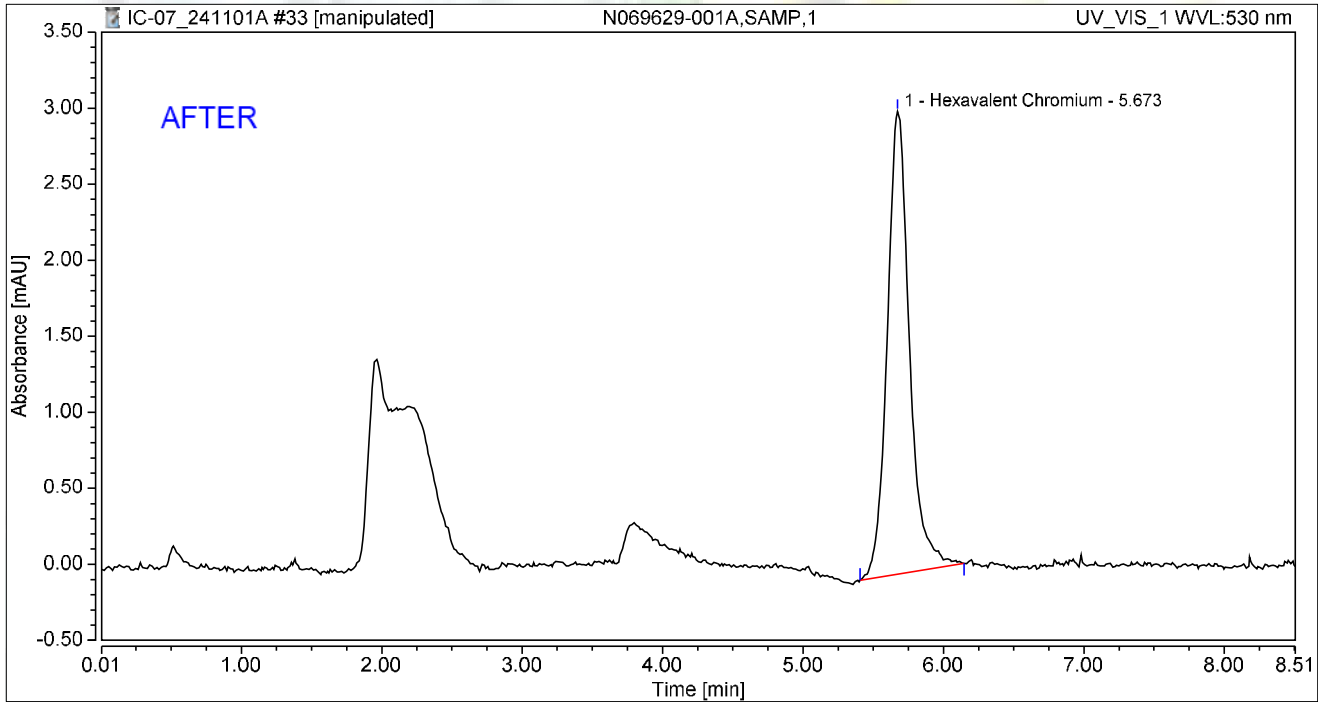
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	3.795	21.161	100.00	100.00	13.3733
Total:			3.795	21.161	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069629-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 13:57	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.558	3.042	100.00	100.00	1.9660
Total:			0.558	3.042	100.00	100.00	

Reviewed by:

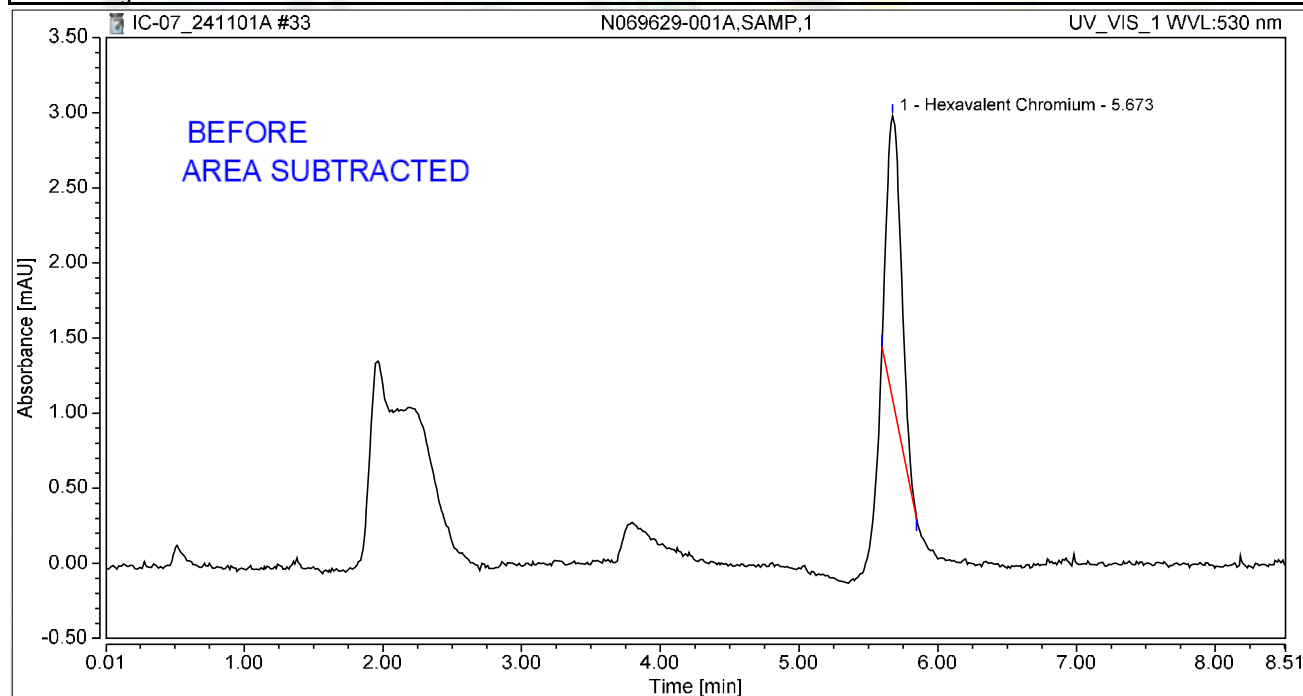
M. Rocha 11/7/2024

Chromatogram and Results

Injection Details

Injection Name:	N069629-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 13:57	Sample Weight:	1.0000

Chromatogram



Integration Results

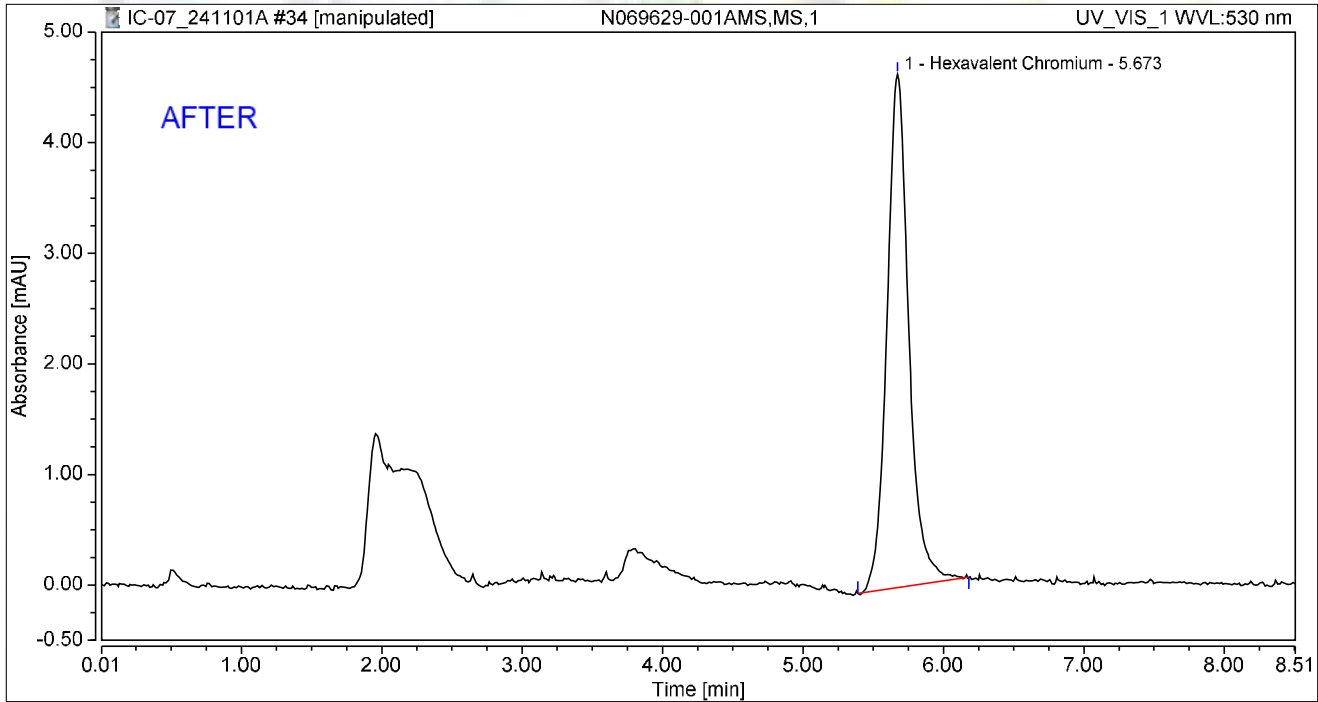
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.228	1.877	100.00	100.00	0.8051
Total:			0.228	1.877	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069629-001AMS,MS,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 14:07	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.834	4.640	100.00	100.00	2.9383
Total:			0.834	4.640	100.00	100.00	

Reviewed by:

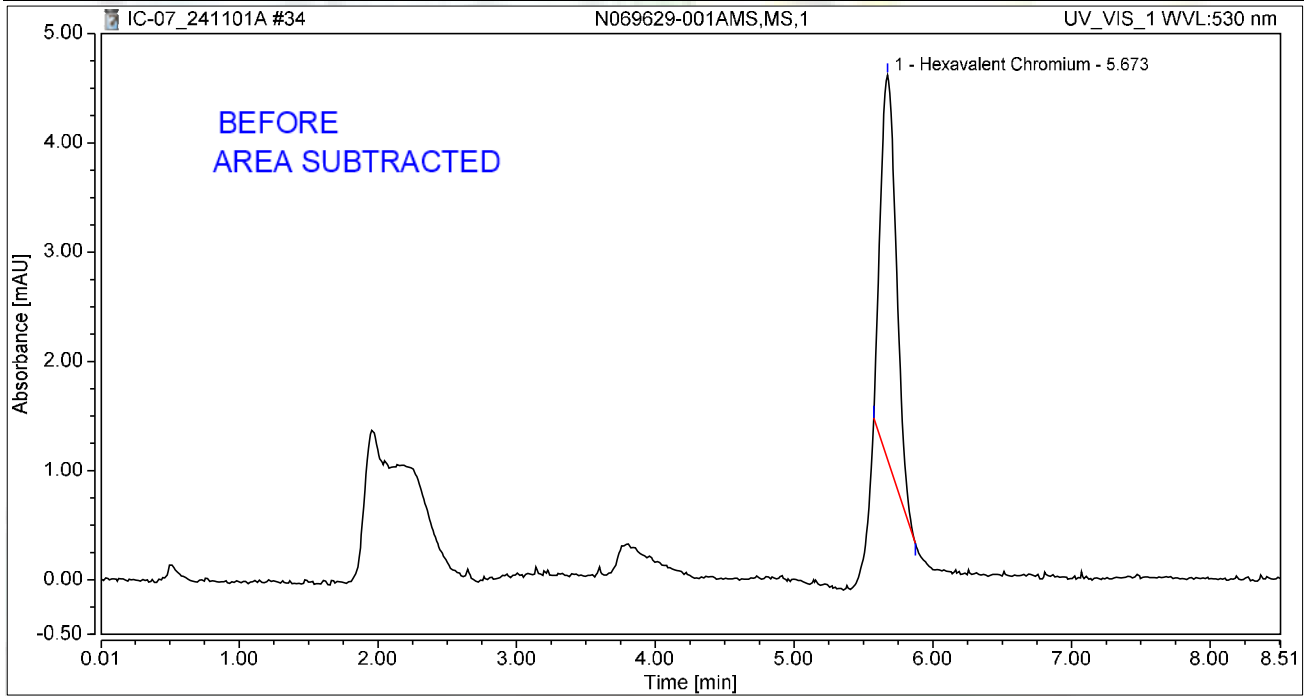
d/Rocha 11/7/2024

Chromatogram and Results

Injection Details

Injection Name:	N069629-001AMS,MS,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 14:07	Sample Weight:	1.0000

Chromatogram



Integration Results

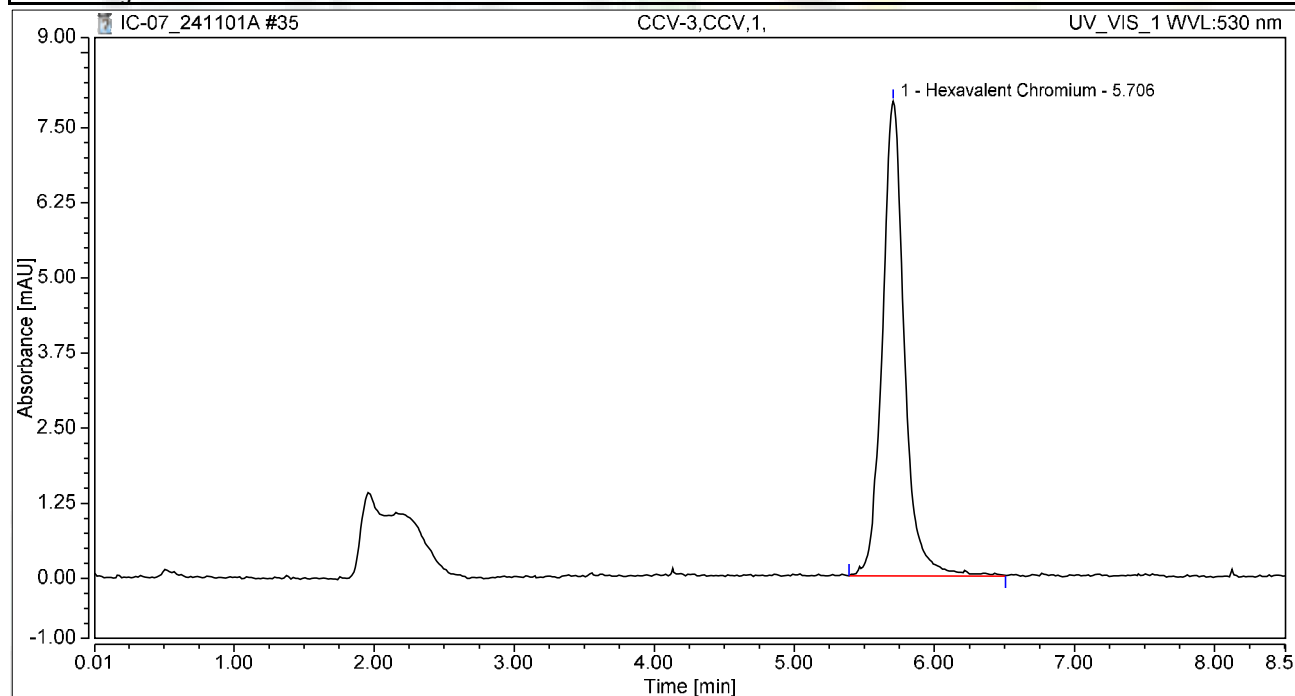
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.472	3.518	100.00	100.00	1.6639
Total:			0.472	3.518	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-3,CCV,1,	Run Time (min):	8.50
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 14:16	Sample Weight:	1.0000

Chromatogram



Integration Results

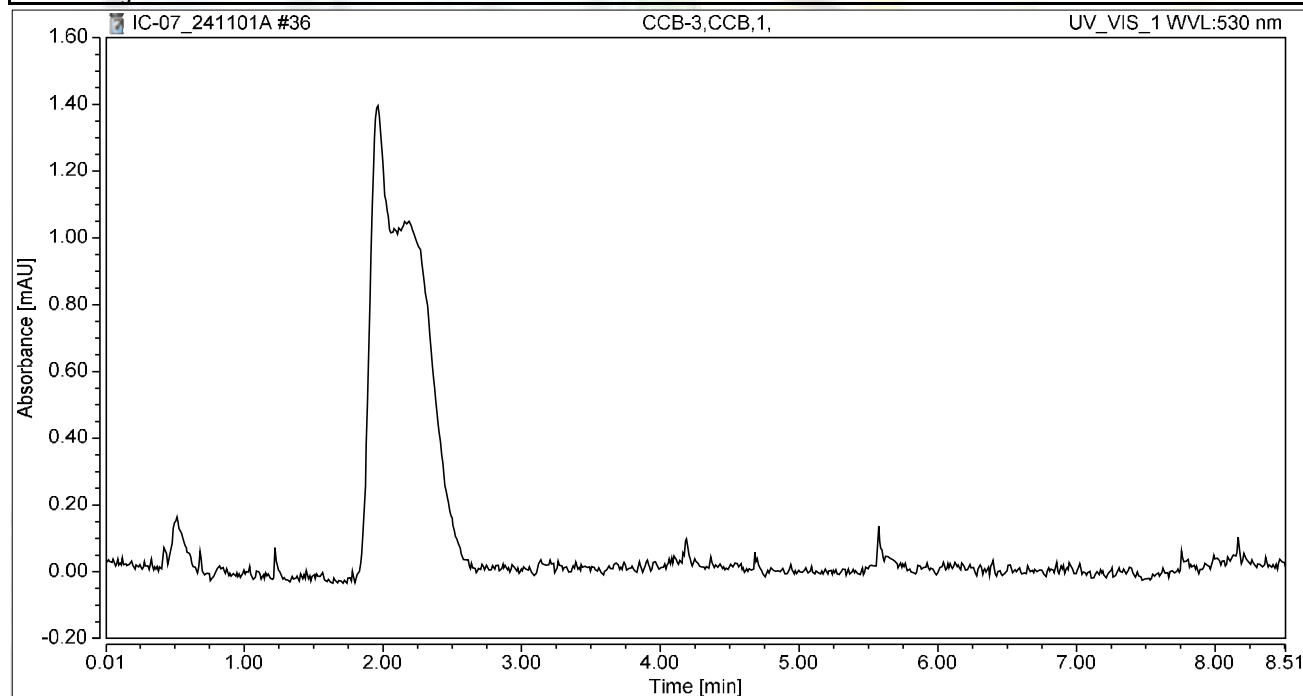
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	1.439	7.898	100.00	100.00	5.0721
Total:			1.439	7.898	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-3,CCB,1,	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 14:26	Sample Weight:	1.0000

Chromatogram



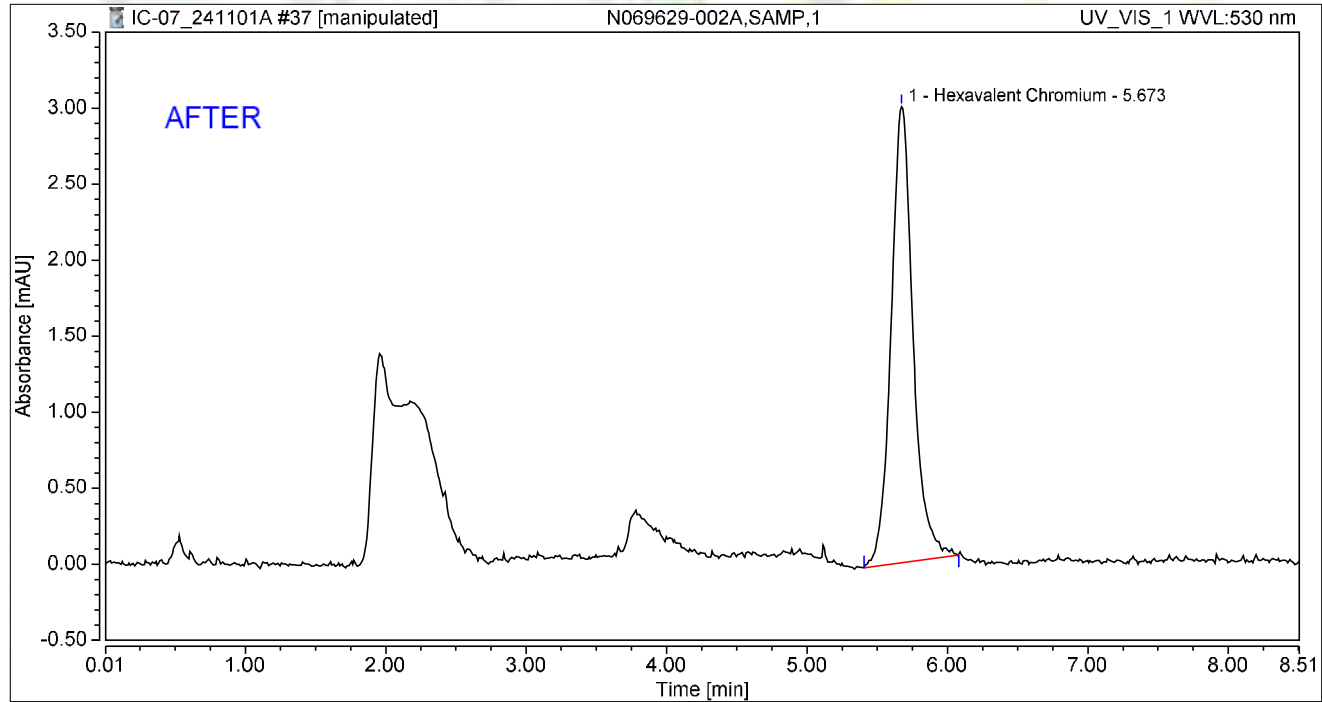
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069629-002A,SAMP,1	Run Time (min): 8.50
Vial Number:	23	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	01/Nov/24 14:35	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.543	2.999	100.00	100.00	1.9154
Total:			0.543	2.999	100.00	100.00	

Reviewed by:

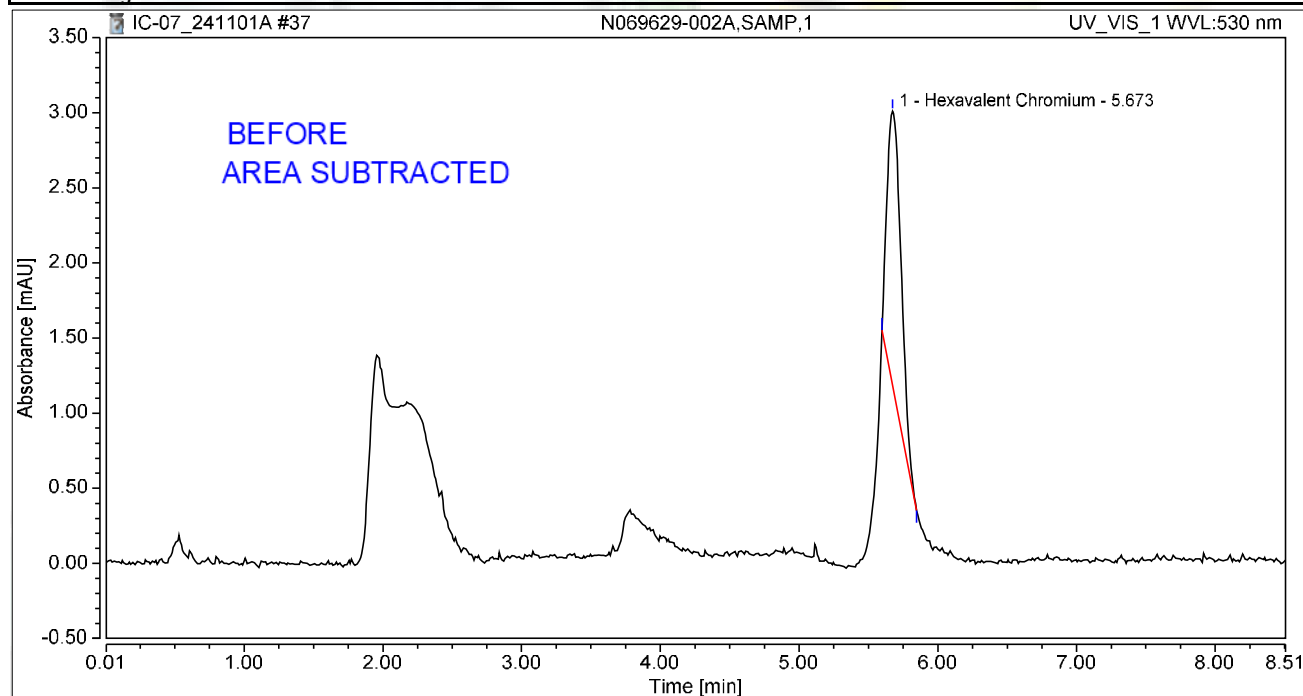
M. Rocha 11/7/2024

Chromatogram and Results

Injection Details

Injection Name:	N069629-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 14:35	Sample Weight:	1.0000

Chromatogram



Integration Results

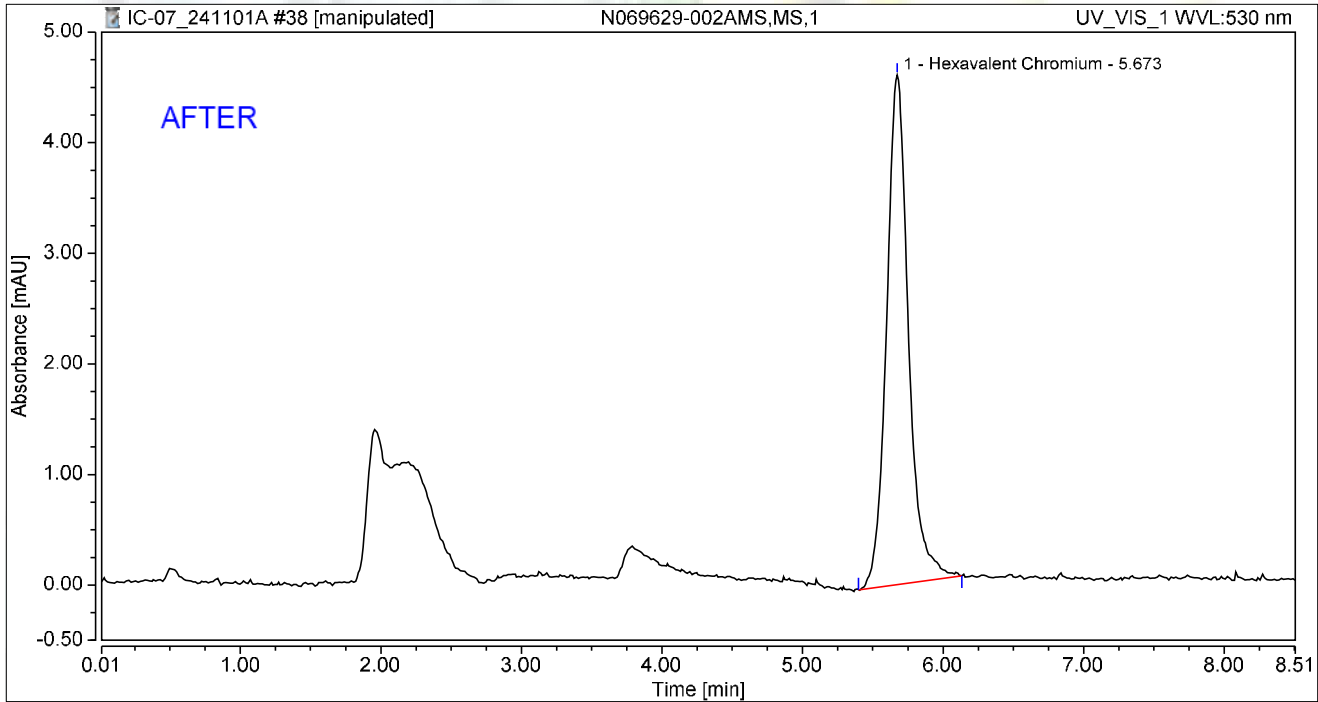
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.215	1.815	100.00	100.00	0.7594
Total:			0.215	1.815	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069629-002AMS,MS,1	Run Time (min):	8.49
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 14:45	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.831	4.607	100.00	100.00	2.9284
Total:			0.831	4.607	100.00	100.00	

Reviewed by:

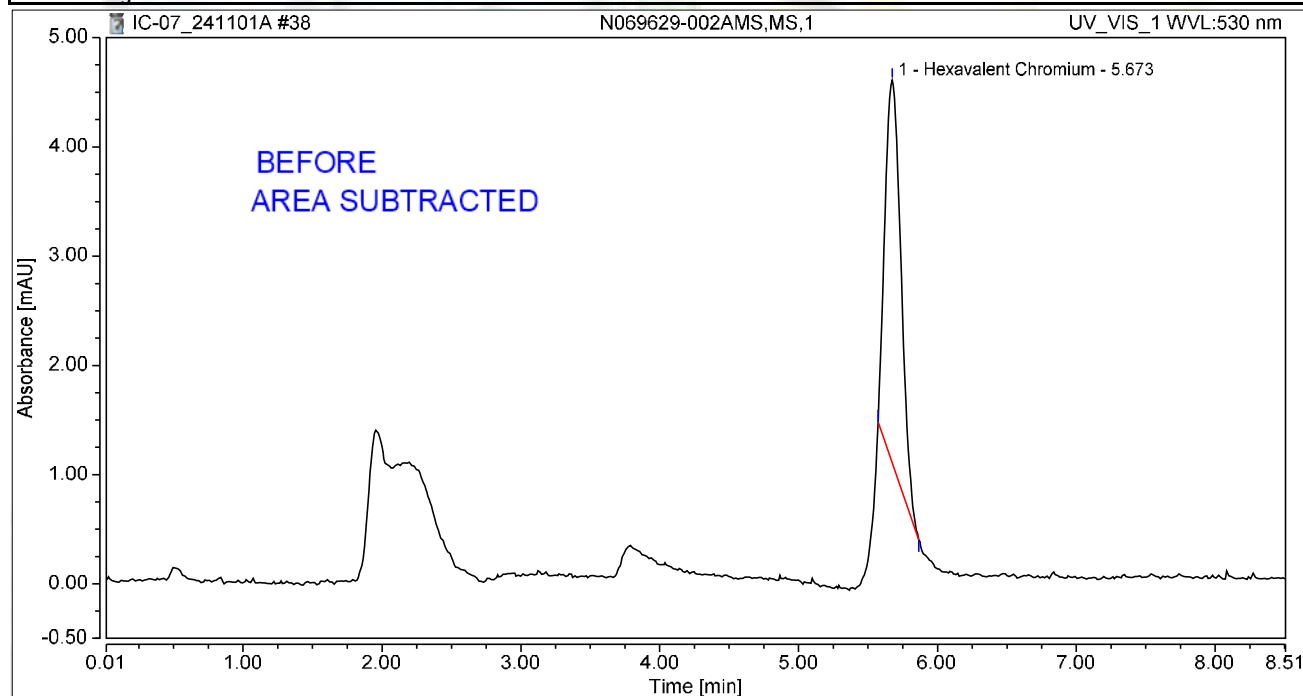
M. Rocha 11/7/2024

Chromatogram and Results

Injection Details

Injection Name:	N069629-002AMS,MS,1	Run Time (min):	8.49
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 14:45	Sample Weight:	1.0000

Chromatogram



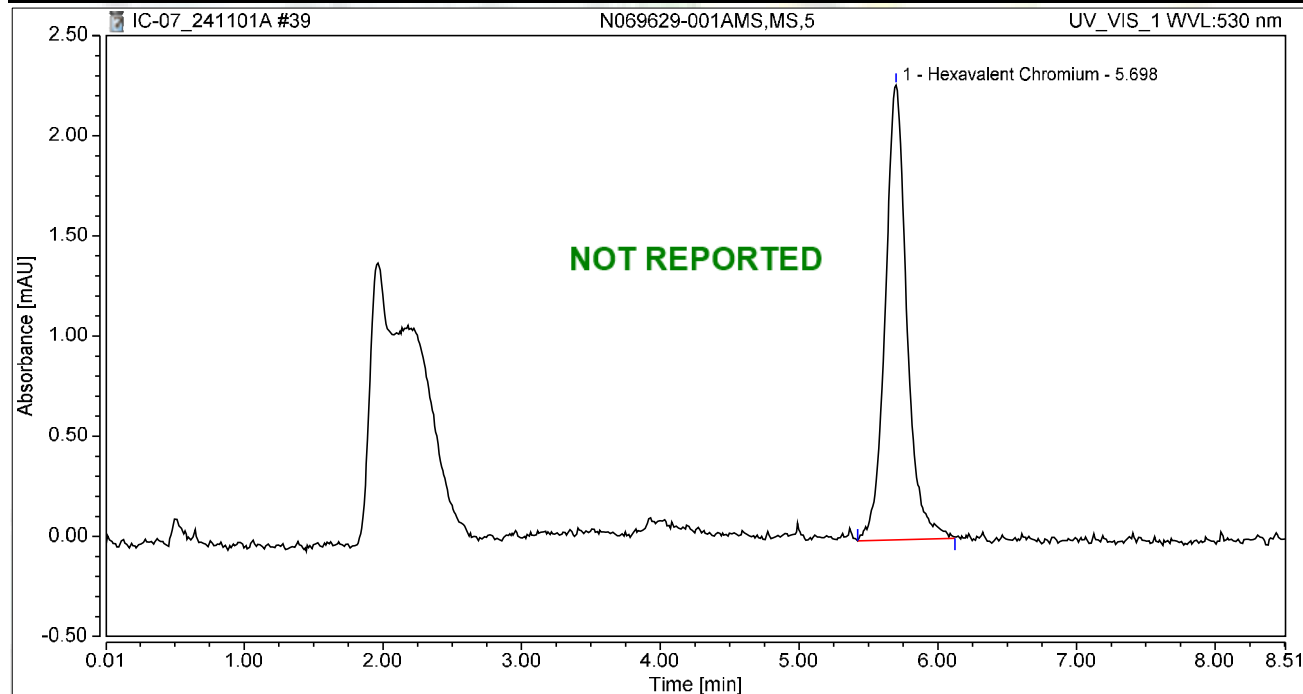
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.467	3.498	100.00	100.00	1.6475
Total:			0.467	3.498	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069629-001AMS,MS,5	Run Time (min): 8.50
Vial Number:	25	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	01/Nov/24 14:54	Sample Weight: 1.0000

Chromatogram



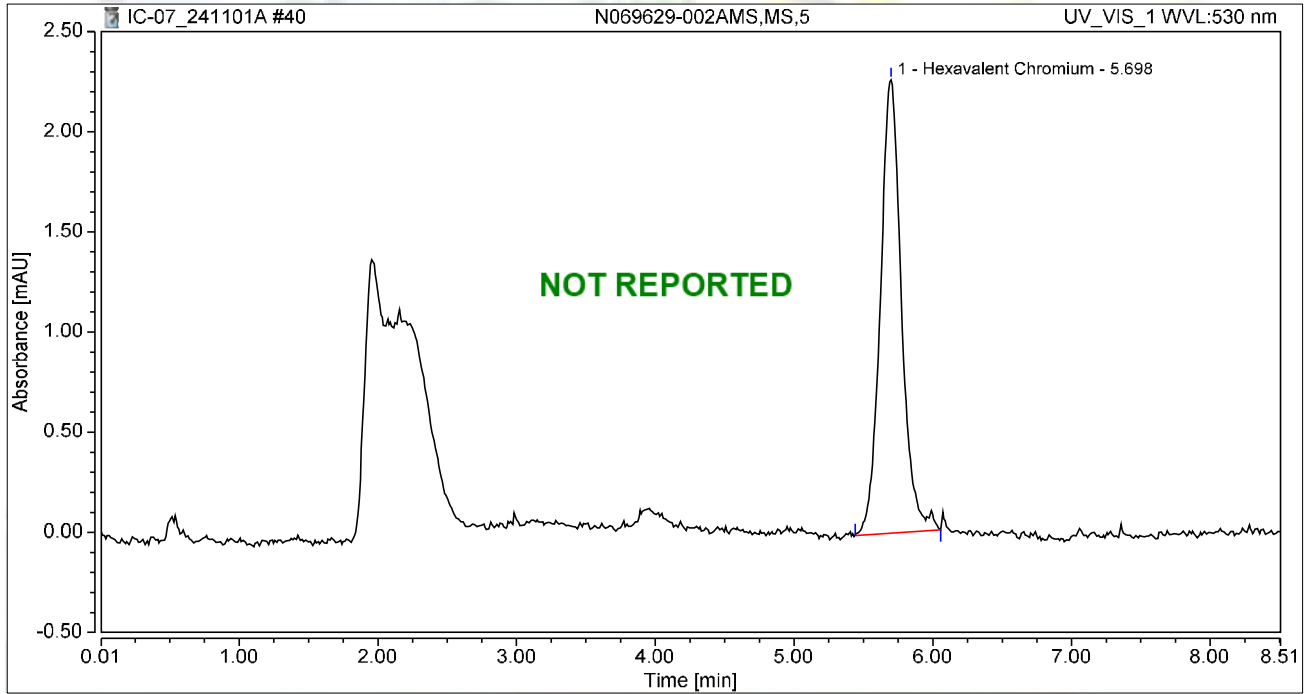
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	0.408	2.269	100.00	100.00	1.4388
Total:			0.408	2.269	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069629-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 15:03	Sample Weight:	1.0000

Chromatogram



Integration Results

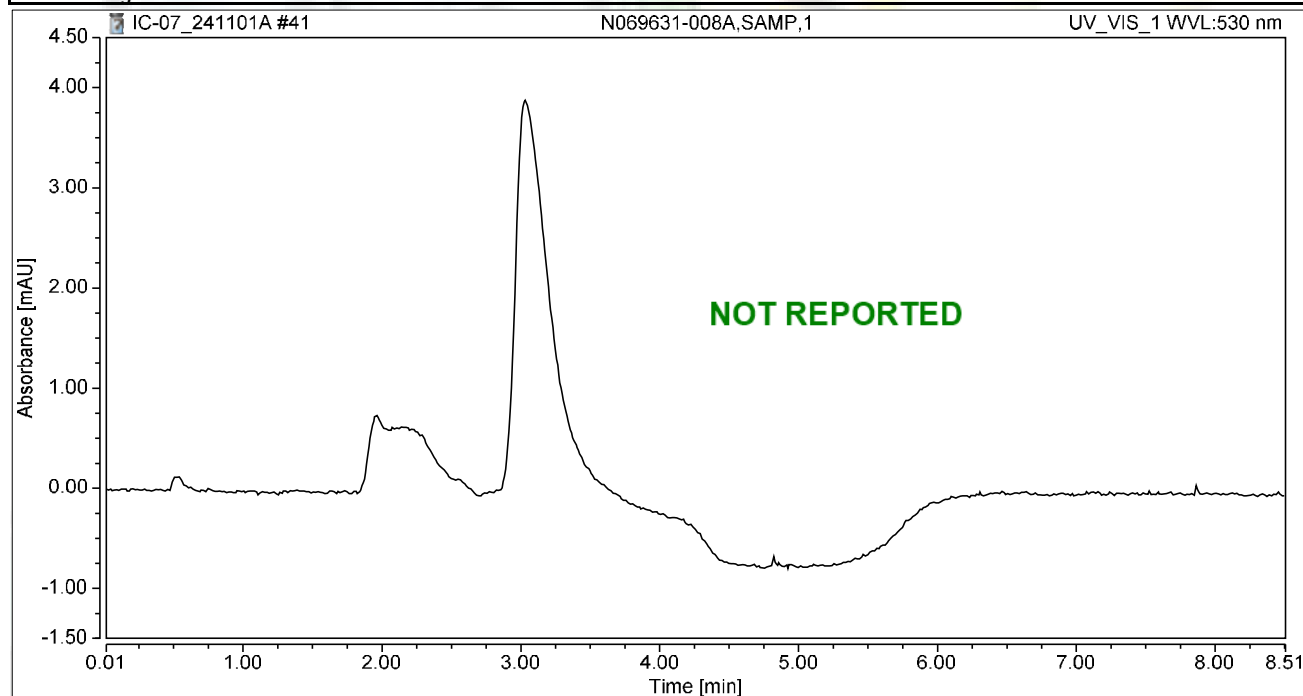
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	0.400	2.265	100.00	100.00	1.4087
Total:			0.400	2.265	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-008A,SAMP,1	Run Time (min):	8.49
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 15:13	Sample Weight:	1.0000

Chromatogram



Integration Results

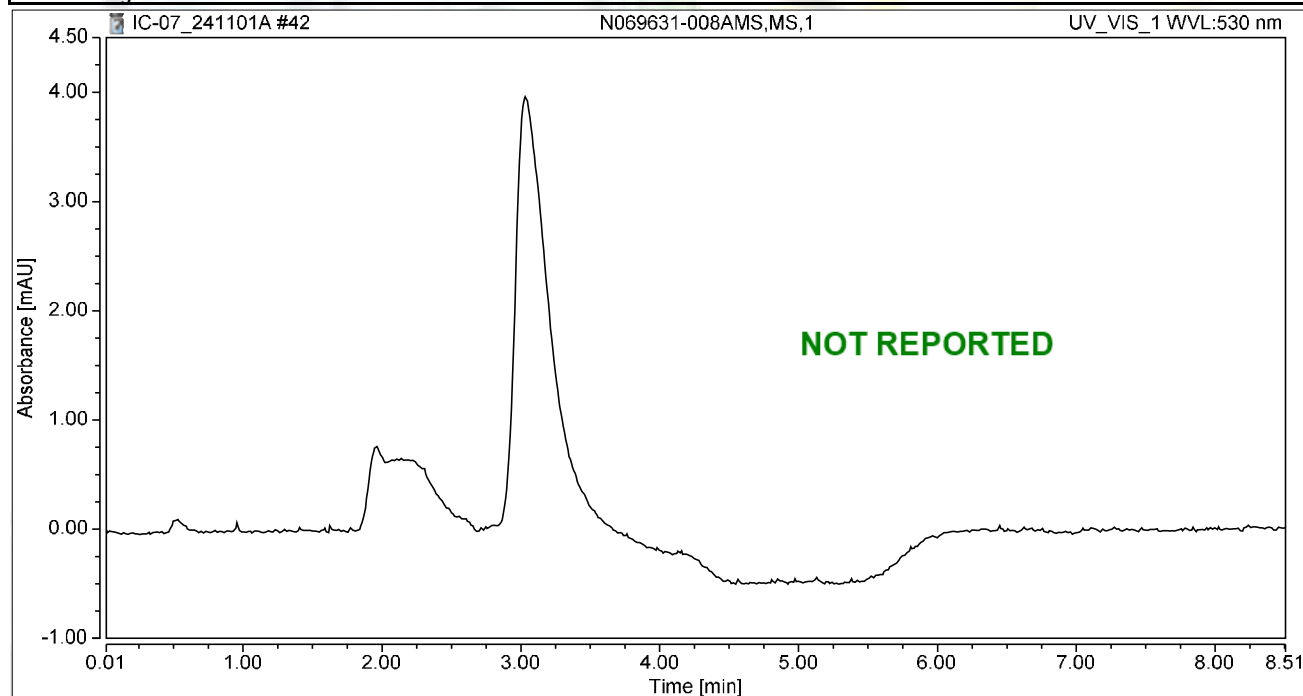
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-008AMS,MS,1	Run Time (min):	8.49
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 15:22	Sample Weight:	1.0000

Chromatogram



Integration Results

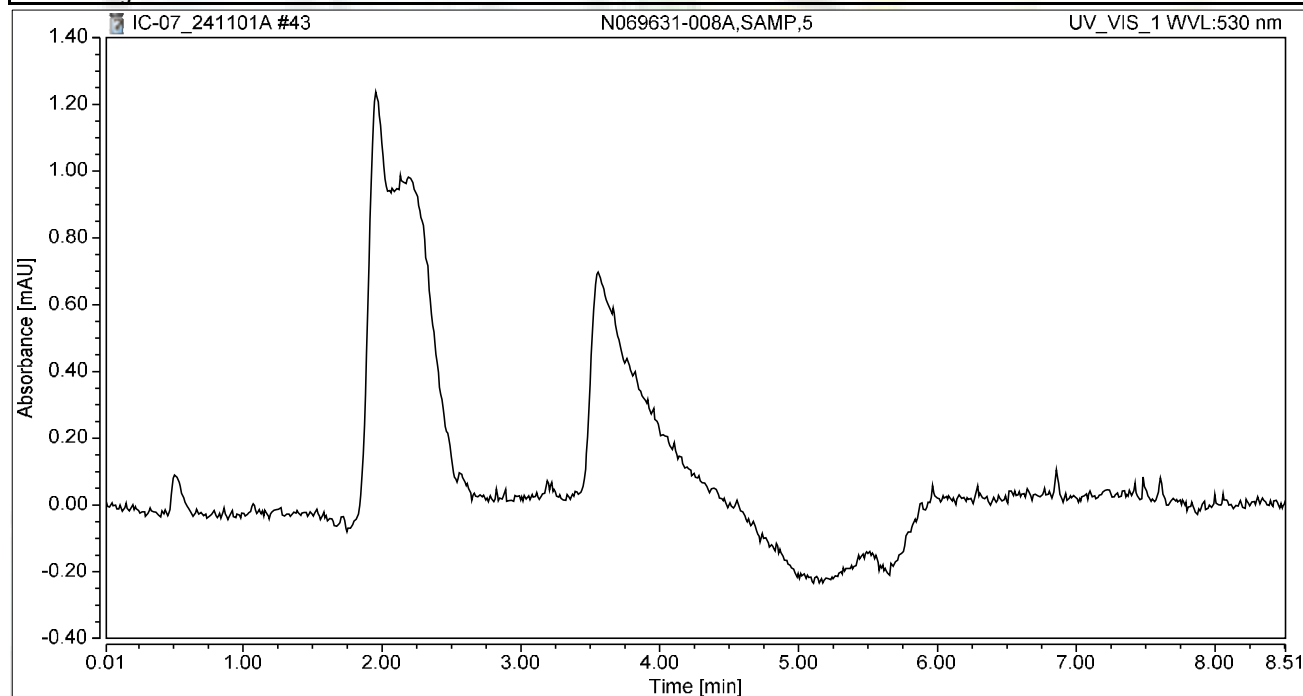
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-008A,SAMP,5	Run Time (min):	8.49
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 15:32	Sample Weight:	1.0000

Chromatogram



Integration Results

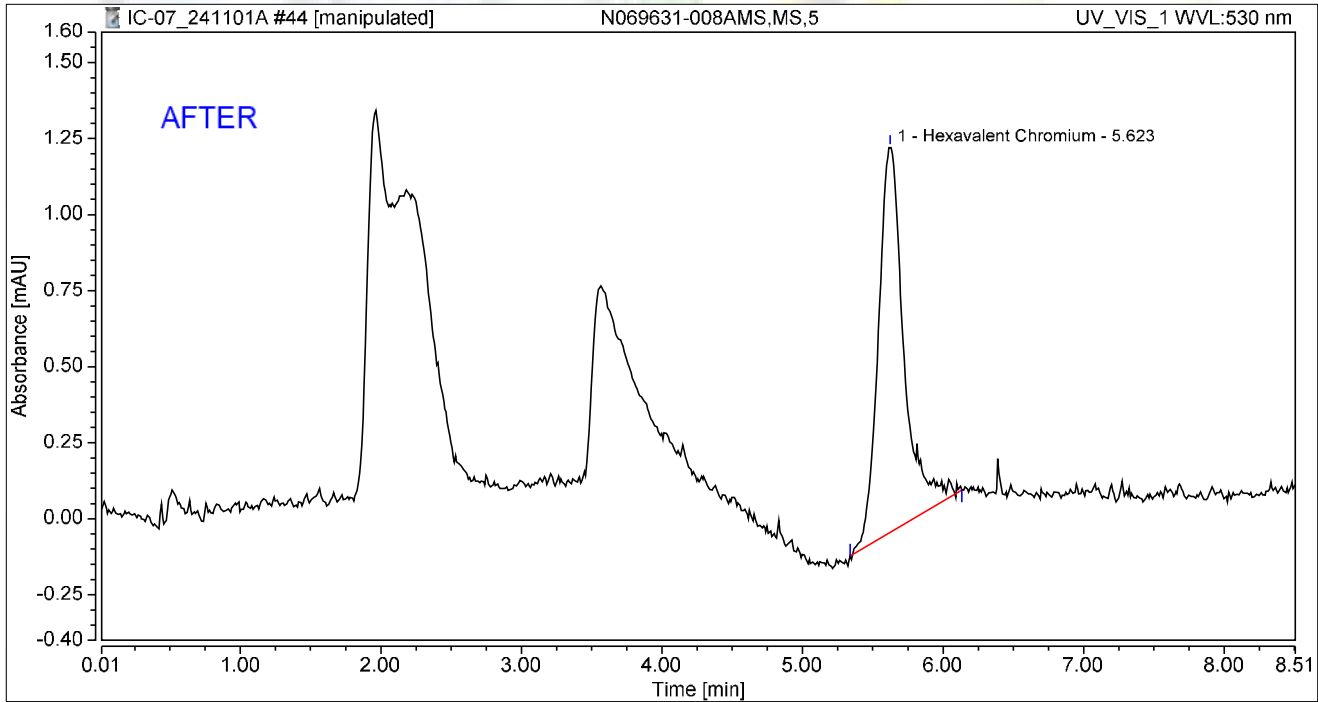
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-008AMS,MS,5	Run Time (min):	8.49
Vial Number:	30	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 15:41	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.623	0.269	1.267	100.00	100.00	0.9464
Total:			0.269	1.267	100.00	100.00	

Reviewed by:

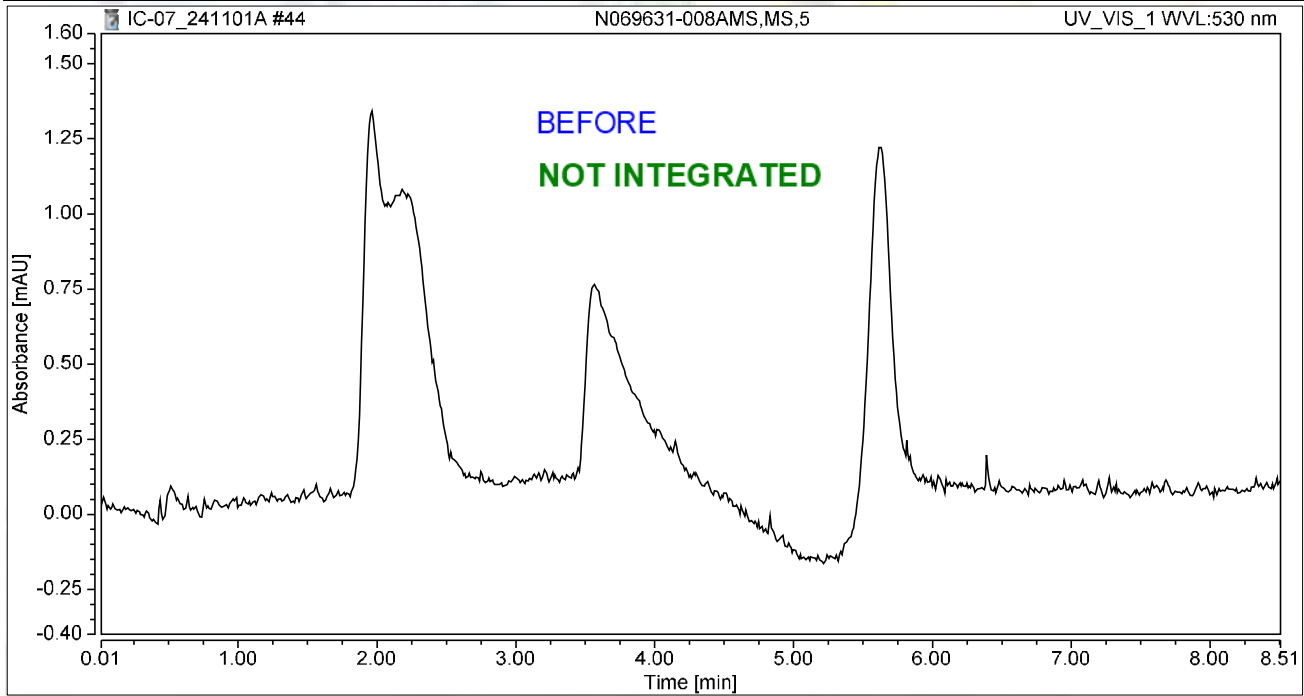
d/Rocha 11/7/2024

Chromatogram and Results

Injection Details

Injection Name:	N069631-008AMS,MS,5	Run Time (min):	8.49
Vial Number:	30	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 15:41	Sample Weight:	1.0000

Chromatogram



Integration Results

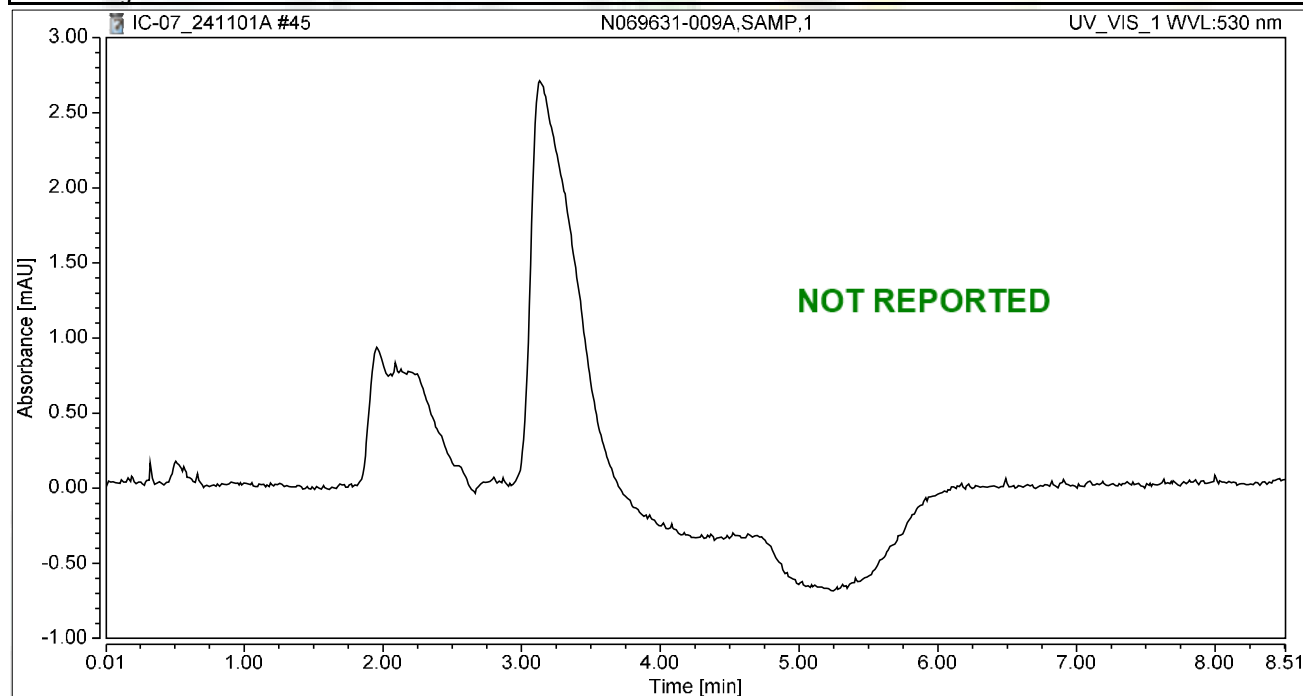
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-009A,SAMP,1	Run Time (min):	8.50
Vial Number:	31	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 15:51	Sample Weight:	1.0000

Chromatogram



Integration Results

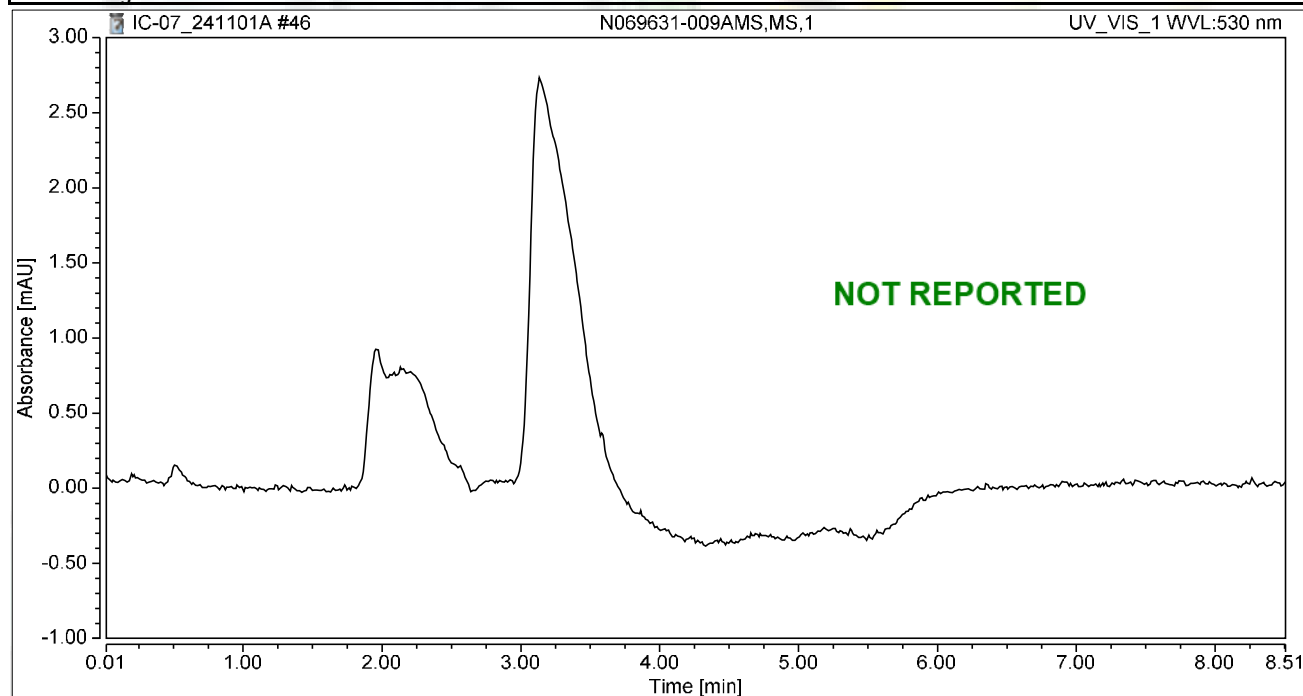
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-009AMS,MS,1	Run Time (min):	8.49
Vial Number:	32	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 16:00	Sample Weight:	1.0000

Chromatogram



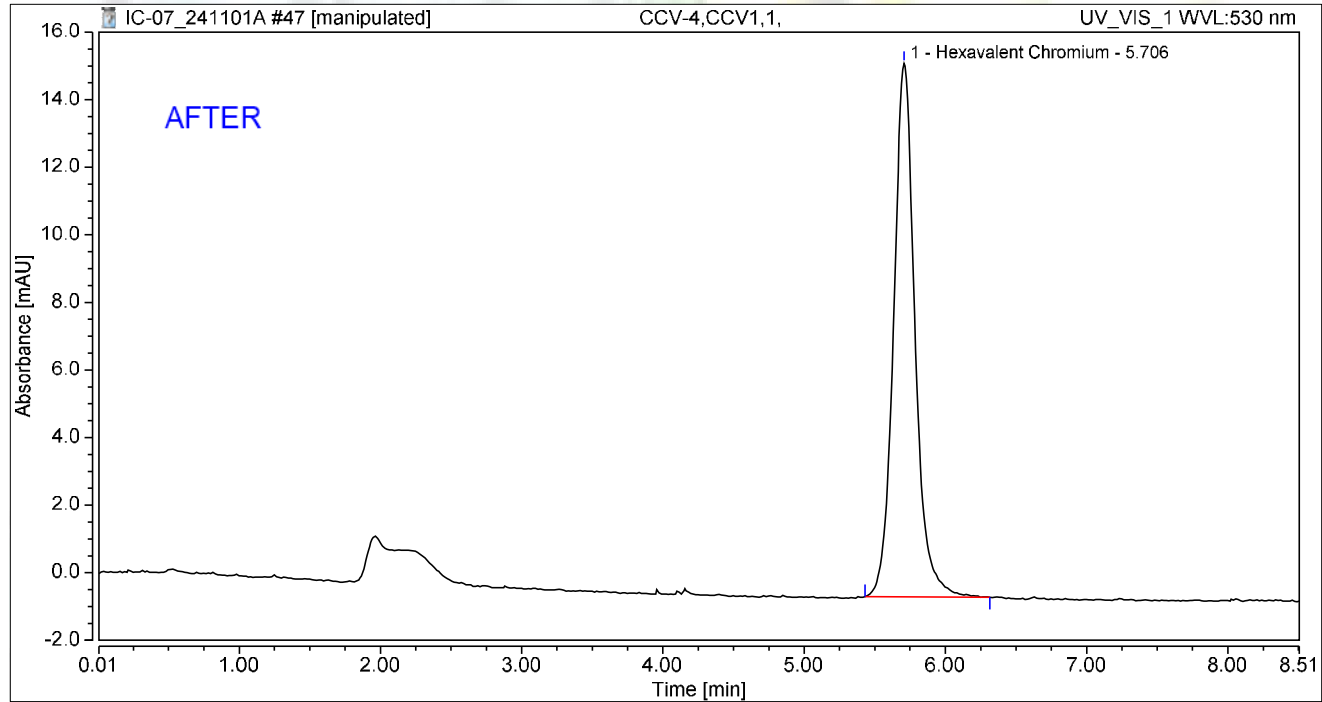
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	CCV-4,CCV1,1,	Run Time (min): 8.50
Vial Number:	1	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	01/Nov/24 16:19	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	2.757	15.788	100.00	100.00	9.7164
Total:			2.757	15.788	100.00	100.00	

Reviewed by:

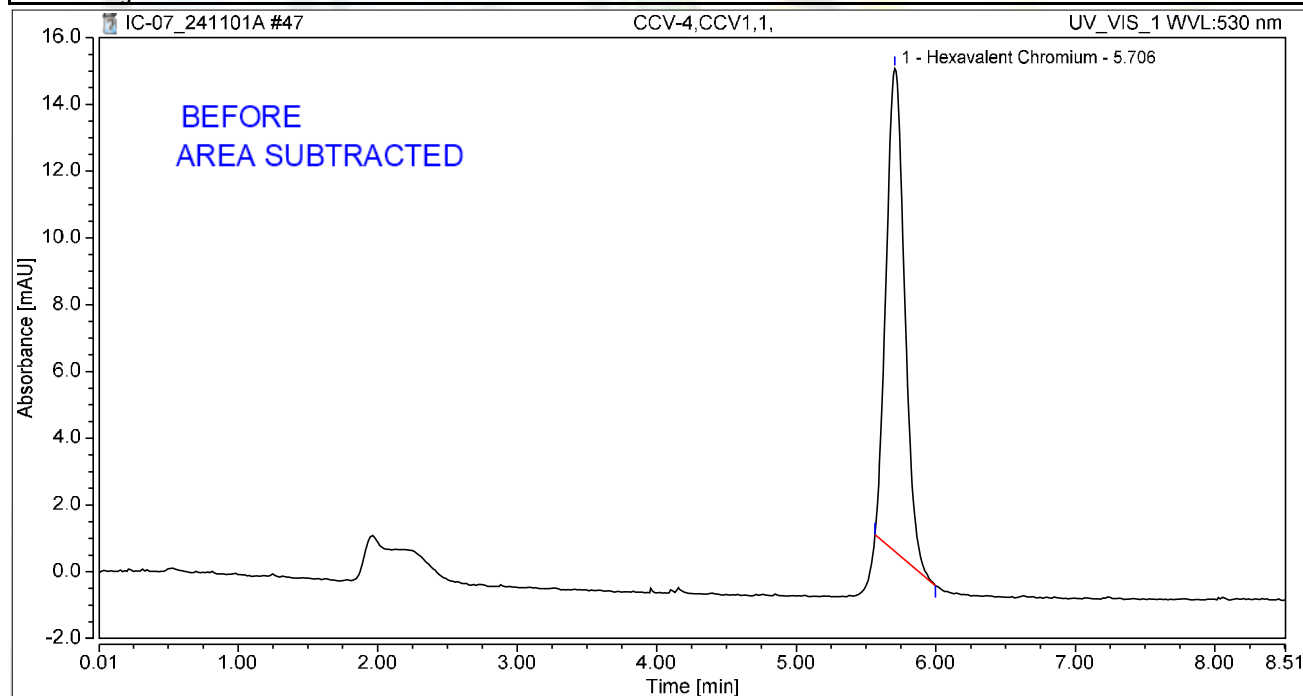
d/Recha 11/7/2024

Chromatogram and Results

Injection Details

Injection Name:	CCV-4,CCV1,1,	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 16:19	Sample Weight:	1.0000

Chromatogram



Integration Results

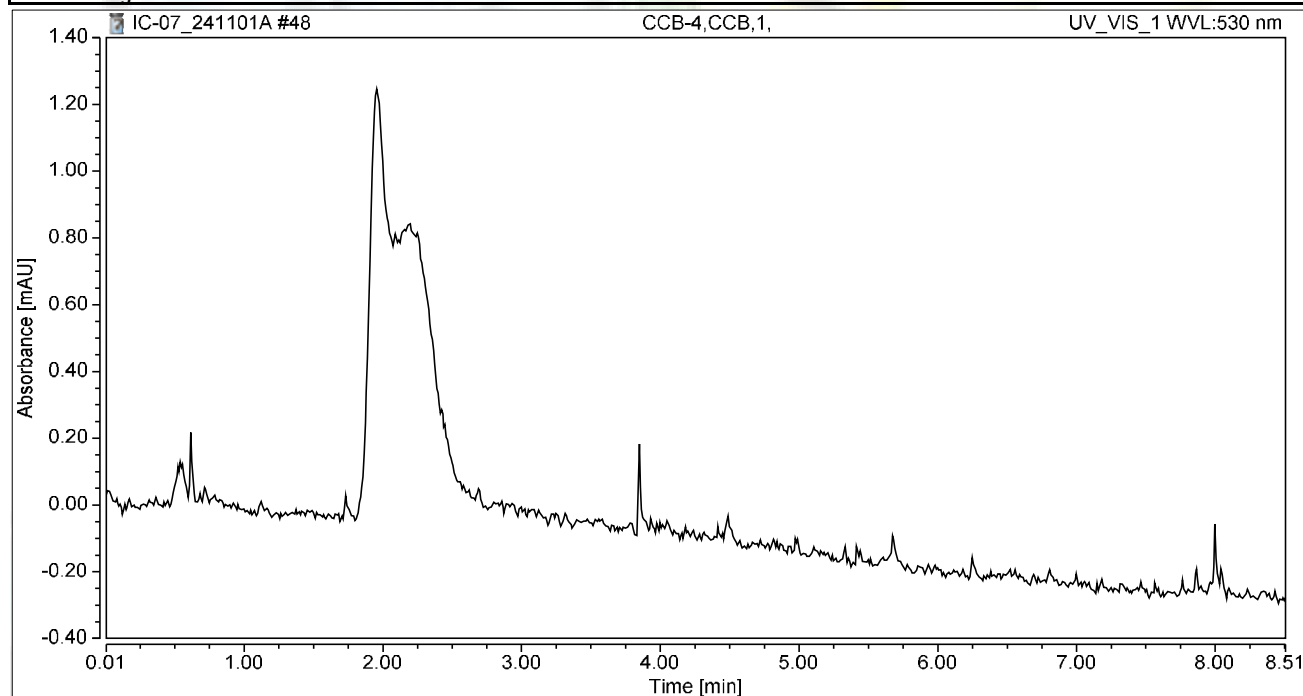
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	2.212	14.468	100.00	100.00	7.7946
Total:			2.212	14.468	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-4,CCB,1,	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 16:31	Sample Weight:	1.0000

Chromatogram



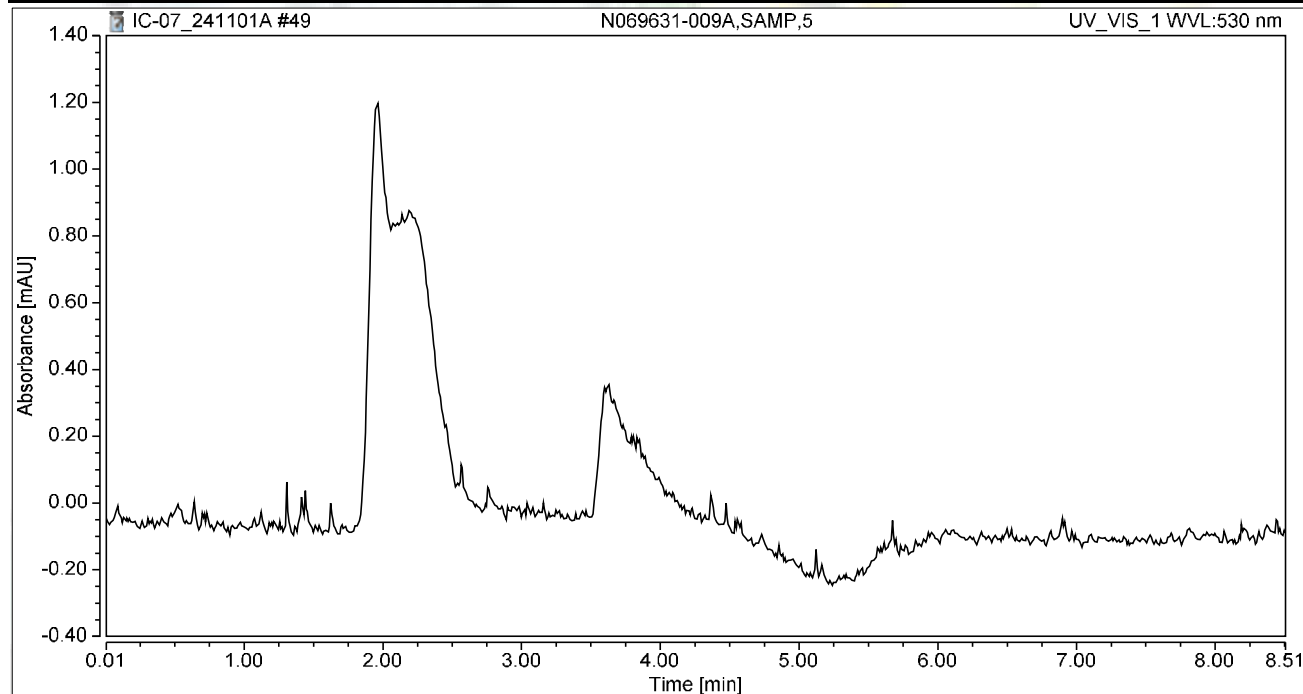
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details			
Injection Name:	N069631-009A,SAMP,5	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 16:40	Sample Weight:	1.0000

Chromatogram

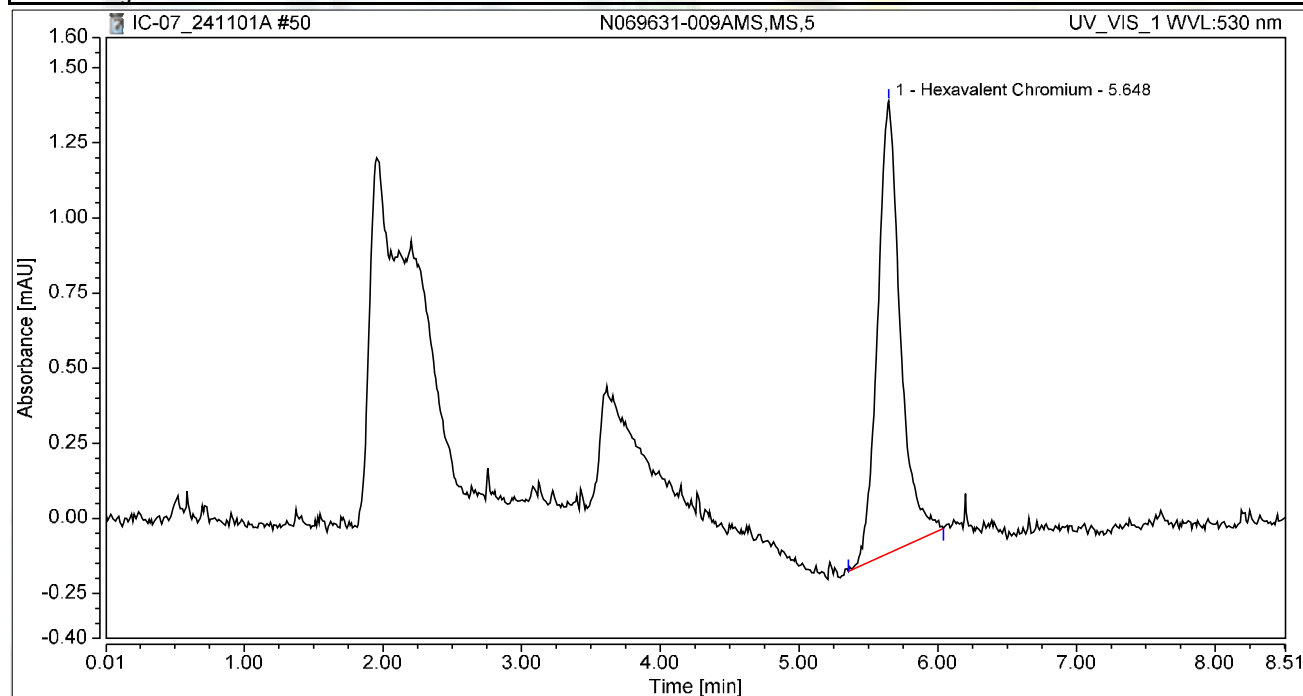


Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069631-009AMS,MS,5	Run Time (min): 8.50
Vial Number:	4	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	01/Nov/24 16:50	Sample Weight: 1.0000

Chromatogram



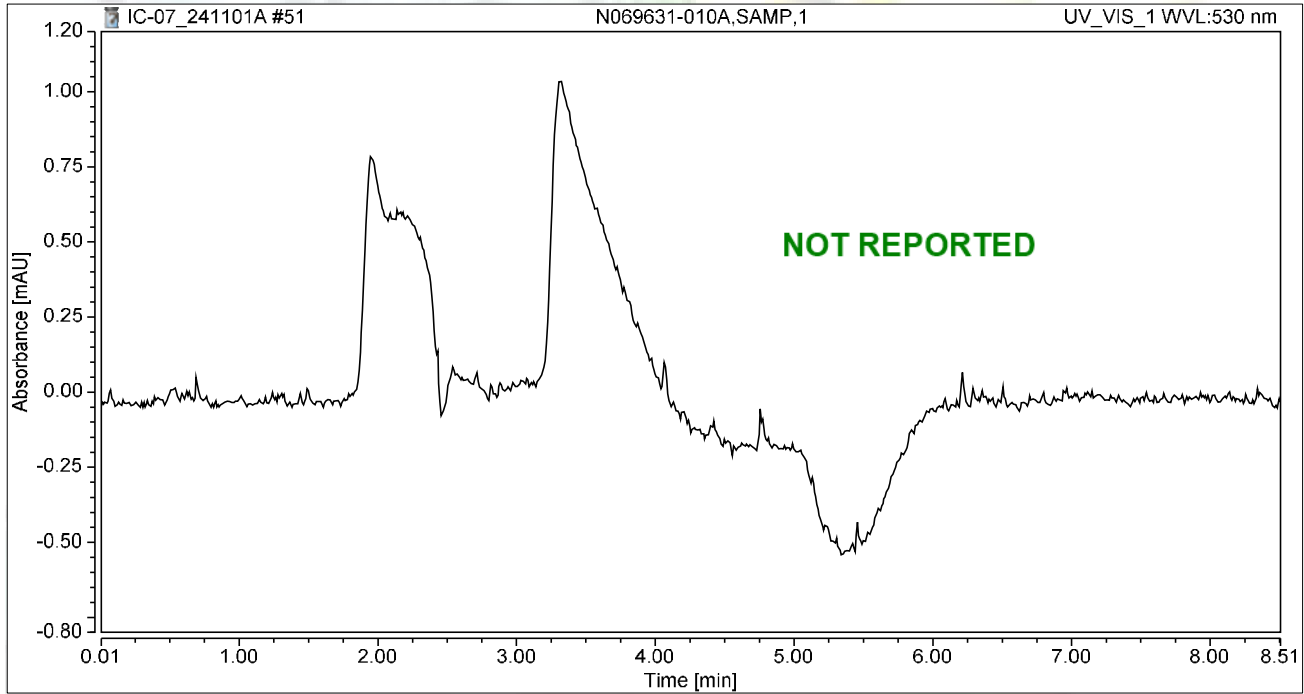
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.648	0.286	1.504	100.00	100.00	1.0088
Total:			0.286	1.504	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-010A,SAMP,1	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 16:59	Sample Weight:	1.0000

Chromatogram



Integration Results

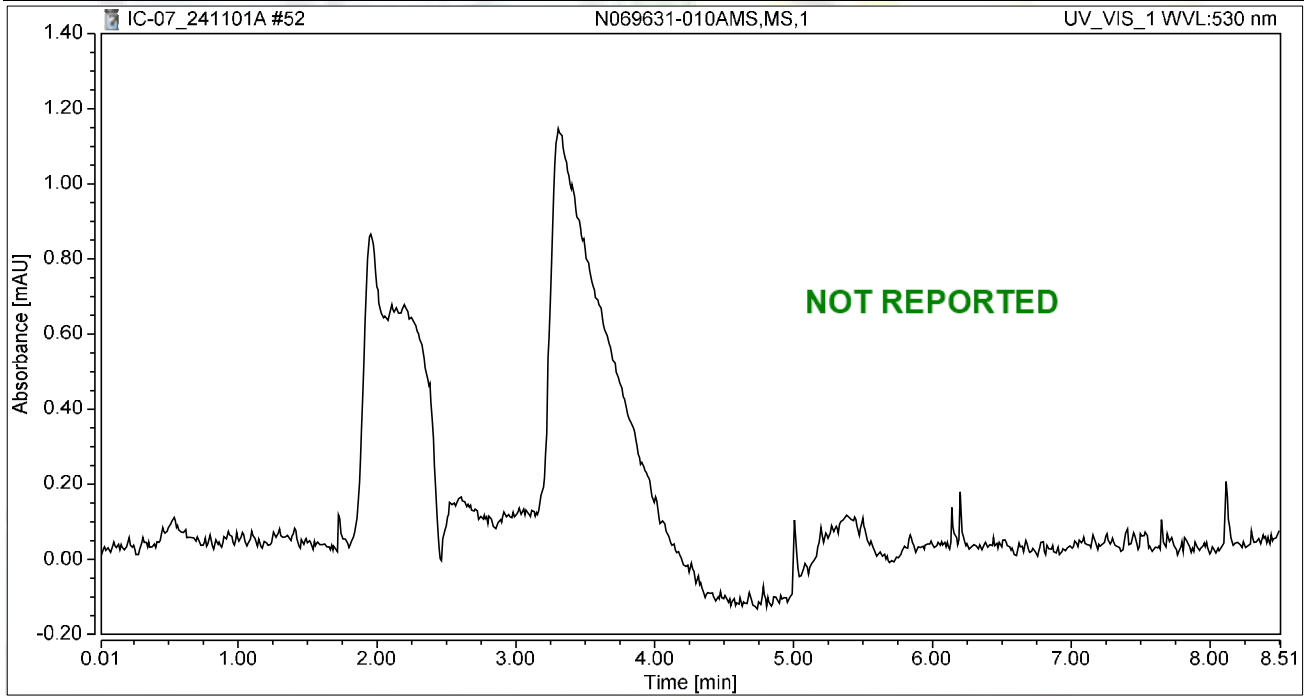
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-010AMS,MS,1	Run Time (min):	8.49
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 17:08	Sample Weight:	1.0000

Chromatogram



Integration Results

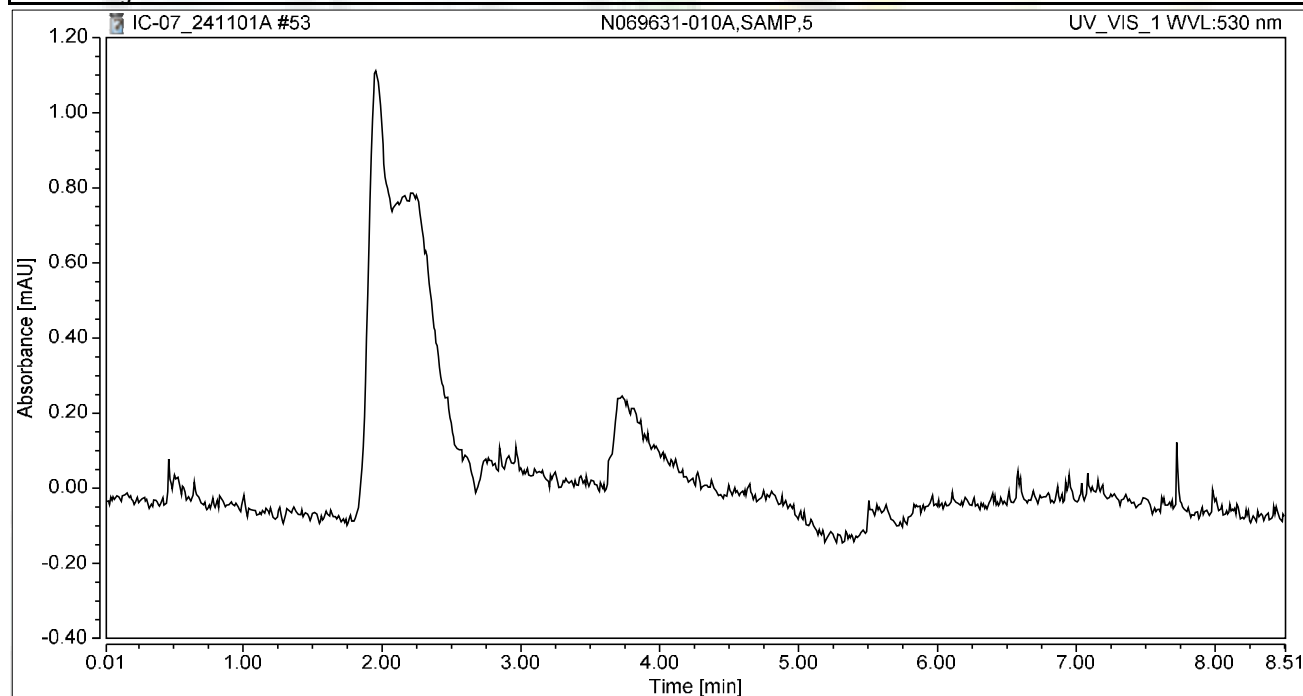
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-010A,SAMP,5	Run Time (min):	8.49
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 17:18	Sample Weight:	1.0000

Chromatogram



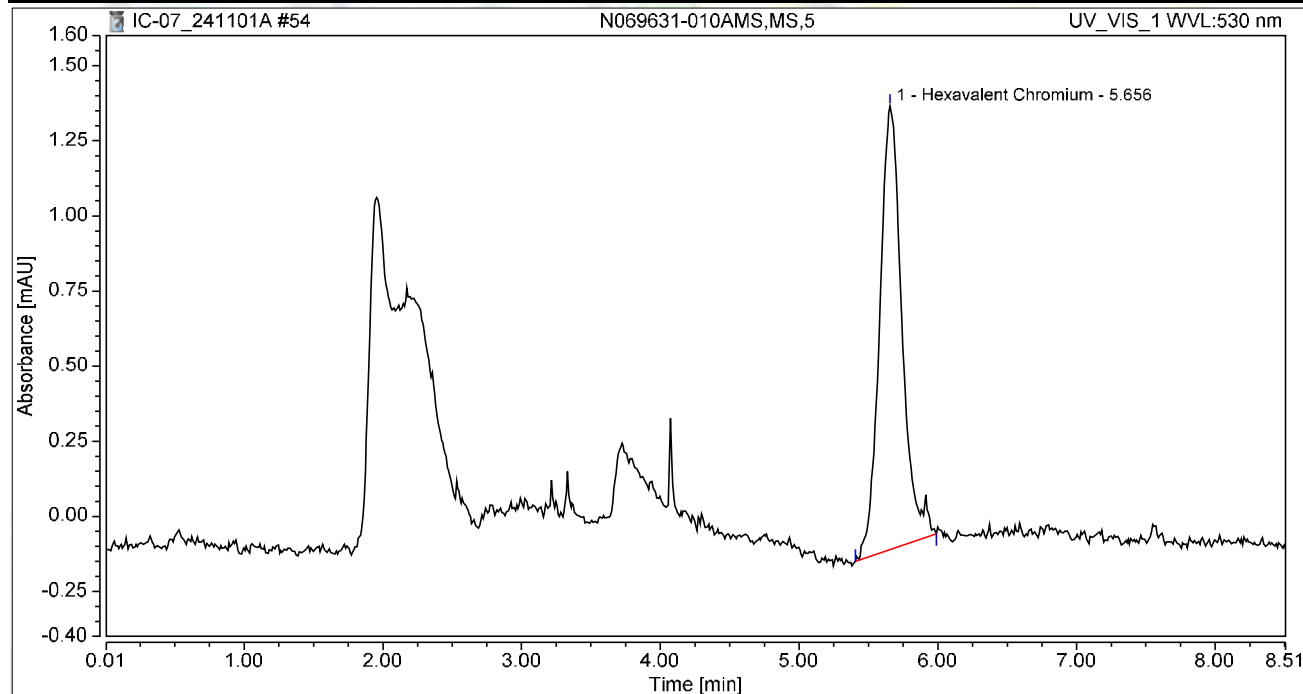
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069631-010AMS,MS,5	Run Time (min): 8.50
Vial Number:	8	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	01/Nov/24 17:27	Sample Weight: 1.0000

Chromatogram



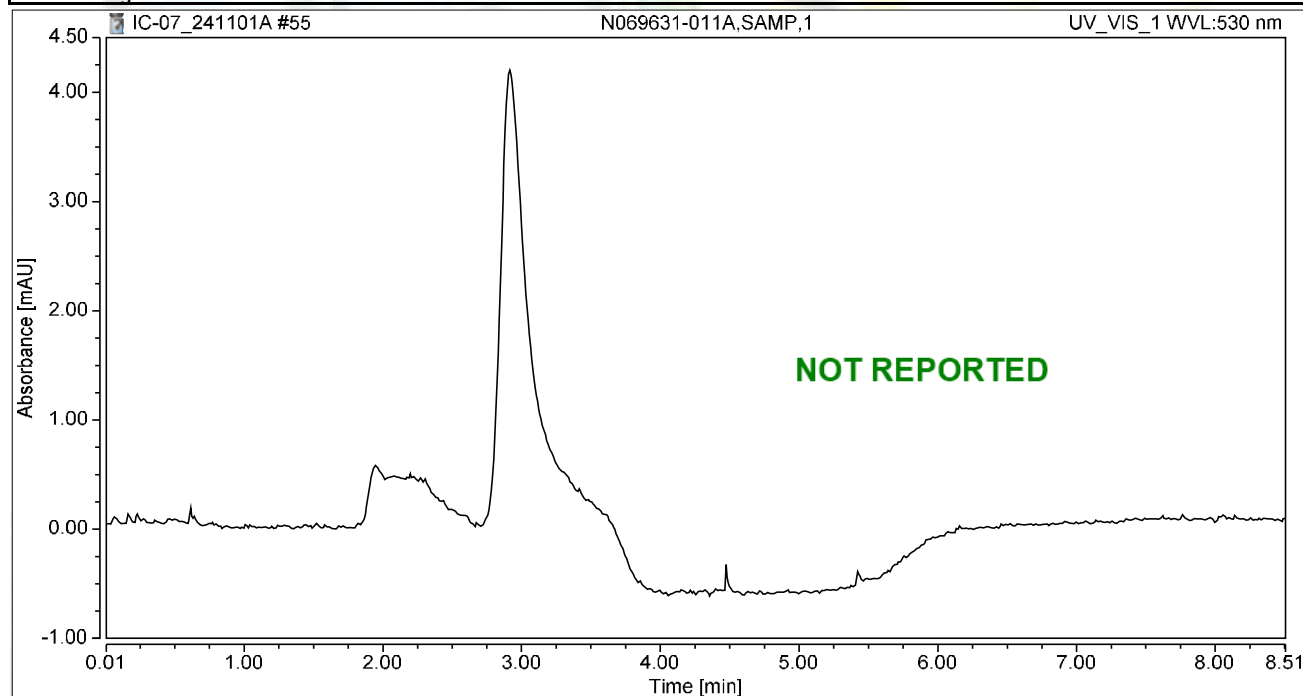
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.656	0.274	1.476	100.00	100.00	0.9668
Total:			0.274	1.476	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-011A,SAMP,1	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 17:37	Sample Weight:	1.0000

Chromatogram



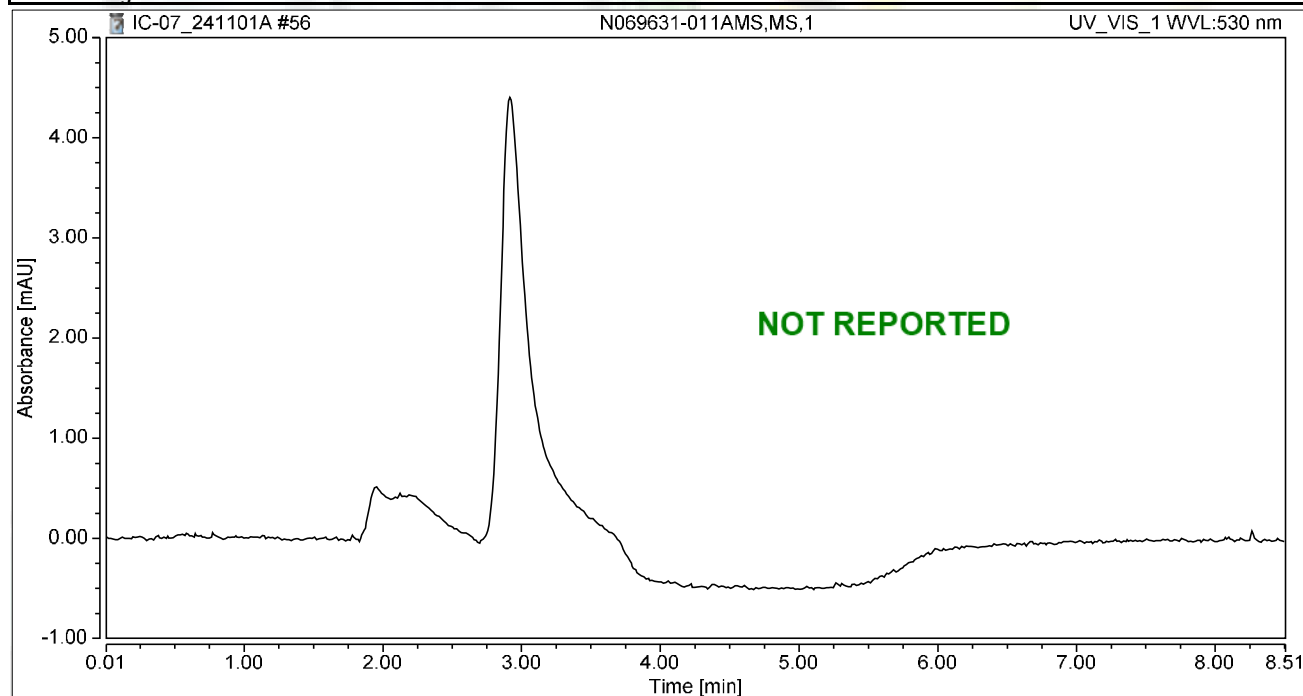
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069631-011AMS,MS,1	Run Time (min): 8.50
Vial Number:	10	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	01/Nov/24 17:46	Sample Weight: 1.0000

Chromatogram



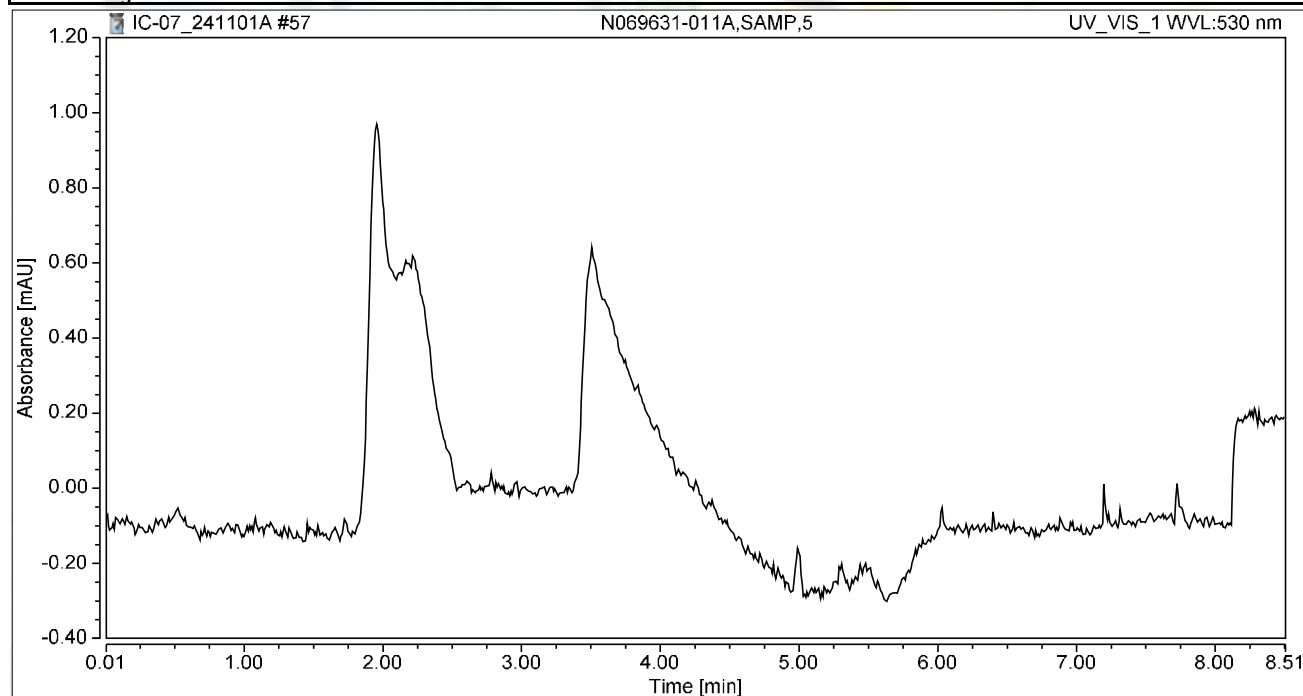
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-011A,SAMP,5	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 17:56	Sample Weight:	1.0000

Chromatogram



Integration Results

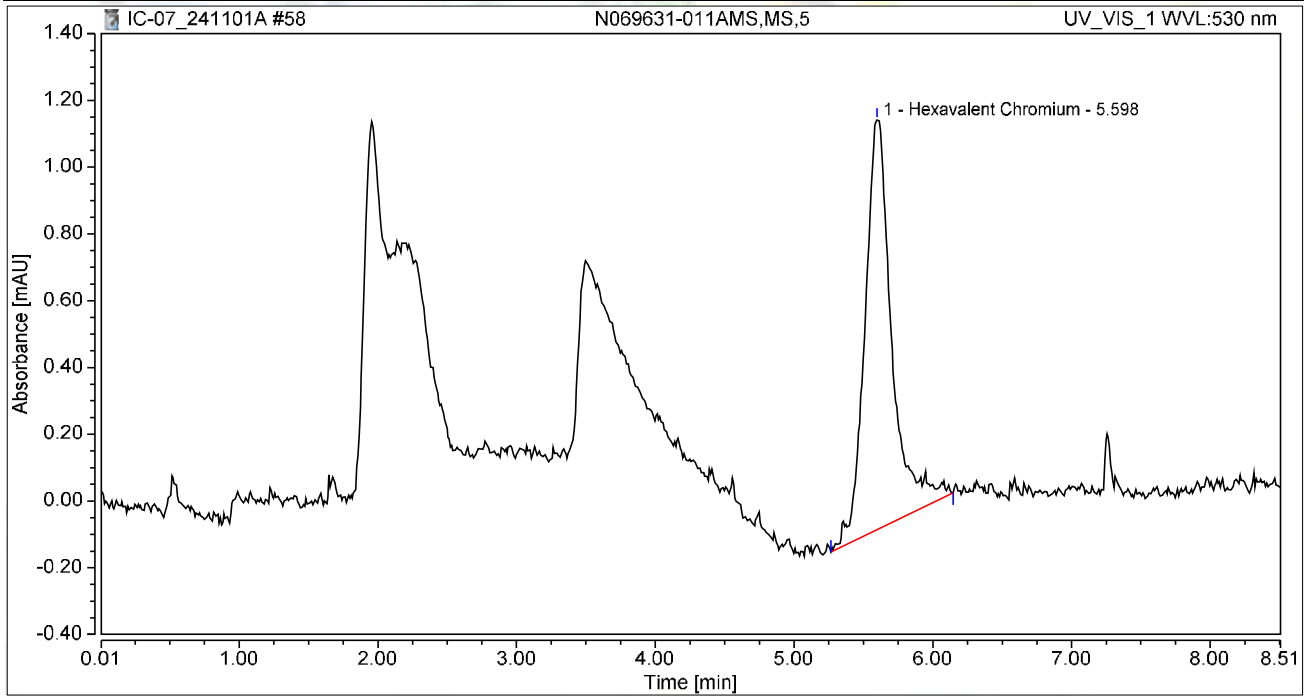
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-011AMS,MS,5	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 18:05	Sample Weight:	1.0000

Chromatogram



Integration Results

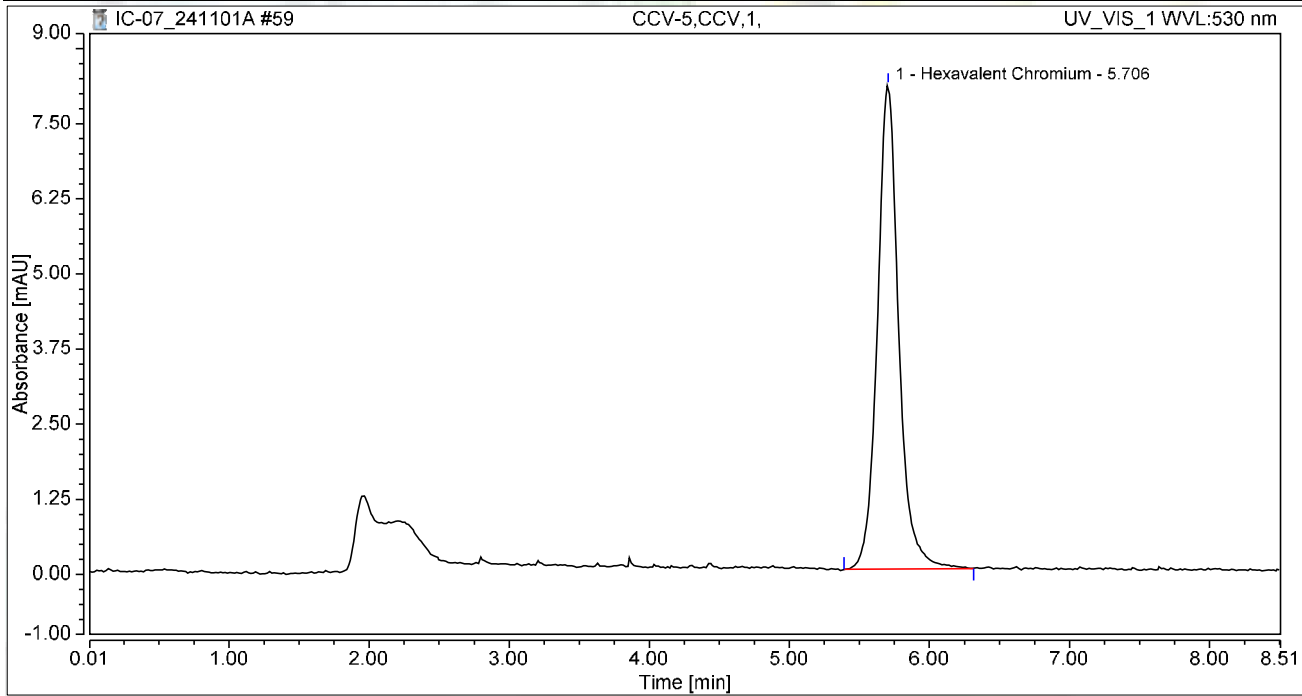
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.598	0.275	1.227	100.00	100.00	0.9703
Total:			0.275	1.227	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 18:15	Sample Weight:	1.0000

Chromatogram



Integration Results

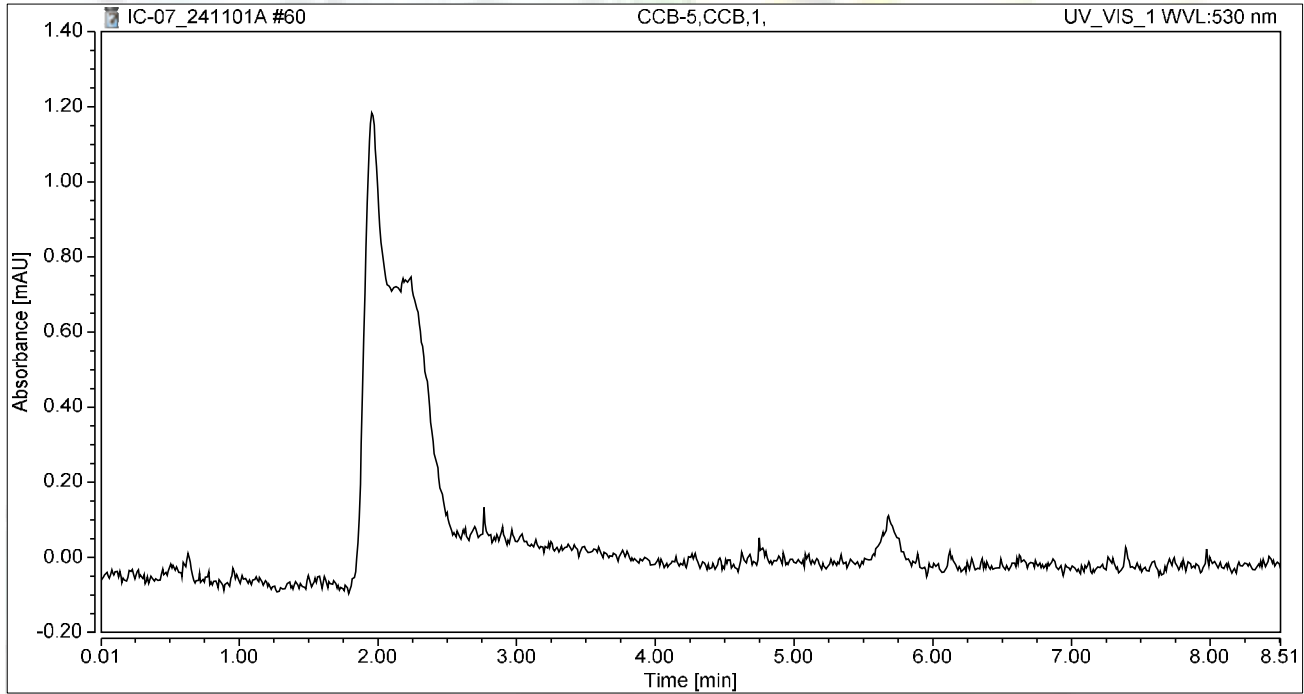
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	1.419	8.050	100.00	100.00	4.9996
Total:			1.419	8.050	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 18:24	Sample Weight:	1.0000

Chromatogram



Integration Results

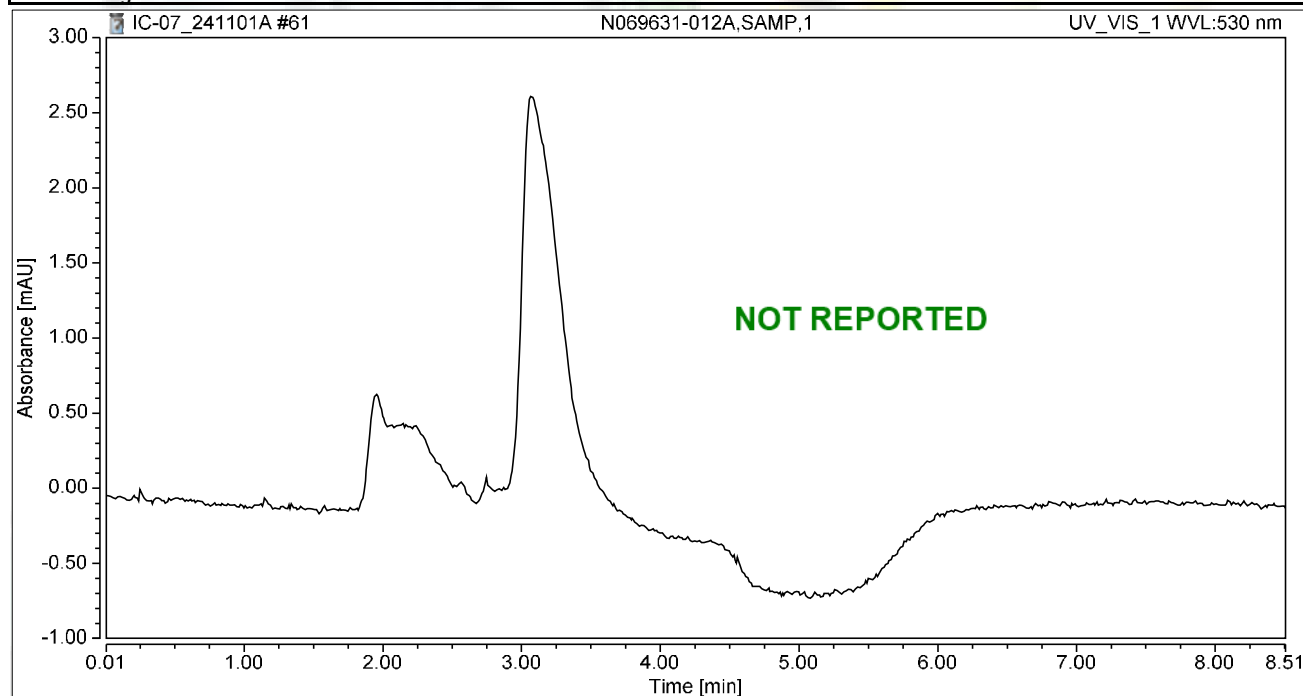
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-012A,SAMP,1	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 18:34	Sample Weight:	1.0000

Chromatogram



Integration Results

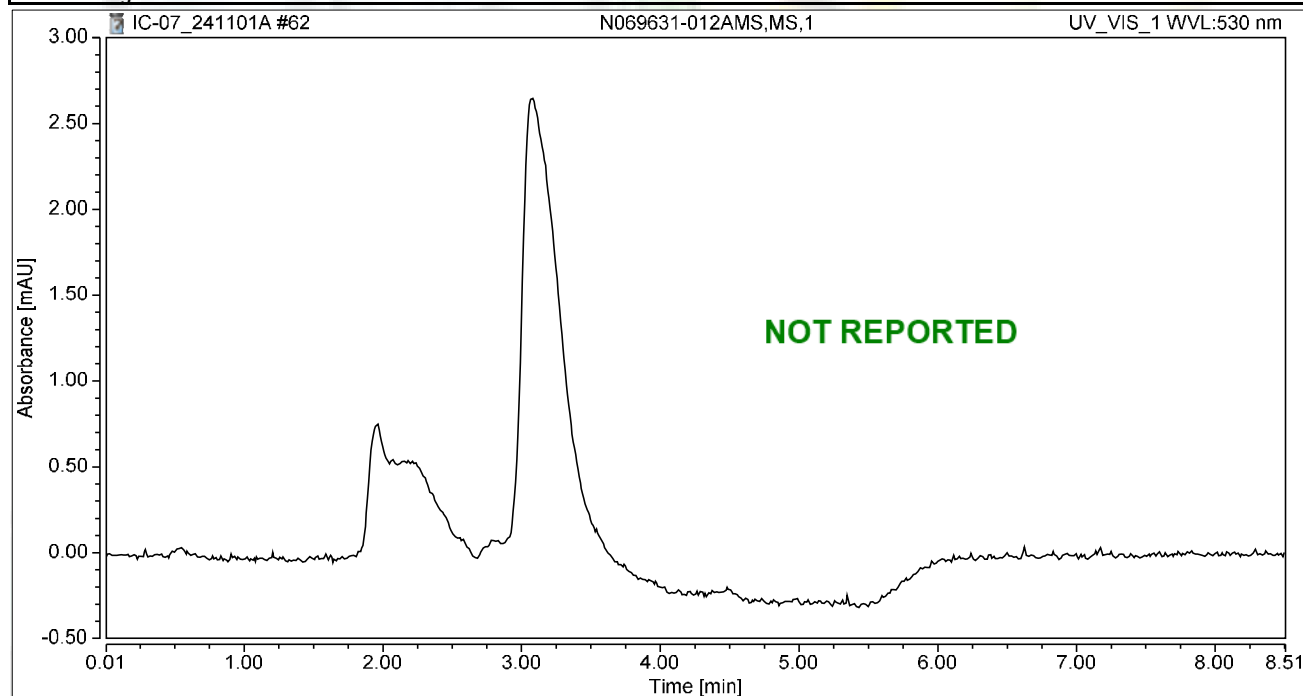
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-012AMS,MS,1	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 18:43	Sample Weight:	1.0000

Chromatogram



Integration Results

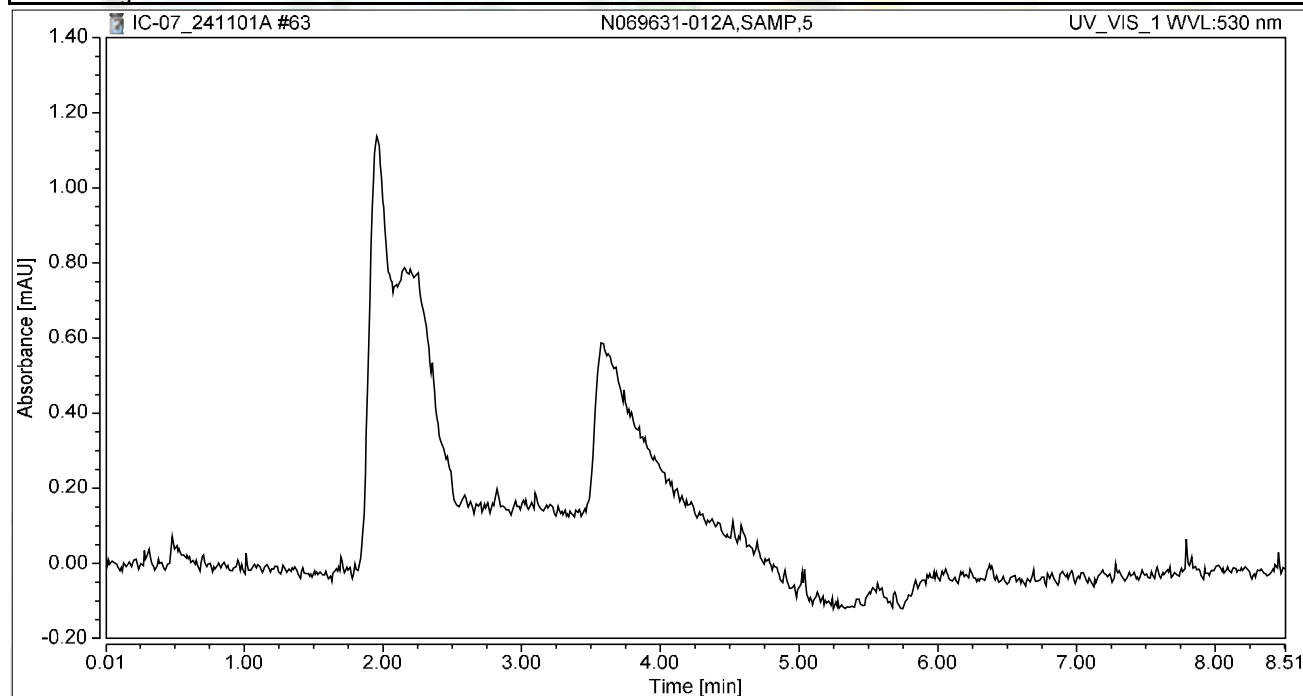
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-012A,SAMP,5	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 18:52	Sample Weight:	1.0000

Chromatogram



Integration Results

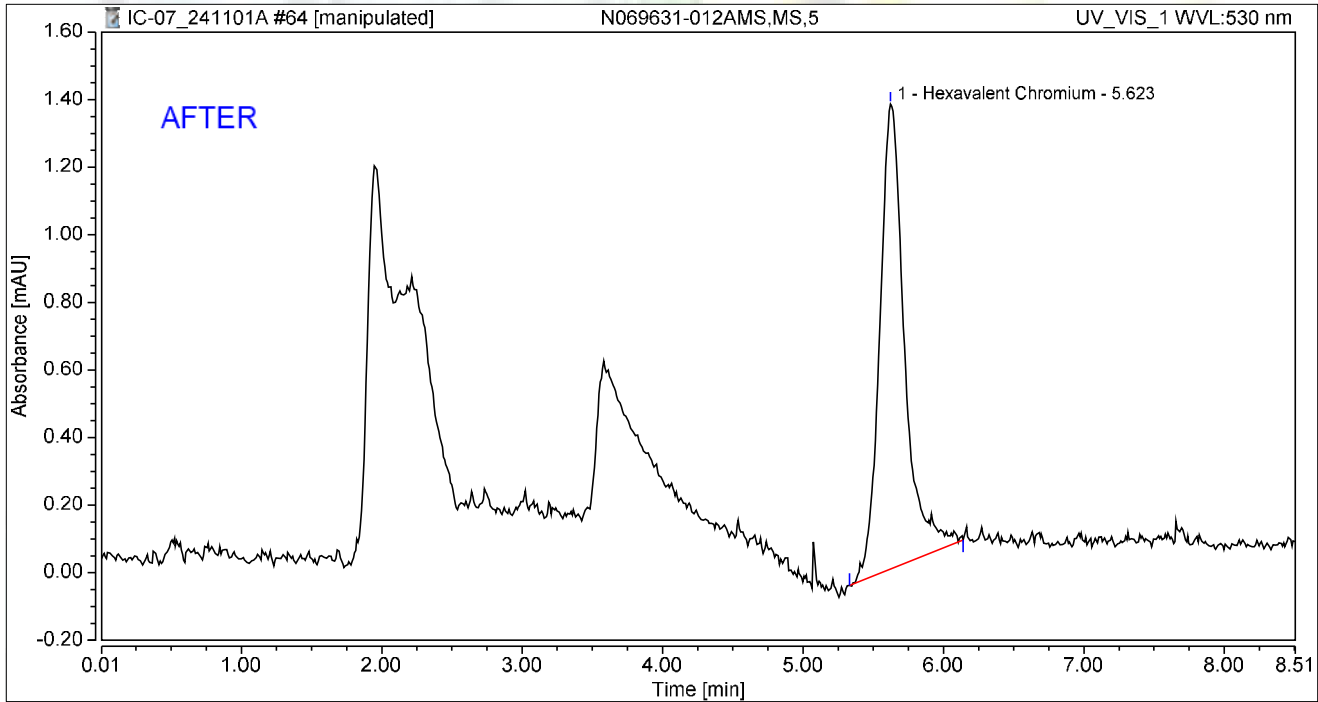
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-012AMS,MS,5	Run Time (min):	8.50
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 19:02	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.623	0.282	1.375	100.00	100.00	0.9937
Total:			0.282	1.375	100.00	100.00	

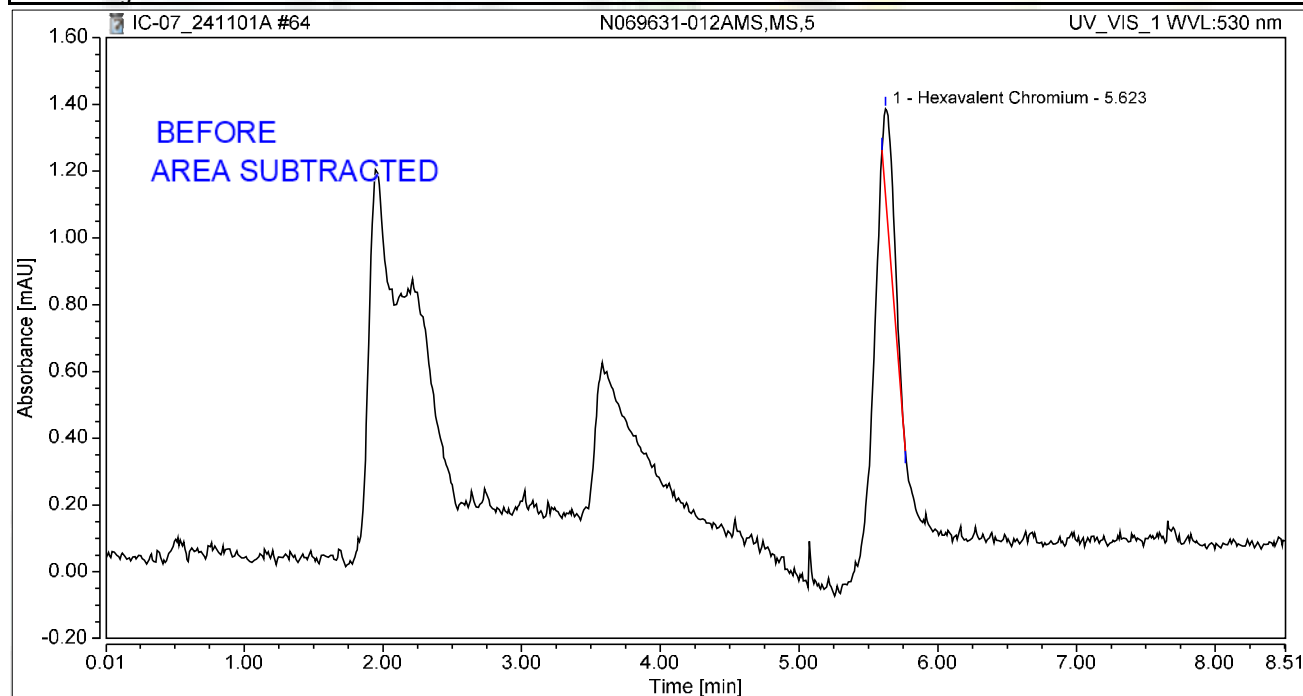
Reviewed by:

MRecha 11/7/2024

Chromatogram and Results

Injection Details		
Injection Name:	N069631-012AMS,MS,5	Run Time (min): 8.50
Vial Number:	18	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	01/Nov/24 19:02	Sample Weight: 1.0000

Chromatogram



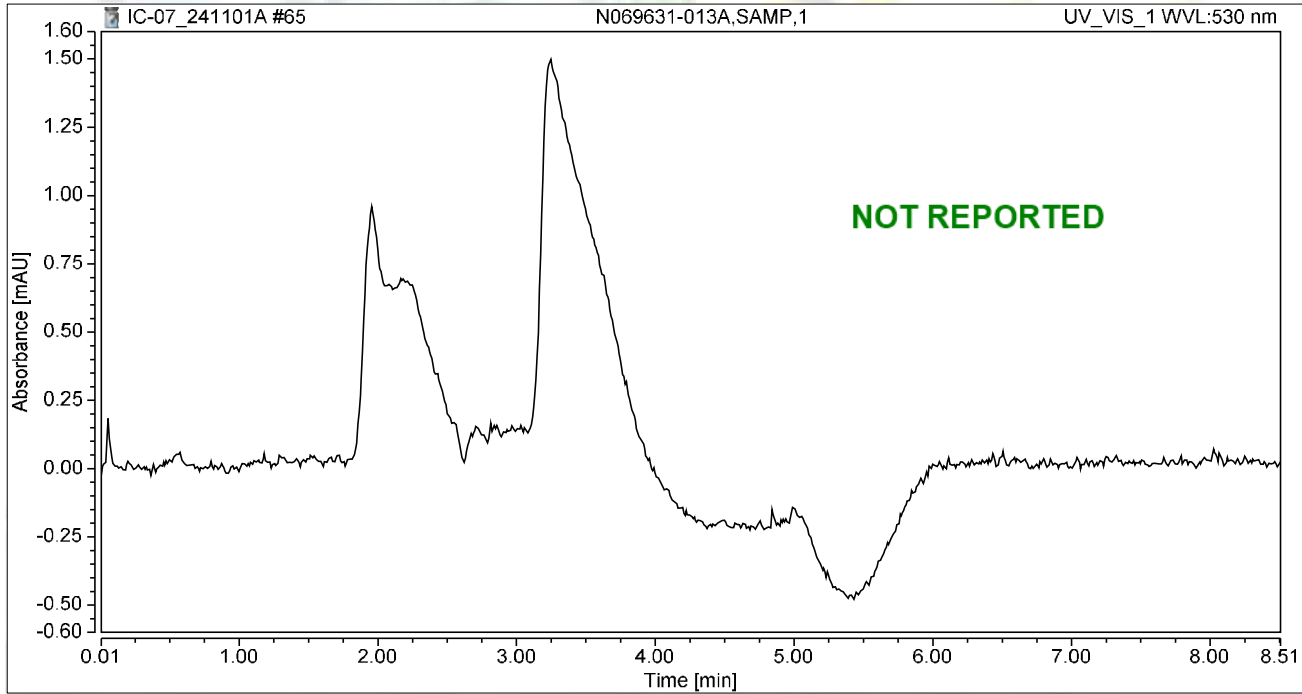
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.623	0.029	0.258	100.00	100.00	0.1031
Total:			0.029	0.258	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-013A,SAMP,1	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 19:11	Sample Weight:	1.0000

Chromatogram



Integration Results

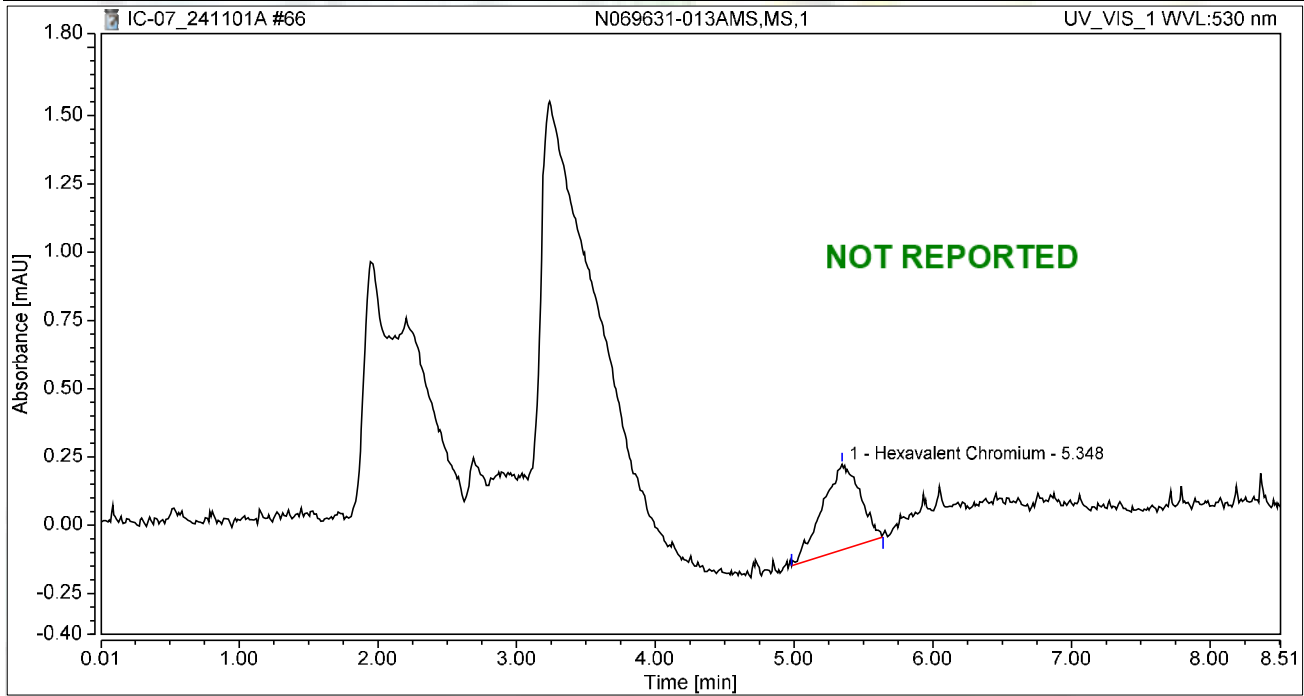
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-013AMS,MS,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 19:21	Sample Weight:	1.0000

Chromatogram



Integration Results

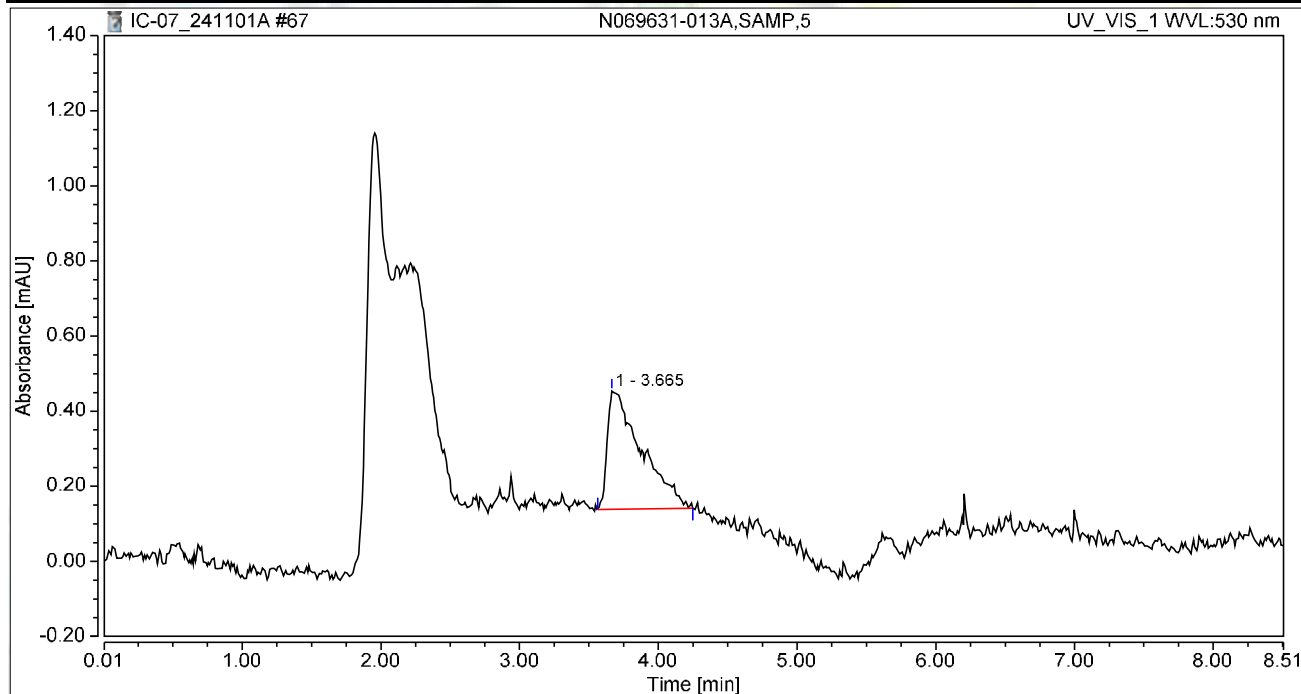
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.348	0.098	0.311	100.00	100.00	0.3454
Total:			0.098	0.311	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-013A,SAMP,5	Run Time (min):	8.50
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 19:30	Sample Weight:	1.0000

Chromatogram



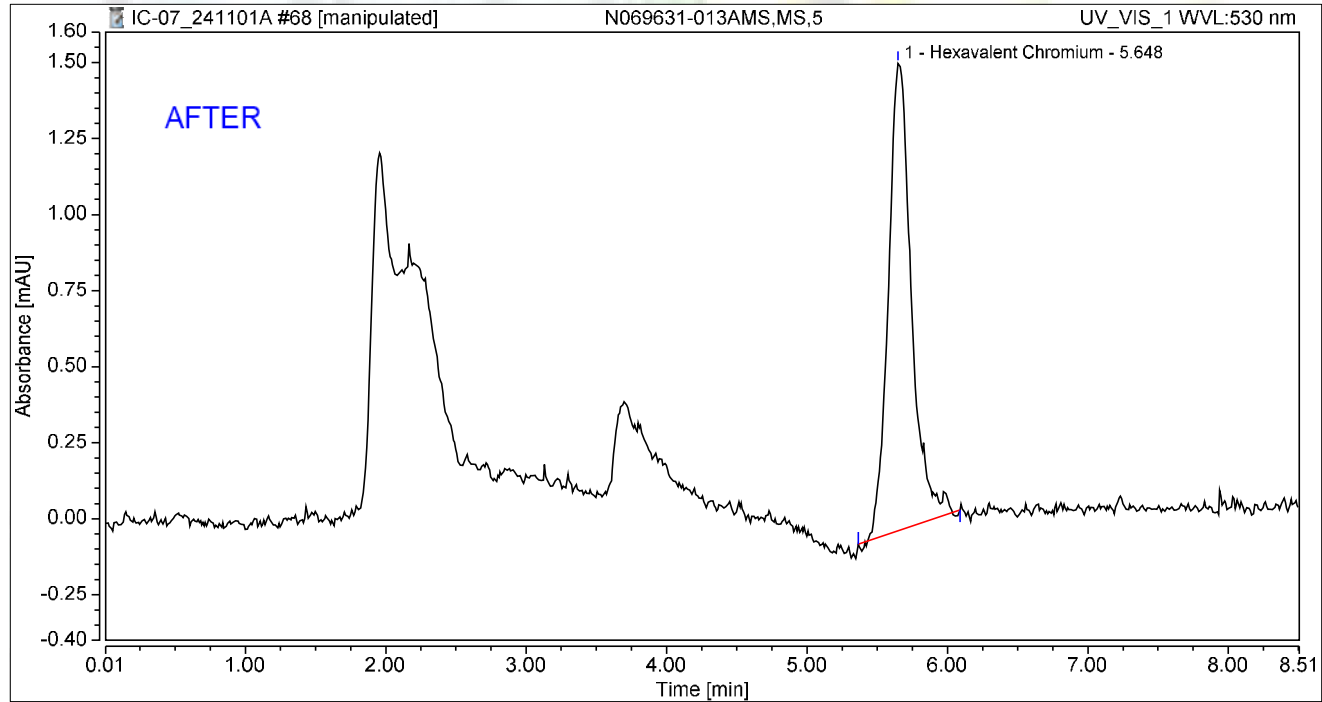
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.665	0.090	0.315	100.00	100.00	n.a.
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.090	0.315	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069631-013AMS,MS,5	Run Time (min): 8.50
Vial Number:	22	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	01/Nov/24 19:40	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.648	0.291	1.538	100.00	100.00	1.0262
Total:			0.291	1.538	100.00	100.00	

Reviewed by:

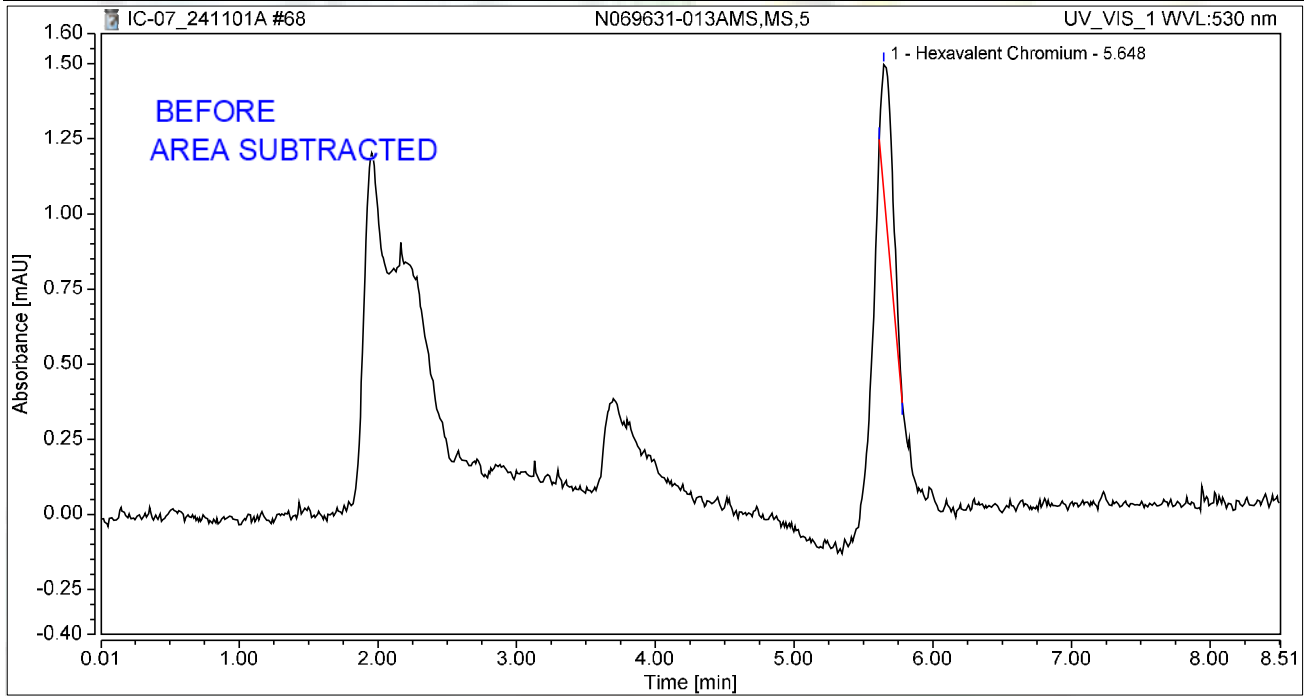
d/Rocha 11/7/2024

Chromatogram and Results

Injection Details

Injection Name:	N069631-013AMS,MS,5	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 19:40	Sample Weight:	1.0000

Chromatogram



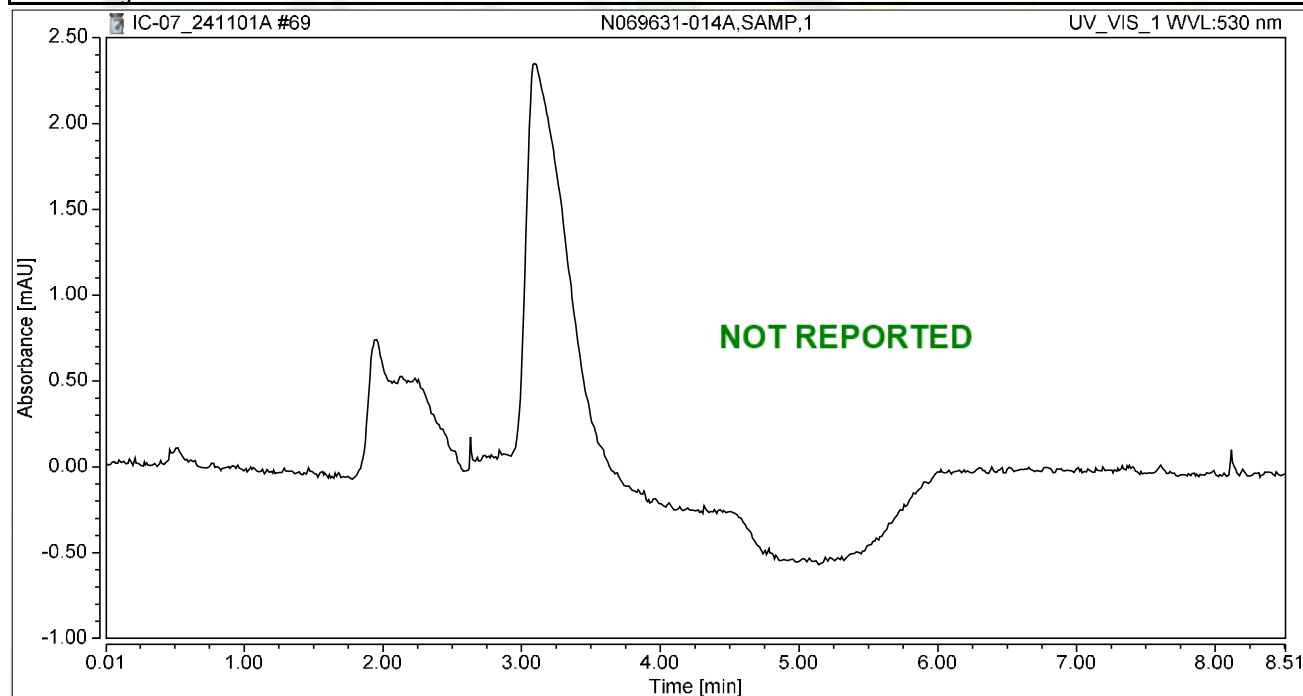
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.648	0.047	0.425	100.00	100.00	0.1671
Total:			0.047	0.425	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069631-014A,SAMP,1	Run Time (min): 8.50
Vial Number:	23	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	01/Nov/24 19:49	Sample Weight: 1.0000

Chromatogram



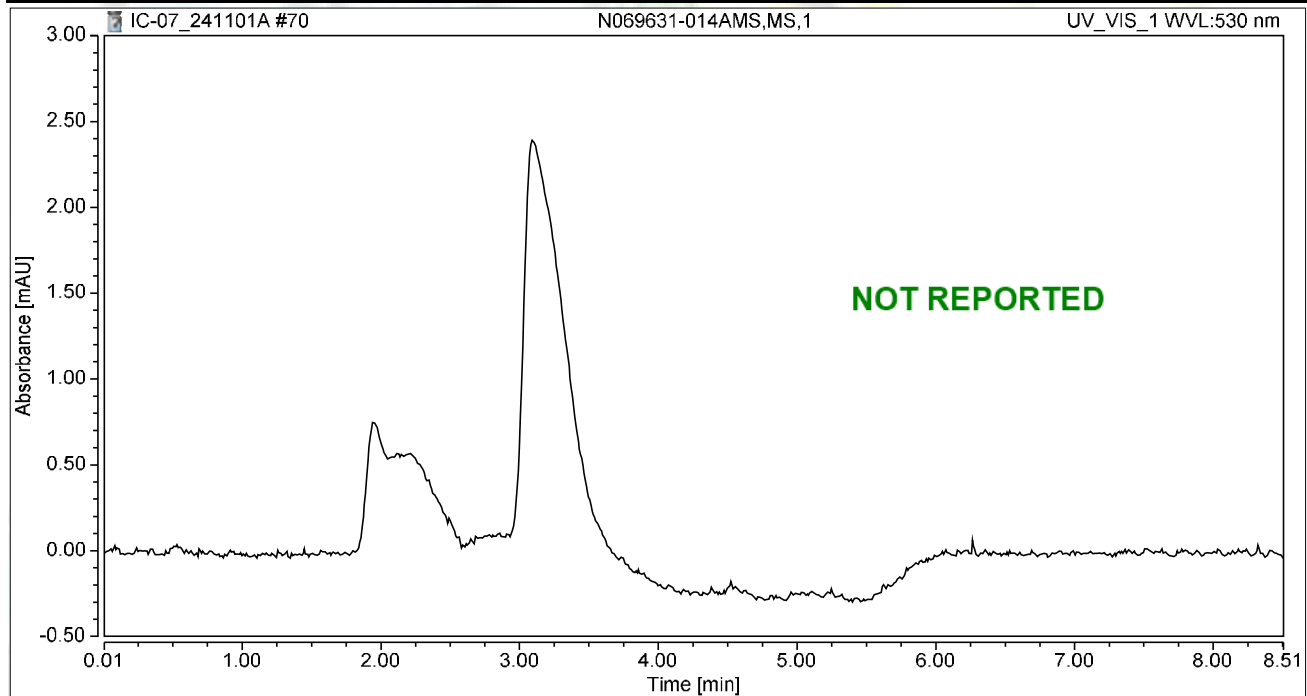
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-014AMS,MS,1	Run Time (min):	8.50
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 19:59	Sample Weight:	1.0000

Chromatogram



Integration Results

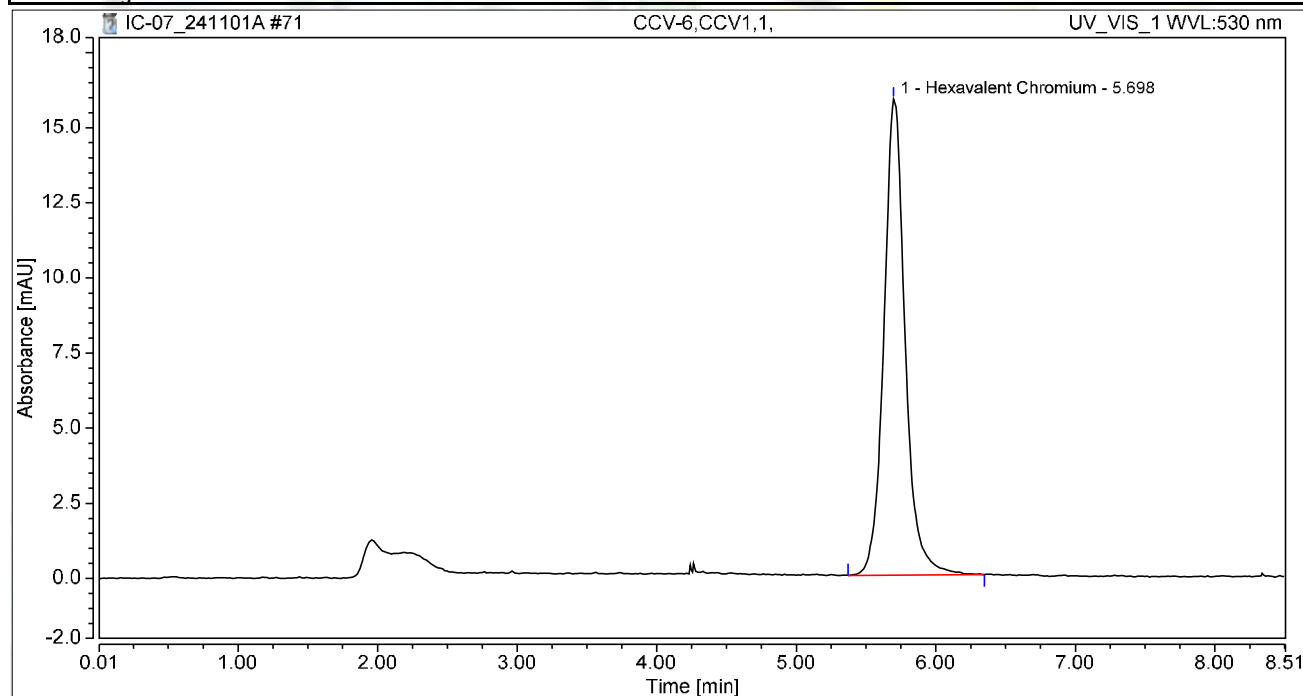
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-6,CCV1,1,	Run Time (min):	8.50
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 20:08	Sample Weight:	1.0000

Chromatogram



Integration Results

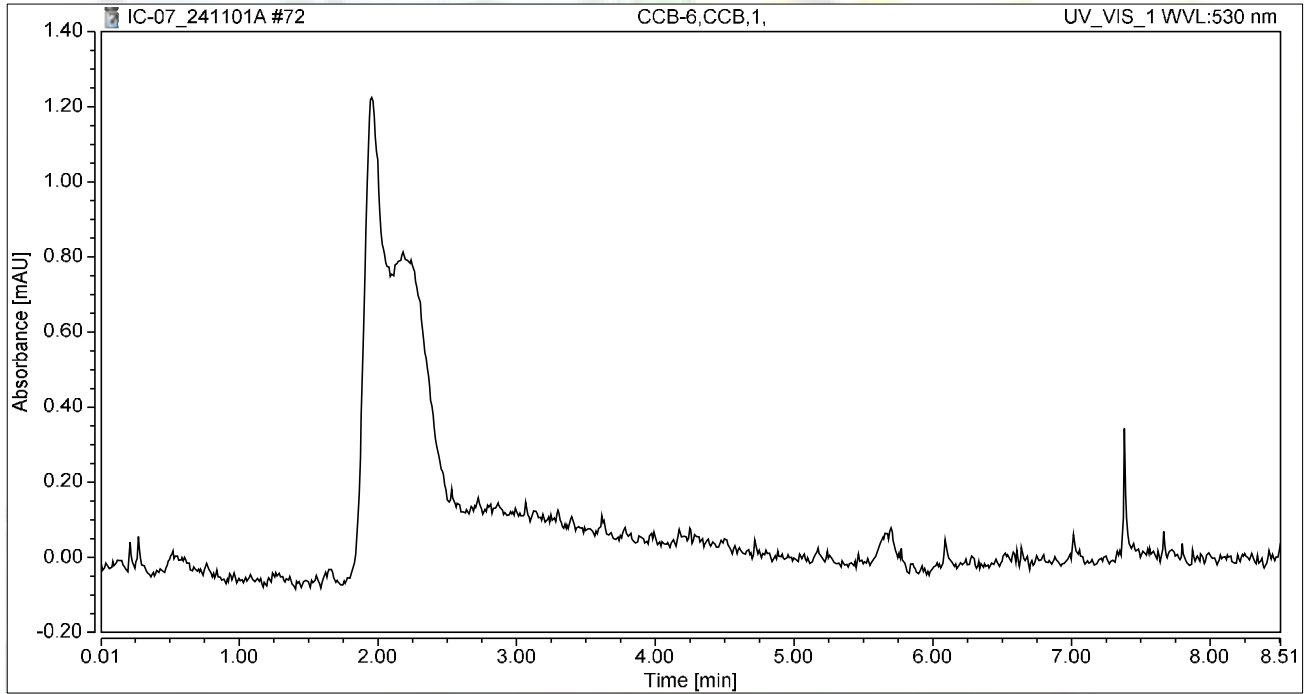
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	2.802	15.855	100.00	100.00	9.8744
Total:			2.802	15.855	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-6,CCB,1,	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 20:18	Sample Weight:	1.0000

Chromatogram



Integration Results

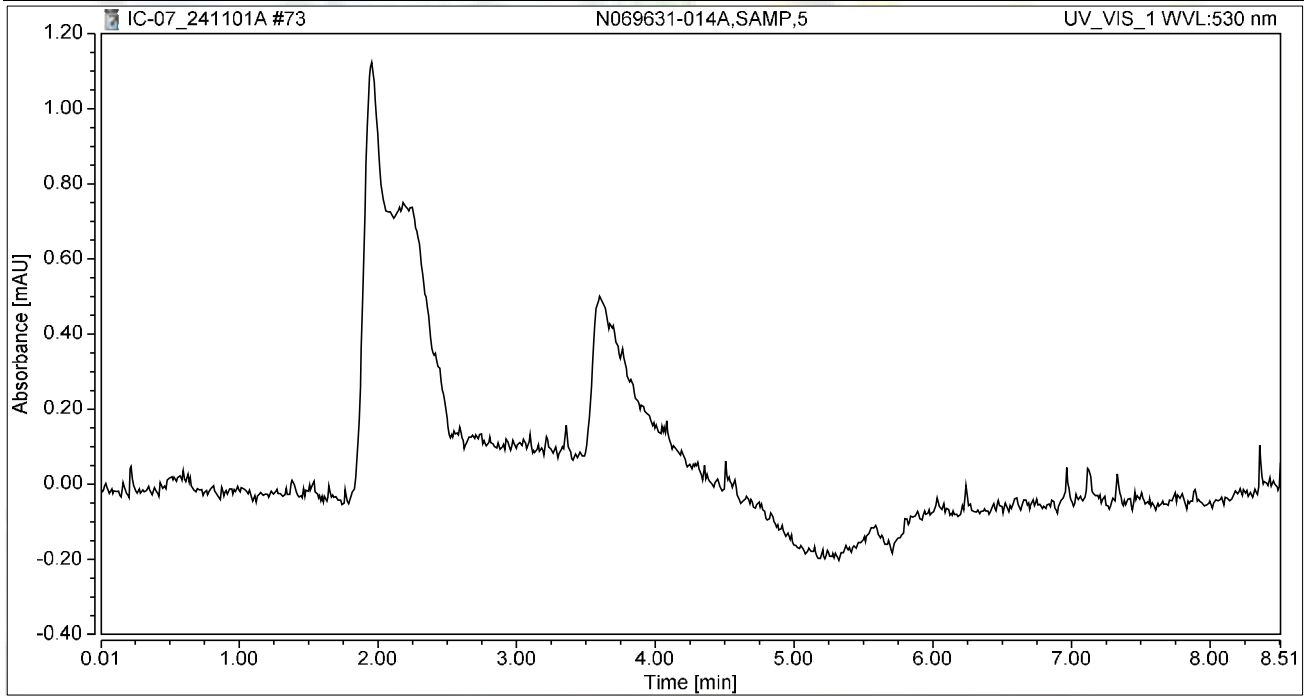
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-014A,SAMP,5	Run Time (min):	8.50
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 20:27	Sample Weight:	1.0000

Chromatogram



Integration Results

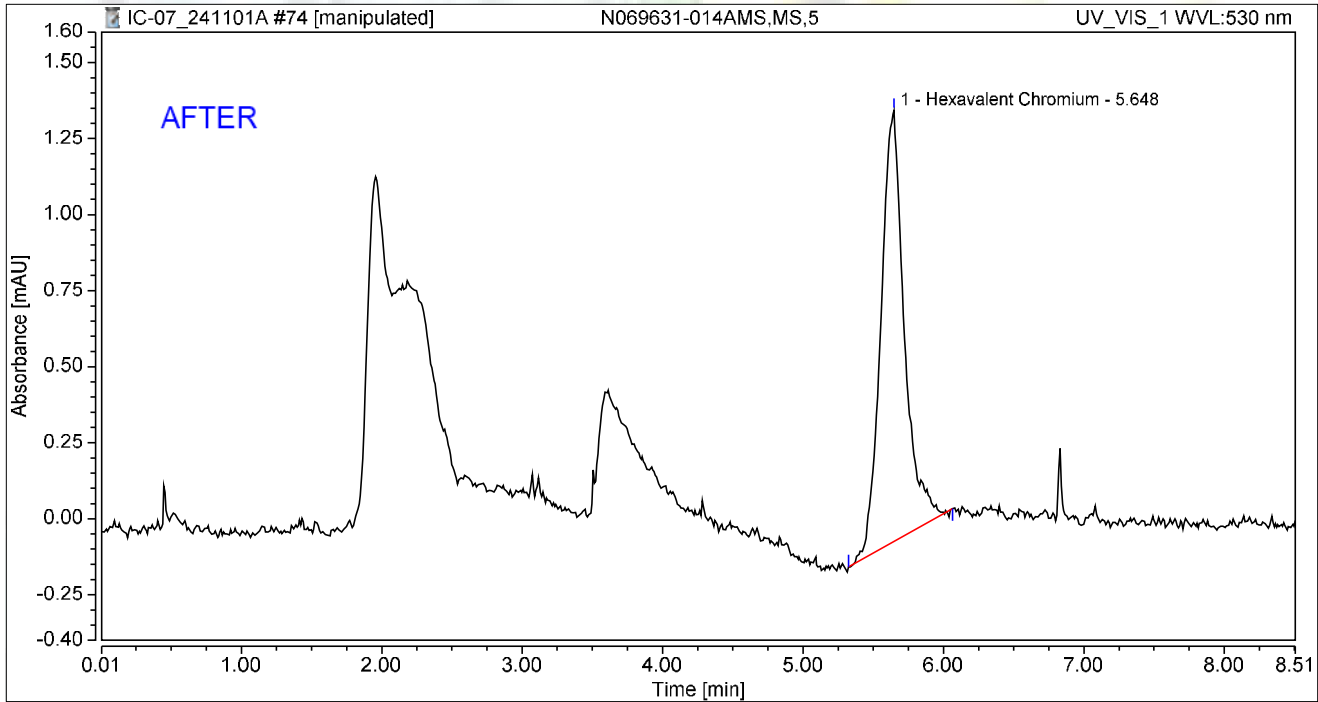
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-014AMS,MS,5	Run Time (min):	8.50
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 20:36	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.648	0.274	1.417	100.00	100.00	0.9659
Total:			0.274	1.417	100.00	100.00	

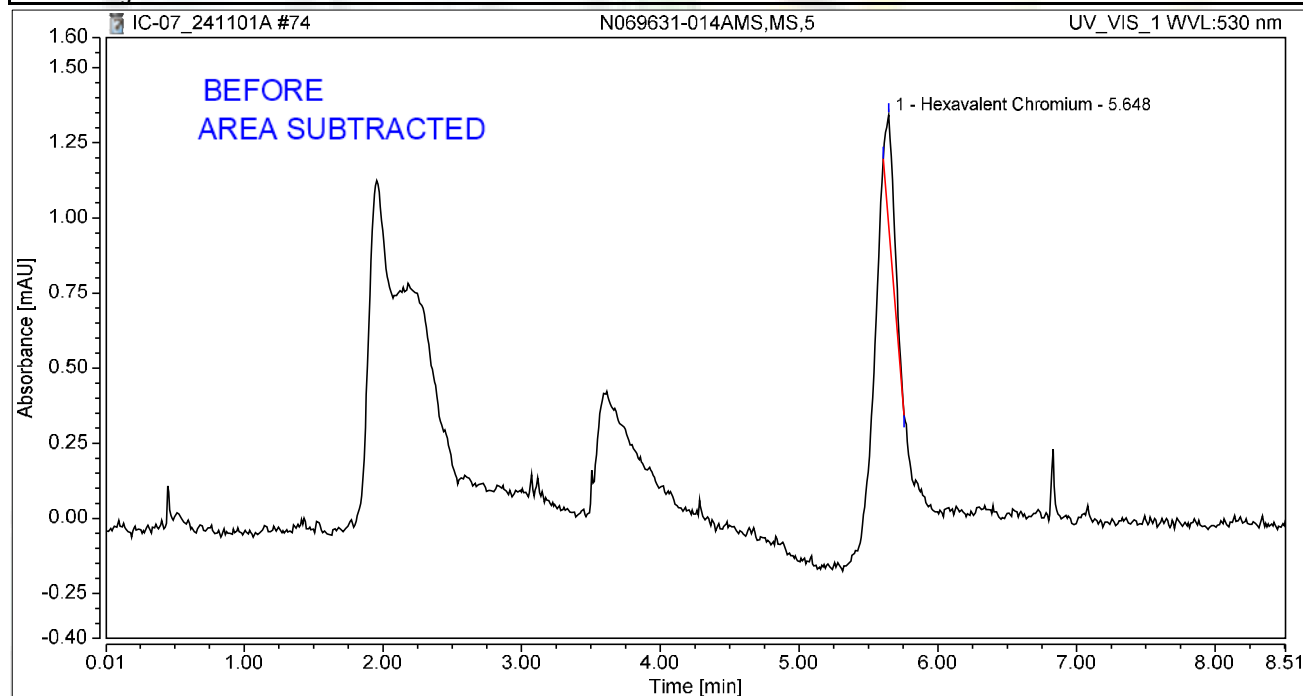
Reviewed by:

M. Rocha 11/7/2024

Chromatogram and Results

Injection Details		
Injection Name:	N069631-014AMS,MS,5	Run Time (min): 8.50
Vial Number:	28	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	01/Nov/24 20:36	Sample Weight: 1.0000

Chromatogram



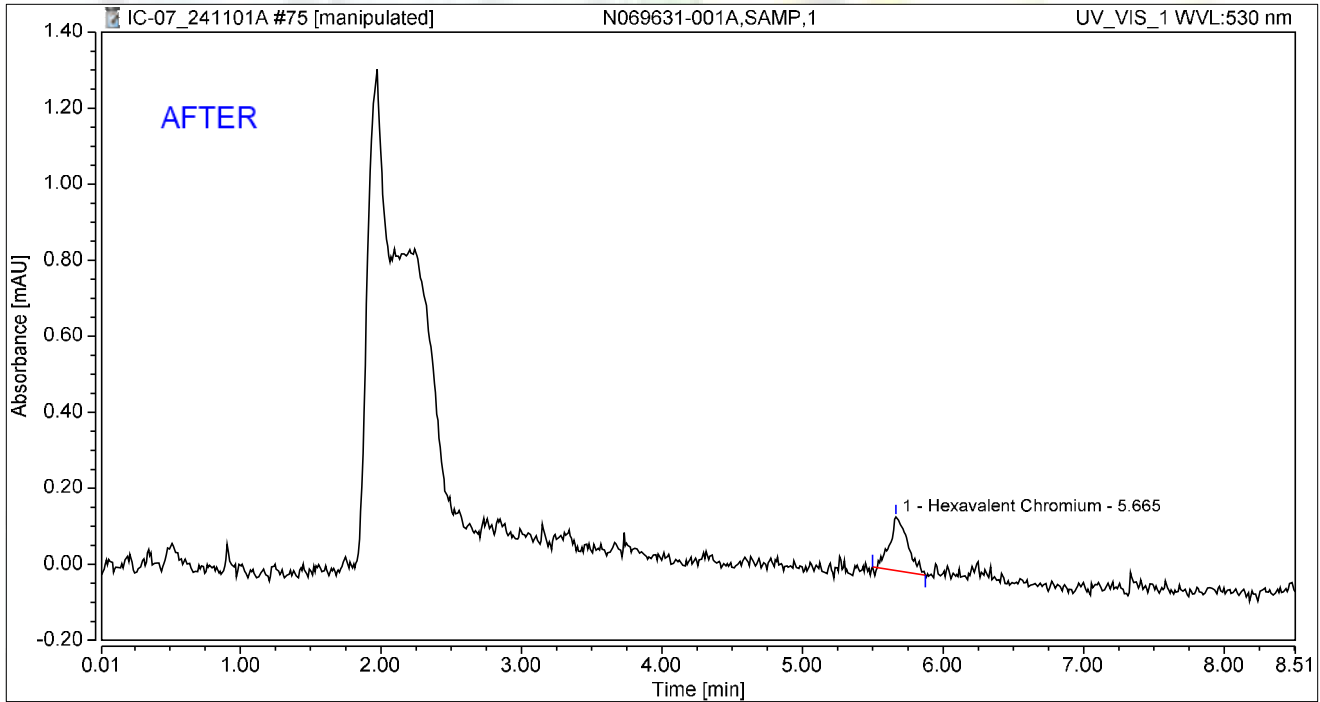
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.648	0.027	0.382	100.00	100.00	0.0955
Total:			0.027	0.382	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-001A,SAMP,1	Run Time (min):	8.49
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 20:46	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.021	0.141	100.00	100.00	0.0728
Total:			0.021	0.141	100.00	100.00	

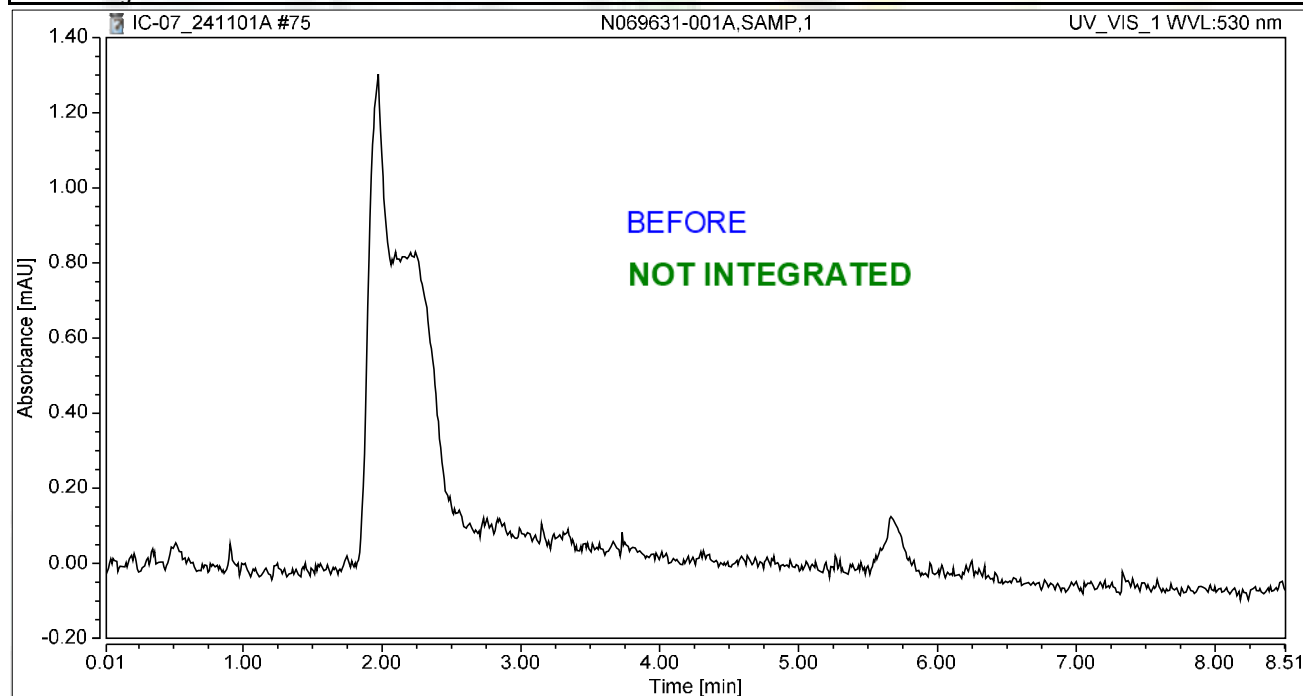
Reviewed by:

d/Rocha 11/7/2024

Chromatogram and Results

Injection Details		
Injection Name:	N069631-001A,SAMP,1	Run Time (min): 8.49
Vial Number:	29	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	01/Nov/24 20:46	Sample Weight: 1.0000

Chromatogram



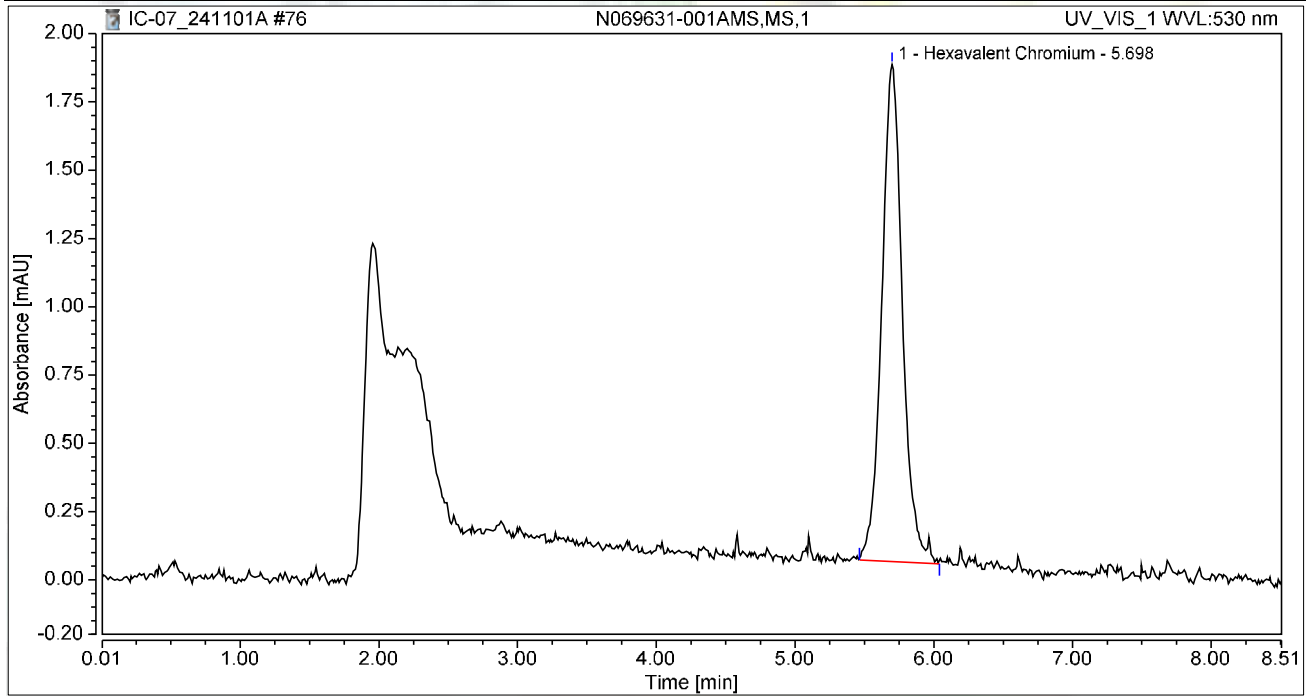
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-001AMS,MS,1	Run Time (min):	8.50
Vial Number:	30	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 20:55	Sample Weight:	1.0000

Chromatogram



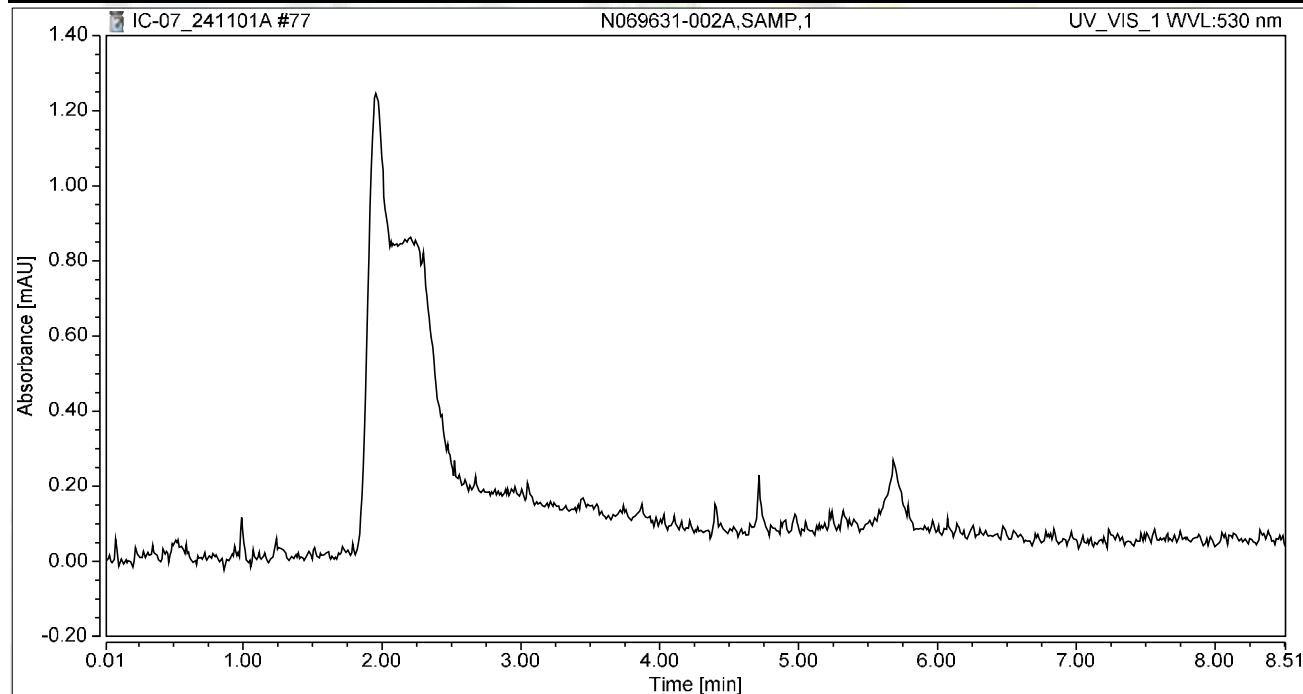
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	0.314	1.820	100.00	100.00	1.1067
Total:			0.314	1.820	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069631-002A,SAMP,1	Run Time (min): 8.49
Vial Number:	31	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	01/Nov/24 21:05	Sample Weight: 1.0000

Chromatogram



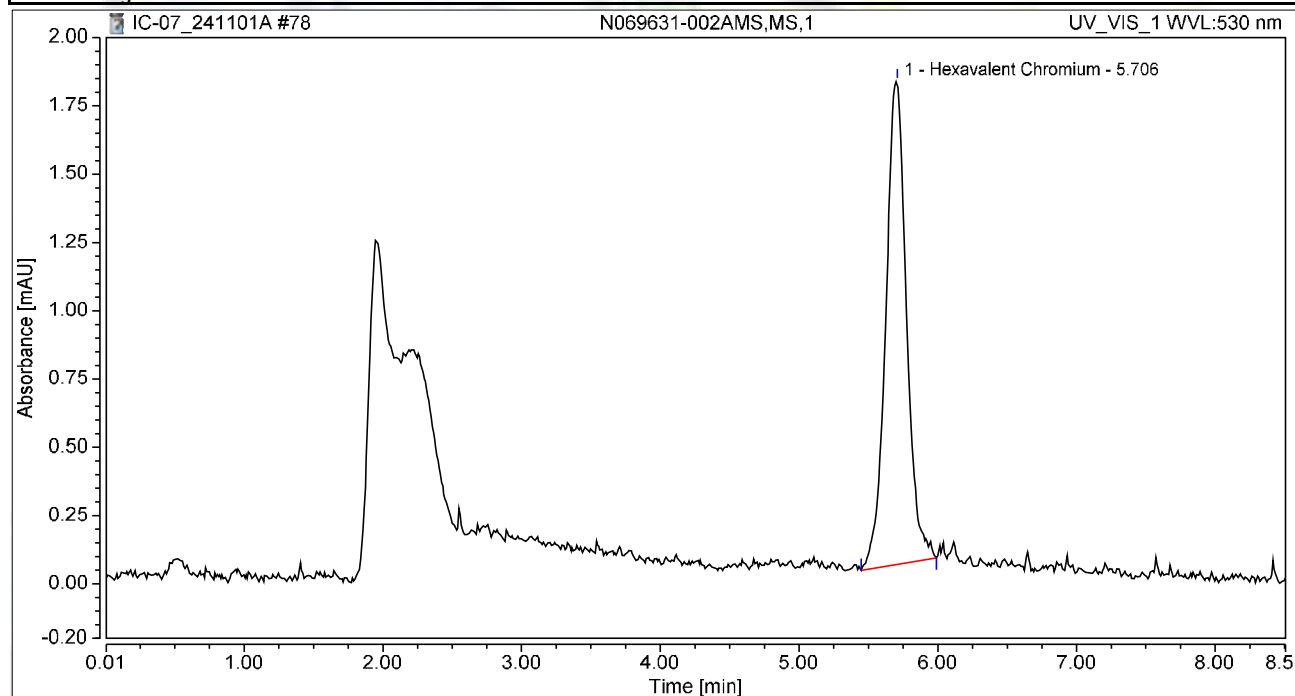
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	32	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 21:14	Sample Weight:	1.0000

Chromatogram



Integration Results

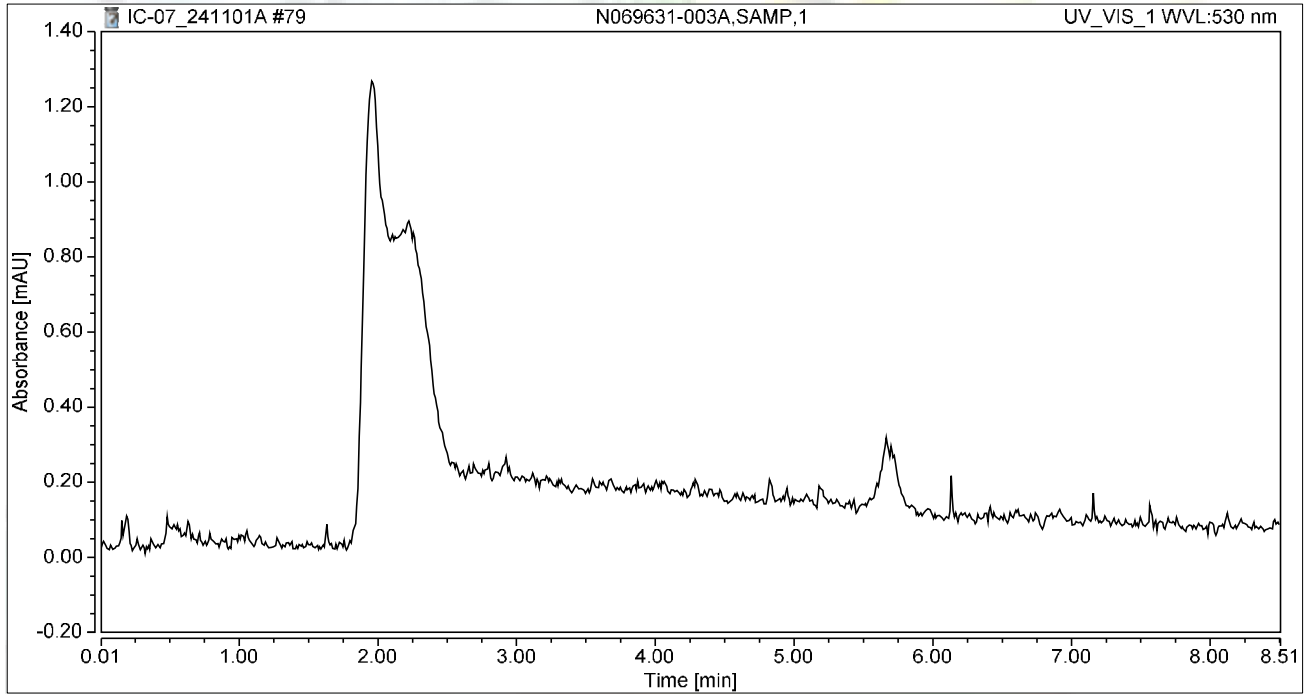
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	0.306	1.771	100.00	100.00	1.0772
Total:			0.306	1.771	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	33	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 21:24	Sample Weight:	1.0000

Chromatogram



Integration Results

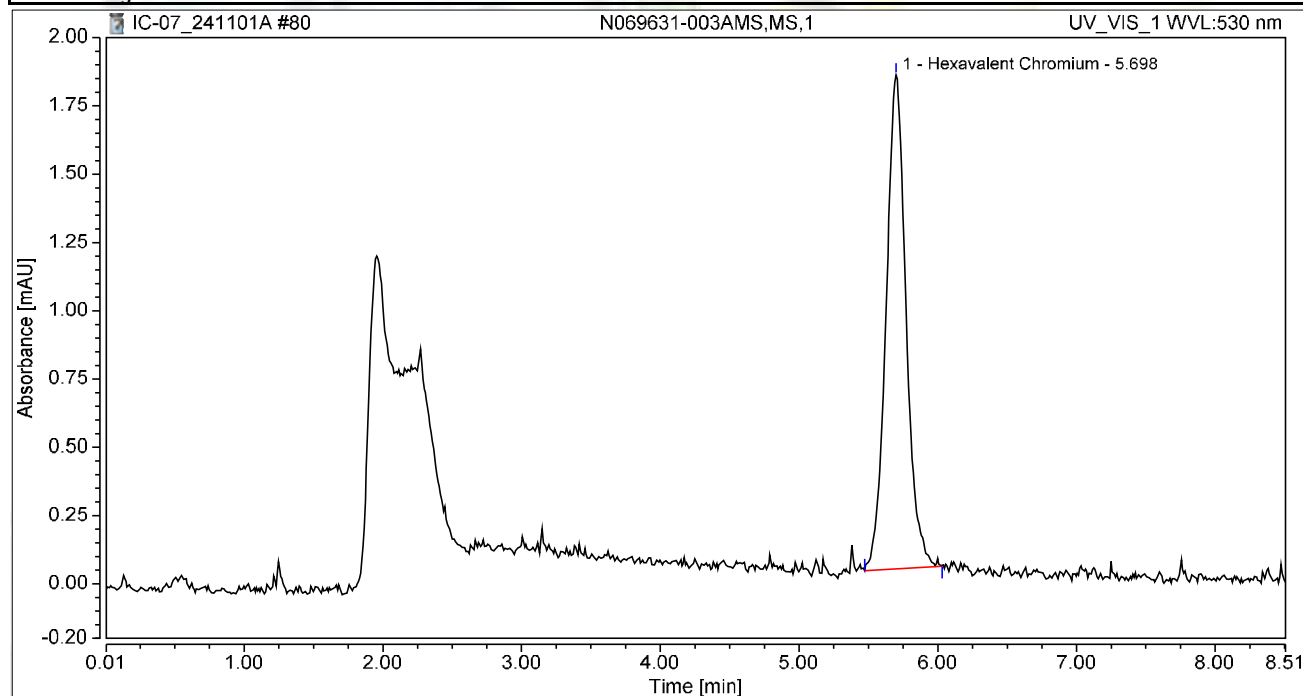
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-003AMS,MS,1	Run Time (min):	8.50
Vial Number:	34	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 21:33	Sample Weight:	1.0000

Chromatogram



Integration Results

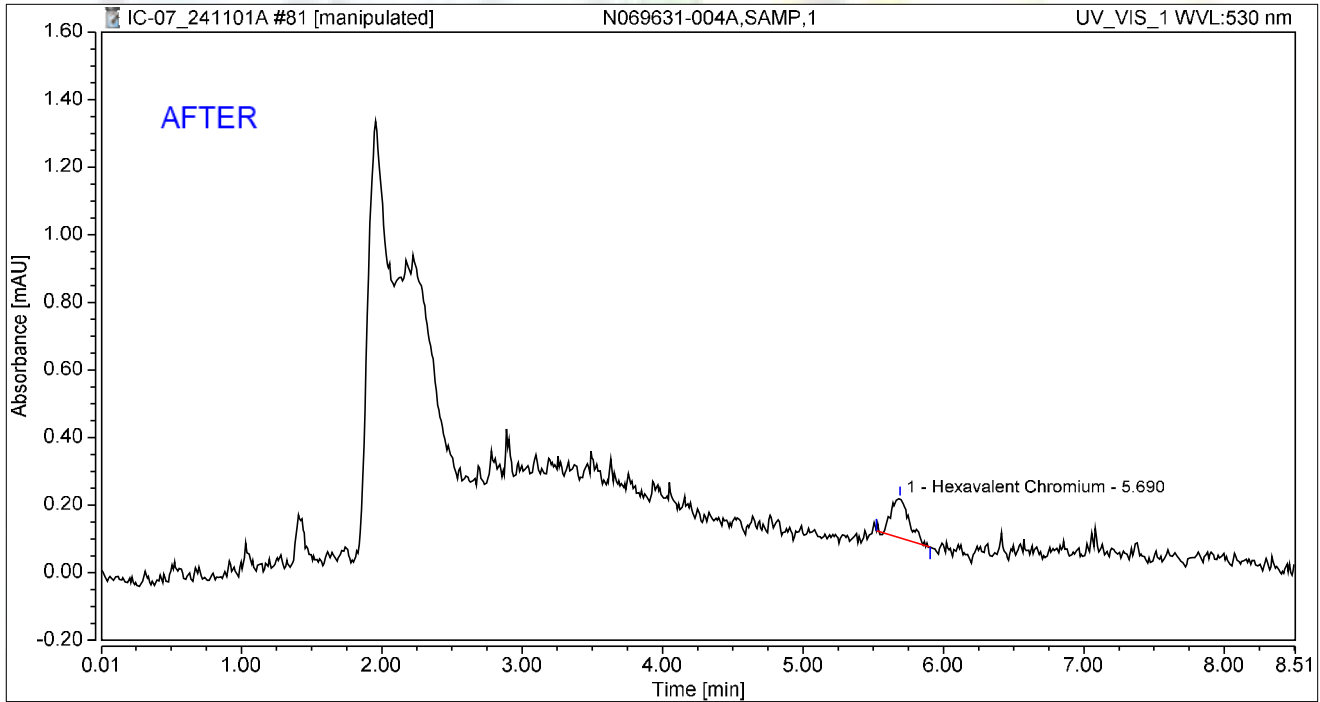
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	0.301	1.808	100.00	100.00	1.0609
Total:			0.301	1.808	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-004A,SAMP,1	Run Time (min):	8.50
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 21:43	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.017	0.117	100.00	100.00	0.0617
Total:			0.017	0.117	100.00	100.00	

Reviewed by:

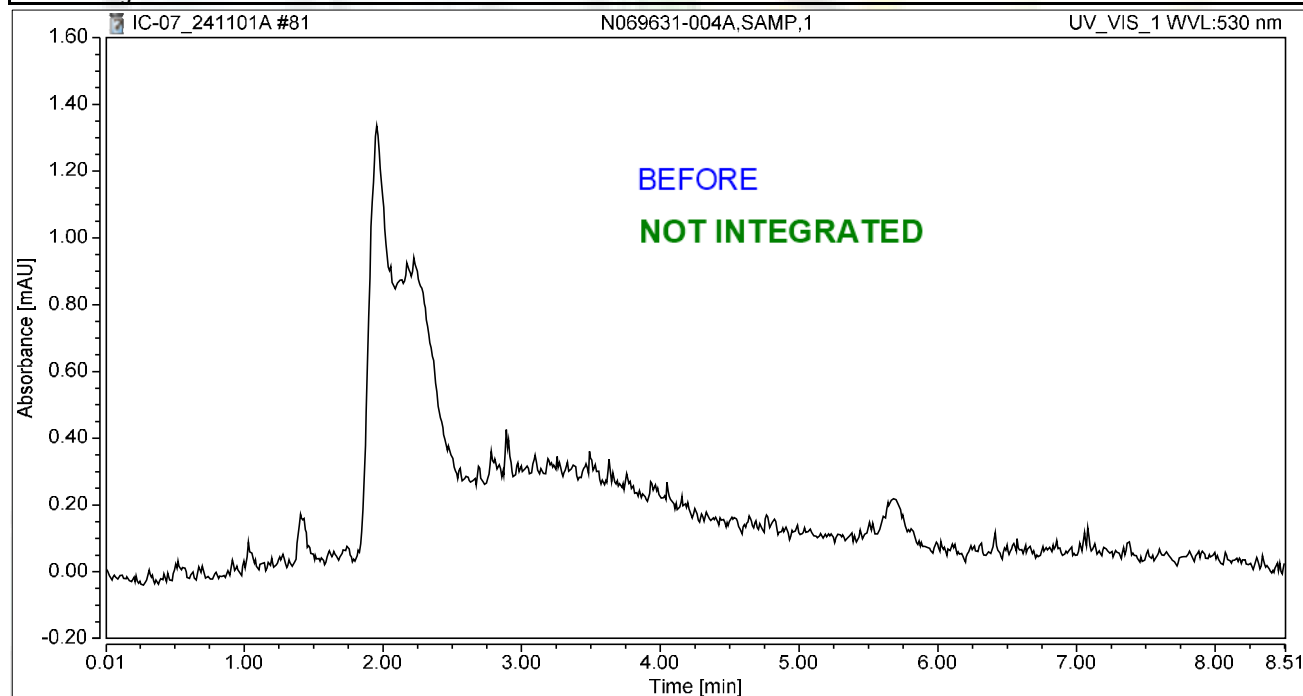
d/Rocha 11/7/2024

Chromatogram and Results

Injection Details

Injection Name:	N069631-004A,SAMP,1	Run Time (min):	8.50
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 21:43	Sample Weight:	1.0000

Chromatogram



Integration Results

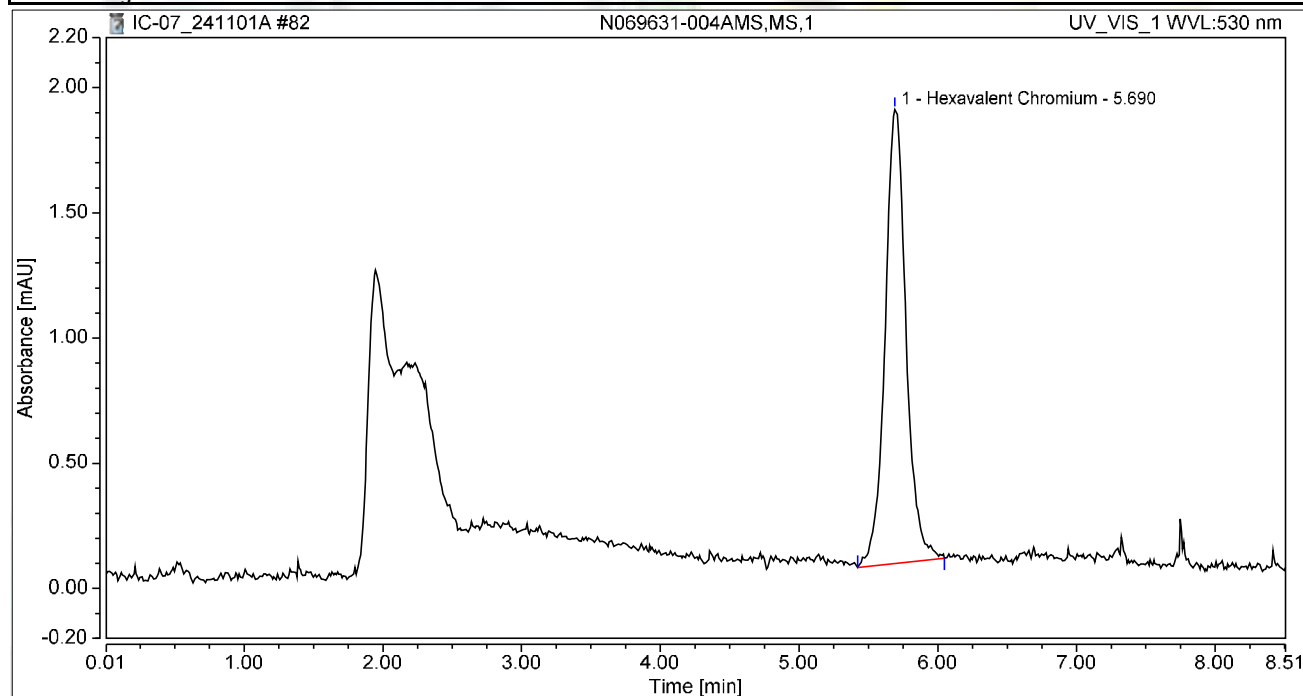
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-004AMS,MS,1	Run Time (min):	8.50
Vial Number:	36	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 21:52	Sample Weight:	1.0000

Chromatogram



Integration Results

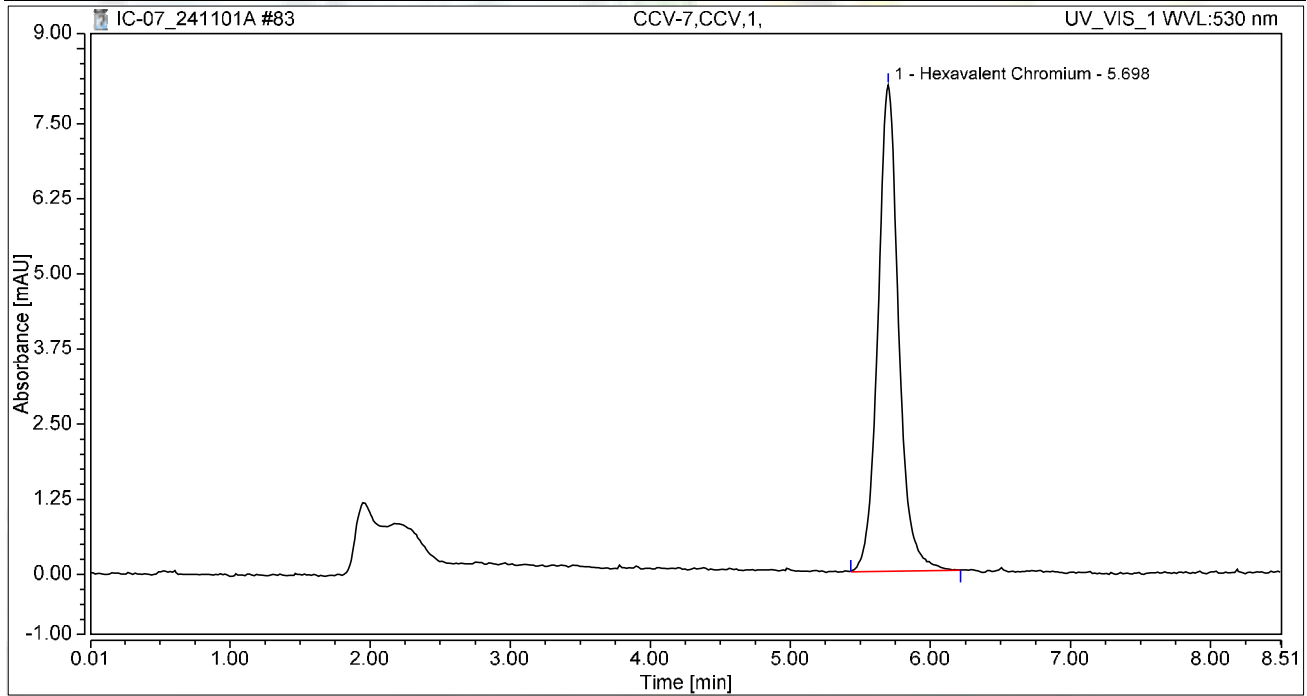
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.317	1.813	100.00	100.00	1.1185
Total:			0.317	1.813	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-7,CCV,1,	Run Time (min):	8.50
Vial Number:	37	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 22:02	Sample Weight:	1.0000

Chromatogram



Integration Results

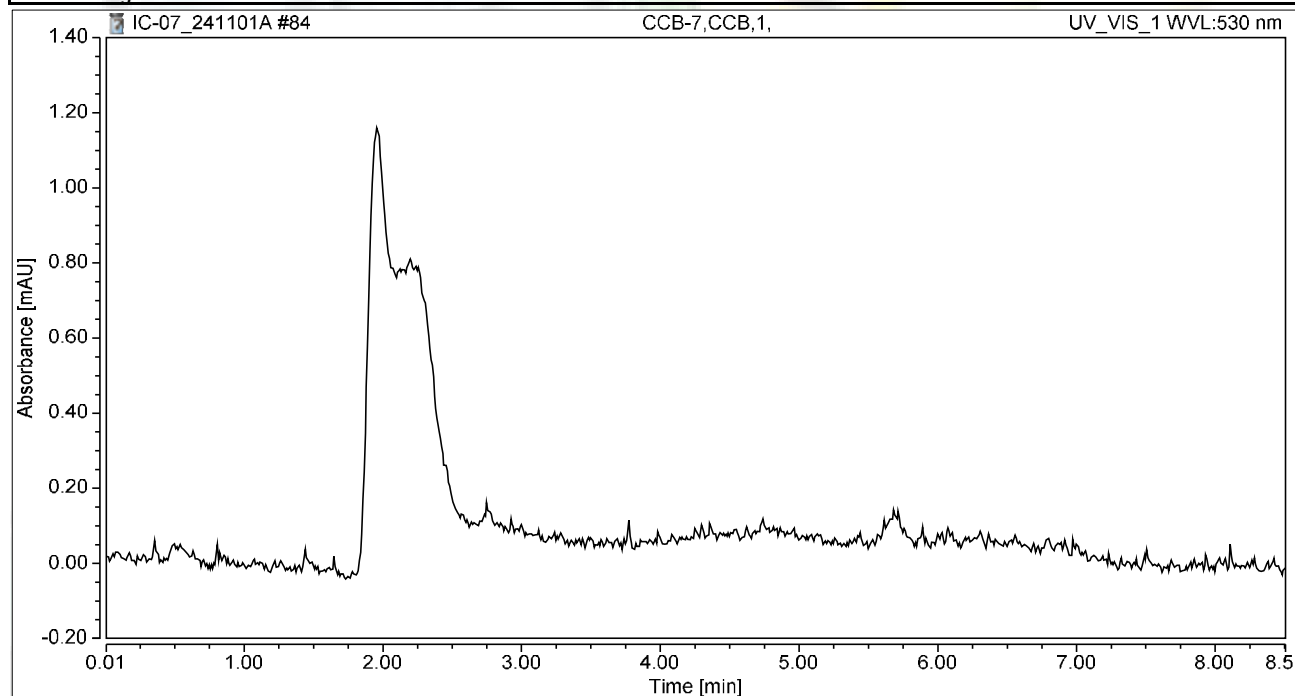
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	1.388	8.092	100.00	100.00	4.8920
Total:			1.388	8.092	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-7,CCB,1,	Run Time (min):	8.50
Vial Number:	38	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 22:11	Sample Weight:	1.0000

Chromatogram



Integration Results

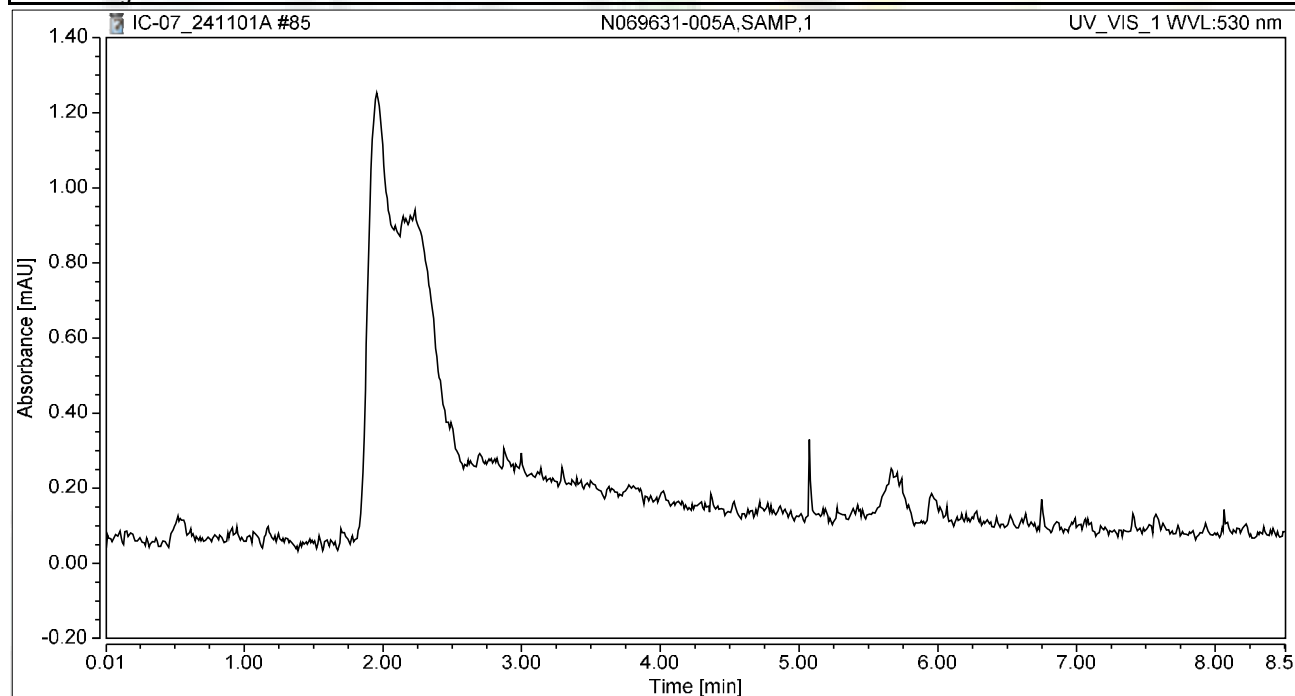
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	39	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 22:20	Sample Weight:	1.0000

Chromatogram



Integration Results

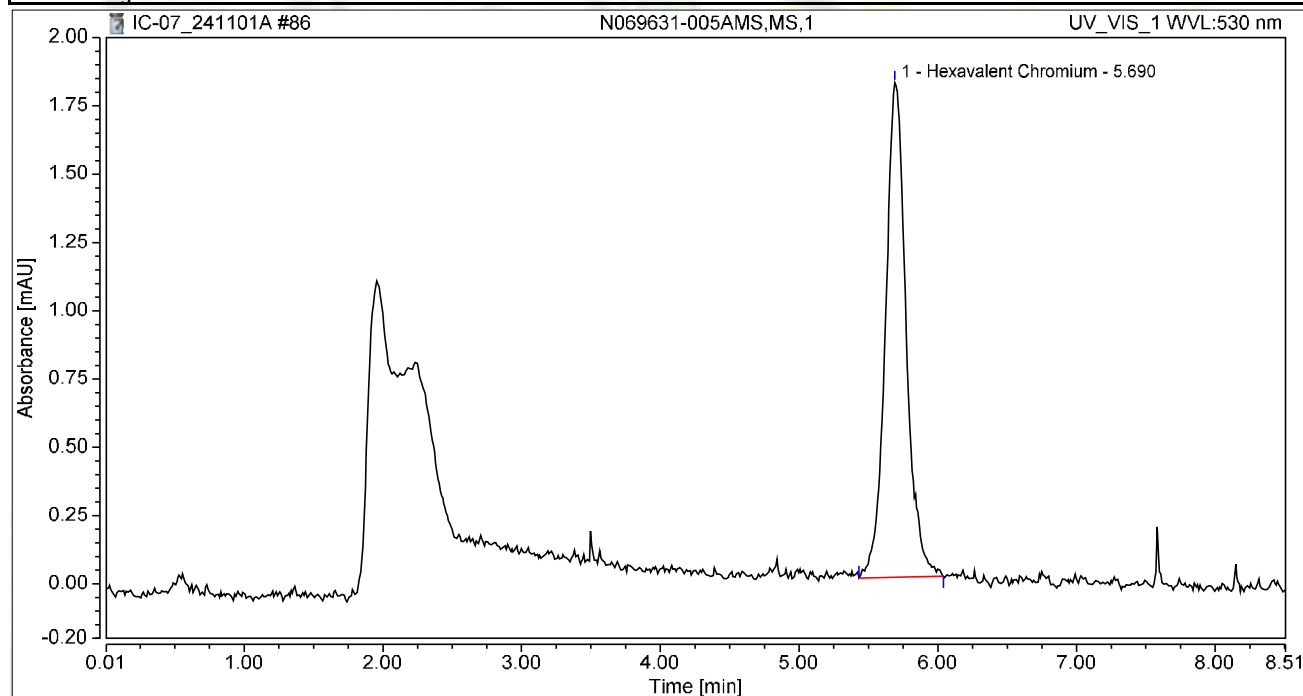
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-005AMS,MS,1	Run Time (min):	8.50
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 22:30	Sample Weight:	1.0000

Chromatogram



Integration Results

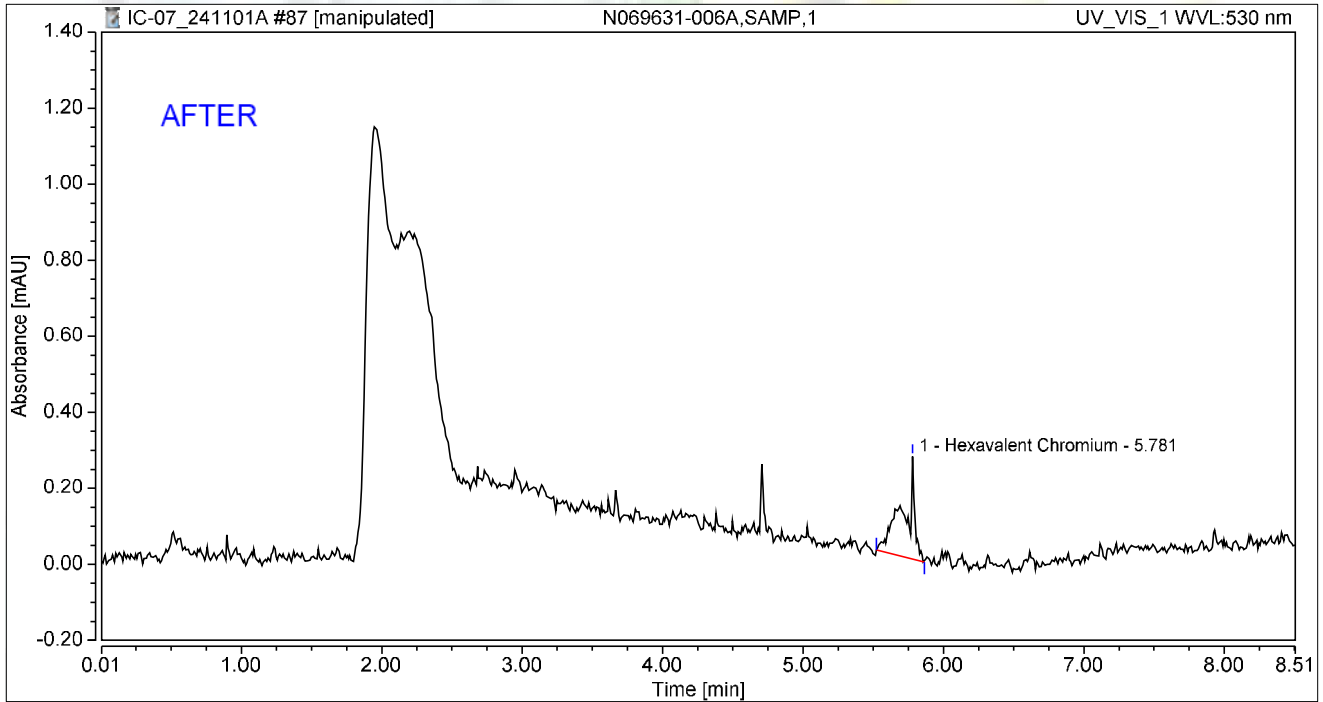
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.312	1.810	100.00	100.00	1.0994
Total:			0.312	1.810	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-006A,SAMP,1	Run Time (min):	8.50
Vial Number:	41	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 22:39	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.781	0.025	0.270	100.00	100.00	0.0895
Total:			0.025	0.270	100.00	100.00	

Reviewed by:

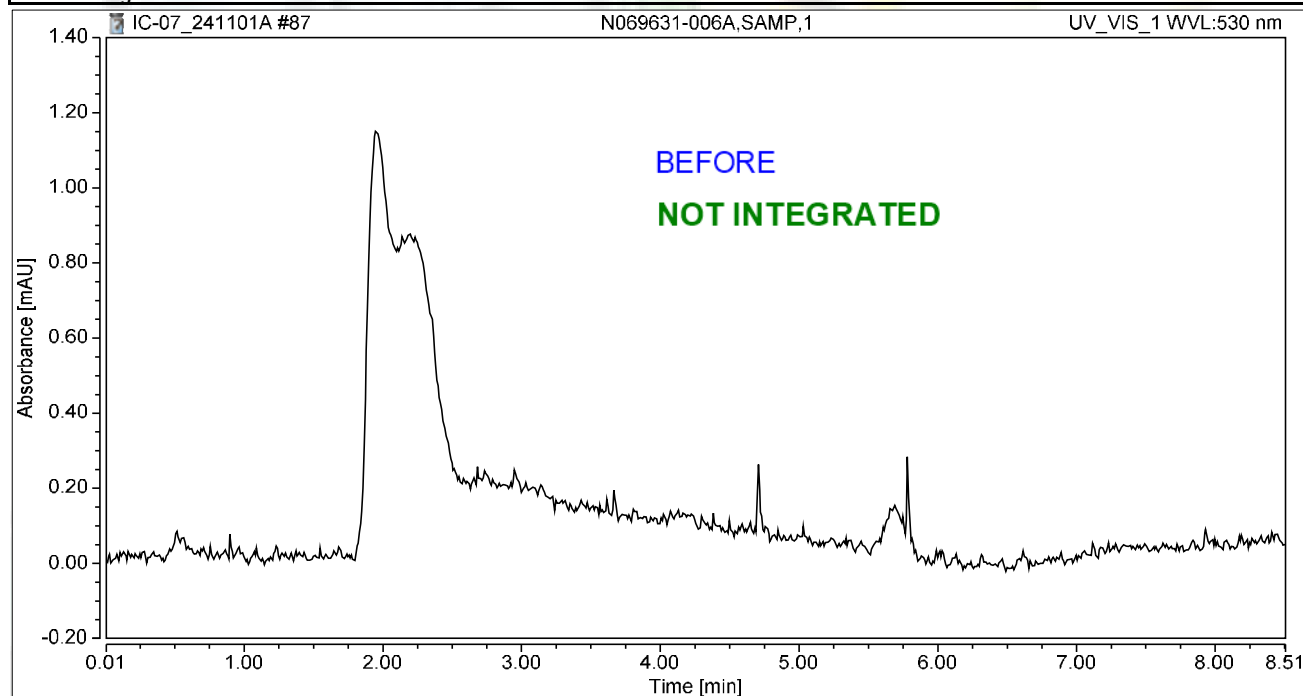
M/Rocha 11/7/2024

Chromatogram and Results

Injection Details

Injection Name:	N069631-006A,SAMP,1	Run Time (min):	8.50
Vial Number:	41	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 22:39	Sample Weight:	1.0000

Chromatogram



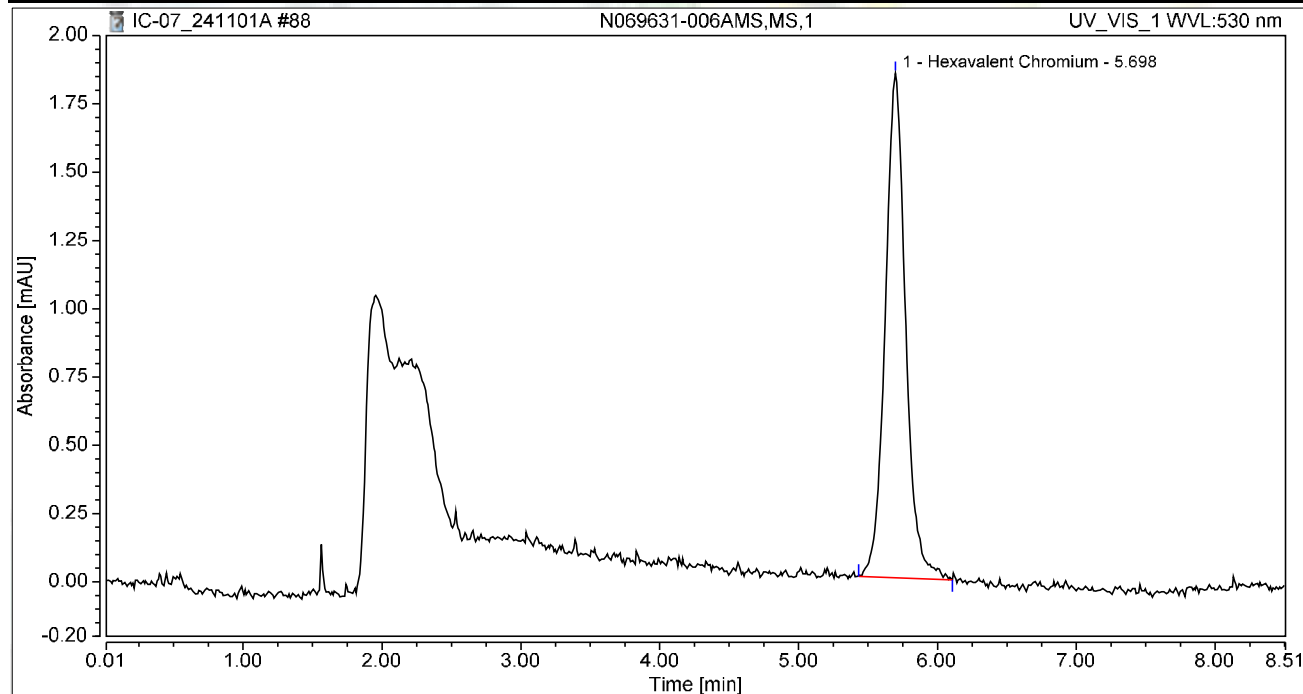
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069631-006AMS,MS,1	Run Time (min): 8.49
Vial Number:	42	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	01/Nov/24 22:49	Sample Weight: 1.0000

Chromatogram



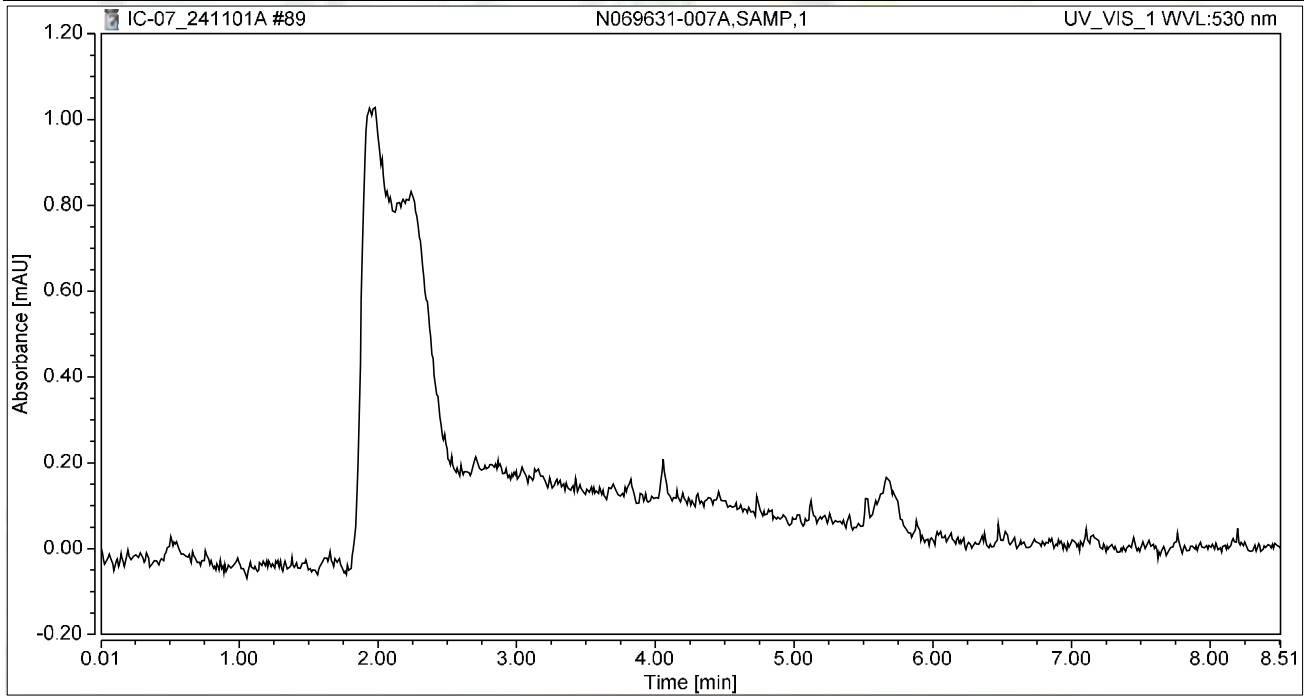
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	0.314	1.847	100.00	100.00	1.1050
Total:			0.314	1.847	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-007A,SAMP,1	Run Time (min):	8.50
Vial Number:	43	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 22:58	Sample Weight:	1.0000

Chromatogram



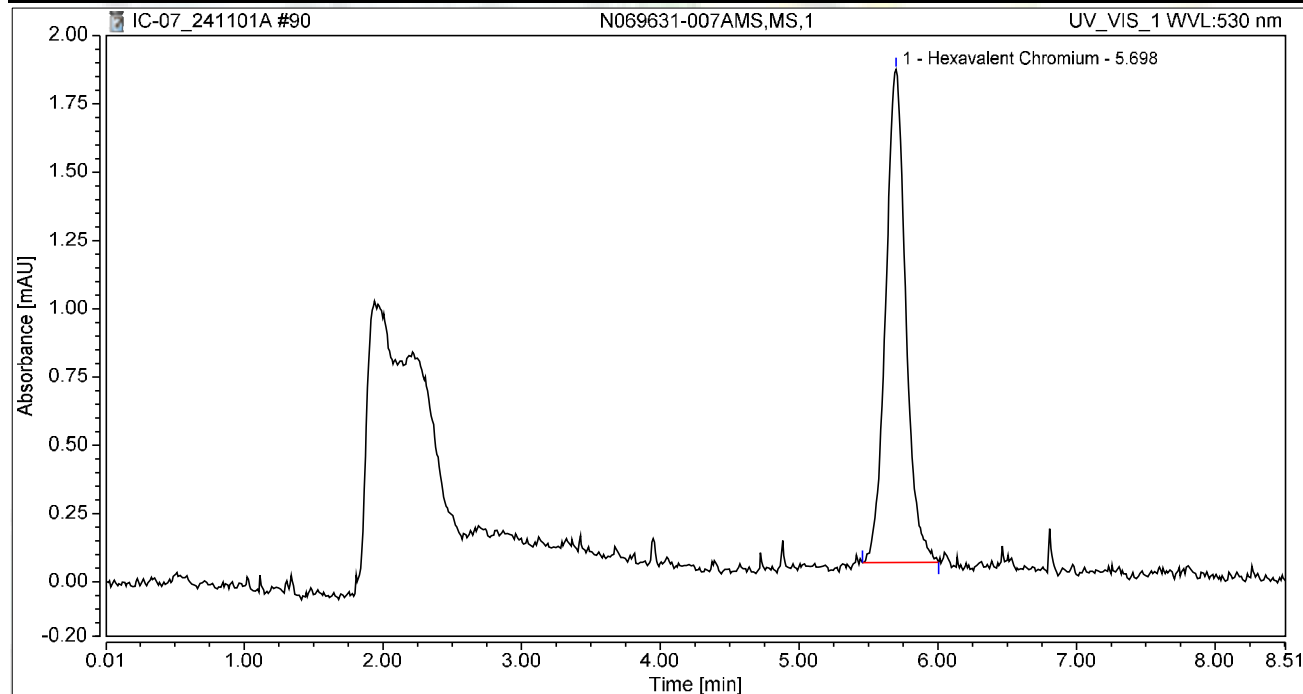
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069631-007AMS,MS,1	Run Time (min): 8.50
Vial Number:	44	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	01/Nov/24 23:08	Sample Weight: 1.0000

Chromatogram



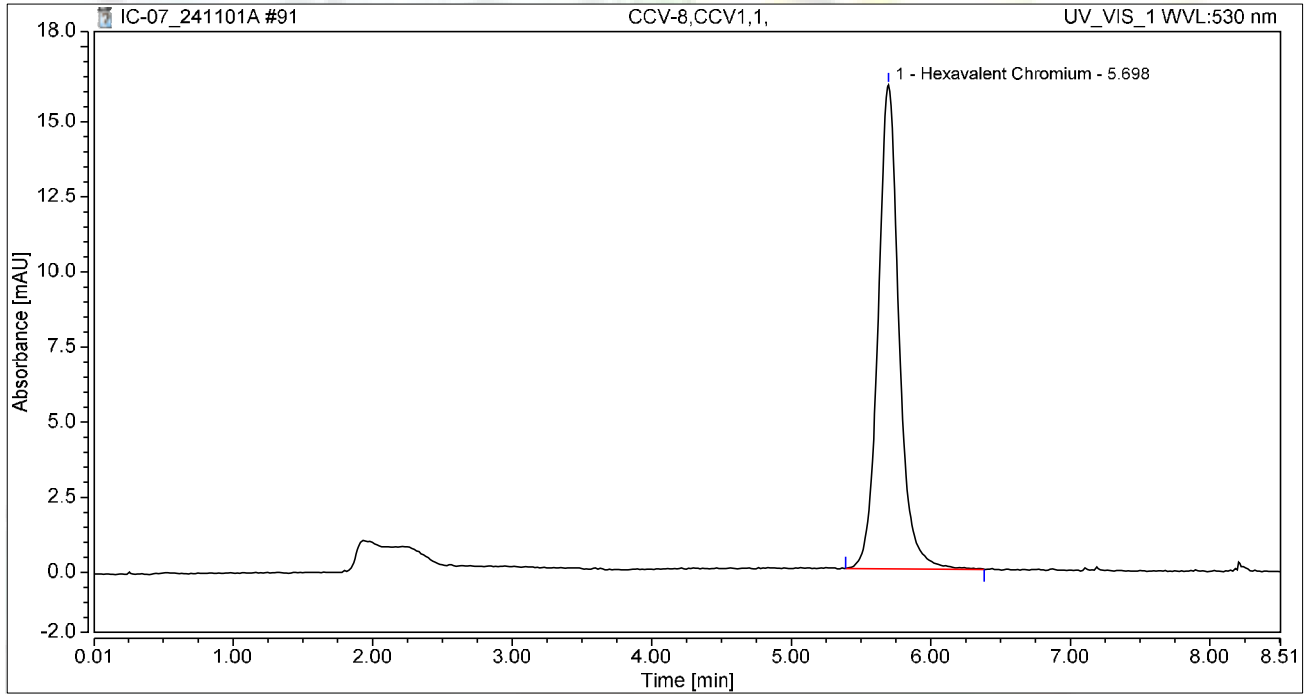
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	0.303	1.805	100.00	100.00	1.0684
Total:			0.303	1.805	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-8,CCV1,1,	Run Time (min):	8.50
Vial Number:	45	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 23:17	Sample Weight:	1.0000

Chromatogram



Integration Results

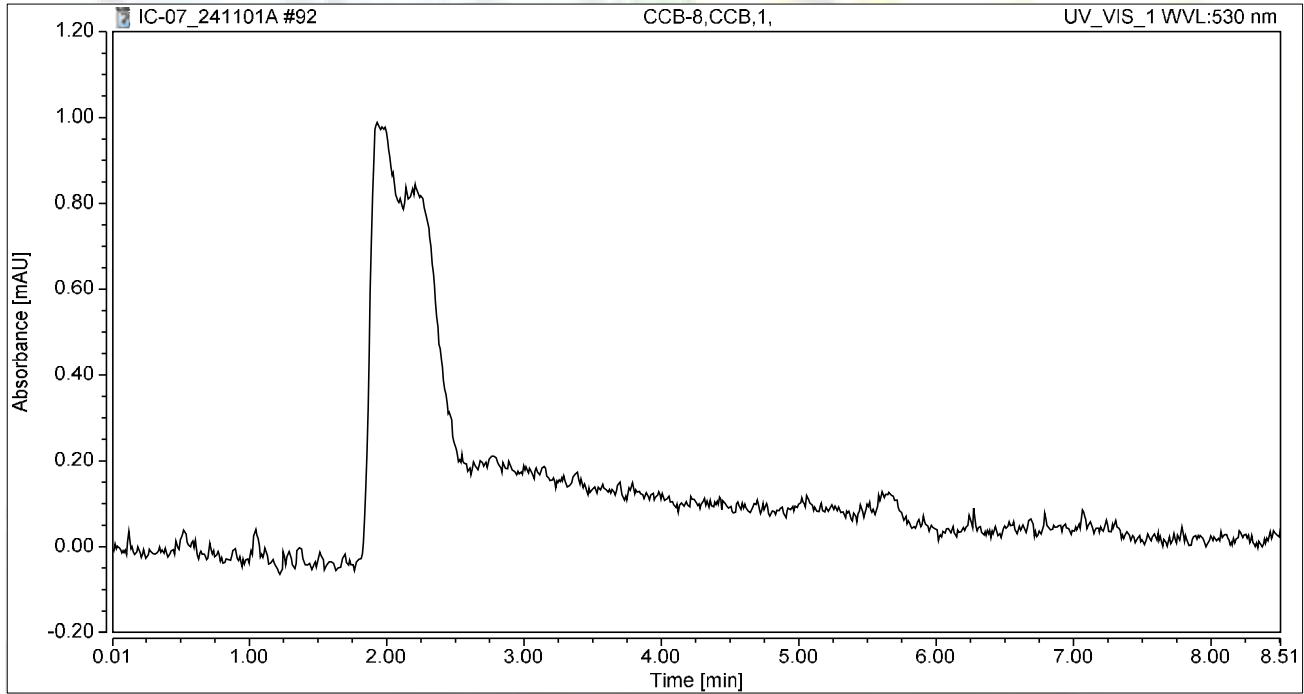
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	2.800	16.110	100.00	100.00	9.8684
Total:			2.800	16.110	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-8,CCB,1,	Run Time (min):	8.50
Vial Number:	46	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 23:27	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

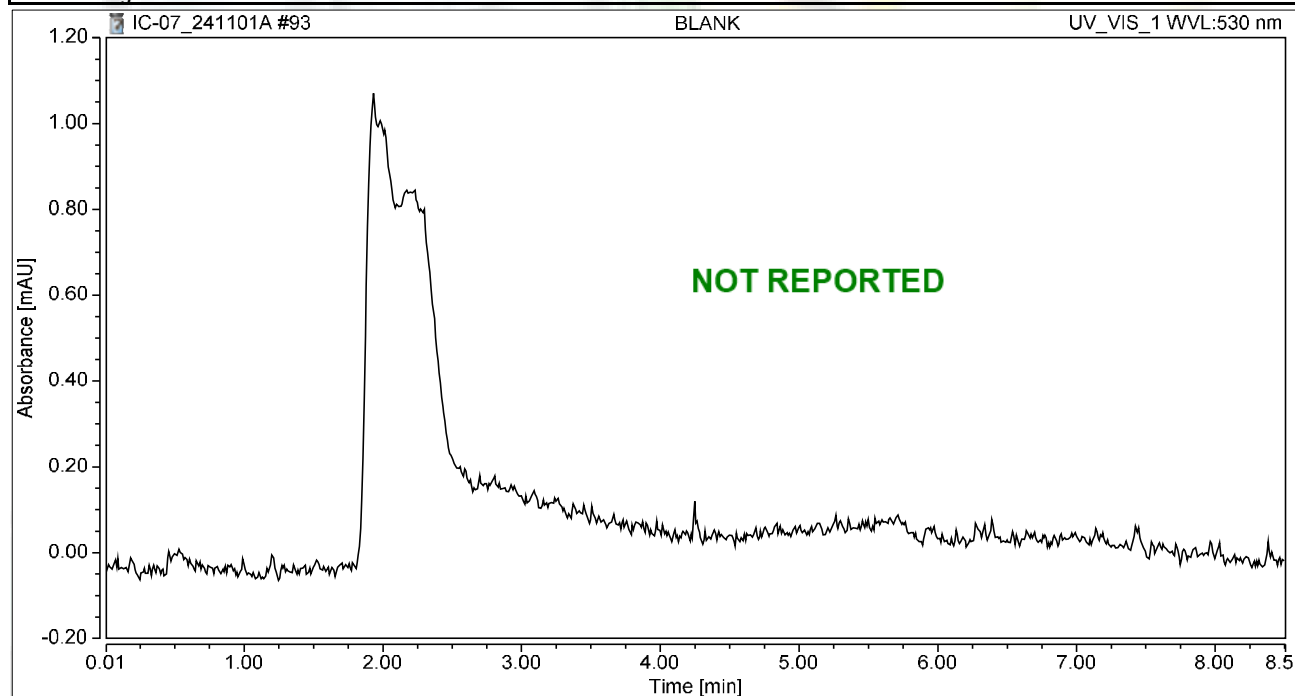


Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	47	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	01/Nov/24 23:36	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

RAW DATA



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"Serving Clients with Passion and Professionalism"

INJECTION LOG: 241104A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	11/04/24 10:47 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	11/04/24 11:01 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	11/04/24 11:10 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	11/04/24 11:20 AM	Reported
13	MB-R195216	MBLK	1	Hexavalent Chromium	11/04/24 11:29 AM	Reported
14	LCS-R195216	LCS	1	Hexavalent Chromium	11/04/24 11:39 AM	Reported
15	N069263-003A	SAMP	1	Hexavalent Chromium	11/04/24 12:35 PM	Reported
16	N069263-003AMS	MS	1	Hexavalent Chromium	11/04/24 12:45 PM	Reported
17	N069263-003A	SAMP	5	Hexavalent Chromium	11/04/24 12:54 PM	Not Reported
18	N069263-003AMS	MS	5	Hexavalent Chromium	11/04/24 1:04 PM	Not Reported
19	N069638-001A	SAMP	5	Hexavalent Chromium	11/04/24 1:13 PM	Reported
20	N069638-001AMS	MS	5	Hexavalent Chromium	11/04/24 1:23 PM	Reported
21	N069638-002A	SAMP	5	Hexavalent Chromium	11/04/24 1:32 PM	Reported
22	N069638-002AMS	MS	5	Hexavalent Chromium	11/04/24 1:42 PM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	11/04/24 1:51 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	11/04/24 2:01 PM	Reported
25	N069638-001ADUP	DUP	5	Hexavalent Chromium	11/04/24 2:43 PM	Reported
26	N069638-001AMSD	MSD	5	Hexavalent Chromium	11/04/24 2:53 PM	Reported
27	N069638-007A	SAMP	1	Hexavalent Chromium	11/04/24 3:03 PM	Reported
28	N069638-007AMS	MS	1	Hexavalent Chromium	11/04/24 3:12 PM	Reported
29	N069638-008A	SAMP	1	Hexavalent Chromium	11/04/24 3:22 PM	Reported
30	N069638-008AMS	MS	1	Hexavalent Chromium	11/04/24 3:31 PM	Reported
31	N069631-015A	SAMP	1	Hexavalent Chromium	11/04/24 3:41 PM	Reported
32	N069631-015AMS	MS	1	Hexavalent Chromium	11/04/24 3:50 PM	Reported
33	N069638-003A	SAMP	1	Hexavalent Chromium	11/04/24 4:00 PM	Not Reported
34	N069638-003AMS	MS	1	Hexavalent Chromium	11/04/24 4:09 PM	Not Reported
35	CCV-3	CCV	1	Hexavalent Chromium	11/04/24 4:19 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	11/04/24 4:28 PM	Reported
37	N069638-003A	SAMP	5	Hexavalent Chromium	11/04/24 4:37 PM	Reported
38	N069638-003AMS	MS	5	Hexavalent Chromium	11/04/24 4:47 PM	Reported
39	N069638-009A	SAMP	1	Hexavalent Chromium	11/04/24 4:56 PM	Not Reported
40	N069638-009AMS	MS	1	Hexavalent Chromium	11/04/24 5:06 PM	Not Reported
41	N069638-009AMS	MS	5	Hexavalent Chromium	11/04/24 5:15 PM	Reported
42	N069638-009A	SAMP	5	Hexavalent Chromium	11/04/24 5:25 PM	Reported

INJECTION LOG: 241104A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069638-004A	SAMP	1	Hexavalent Chromium	11/04/24 5:34 PM	Reported
44	N069638-004AMS	MS	1	Hexavalent Chromium	11/04/24 5:44 PM	Reported
45	N069638-005A	SAMP	1	Hexavalent Chromium	11/04/24 5:53 PM	Reported
46	N069638-005AMS	MS	1	Hexavalent Chromium	11/04/24 6:03 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	11/04/24 6:12 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	11/04/24 6:22 PM	Reported
49	N069638-006A	SAMP	1	Hexavalent Chromium	11/04/24 6:31 PM	Reported
50	N069638-006AMS	MS	1	Hexavalent Chromium	11/04/24 6:40 PM	Reported
51	N069638-010A	SAMP	1	Hexavalent Chromium	11/04/24 6:50 PM	Reported
52	N069638-010AMS	MS	1	Hexavalent Chromium	11/04/24 6:59 PM	Reported
53	N069234-002A	SAMP	1	Hexavalent Chromium	11/04/24 7:11 PM	Not Reported
54	N069234-002AMS	MS	1	Hexavalent Chromium	11/04/24 7:21 PM	Not Reported
55	N069234-007A	SAMP	1	Hexavalent Chromium	11/04/24 7:30 PM	Not Reported
56	N069234-007AMS	MS	1	Hexavalent Chromium	11/04/24 7:40 PM	Not Reported
57	N069234-016A	SAMP	1	Hexavalent Chromium	11/04/24 7:49 PM	Not Reported
58	N069234-016AMS	MS	1	Hexavalent Chromium	11/04/24 7:59 PM	Not Reported
59	CCV-5	CCV	1	Hexavalent Chromium	11/04/24 8:08 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	11/04/24 8:18 PM	Reported
61	N069306-004A	SAMP	1	Hexavalent Chromium	11/04/24 8:27 PM	Not Reported
62	N069306-004AMS	MS	1	Hexavalent Chromium	11/04/24 8:37 PM	Not Reported
63	N069306-005A	SAMP	1	Hexavalent Chromium	11/04/24 8:46 PM	Not Reported
64	N069306-005AMS	MS	1	Hexavalent Chromium	11/04/24 8:55 PM	Not Reported
65	N069306-008A	SAMP	1	Hexavalent Chromium	11/04/24 9:05 PM	Not Reported
66	N069306-008AMS	MS	1	Hexavalent Chromium	11/04/24 9:14 PM	Not Reported
67	N069306-014A	SAMP	1	Hexavalent Chromium	11/04/24 9:24 PM	Reported
68	N069306-014AMS	MS	1	Hexavalent Chromium	11/04/24 9:33 PM	Reported
69	N069306-014AMSD	MSD	1	Hexavalent Chromium	11/04/24 9:43 PM	Reported
70	CCV-6	CCV1	1	Hexavalent Chromium	11/04/24 9:52 PM	Reported
71	CCB-6	CCB	1	Hexavalent Chromium	11/04/24 10:02 PM	Reported
72	BLANK	BLANK	1	Hexavalent Chromium	11/04/24 10:11 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241104A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	04/Nov/24 22:41:56
No. of Injections:	75	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	BLANK	1	1000	Unknown		11/04/2024 10:47	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		11/04/2024 11:01	Finished	CCV @5ppb, IWST-240729A
11	PQL @0.2ppb,CCV2,	3	1000	Unknown		11/04/2024 11:10	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		11/04/2024 11:20	Finished	CCB R241001A
13	MB-H2O,MBLK,1,	5	1000	Unknown		11/04/2024 11:29	Finished	MB R241001A
14	LCS-H2O,LCS,1,	6	1000	Unknown		11/04/2024 11:39	Finished	LCS @5ppb, IWST-240729B
15	N069263-003A,SAMP	2	1000	Unknown		11/04/2024 12:35	Finished	SAMP,10 mL
16	N069263-003AMS,M\$	3	1000	Unknown		11/04/2024 12:45	Finished	MS (1ppb), IWST-240729B,10r
17	N069263-003A,SAMP	4	1000	Unknown		11/04/2024 12:54	Finished	SAMP,2>10 mL
18	N069263-003AMS,M\$	5	1000	Unknown		11/04/2024 13:04	Finished	MS (1ppb), IWST-240729B,2>
19	N069638-001A,SAMP	6	1000	Unknown		11/04/2024 13:13	Finished	SAMP,2>10 mL
20	N069638-001AMS,M\$	7	1000	Unknown		11/04/2024 13:23	Finished	MS (5ppb), IWST-240729B,2>
21	N069638-002A,SAMP	8	1000	Unknown		11/04/2024 13:32	Finished	SAMP,2>10 mL
22	N069638-002AMS,M\$	9	1000	Unknown		11/04/2024 13:42	Finished	MS (5ppb), IWST-240729B,2>
23	CCV-2,CCV1,1,	10	1000	Unknown		11/04/2024 13:51	Finished	CCV @10ppb, IWST-240729A
24	CCB-2,CCB,1,	11	1000	Unknown		11/04/2024 14:01	Finished	CCB R241001A
25	N069638-001ADUP,D	1	1000	Unknown		11/04/2024 14:43	Finished	DUP,2>10 mL
26	N069638-001AMSD,I	2	1000	Unknown		11/04/2024 14:53	Finished	MSD (5ppb), IWST-240729B,2
27	N069638-007A,SAMP	3	1000	Unknown		11/04/2024 15:03	Finished	SAMP,10 mL
28	N069638-007AMS,M\$	4	1000	Unknown		11/04/2024 15:12	Finished	MS (1ppb), IWST-240729B,10r
29	N069638-008A,SAMP	5	1000	Unknown		11/04/2024 15:22	Finished	SAMP,10 mL
30	N069638-008AMS,M\$	6	1000	Unknown		11/04/2024 15:31	Finished	MS (1ppb), IWST-240729B,10r
31	N069631-015A,SAMP	7	1000	Unknown		11/04/2024 15:41	Finished	SAMP,10 mL
32	N069631-015AMS,M\$	8	1000	Unknown		11/04/2024 15:50	Finished	MS (1ppb), IWST-240729B,10r
33	N069638-003A,SAMP	9	1000	Unknown		11/04/2024 16:00	Finished	SAMP,10 mL
34	N069638-003AMS,M\$	10	1000	Unknown		11/04/2024 16:09	Finished	MS (1ppb), IWST-240729B,10r
35	CCV-3,CCV,1,	11	1000	Unknown		11/04/2024 16:19	Finished	CCV @5ppb, IWST-240729A
36	CCB-3,CCB,1,	12	1000	Unknown		11/04/2024 16:28	Finished	CCB R241001A
37	N069638-003A,SAMP	13	1000	Unknown		11/04/2024 16:37	Finished	SAMP,2>10 mL
38	N069638-003AMS,M\$	14	1000	Unknown		11/04/2024 16:47	Finished	MS (1ppb), IWST-240729B,2>
39	N069638-009A,SAMP	15	1000	Unknown		11/04/2024 16:56	Finished	SAMP,10 mL
40	N069638-009AMS,M\$	16	1000	Unknown		11/04/2024 17:06	Finished	MS (1ppb), IWST-240729B,10r
41	N069638-009A,SAMP	17	1000	Unknown		11/04/2024 17:15	Finished	SAMP,2>10 mL
42	N069638-009AMS,M\$	18	1000	Unknown		11/04/2024 17:25	Finished	MS (1ppb), IWST-240729B,2>
43	N069638-004A,SAMP	19	1000	Unknown		11/04/2024 17:34	Finished	SAMP,10 mL
44	N069638-004AMS,M\$	20	1000	Unknown		11/04/2024 17:44	Finished	MS (1ppb), IWST-240729B,10r
45	N069638-005A,SAMP	21	1000	Unknown		11/04/2024 17:53	Finished	SAMP,10 mL
46	N069638-005AMS,M\$	22	1000	Unknown		11/04/2024 18:03	Finished	MS (1ppb), IWST-240729B,10r
47	CCV-4,CCV1,1,	23	1000	Unknown		11/04/2024 18:12	Finished	CCV @10ppb, IWST-240729A
48	CCB-4,CCB,1,	24	1000	Unknown		11/04/2024 18:22	Finished	CCB R241001A
49	N069638-006A,SAMP	25	1000	Unknown		11/04/2024 18:31	Finished	SAMP,10 mL
50	N069638-006AMS,M\$	26	1000	Unknown		11/04/2024 18:40	Finished	MS (1ppb), IWST-240729B,10r
51	N069638-010A,SAMP	27	1000	Unknown		11/04/2024 18:50	Finished	SAMP,10 mL
52	N069638-010AMS,M\$	28	1000	Unknown		11/04/2024 18:59	Finished	MS (5ppb), IWST-240729B,10r
53	N069234-002A,SAMP	29	1000	Unknown		11/04/2024 19:11	Finished	SAMP,10 mL
54	N069234-002AMS,M\$	30	1000	Unknown		11/04/2024 19:21	Finished	MS (5ppb), IWST-240729B,10r
55	N069234-007A,SAMP	31	1000	Unknown		11/04/2024 19:30	Finished	SAMP,10 mL
56	N069234-007AMS,M\$	32	1000	Unknown		11/04/2024 19:40	Finished	MS (1ppb), IWST-240729B,10r
57	N069234-016A,SAMP	33	1000	Unknown		11/04/2024 19:49	Finished	SAMP,10 mL
58	N069234-016AMS,M\$	34	1000	Unknown		11/04/2024 19:59	Finished	MS (5ppb), IWST-240729B,10r
59	CCV-5,CCV,1,	35	1000	Unknown		11/04/2024 20:08	Finished	CCV @5ppb, IWST-240729A
60	CCB-5,CCB,1,	36	1000	Unknown		11/04/2024 20:18	Finished	CCB R241001A

61	N069306-004A,SAMF	37	1000	Unknown	11/04/2024 20:27	Finished	SAMP,10 mL
62	N069306-004AMS,M\$	38	1000	Unknown	11/04/2024 20:37	Finished	MS (5ppb), IWST-240729B,10r
63	N069306-005A,SAMF	39	1000	Unknown	11/04/2024 20:46	Finished	SAMP,10 mL
64	N069306-005AMS,M\$	40	1000	Unknown	11/04/2024 20:55	Finished	MS (5ppb), IWST-240729B,10r
65	N069306-008A,SAMF	41	1000	Unknown	11/04/2024 21:05	Finished	SAMP,10 mL
66	N069306-008AMS,M\$	42	1000	Unknown	11/04/2024 21:14	Finished	MS (1ppb), IWST-240729B,10r
67	N069306-014A,SAMF	43	1000	Unknown	11/04/2024 21:24	Finished	SAMP,10 mL
68	N069306-014AMS,M\$	44	1000	Unknown	11/04/2024 21:33	Finished	MS (1ppb), IWST-240729B,10r
69	N069306-014AMSD,N	45	1000	Unknown	11/04/2024 21:43	Finished	MSD (1ppb), IWST-240729B,11
70	CCV-6,CCV1,1,	46	1000	Unknown	11/04/2024 21:52	Finished	CCV @10ppb, IWST-240729A
71	CCB-6,CCB,1,	47	1000	Unknown	11/04/2024 22:02	Finished	CCB R241001A
72	BLANK	48	1000	Unknown	11/04/2024 22:11	Finished	BLANK
73	SHUTDOWN	49	1000	Unknown	11/04/2024 22:21	Finished	
74	Eluent: R241101A	50	1000	Unknown	n.a.	Finished	
75	PCR: R241101B	51	1000	Unknown	n.a.	Finished	

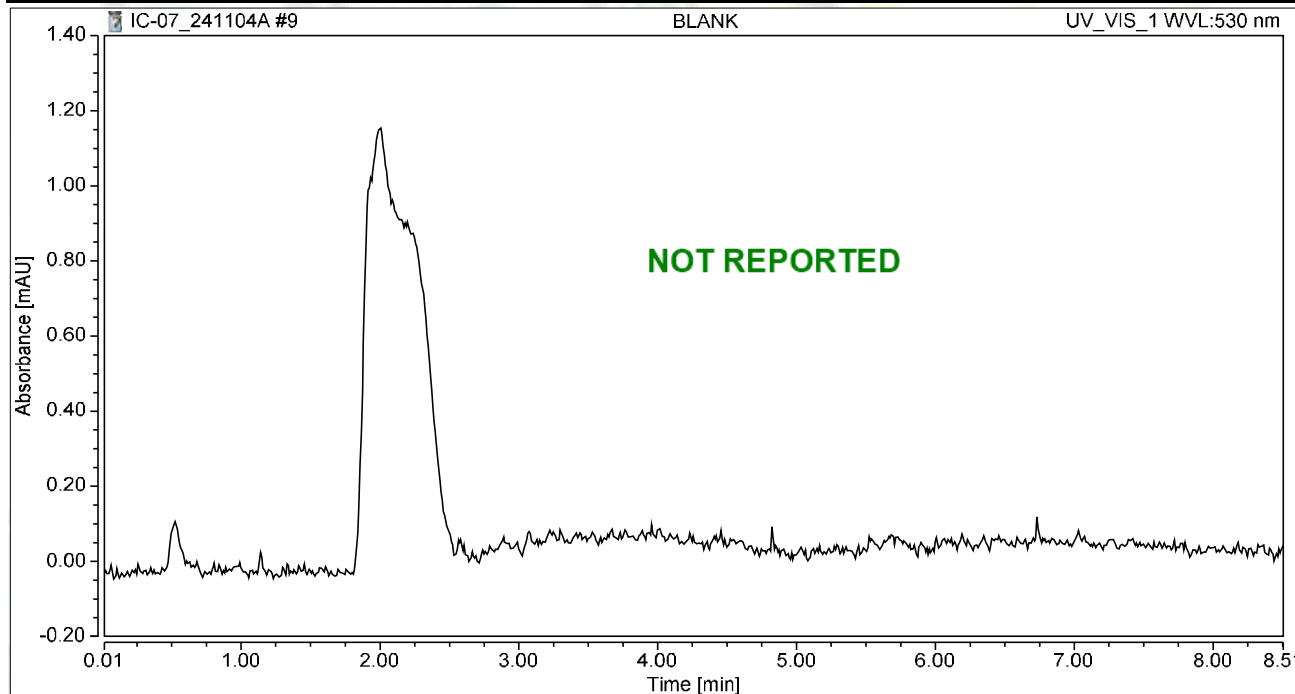


Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 10:47	Sample Weight:	1.0000

Chromatogram



Integration Results

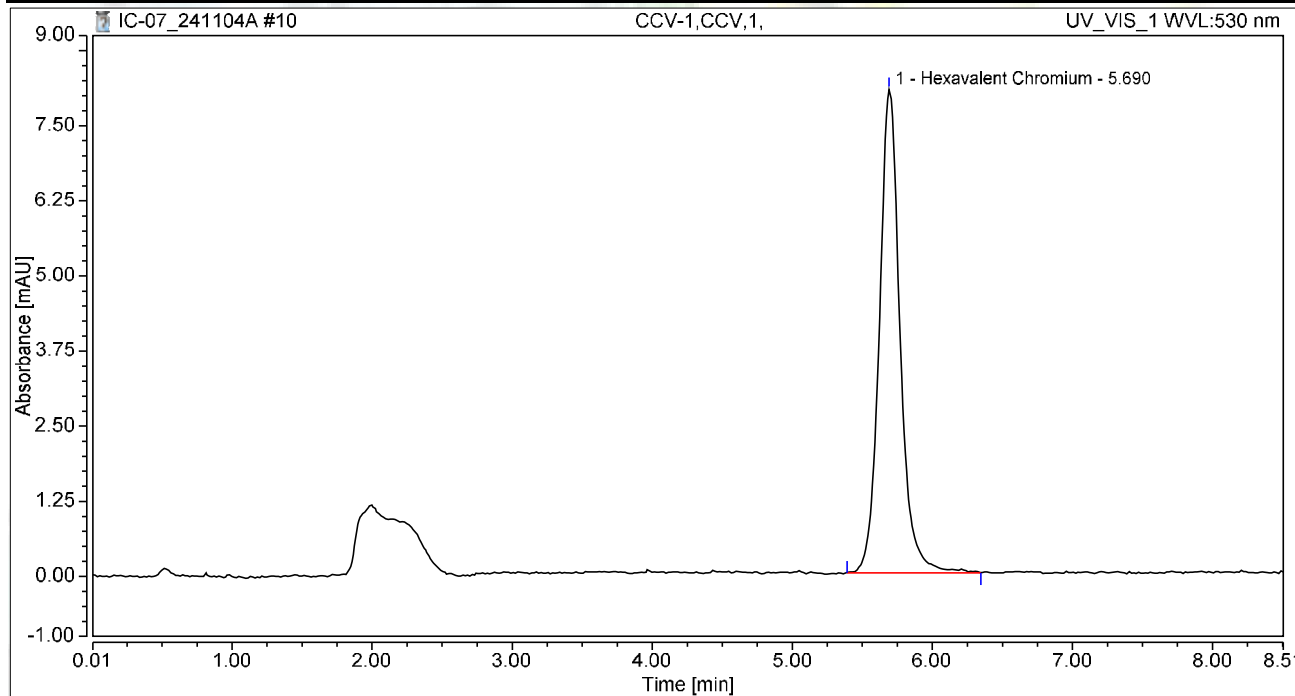
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-1,CCV,1,	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 11:01	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	1.382	8.043	100.00	100.00	4.8702
Total:			1.382	8.043	100.00	100.00	

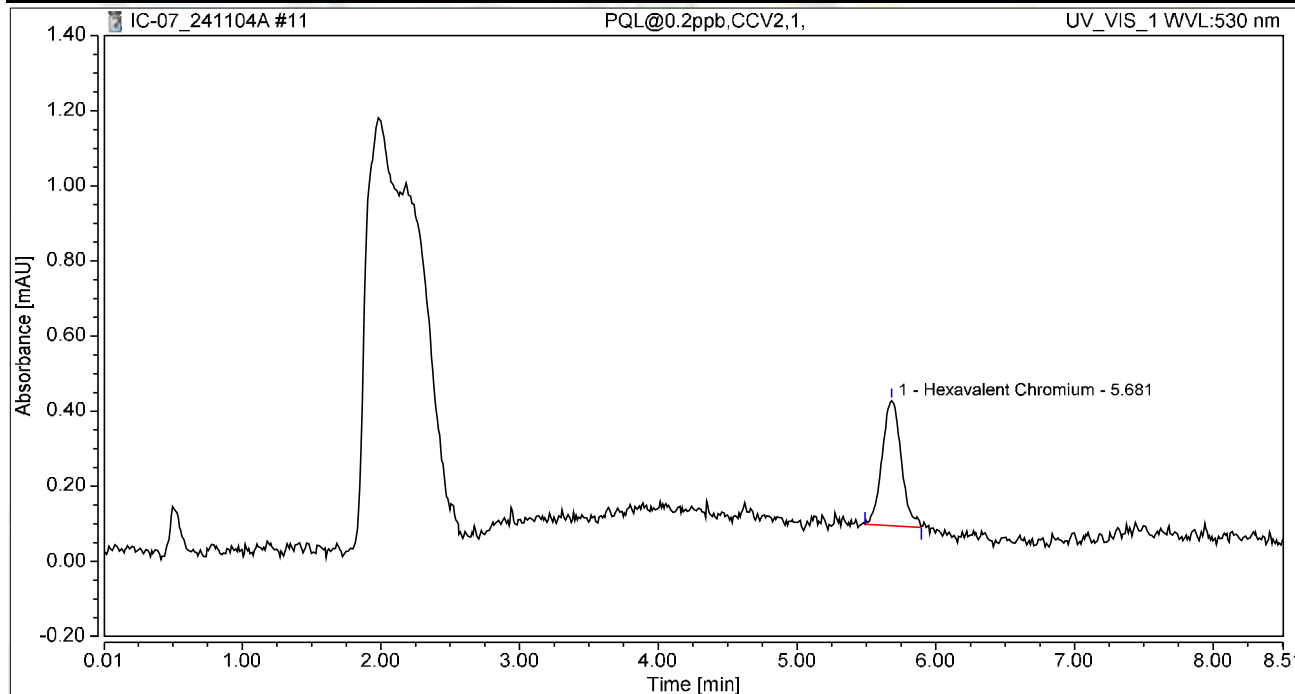
Nancy 11/05/2024

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 11:10	Sample Weight:	1.0000

Chromatogram



Integration Results

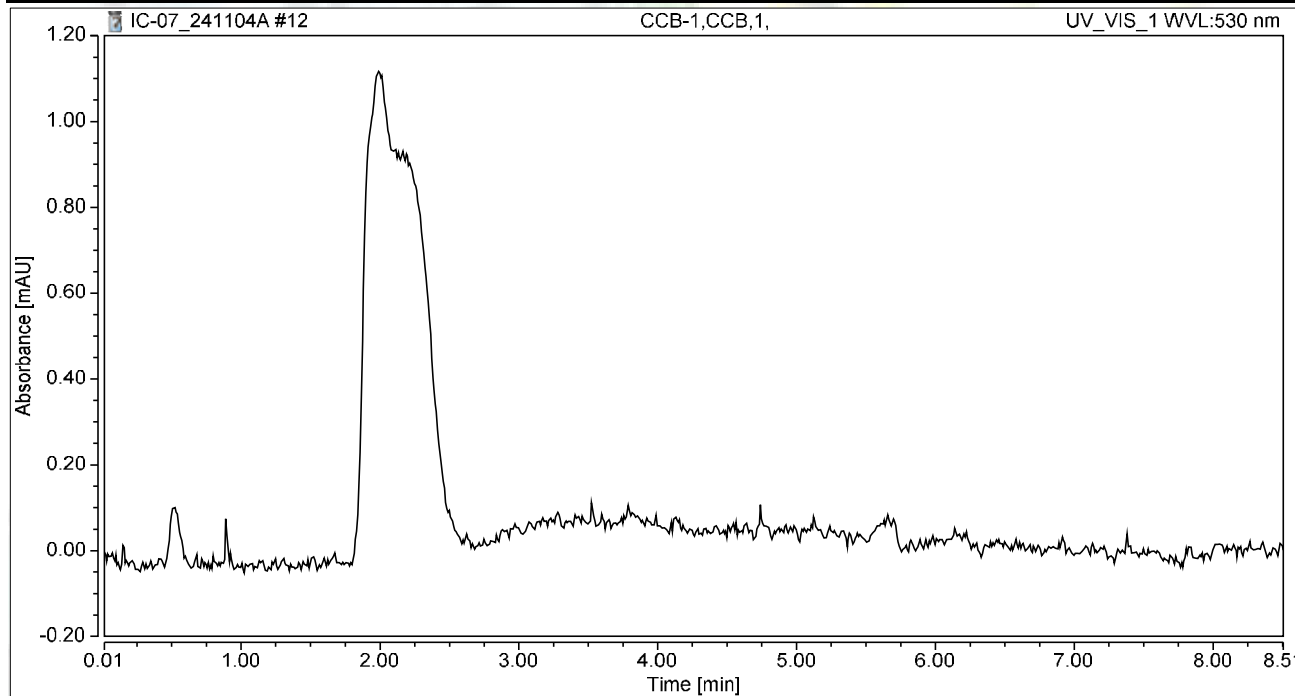
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.053	0.333	100.00	100.00	0.1884
Total:			0.053	0.333	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-1,CCB,1,	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 11:20	Sample Weight:	1.0000

Chromatogram



Integration Results

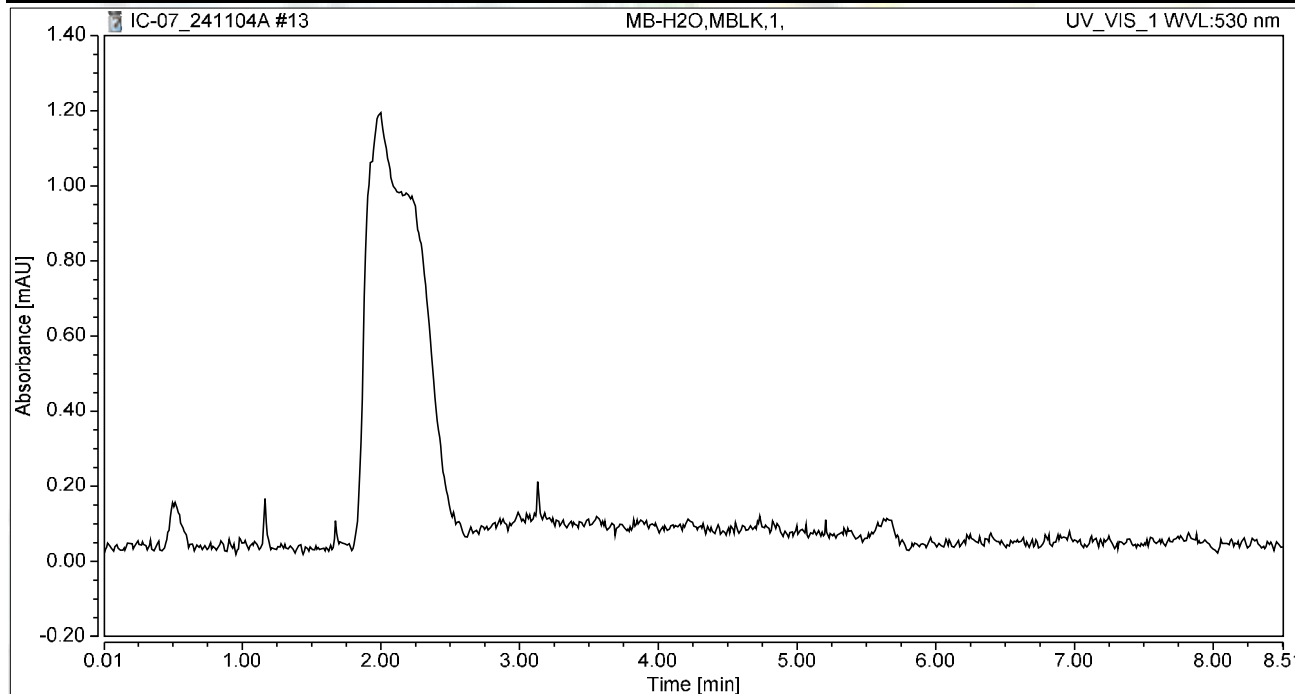
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 11:29	Sample Weight:	1.0000

Chromatogram



Integration Results

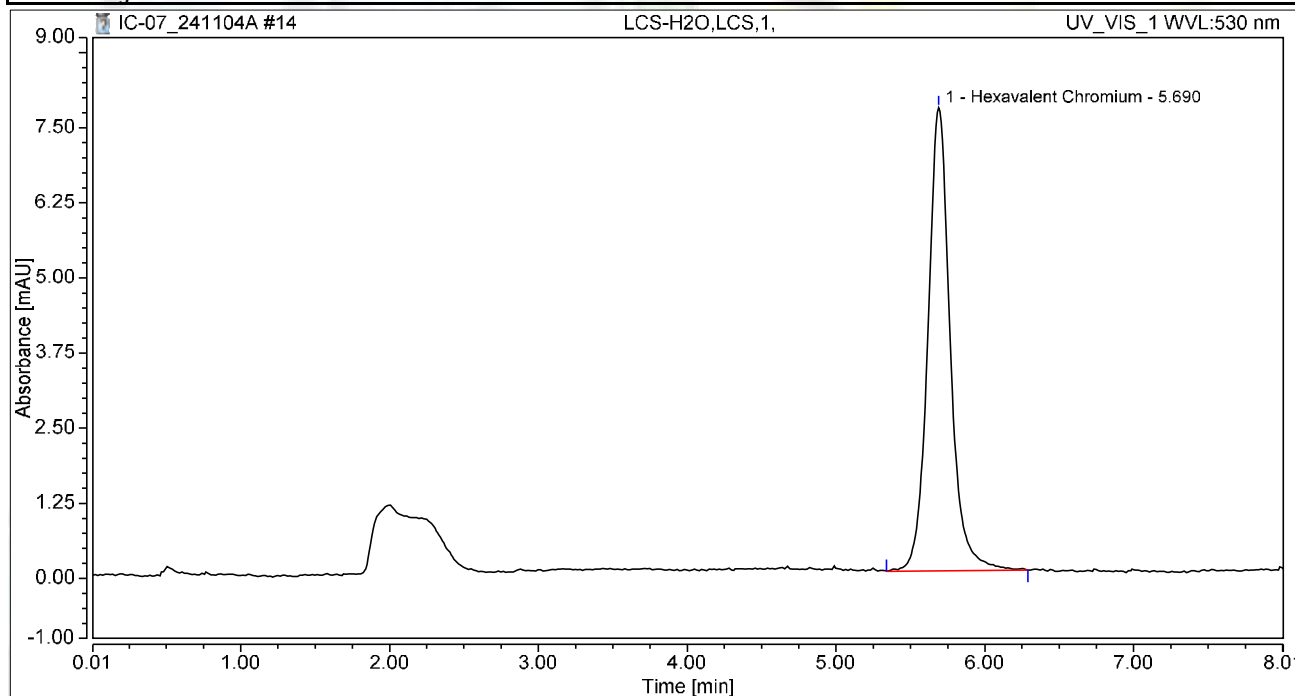
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-H2O,LCS,1,	Run Time (min):	8.00
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 11:39	Sample Weight:	1.0000

Chromatogram



Integration Results

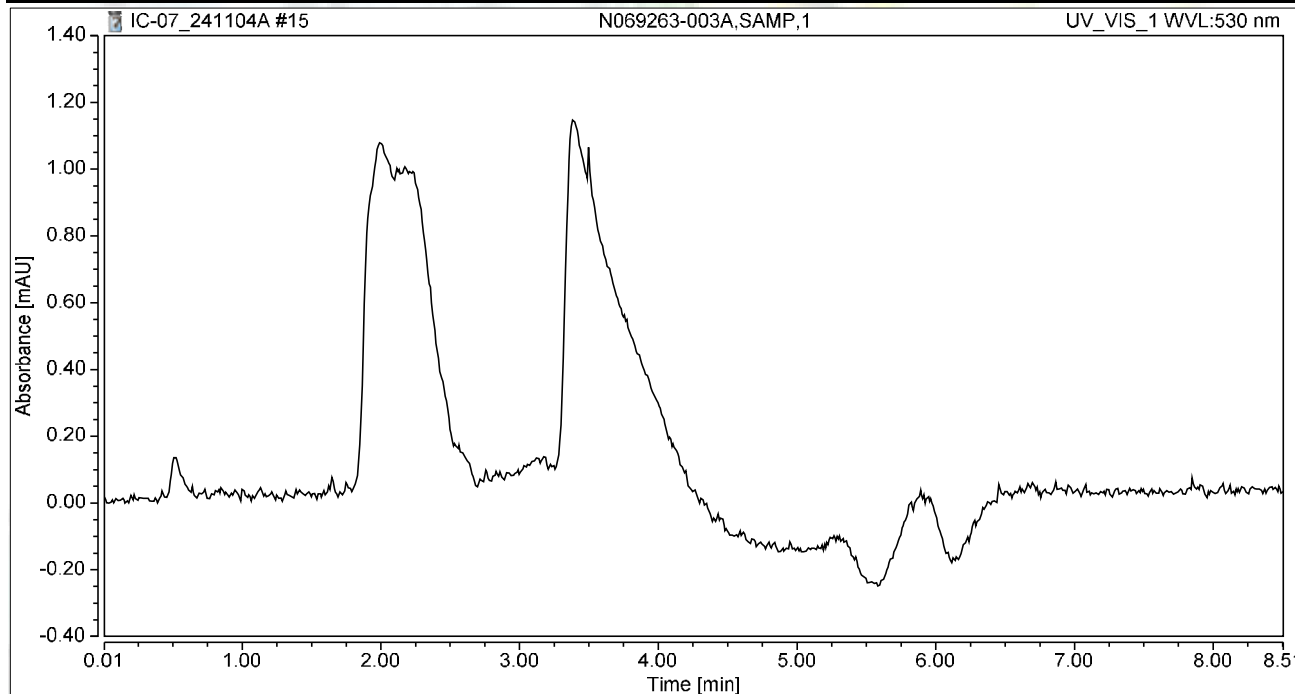
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	1.344	7.710	100.00	100.00	4.7353
Total:			1.344	7.710	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069263-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 12:35	Sample Weight:	1.0000

Chromatogram



Integration Results

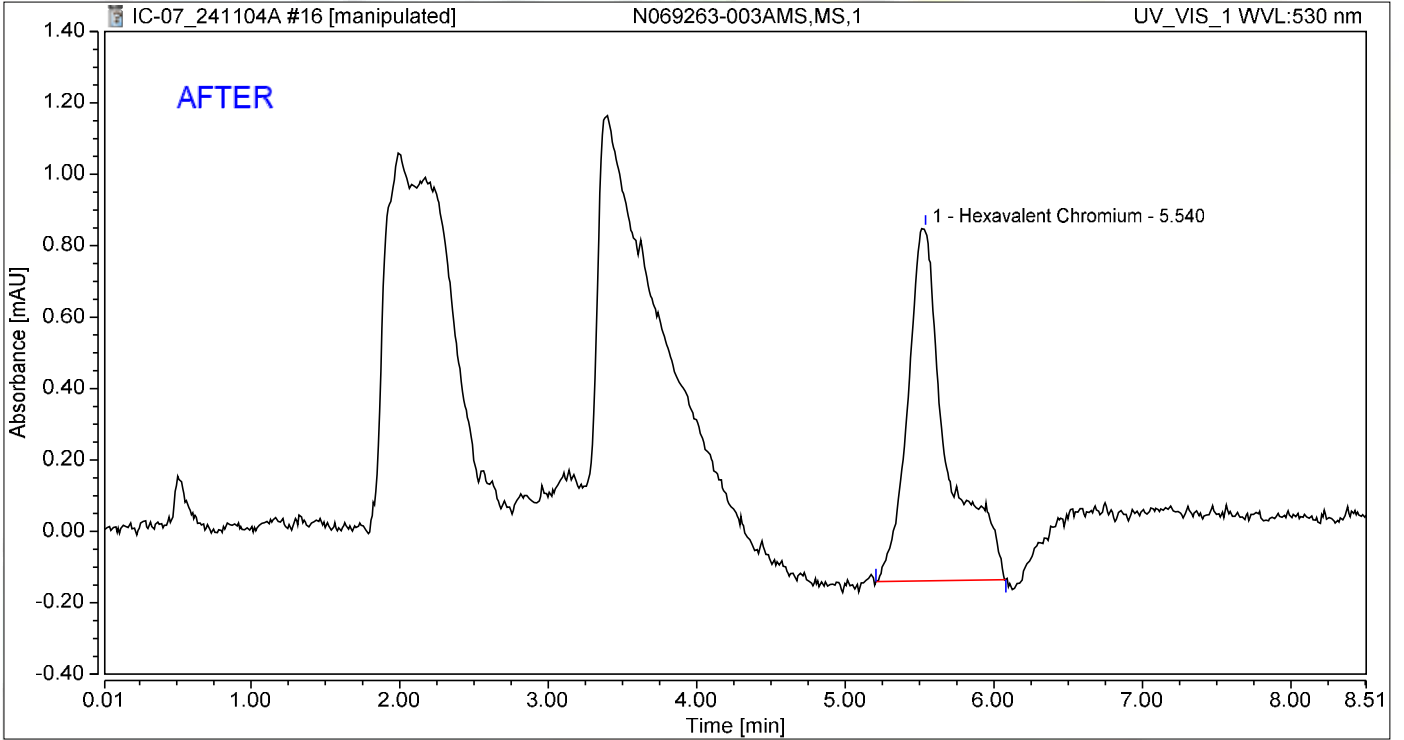
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069263-003AMS,MS,1	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 12:45	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.540	0.299	0.989	100.00	100.00	1.0542
Total:			0.299	0.989	100.00	100.00	

Reviewed by

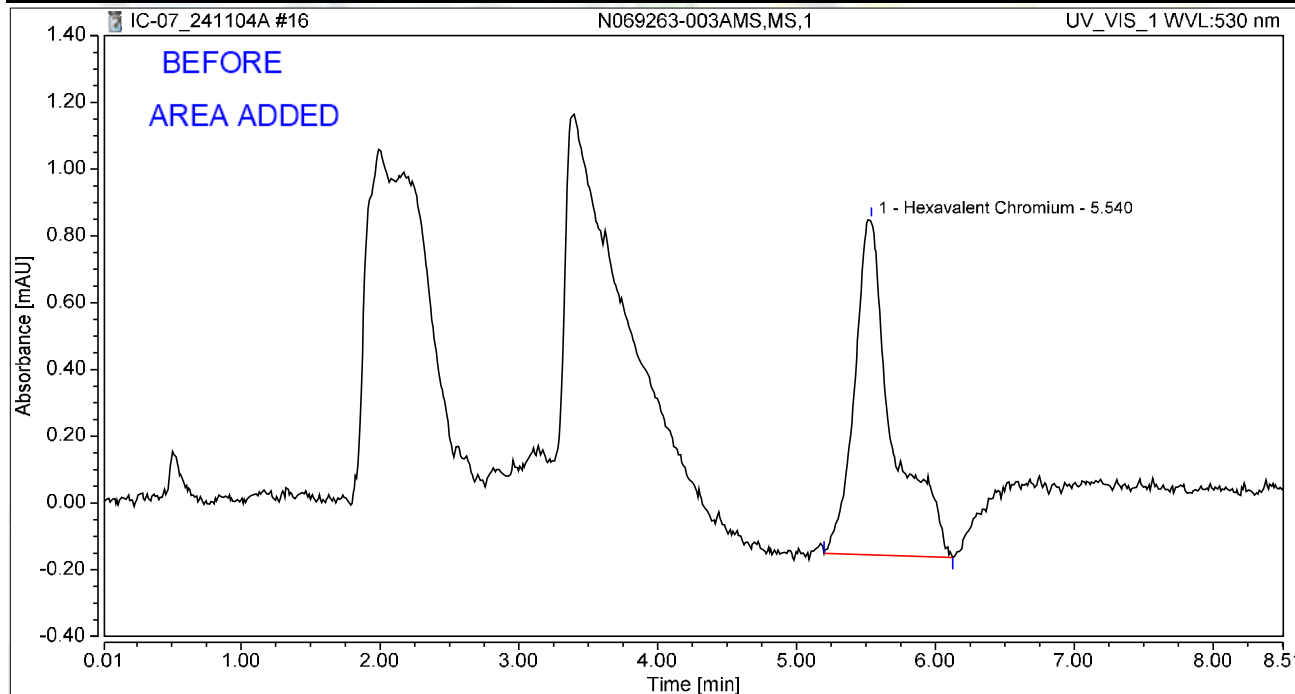
Nancy 11/05/2024

Chromatogram and Results

Injection Details

Injection Name:	N069263-003AMS,MS,1	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 12:45	Sample Weight:	1.0000

Chromatogram



Integration Results

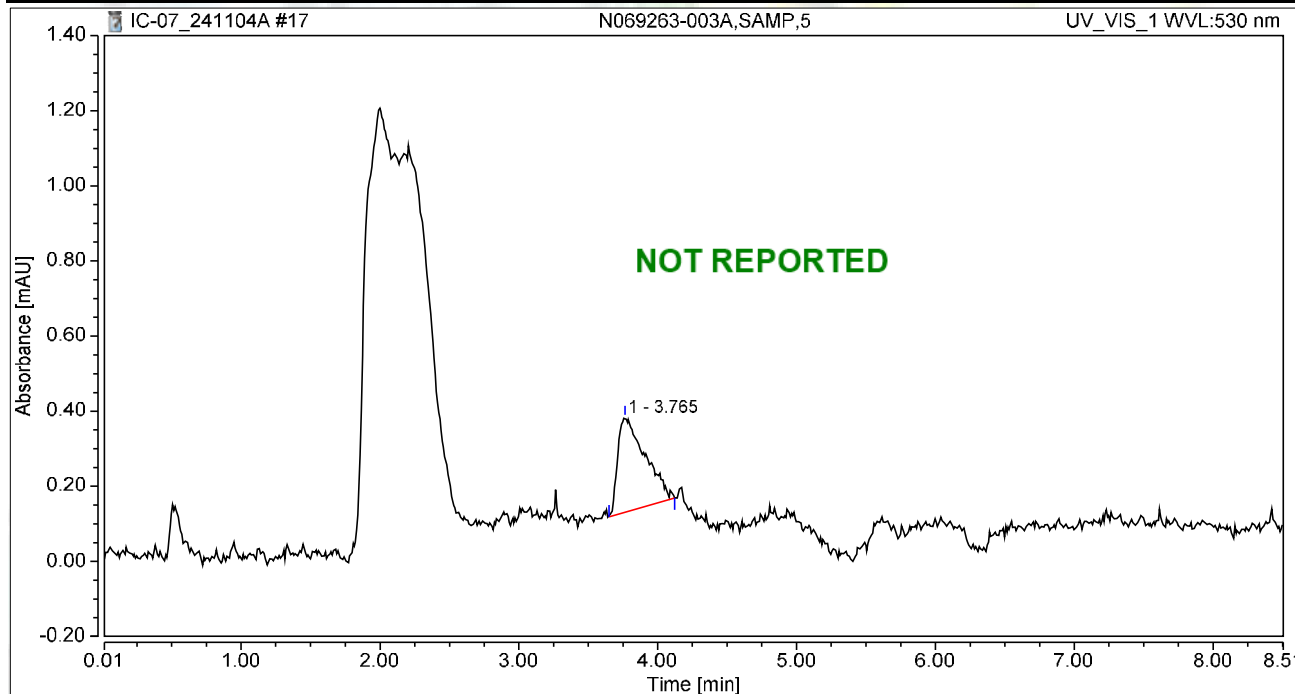
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.540	0.316	1.005	100.00	100.00	1.1135
Total:			0.316	1.005	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069263-003A,SAMP,5	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 12:54	Sample Weight:	1.0000

Chromatogram



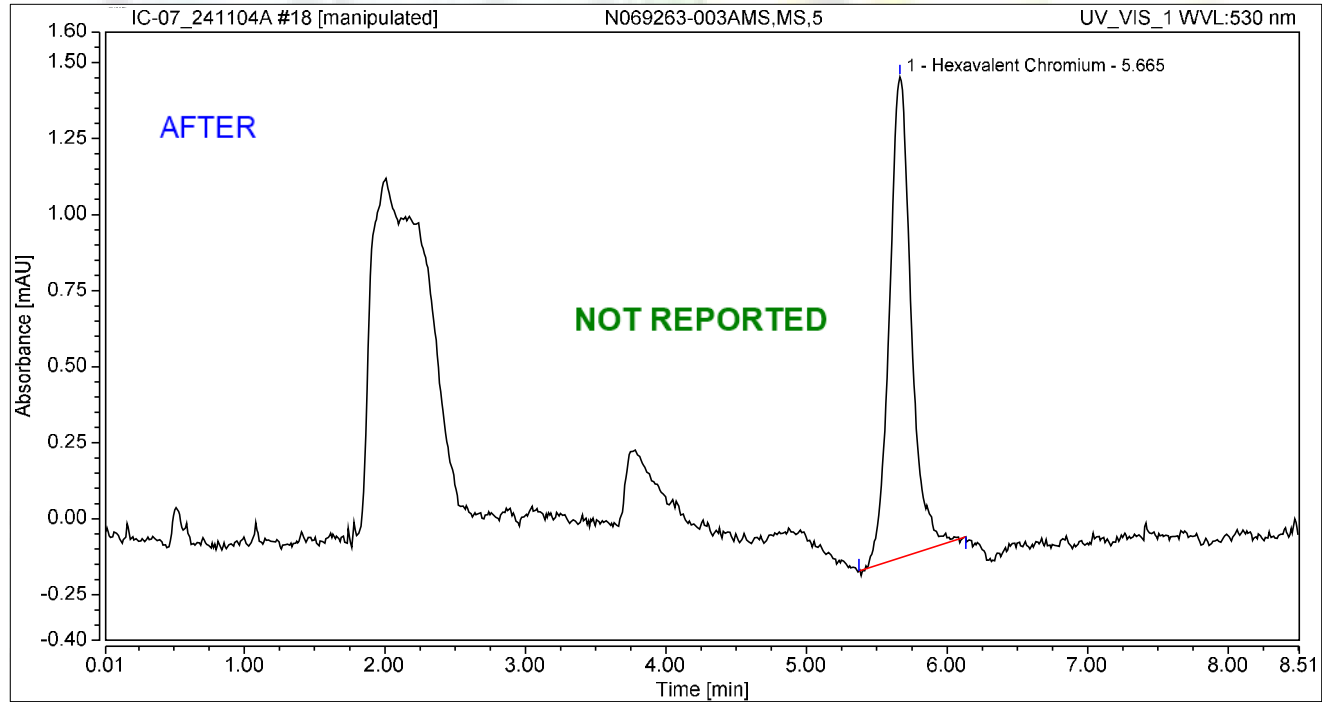
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.765	0.057	0.252	100.00	100.00	n.a.
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.057	0.252	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069263-003AMS,MS,5	Run Time (min): 8.49
Vial Number:	5	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	04/Nov/24 13:04	Sample Weight: 1.0000

Chromatogram



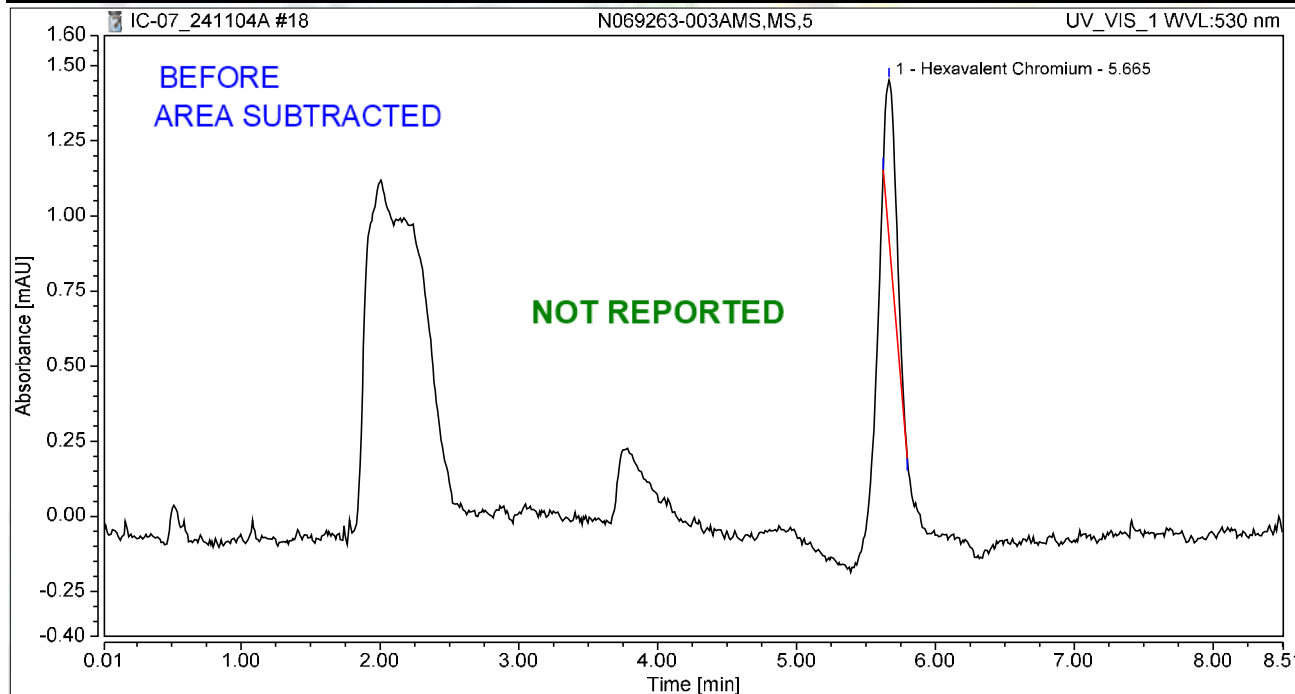
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.283	1.581	100.00	100.00	0.9989
Total:			0.283	1.581	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069263-003AMS,MS,5	Run Time (min):	8.49
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 13:04	Sample Weight:	1.0000

Chromatogram



Integration Results

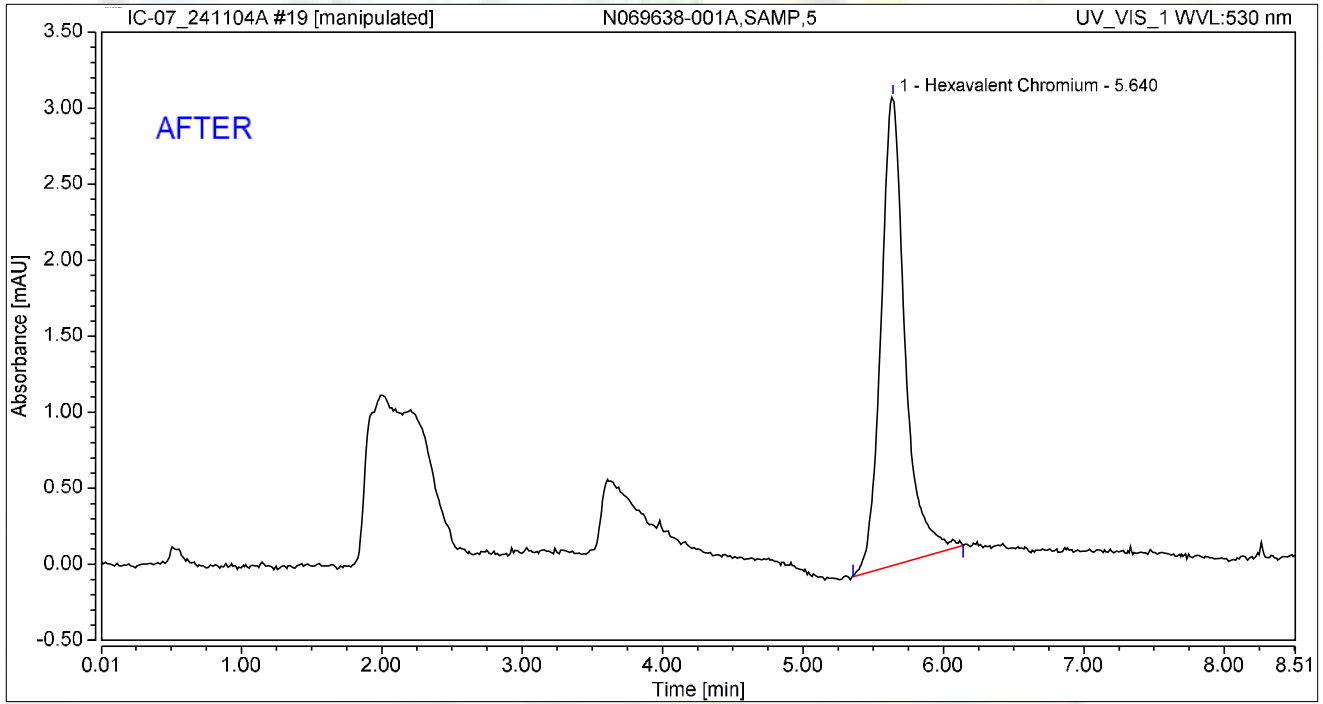
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.051	0.527	100.00	100.00	0.1792
Total:			0.051	0.527	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-001A,SAMP,5	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 13:13	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.640	0.613	3.081	100.00	100.00	2.1600
Total:			0.613	3.081	100.00	100.00	

Reviewed by

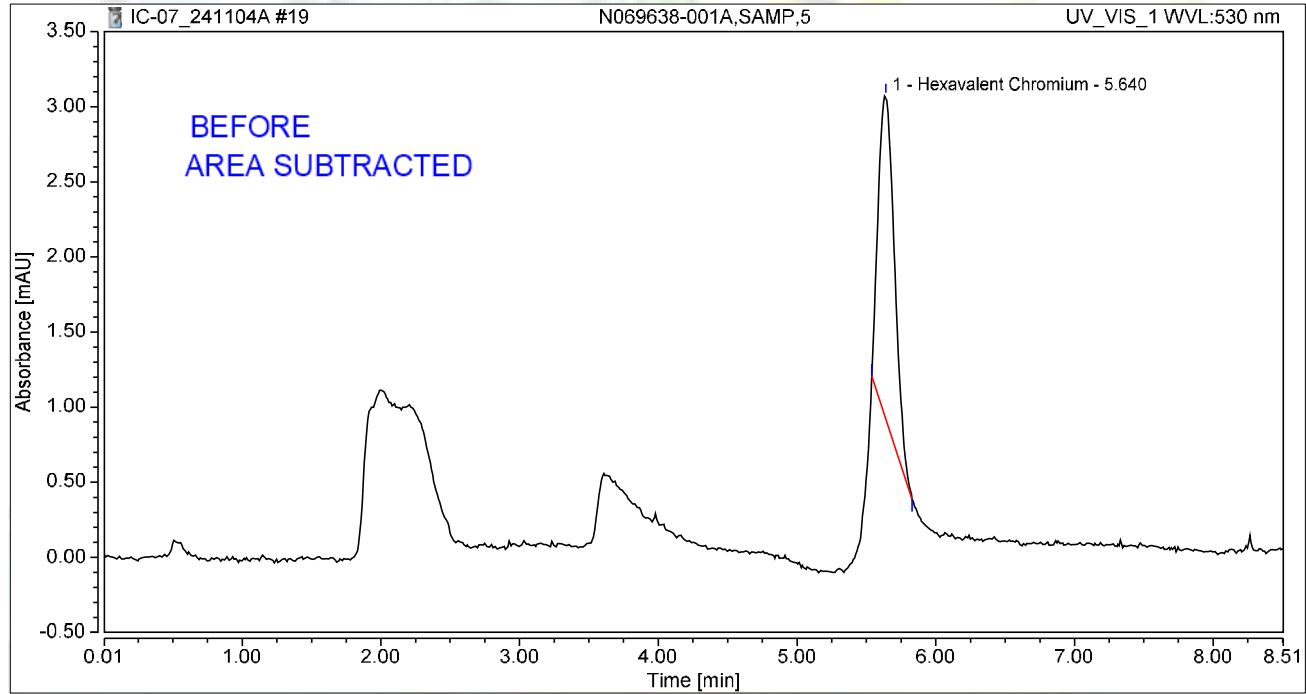
Mony 11/05/2024

Chromatogram and Results

Injection Details

Injection Name:	N069638-001A,SAMP,5	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 13:13	Sample Weight:	1.0000

Chromatogram



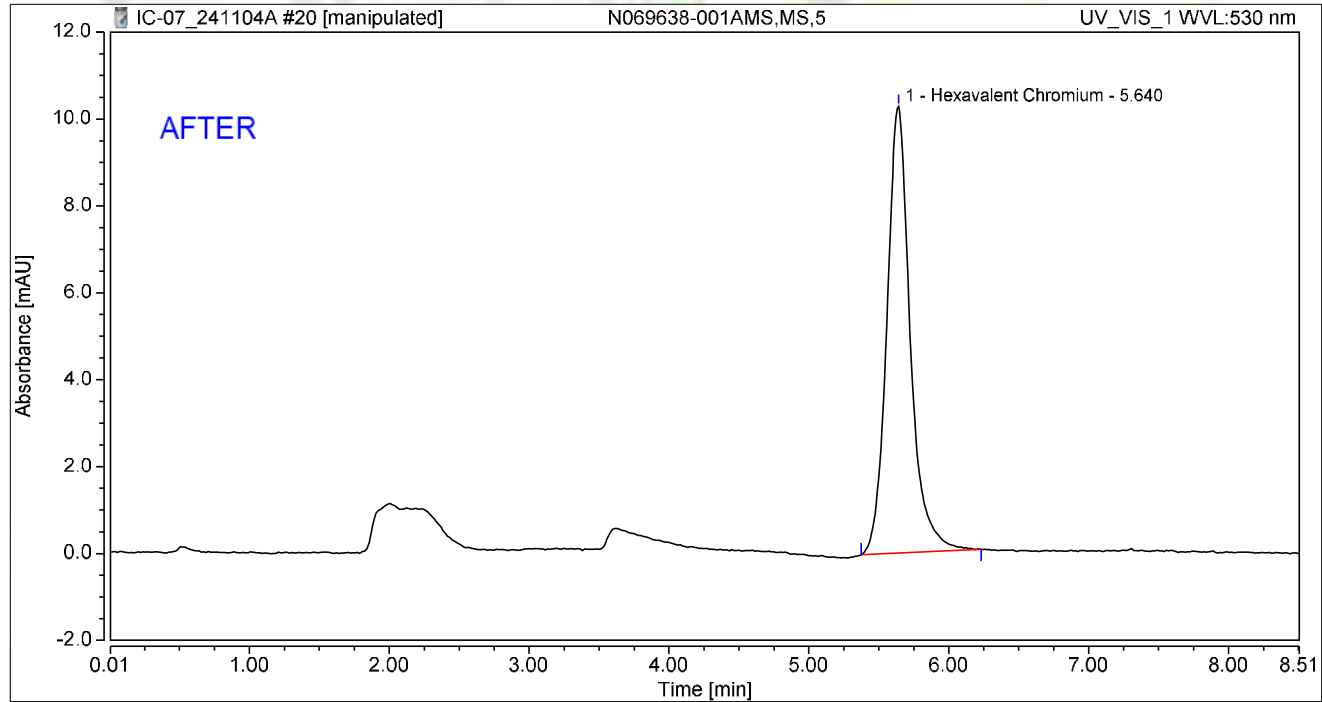
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.640	0.290	2.149	100.00	100.00	1.0204
Total:			0.290	2.149	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069638-001AMS,MS,5	Run Time (min): 8.50
Vial Number:	7	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	04/Nov/24 13:23	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.640	1.989	10.278	100.00	100.00	7.0110
Total:			1.989	10.278	100.00	100.00	

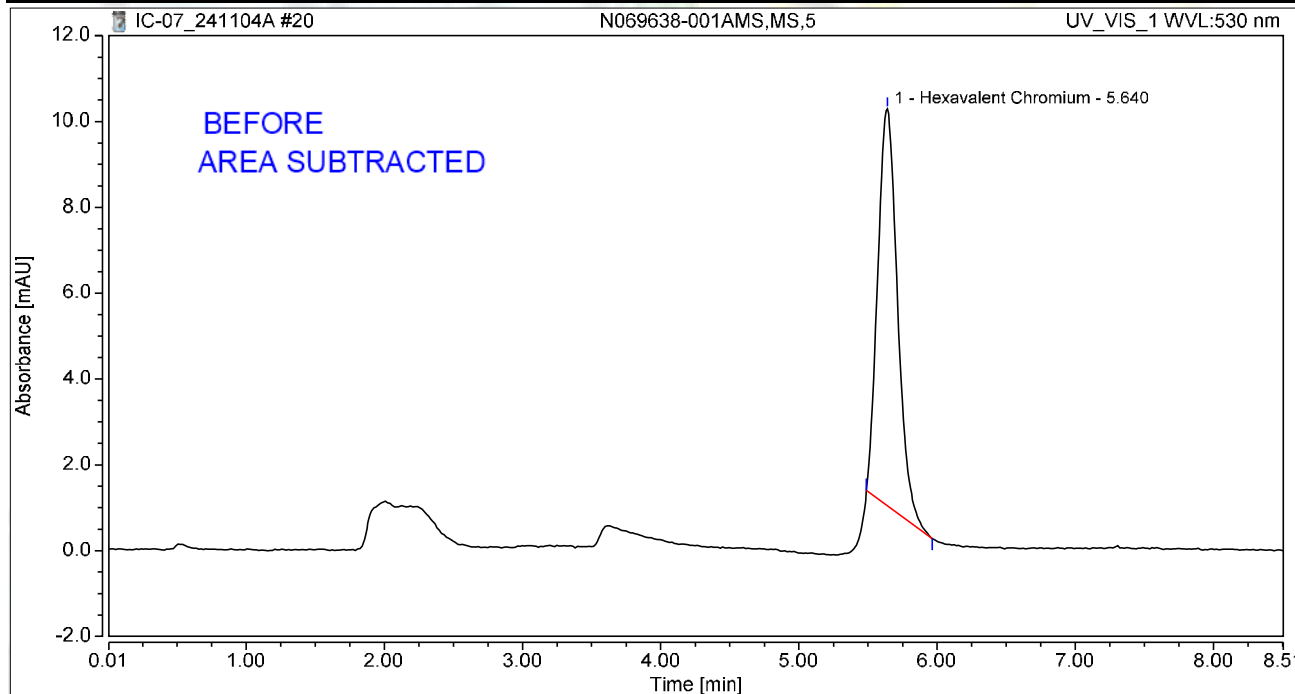
Reviewed by
 11/05/2024

Chromatogram and Results

Injection Details

Injection Name:	N069638-001AMS,MS,5	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 13:23	Sample Weight:	1.0000

Chromatogram



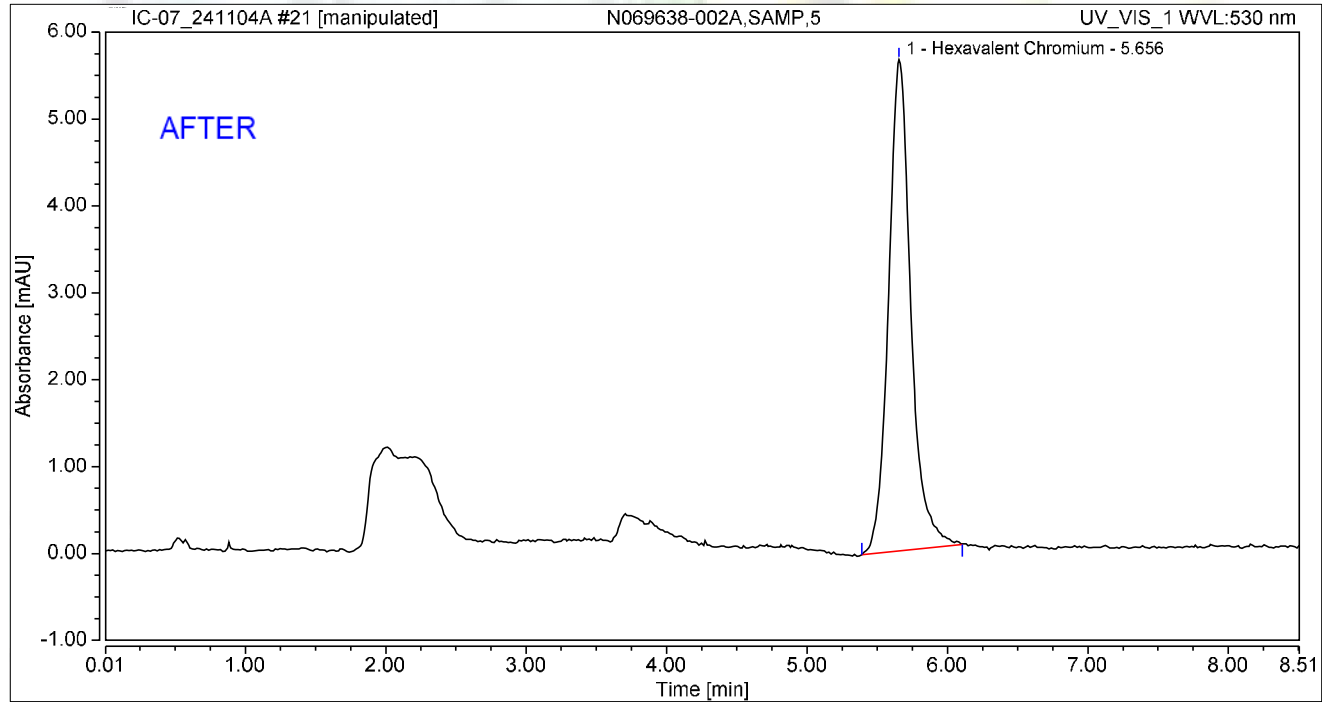
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.640	1.530	9.236	100.00	100.00	5.3918
Total:			1.530	9.236	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069638-002A,SAMP,5	Run Time (min): 8.50
Vial Number:	8	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	04/Nov/24 13:32	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.656	1.041	5.652	100.00	100.00	3.6702
Total:			1.041	5.652	100.00	100.00	

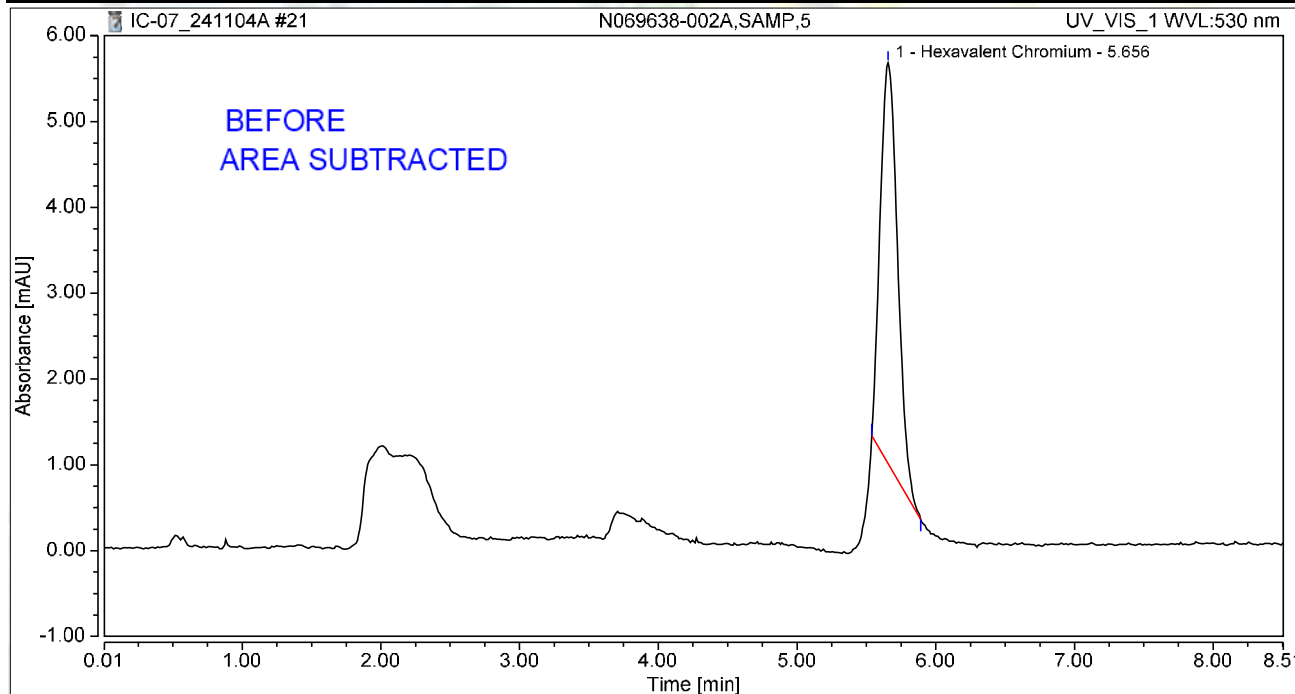
Reviewed by
 11/05/2024

Chromatogram and Results

Injection Details

Injection Name:	N069638-002A,SAMP,5	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 13:32	Sample Weight:	1.0000

Chromatogram



Integration Results

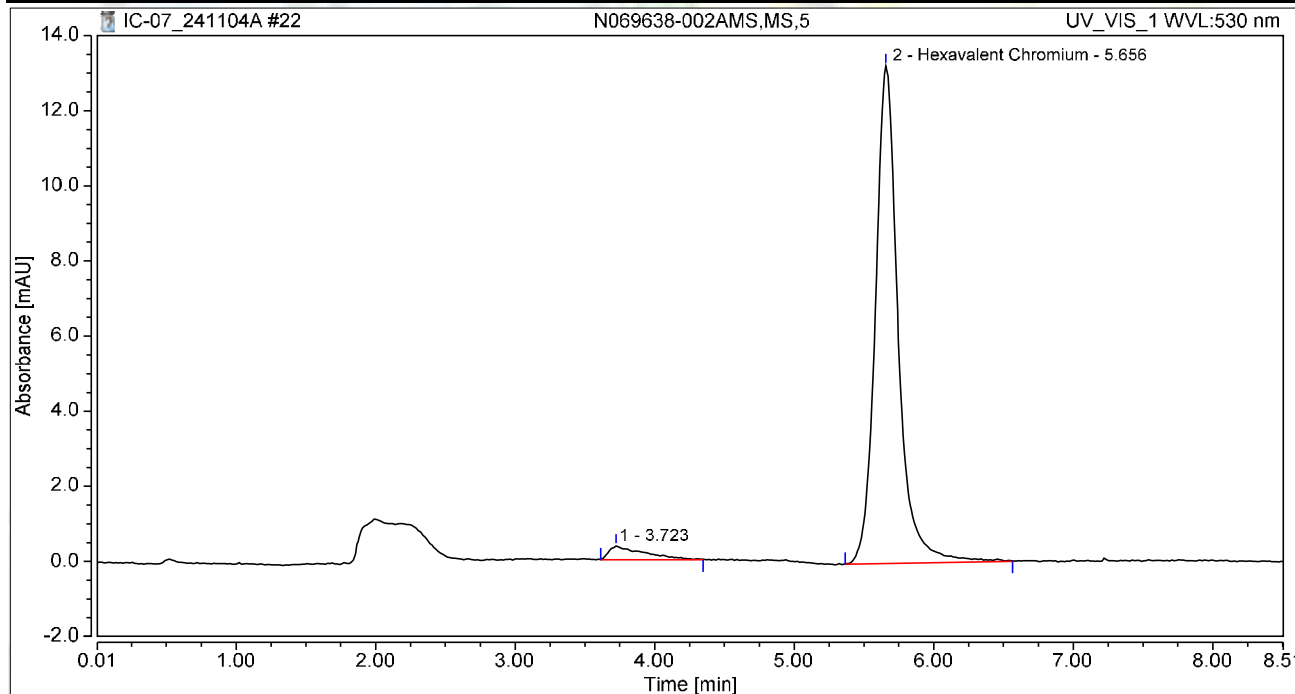
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.656	0.680	4.665	100.00	100.00	2.3976
Total:			0.680	4.665	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 13:42	Sample Weight:	1.0000

Chromatogram



Integration Results

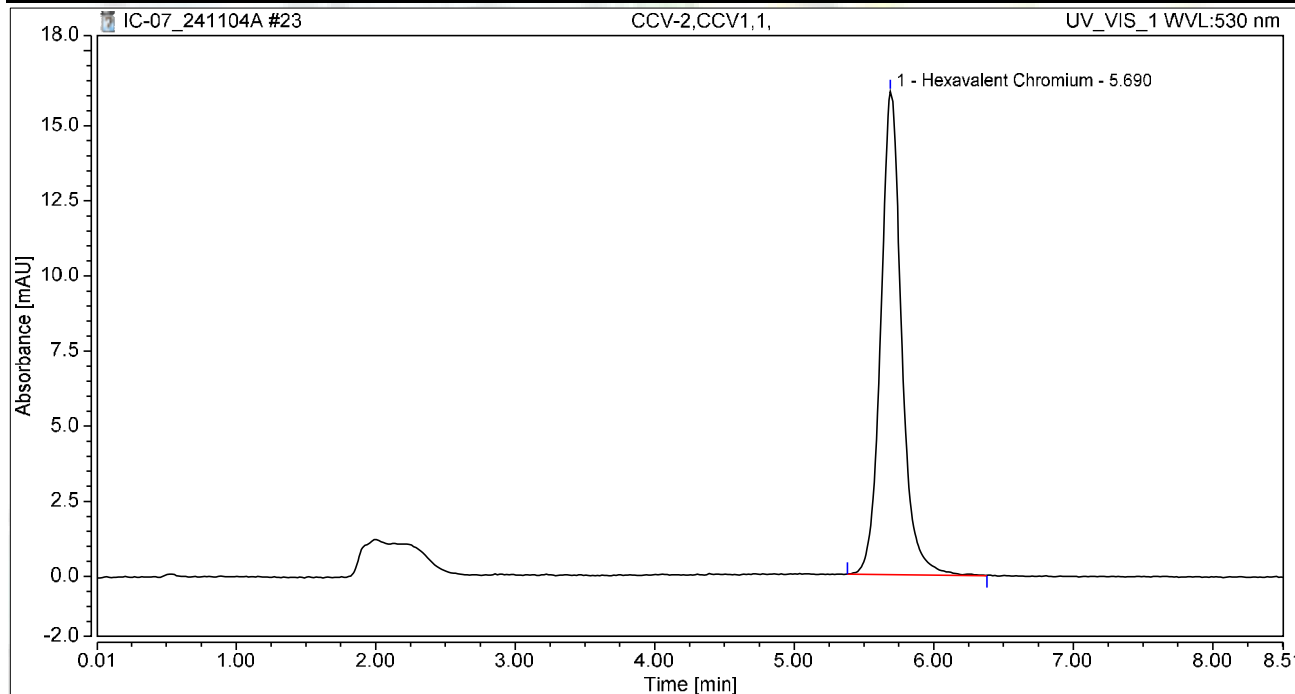
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.723	0.106	0.362	4.07	2.66	n.a.
2	Hexavalent Chromium	5.656	2.505	13.251	95.93	97.34	8.8287
Total:			2.611	13.614	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-2,CCV1,1,	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 13:51	Sample Weight:	1.0000

Chromatogram



Integration Results

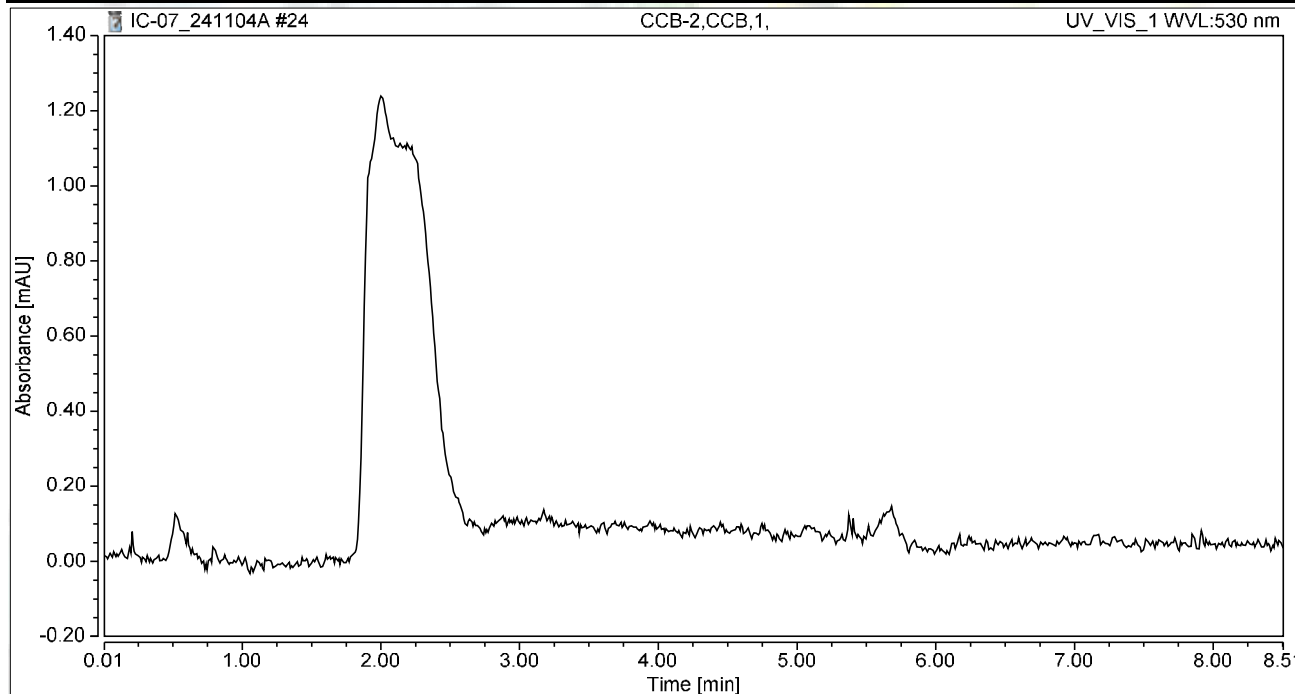
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	2.778	16.072	100.00	100.00	9.7899
Total:			2.778	16.072	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-2,CCB,1,	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 14:01	Sample Weight:	1.0000

Chromatogram



Integration Results

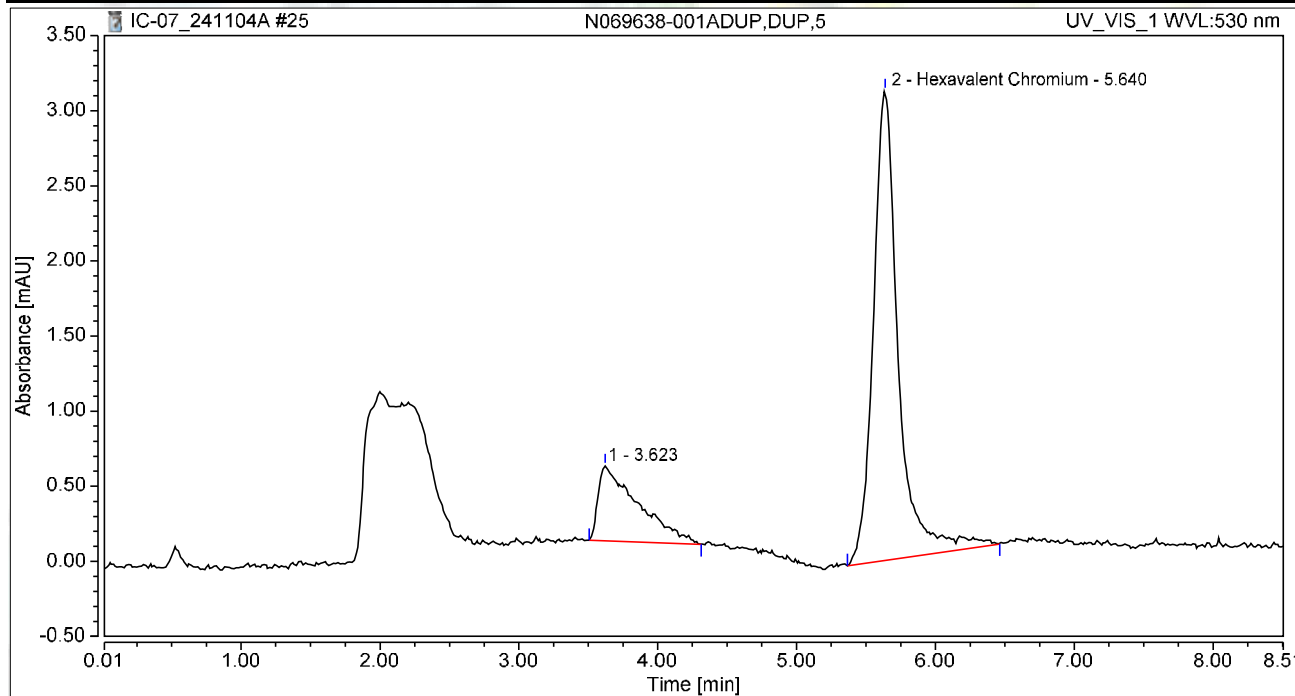
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-001ADUP,DUP,5	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 14:43	Sample Weight:	1.0000

Chromatogram



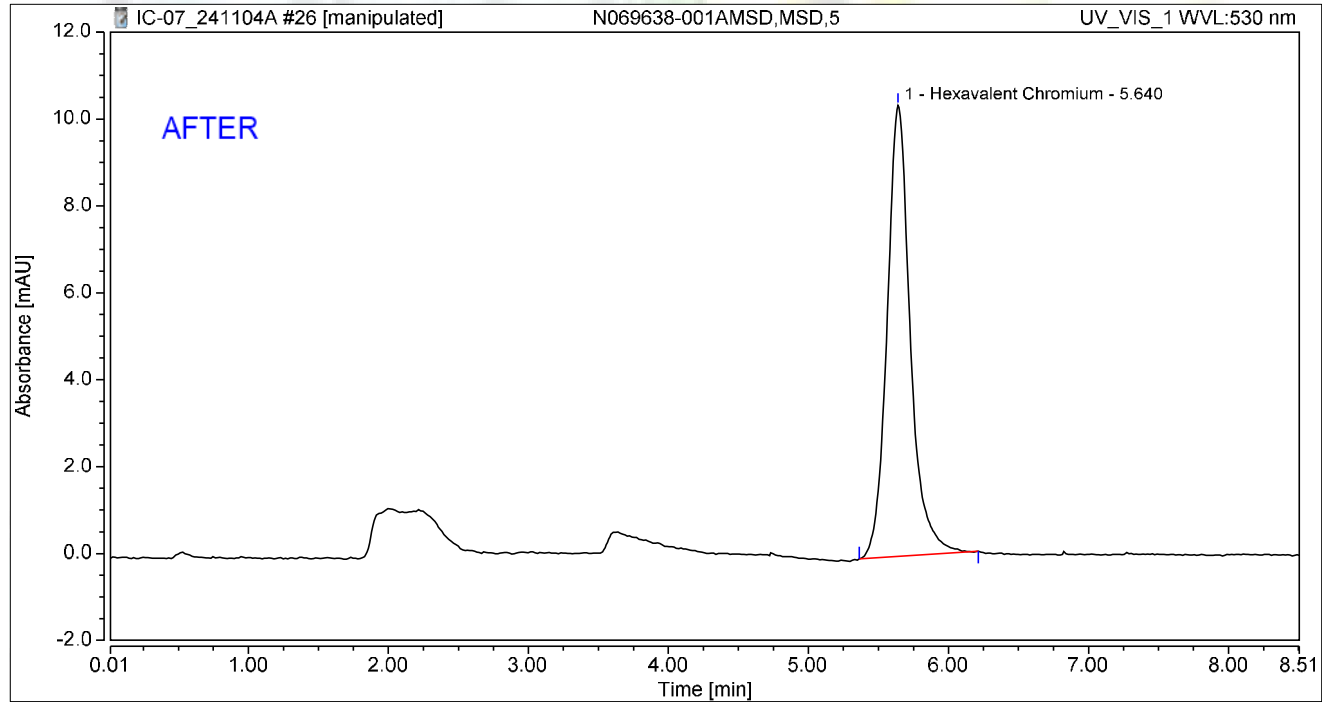
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.623	0.168	0.500	20.44	13.78	n.a.
2	Hexavalent Chromium	5.640	0.652	3.126	79.56	86.22	2.2981
Total:			0.820	3.626	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069638-001AMSD,MSD,5	Run Time (min): 8.49
Vial Number:	2	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	04/Nov/24 14:53	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.640	1.990	10.379	100.00	100.00	7.0121
Total:			1.990	10.379	100.00	100.00	

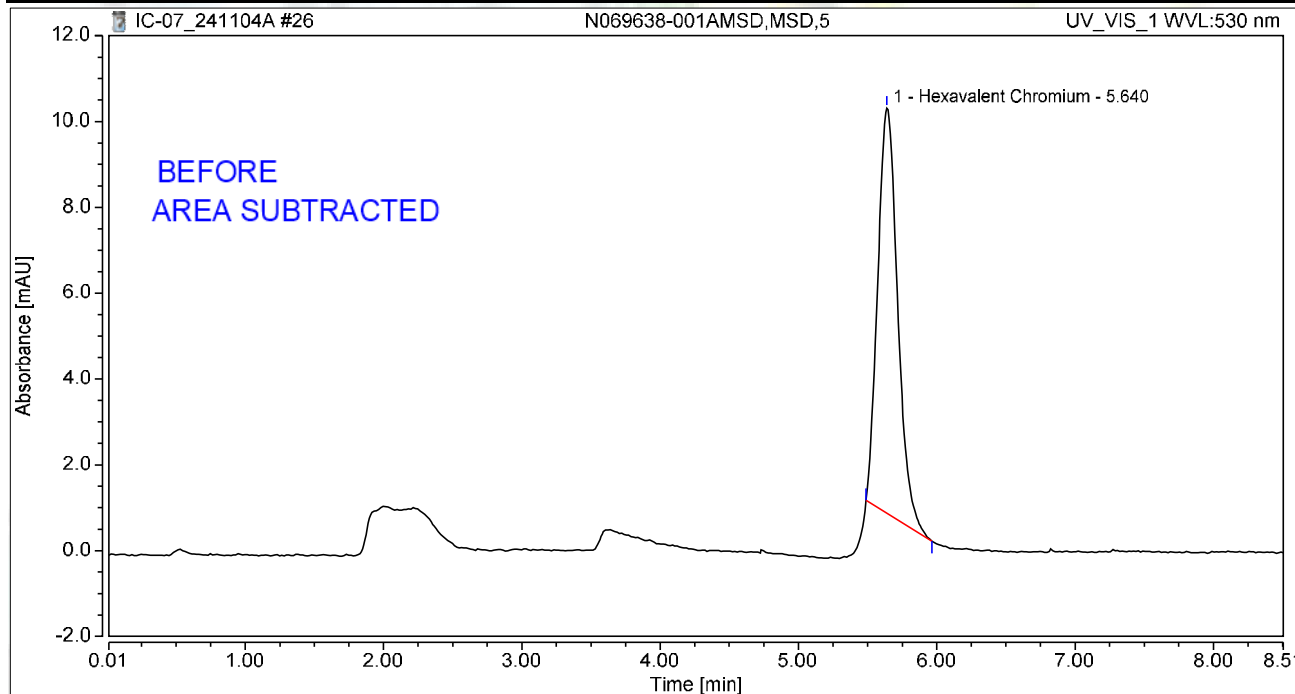
Reviewed by
Nancy 11/05/2024

Chromatogram and Results

Injection Details

Injection Name:	N069638-001AMSD,MSD,5	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 14:53	Sample Weight:	1.0000

Chromatogram



Integration Results

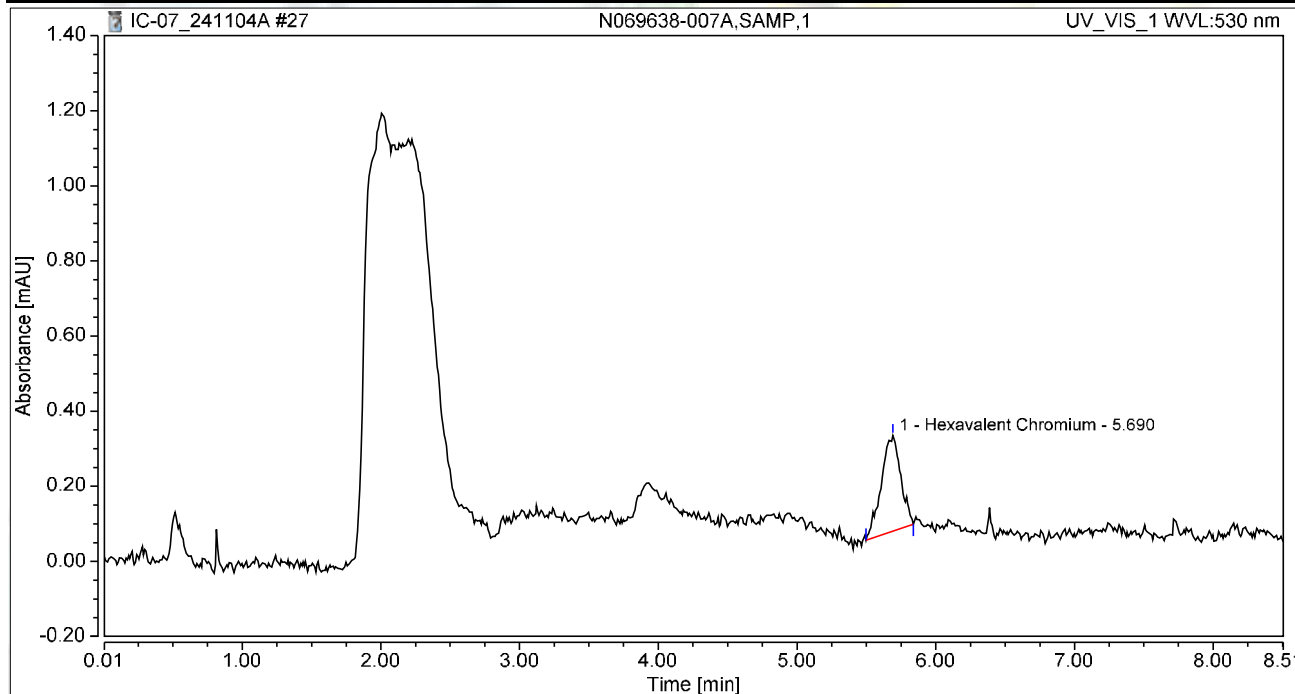
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.640	1.576	9.441	100.00	100.00	5.5557
Total:			1.576	9.441	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-007A,SAMP,1	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 15:03	Sample Weight:	1.0000

Chromatogram



Integration Results

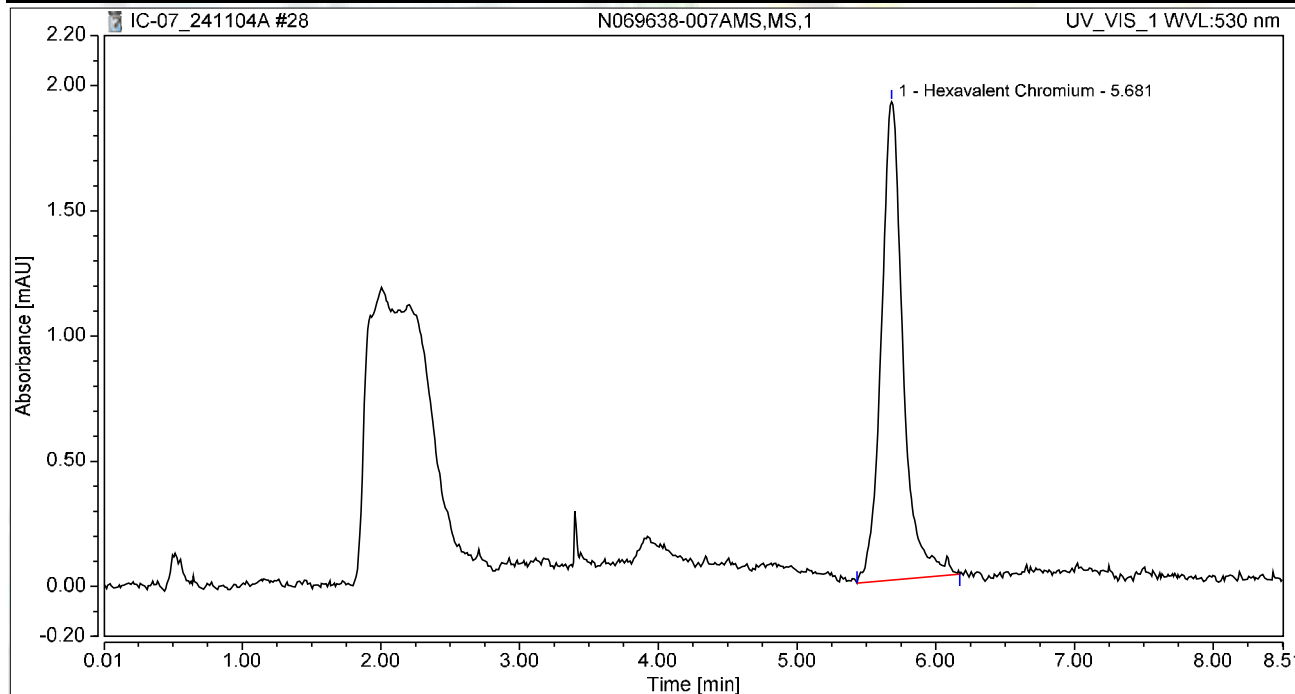
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.041	0.255	100.00	100.00	0.1455
Total:			0.041	0.255	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-007AMS,MS,1	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 15:12	Sample Weight:	1.0000

Chromatogram



Integration Results

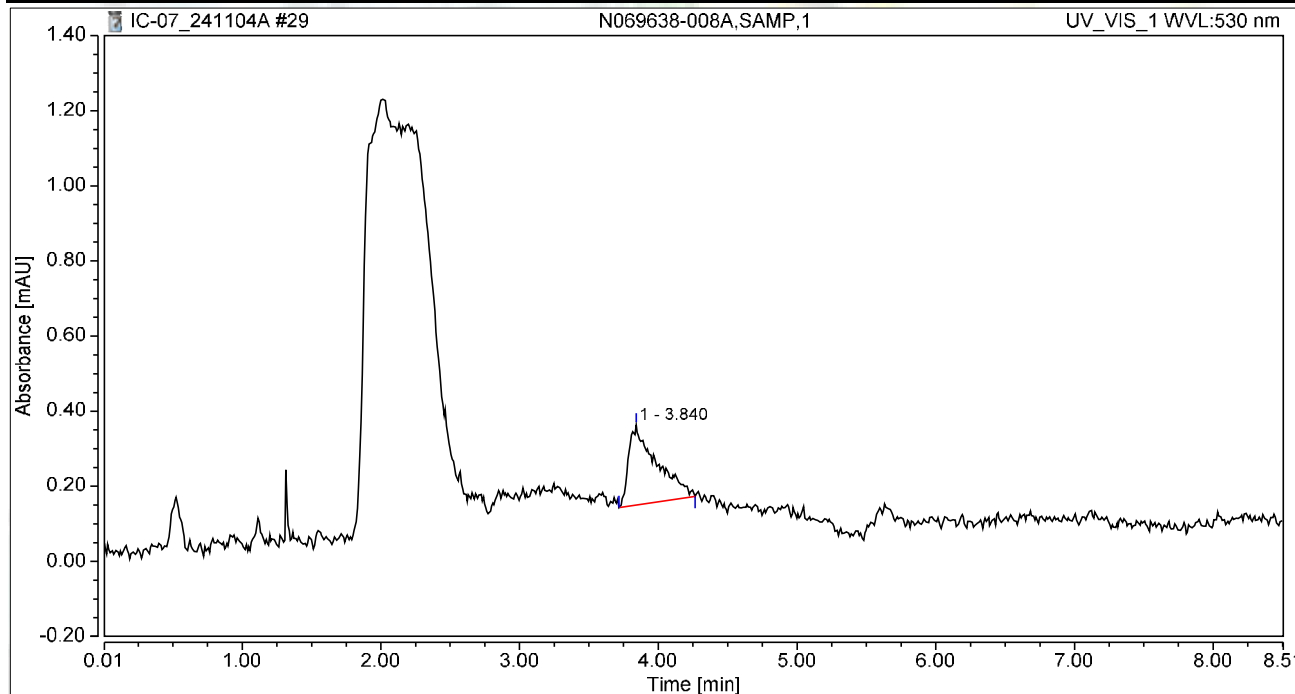
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.348	1.910	100.00	100.00	1.2275
Total:			0.348	1.910	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-008A,SAMP,1	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 15:22	Sample Weight:	1.0000

Chromatogram



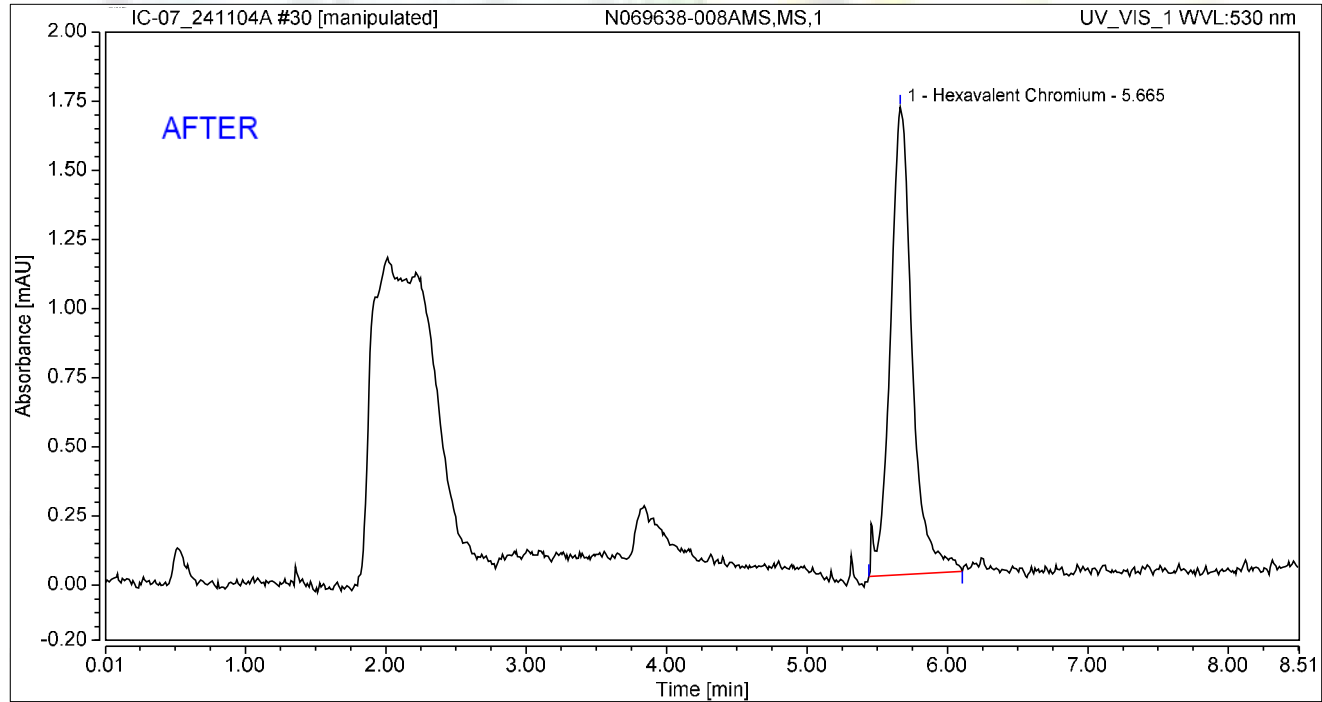
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.840	0.050	0.213	100.00	100.00	n.a.
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.050	0.213	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069638-008AMS,MS,1	Run Time (min): 8.50
Vial Number:	6	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	04/Nov/24 15:31	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.306	1.692	100.00	100.00	1.0789
Total:			0.306	1.692	100.00	100.00	

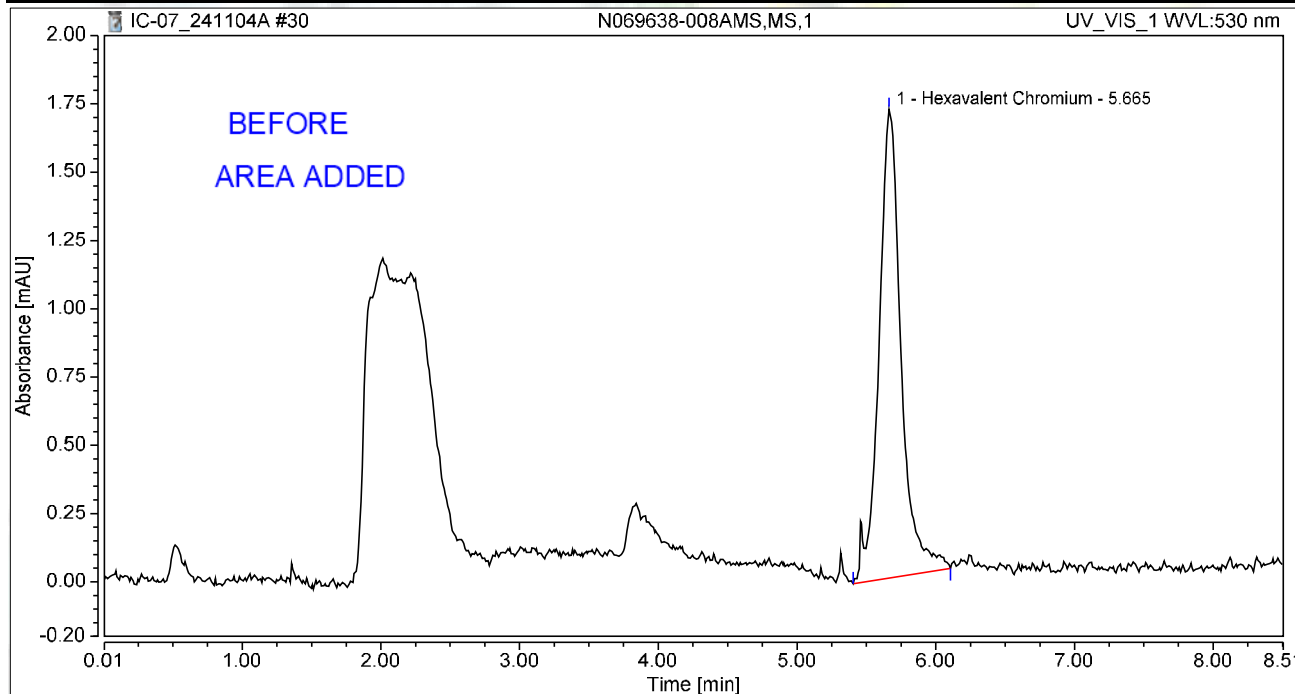
Reviewed by
 11/05/2024

Chromatogram and Results

Injection Details

Injection Name:	N069638-008AMS,MS,1	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 15:31	Sample Weight:	1.0000

Chromatogram



Integration Results

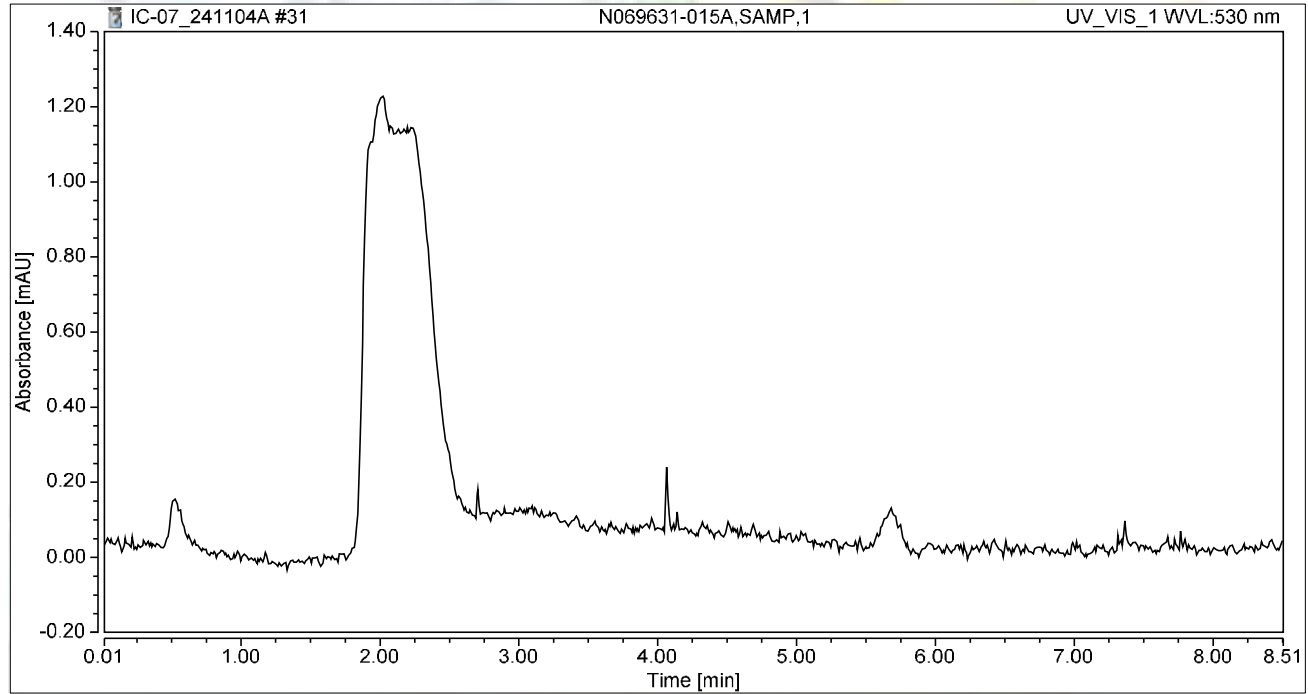
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.319	1.716	100.00	100.00	1.1233
Total:			0.319	1.716	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-015A,SAMP,1	Run Time (min):	8.49
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 15:41	Sample Weight:	1.0000

Chromatogram



Integration Results

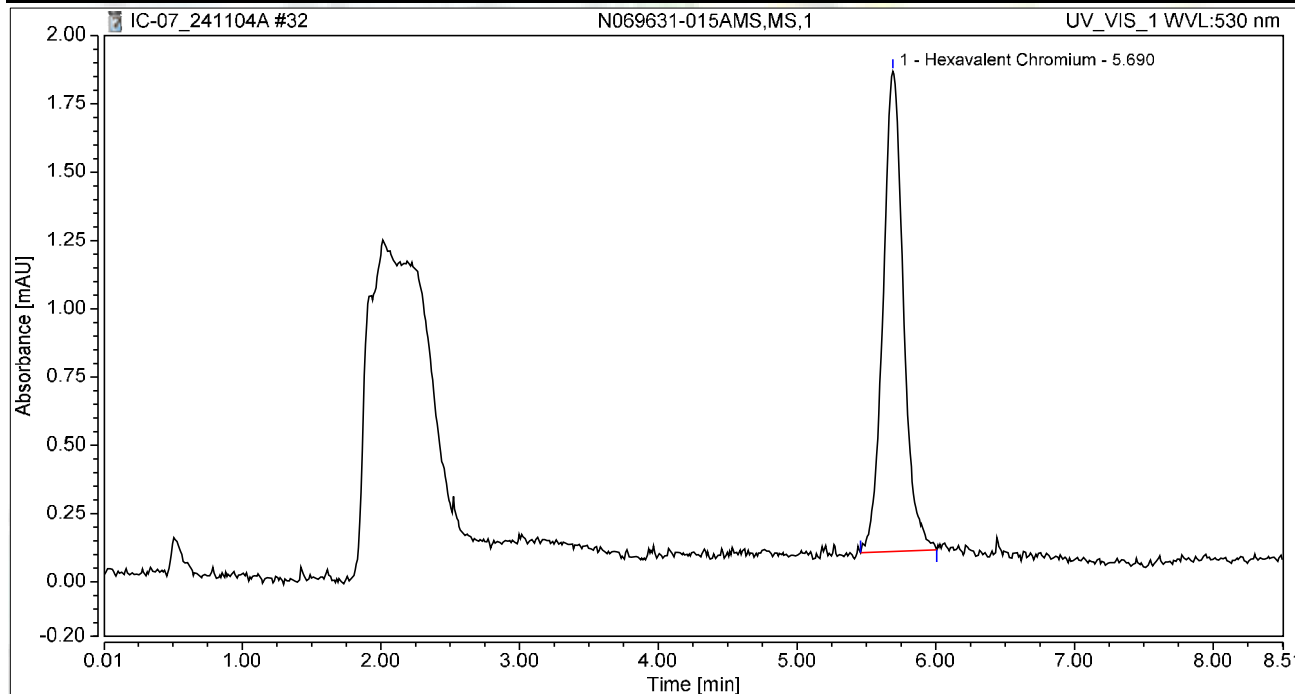
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-015AMS,MS,1	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 15:50	Sample Weight:	1.0000

Chromatogram



Integration Results

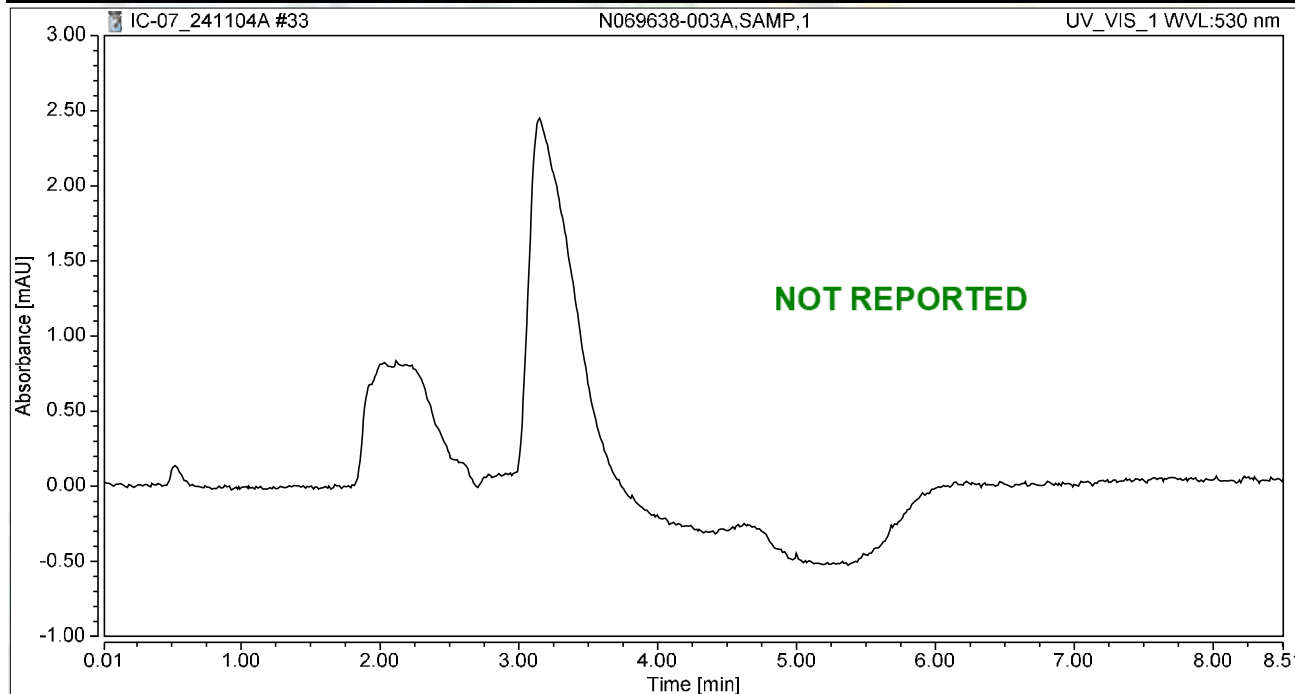
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.299	1.758	100.00	100.00	1.0529
Total:			0.299	1.758	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-003A,SAMP,1	Run Time (min):	8.49
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 16:00	Sample Weight:	1.0000

Chromatogram



Integration Results

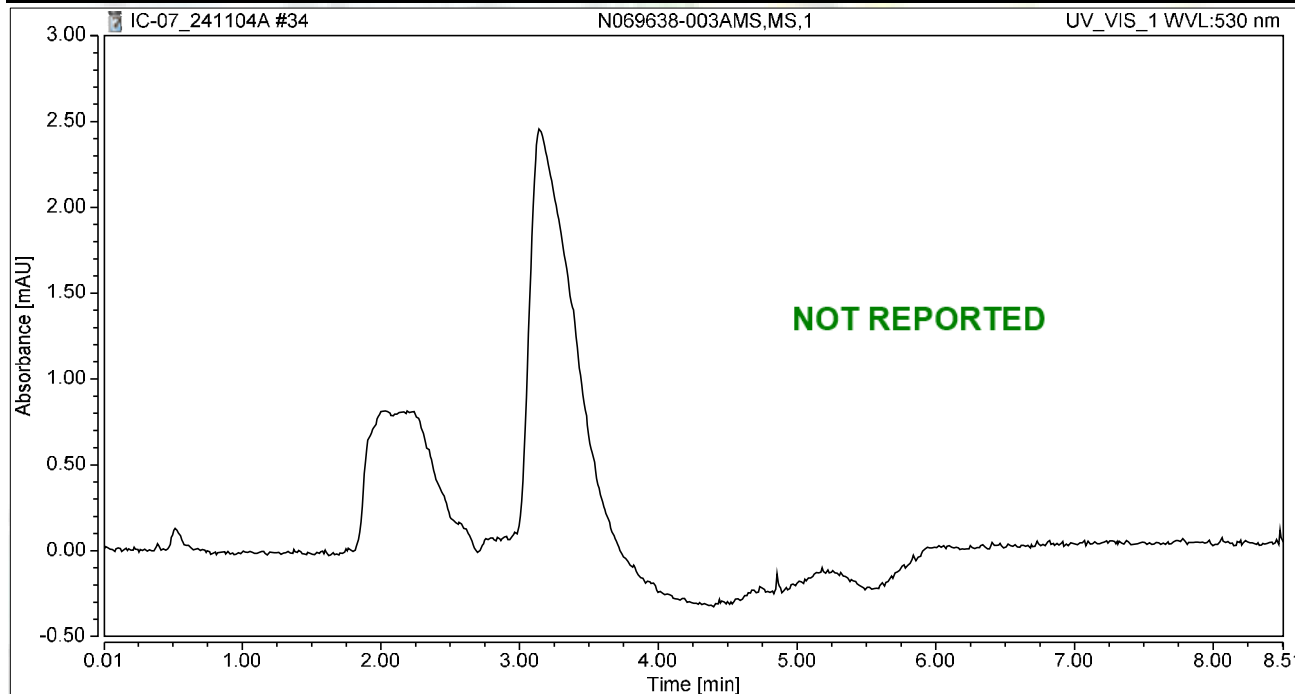
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-003AMS,MS,1	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 16:09	Sample Weight:	1.0000

Chromatogram



Integration Results

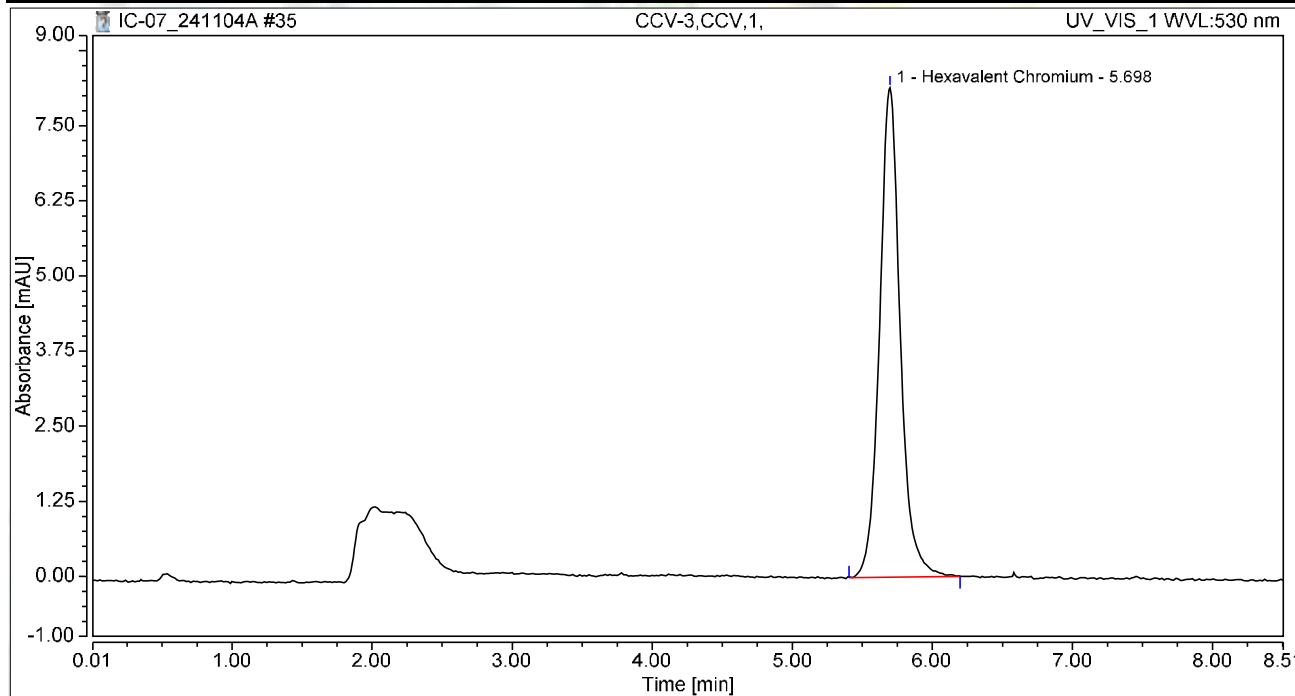
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-3,CCV,1,	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 16:19	Sample Weight:	1.0000

Chromatogram



Integration Results

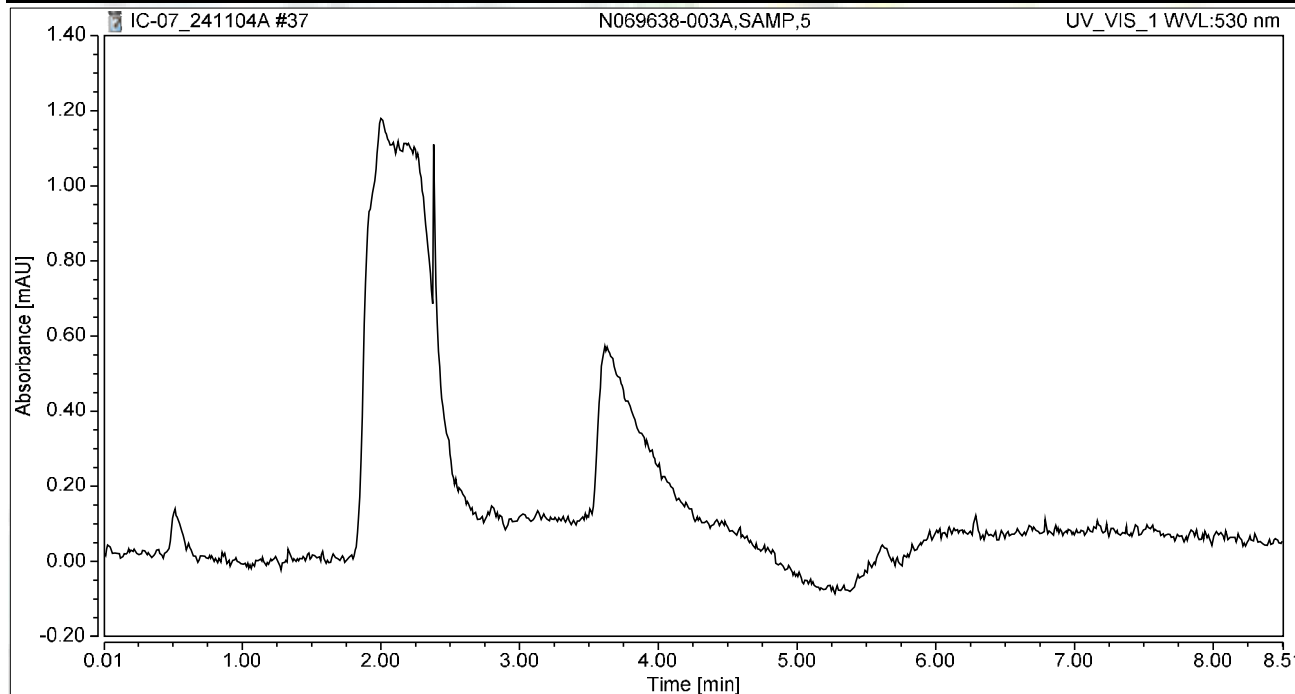
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	1.396	8.146	100.00	100.00	4.9195
Total:			1.396	8.146	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-003A,SAMP,5	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 16:37	Sample Weight:	1.0000

Chromatogram



Integration Results

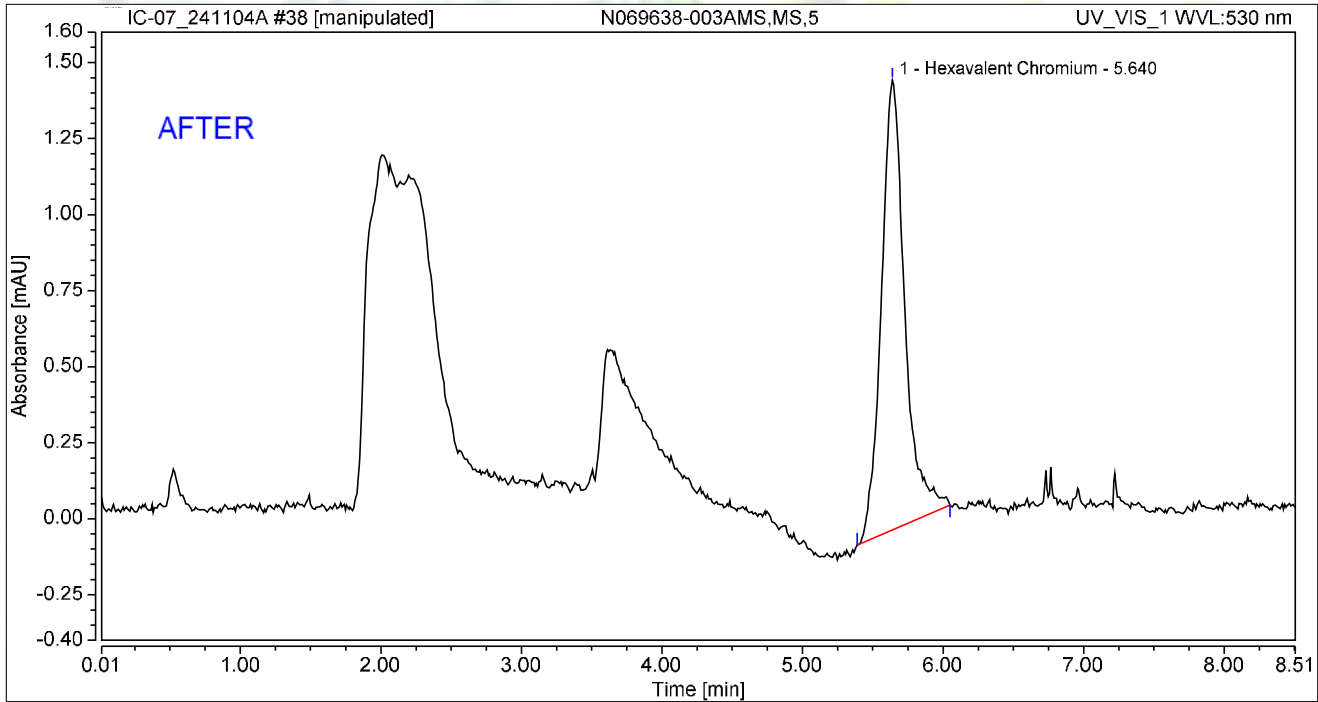
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-003AMS,MS,5	Run Time (min):	8.49
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 16:47	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.640	0.286	1.480	100.00	100.00	1.0068
Total:			0.286	1.480	100.00	100.00	

Reviewed by

Nancy

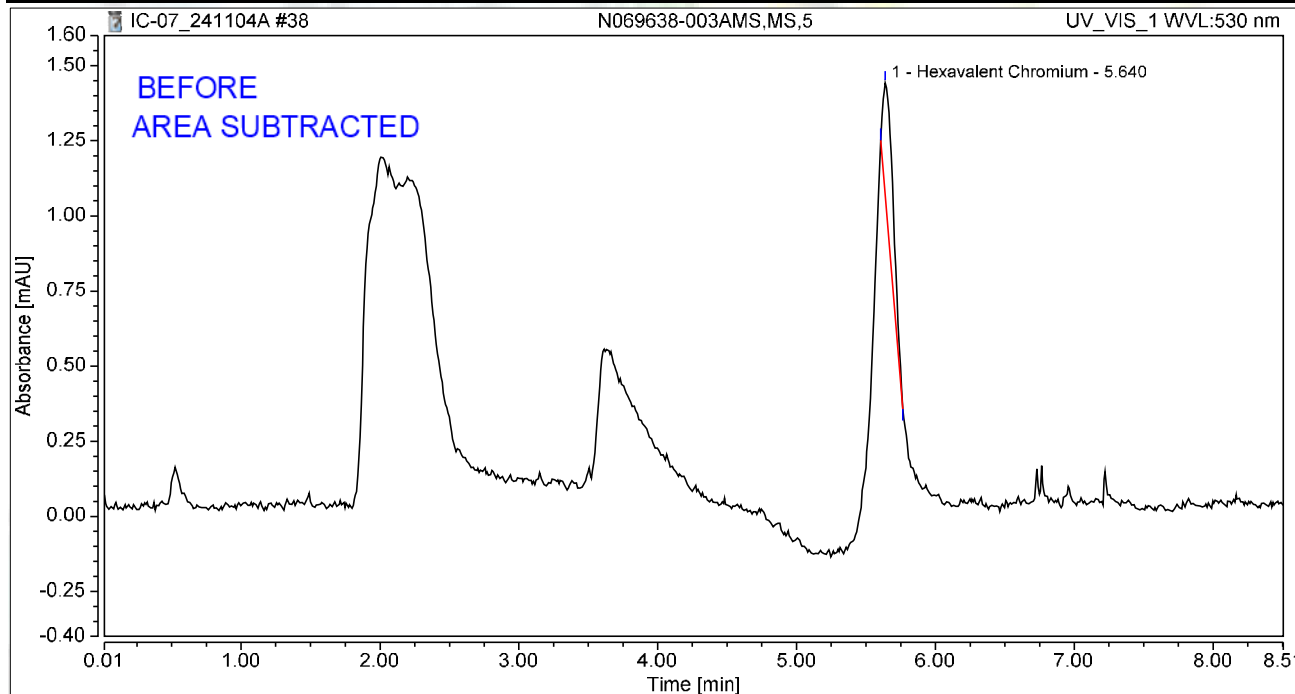
11/05/2024

Chromatogram and Results

Injection Details

Injection Name:	N069638-003AMS,MS,5	Run Time (min):	8.49
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 16:47	Sample Weight:	1.0000

Chromatogram



Integration Results

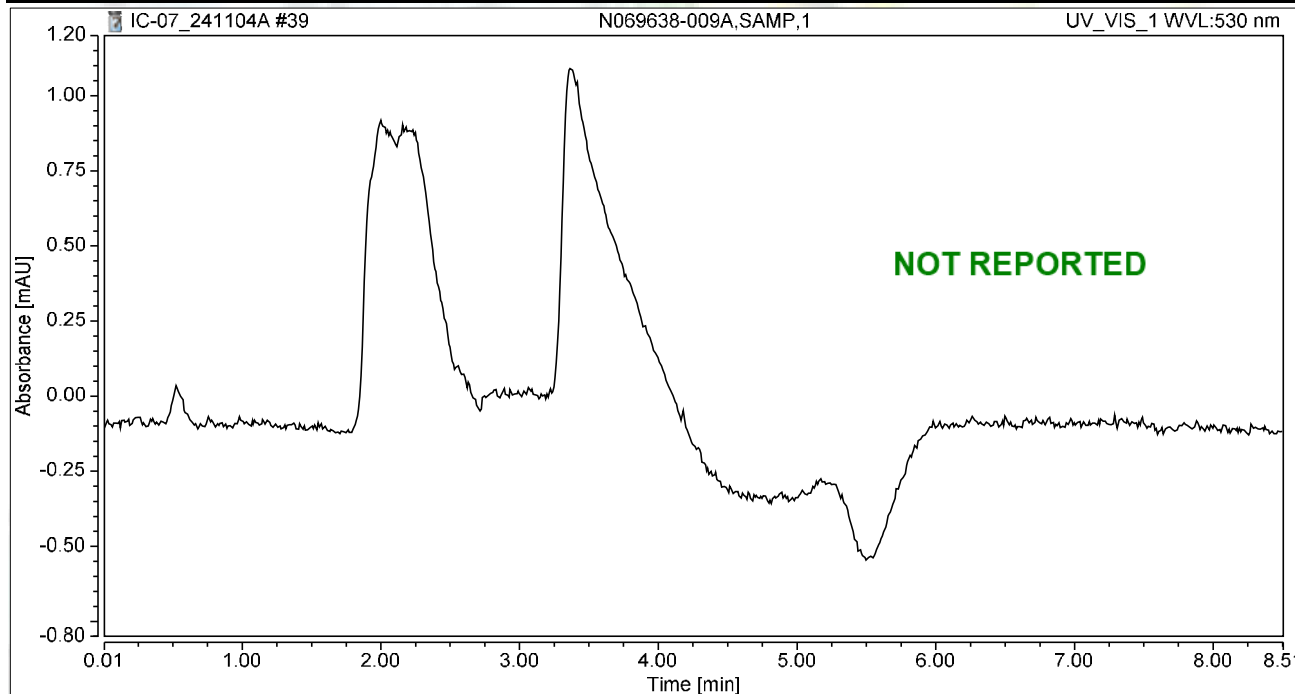
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.640	0.037	0.379	100.00	100.00	0.1306
Total:			0.037	0.379	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-009A,SAMP,1	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 16:56	Sample Weight:	1.0000

Chromatogram



Integration Results

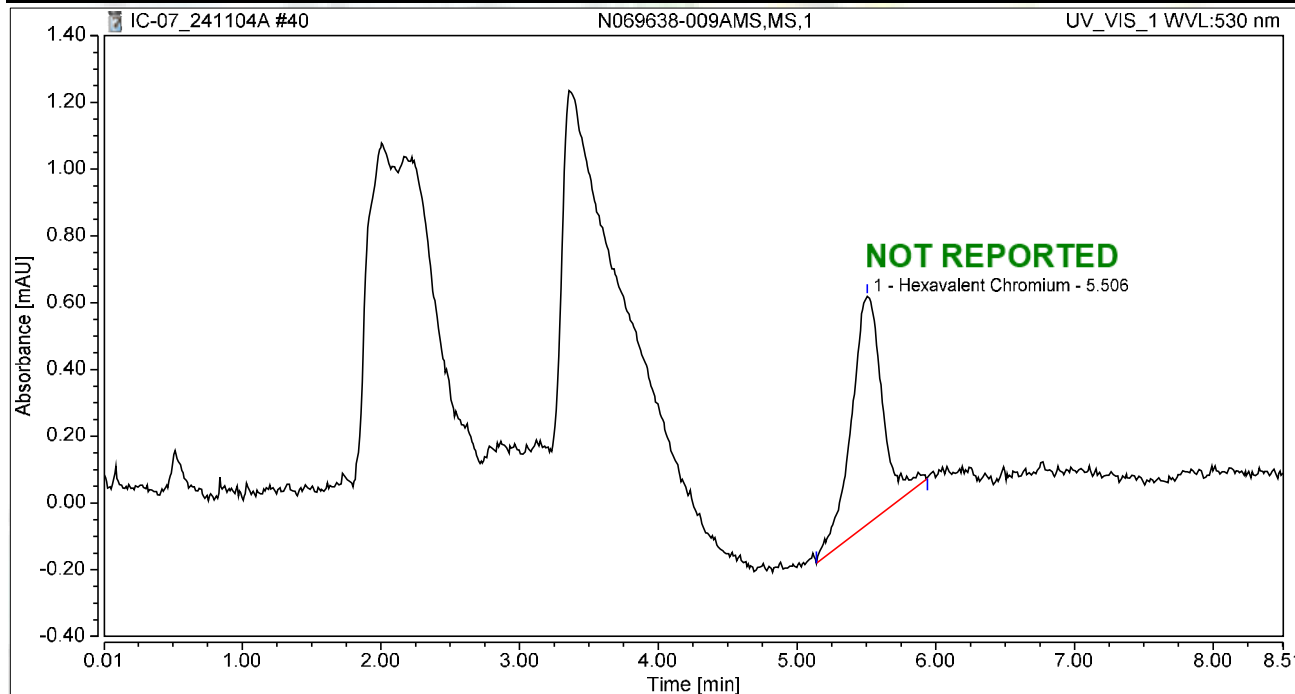
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-009AMS,MS,1	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 17:06	Sample Weight:	1.0000

Chromatogram



Integration Results

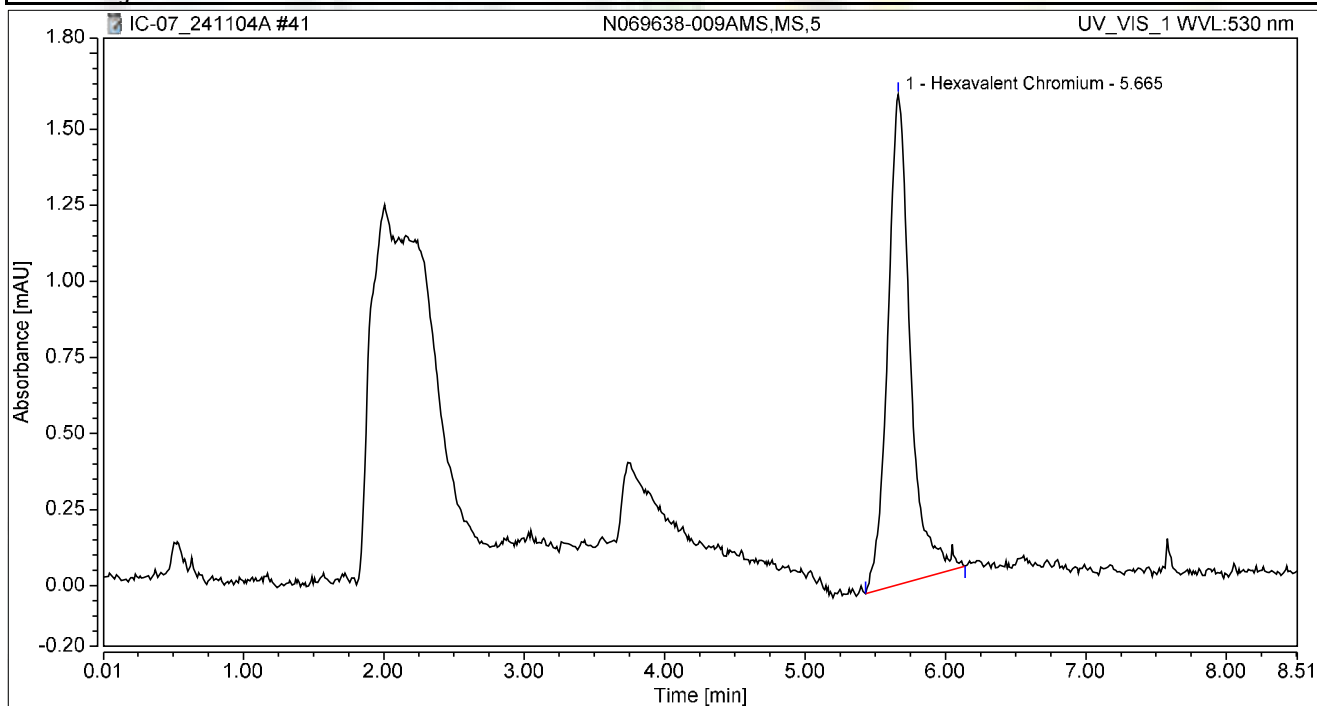
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.506	0.178	0.683	100.00	100.00	0.6275
Total:			0.178	0.683	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-009AMS,MS,5	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 17:15	Sample Weight:	1.0000

Chromatogram



Integration Results

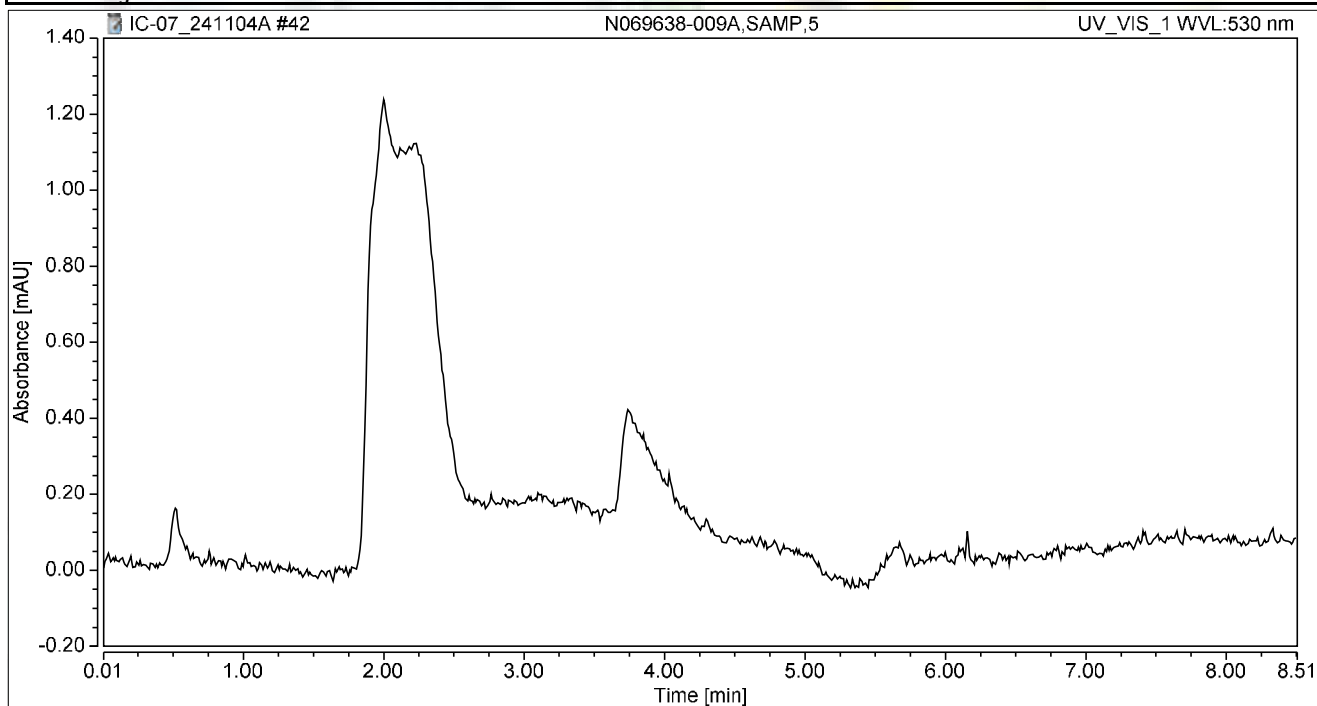
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.299	1.611	100.00	100.00	1.0549
Total:			0.299	1.611	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-009A,SAMP,5	Run Time (min):	8.50
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 17:25	Sample Weight:	1.0000

Chromatogram



Integration Results

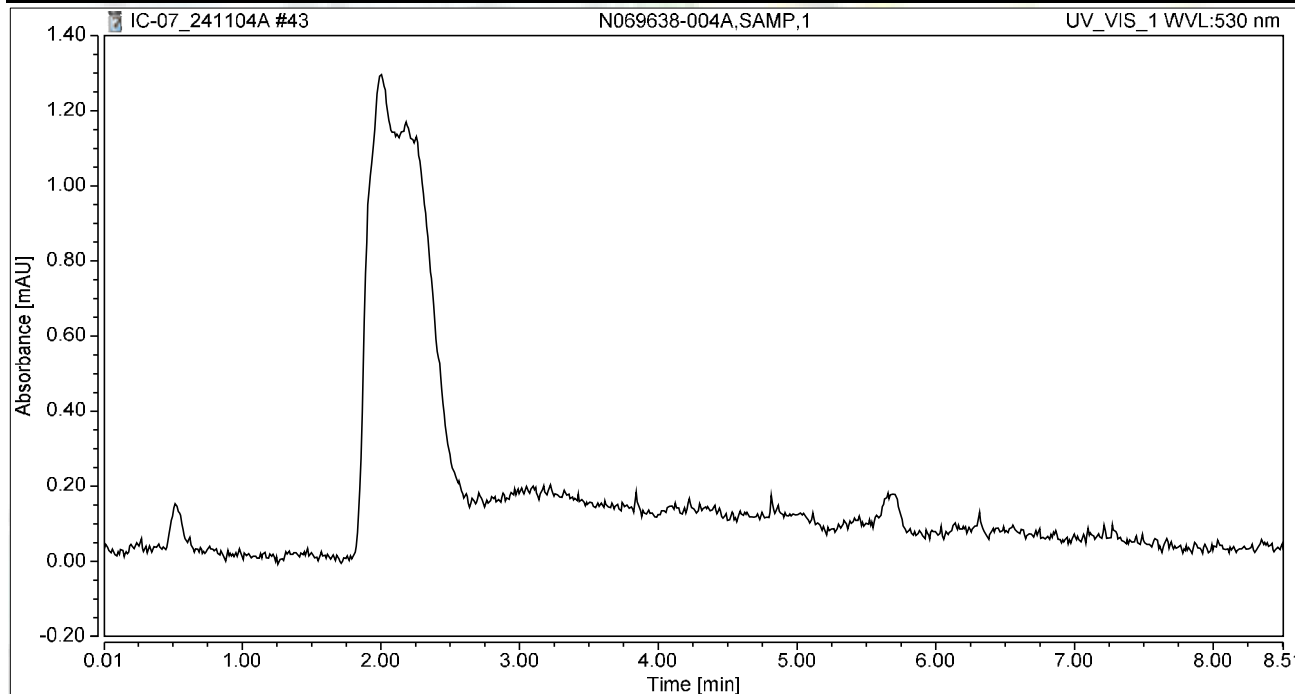
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-004A,SAMP,1	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 17:34	Sample Weight:	1.0000

Chromatogram



Integration Results

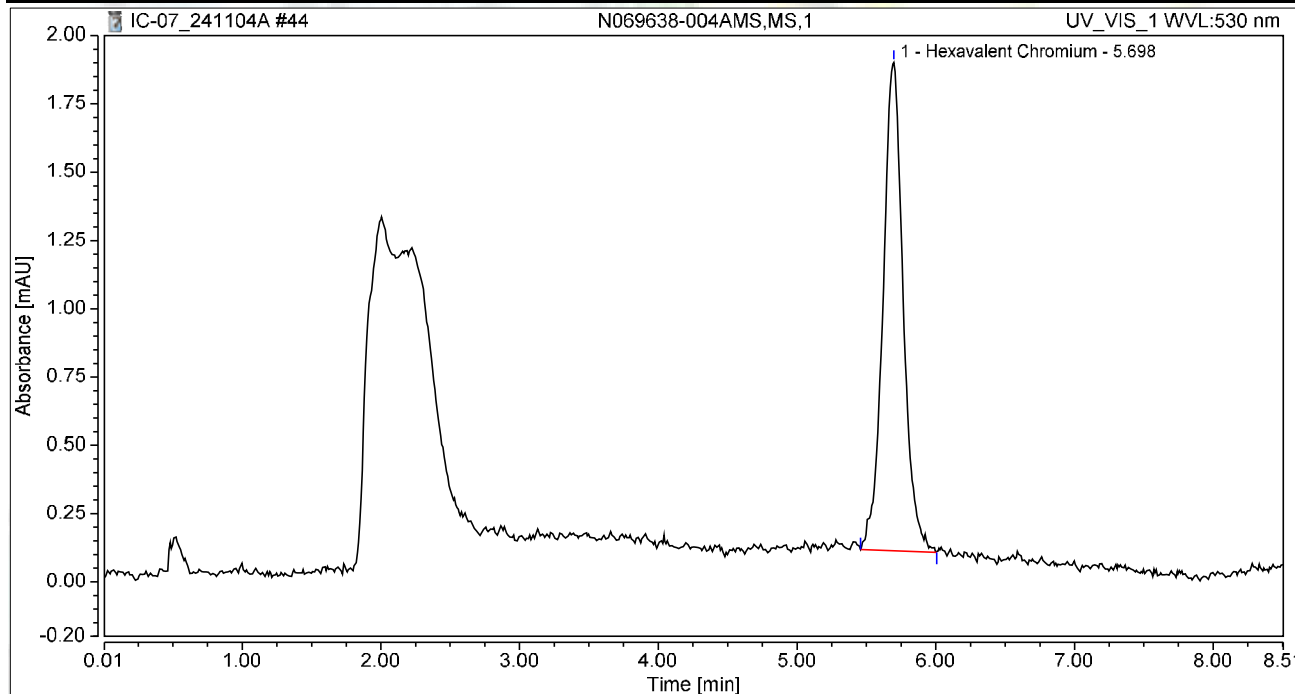
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-004AMS,MS,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 17:44	Sample Weight:	1.0000

Chromatogram



Integration Results

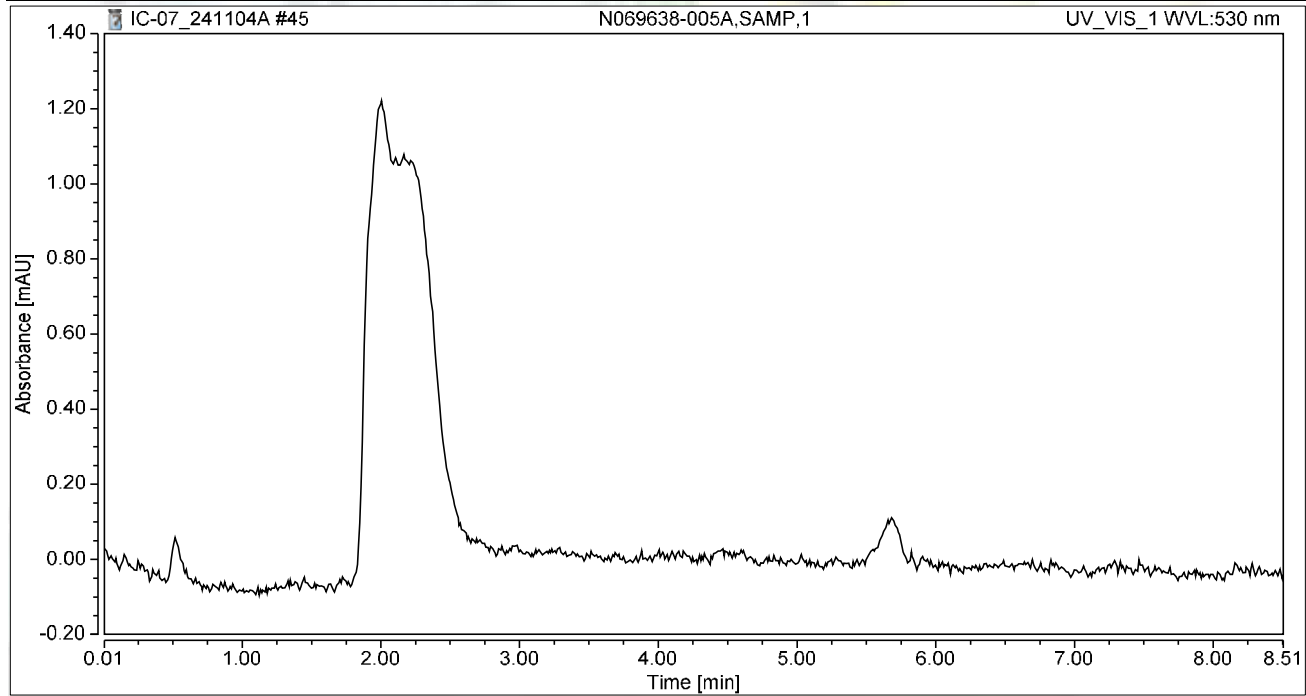
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	0.301	1.789	100.00	100.00	1.0618
Total:			0.301	1.789	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 17:53	Sample Weight:	1.0000

Chromatogram



Integration Results

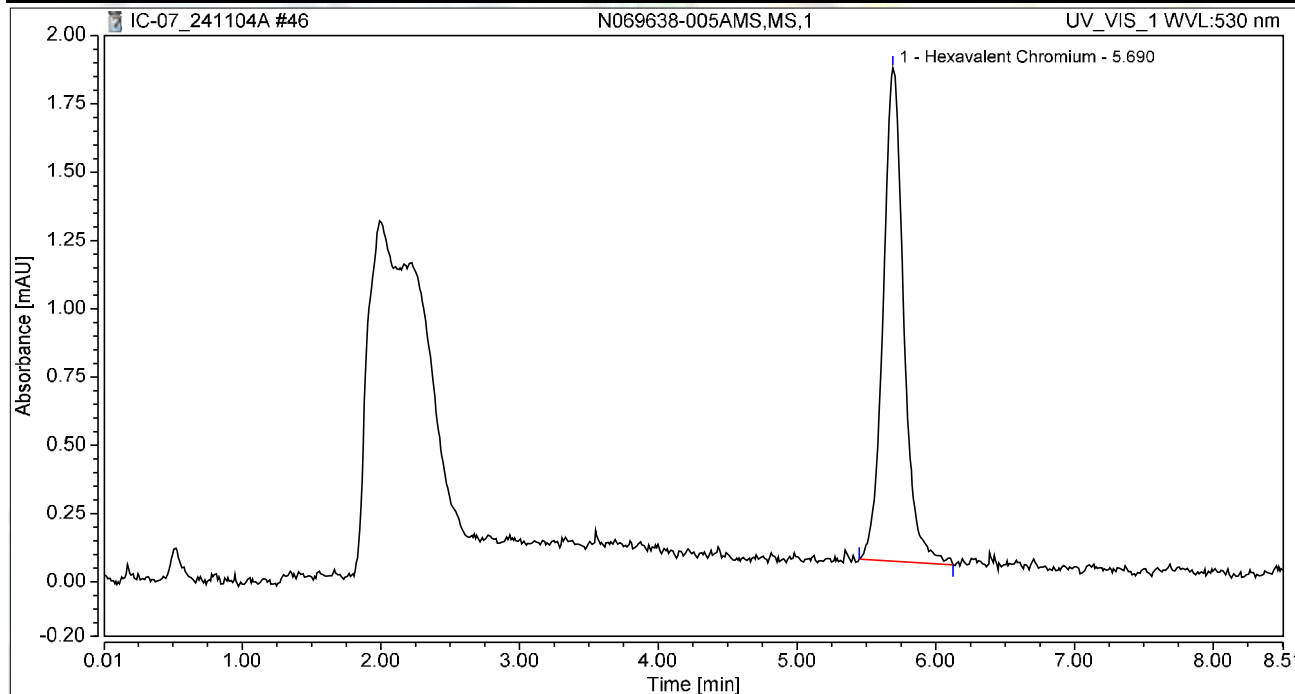
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-005AMS,MS,1	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 18:03	Sample Weight:	1.0000

Chromatogram



Integration Results

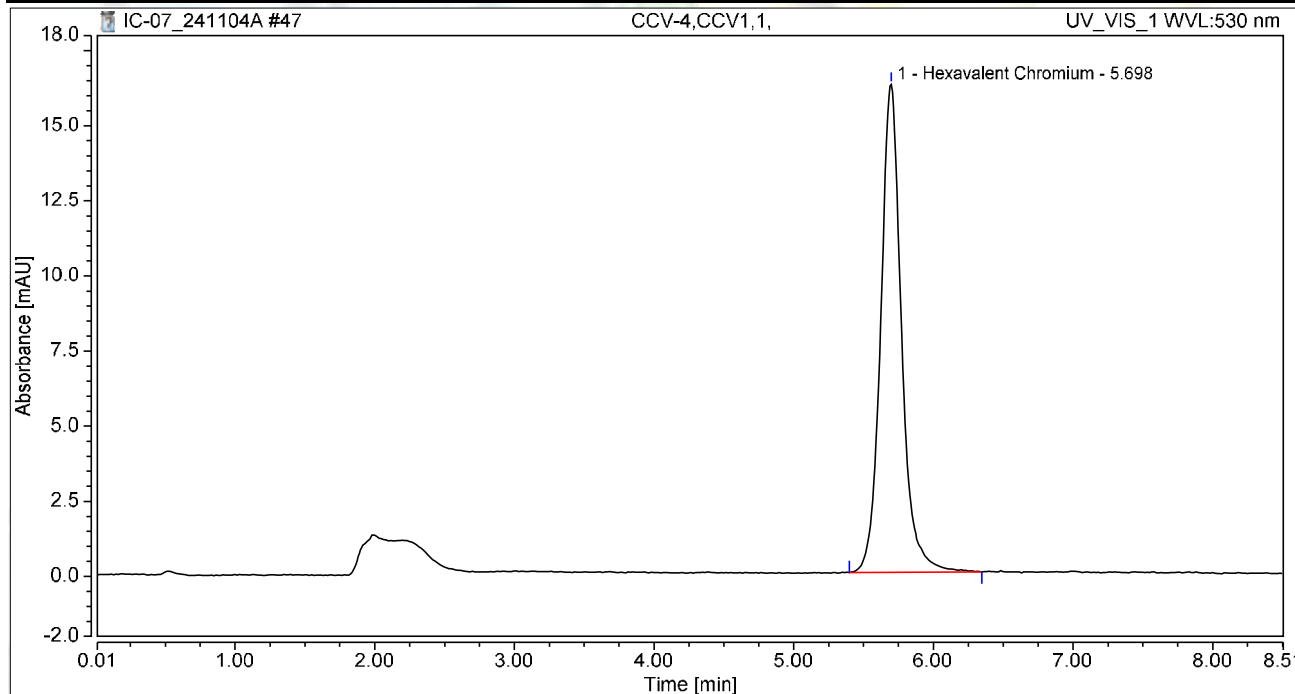
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.311	1.806	100.00	100.00	1.0954
Total:			0.311	1.806	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-4,CCV1,1,	Run Time (min):	8.49
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 18:12	Sample Weight:	1.0000

Chromatogram



Integration Results

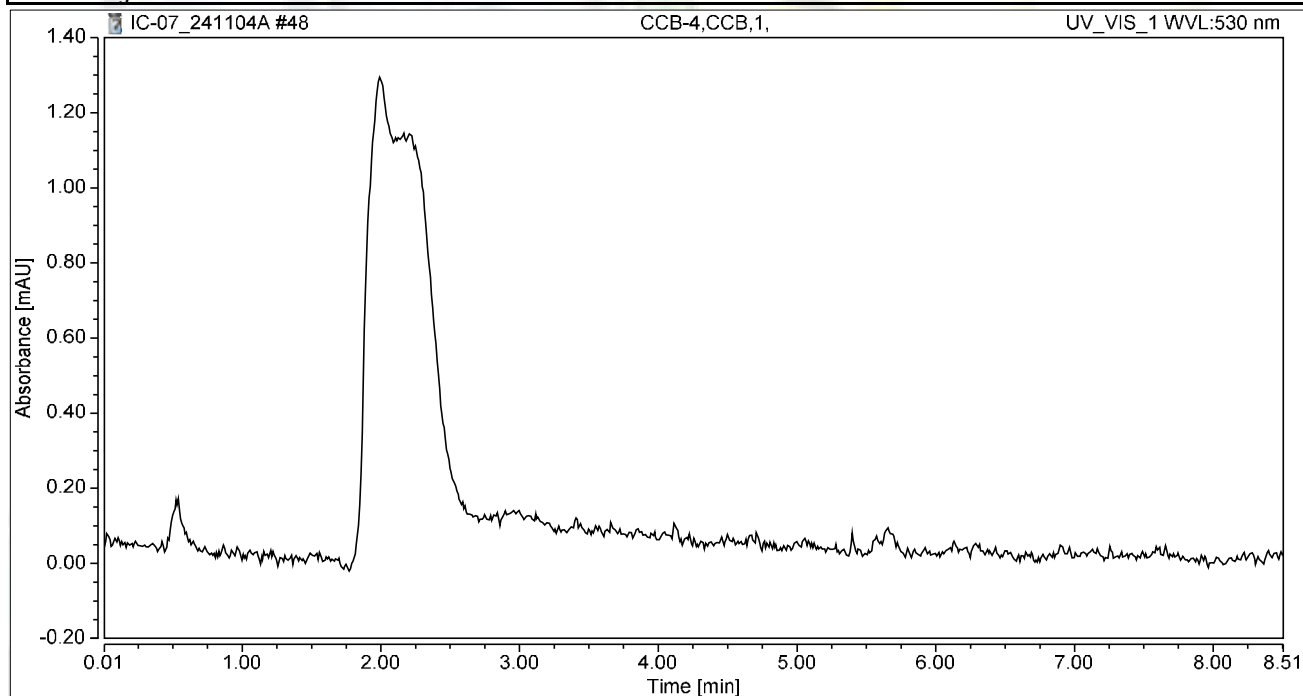
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	2.809	16.238	100.00	100.00	9.8987
Total:			2.809	16.238	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-4,CCB,1,	Run Time (min):	8.50
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 18:22	Sample Weight:	1.0000

Chromatogram



Integration Results

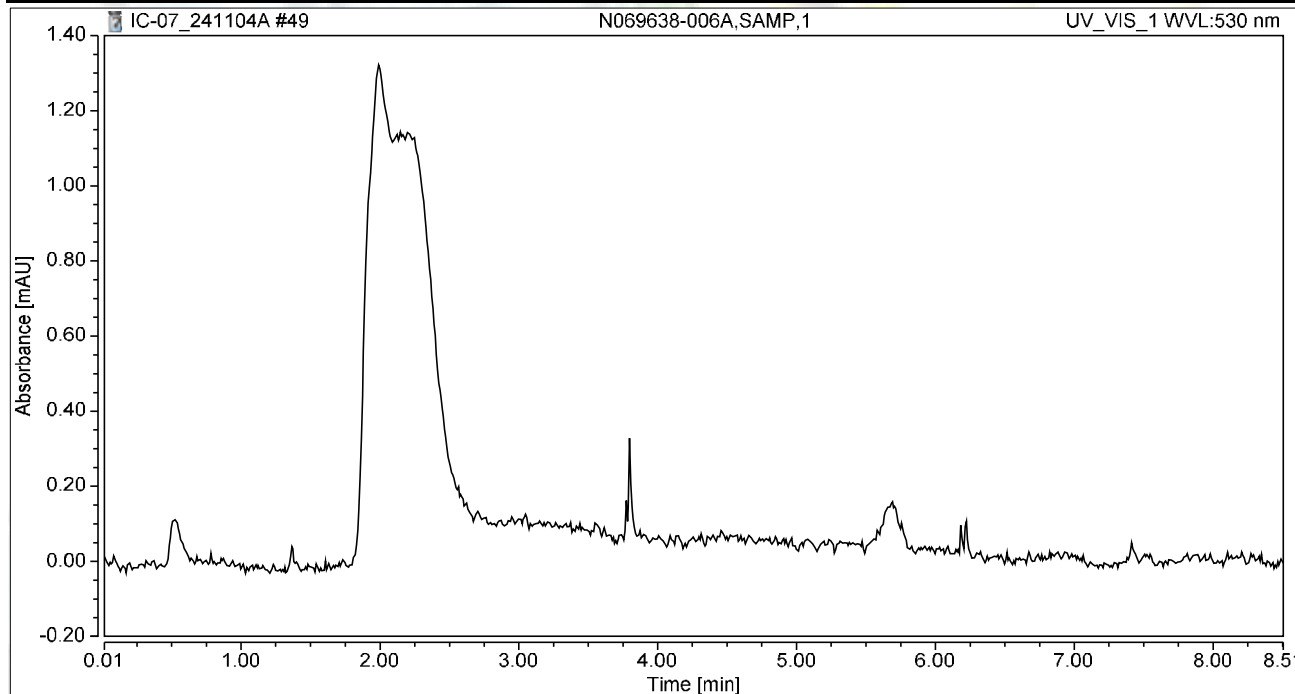
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-006A,SAMP,1	Run Time (min):	8.49
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 18:31	Sample Weight:	1.0000

Chromatogram



Integration Results

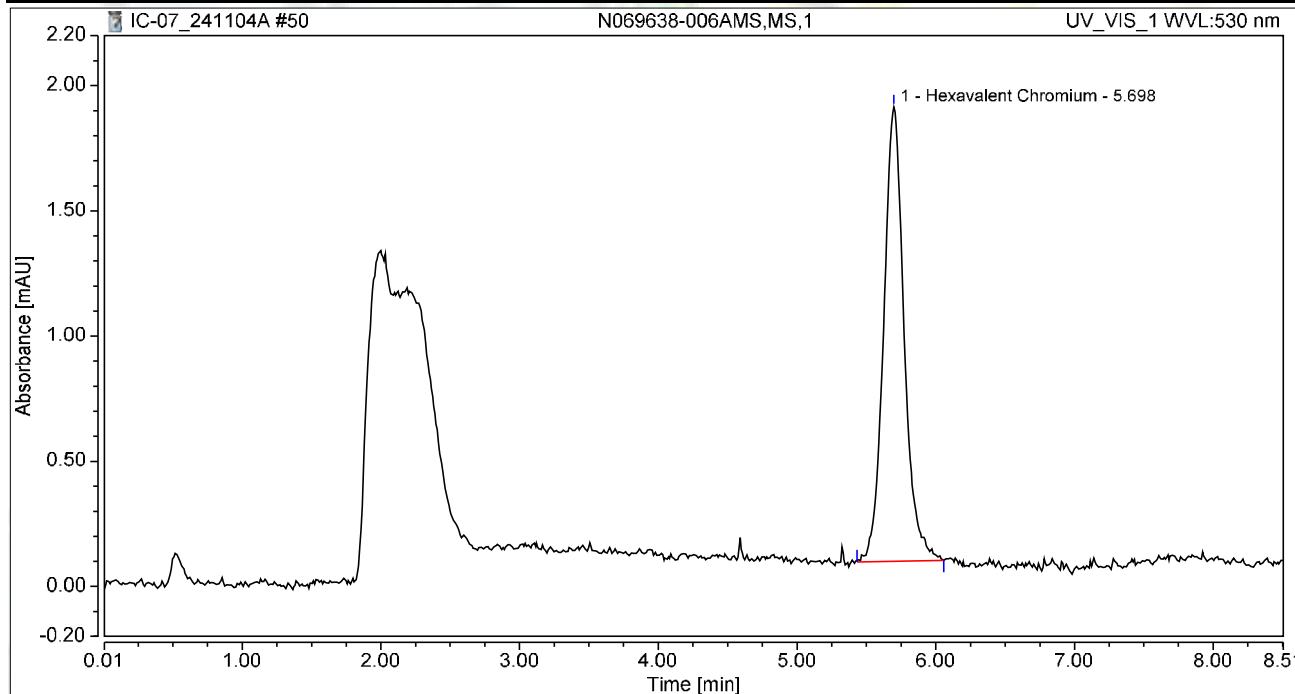
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-006AMS,MS,1	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 18:40	Sample Weight:	1.0000

Chromatogram



Integration Results

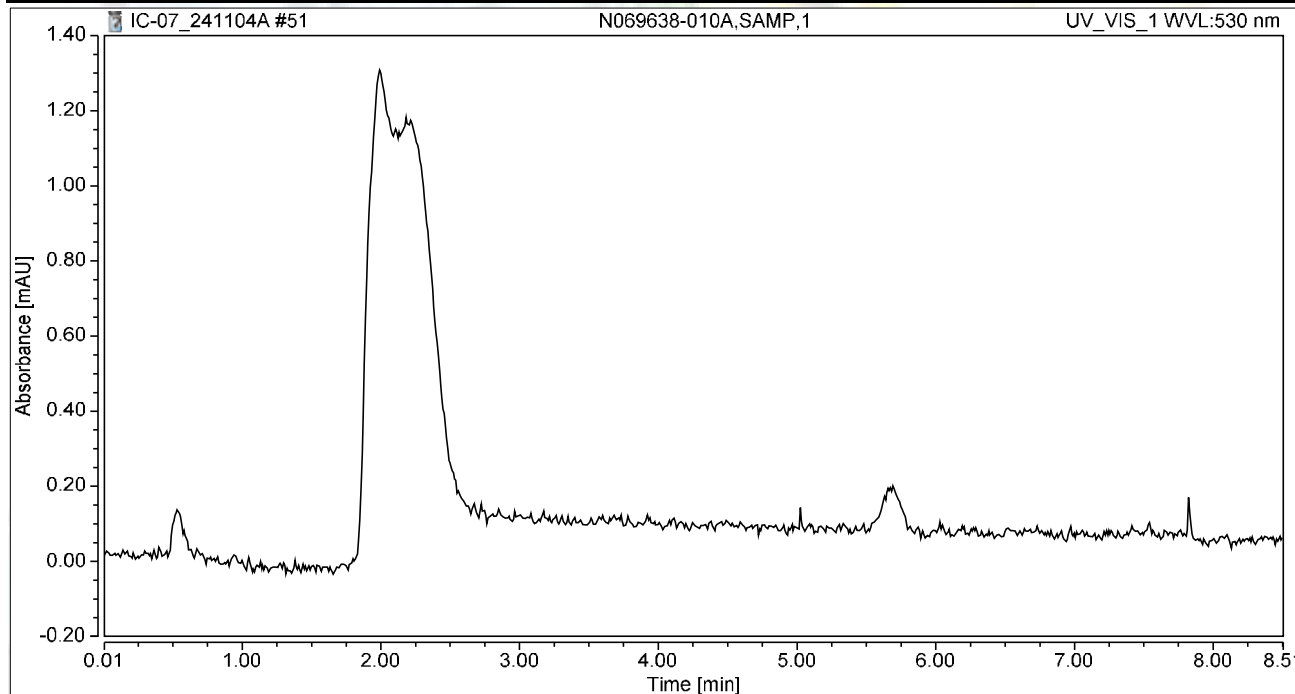
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	0.309	1.815	100.00	100.00	1.0907
Total:			0.309	1.815	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-010A,SAMP,1	Run Time (min):	8.50
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 18:50	Sample Weight:	1.0000

Chromatogram

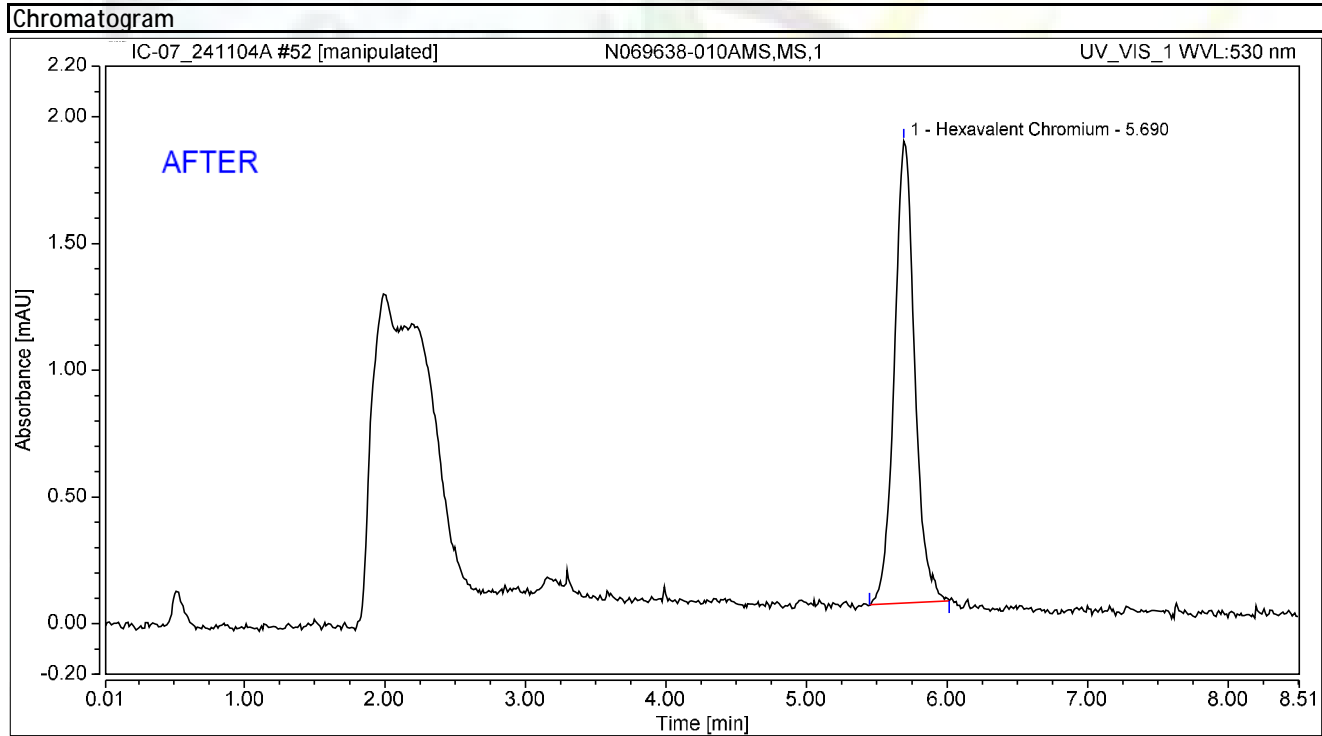


Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069638-010AMS,MS,1	Run Time (min): 8.49
Vial Number:	28	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	04/Nov/24 18:59	Sample Weight: 1.0000



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.305	1.824	100.00	100.00	1.0755
Total:			0.305	1.824	100.00	100.00	

Reviewed by

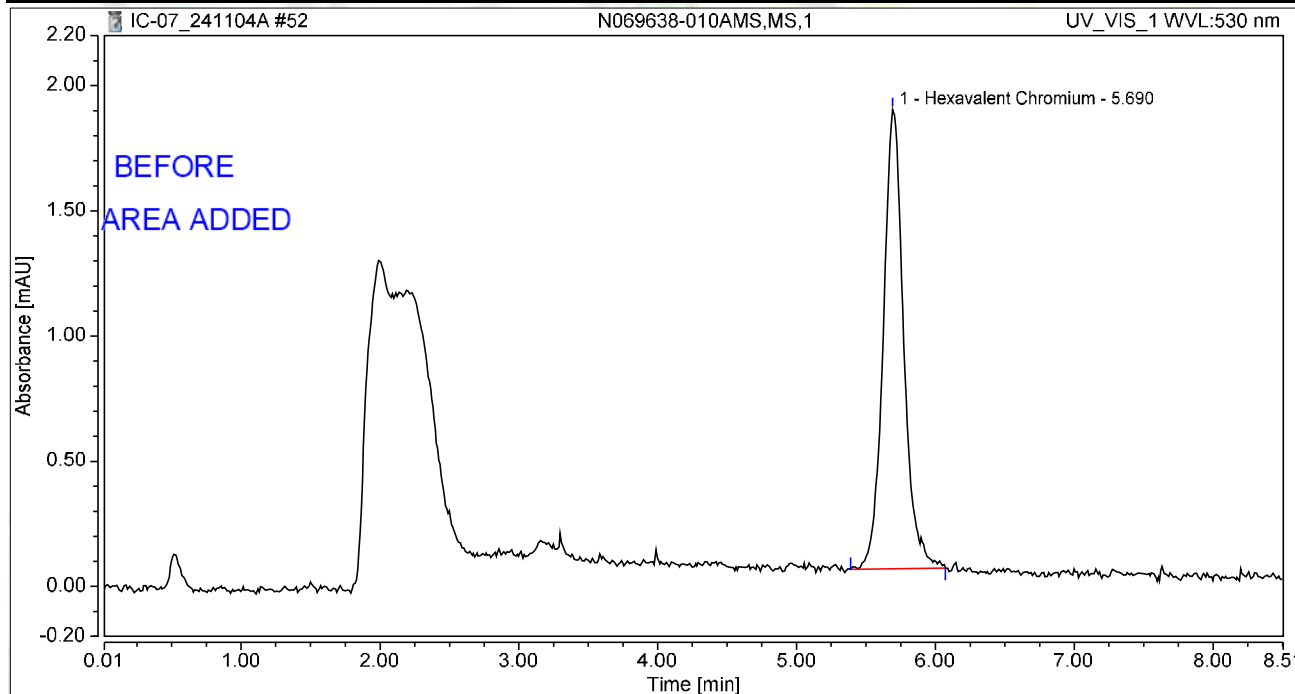
Nancy 11/05/2024

Chromatogram and Results

Injection Details

Injection Name:	N069638-010AMS,MS,1	Run Time (min):	8.49
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 18:59	Sample Weight:	1.0000

Chromatogram



Integration Results

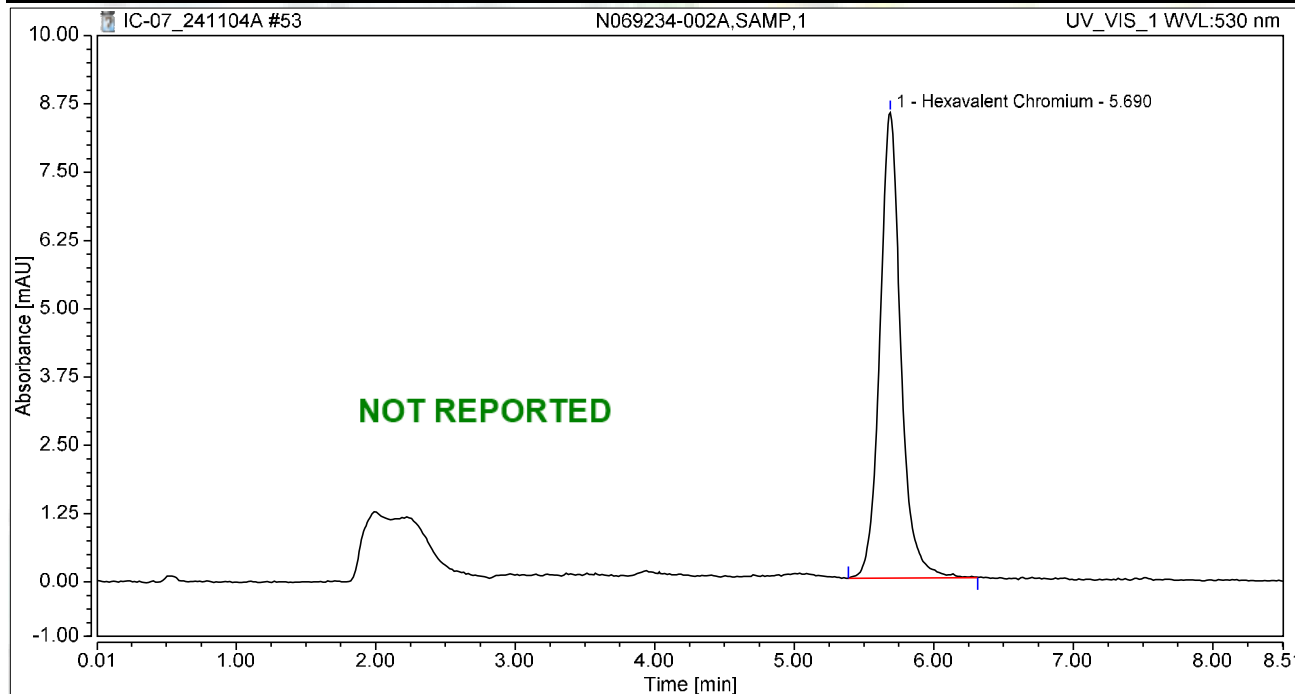
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.313	1.834	100.00	100.00	1.1039
Total:			0.313	1.834	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069234-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 19:11	Sample Weight:	1.0000

Chromatogram



Integration Results

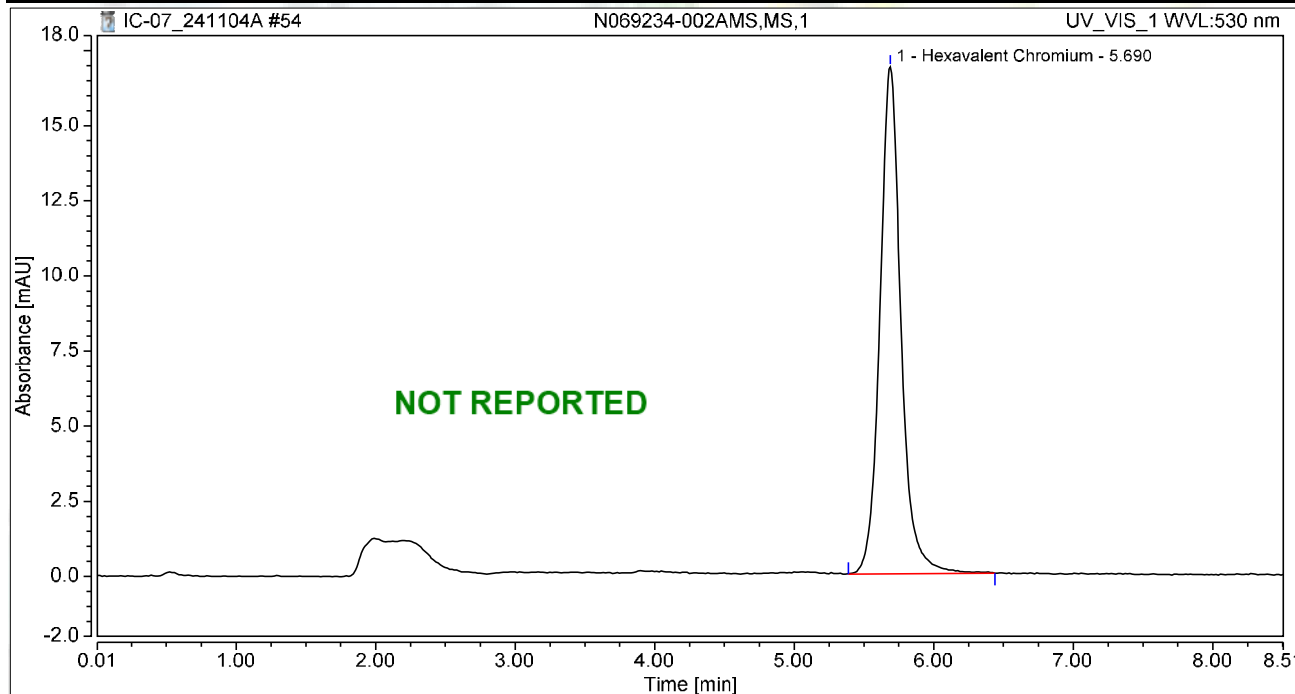
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	1.480	8.524	100.00	100.00	5.2174
Total:			1.480	8.524	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069234-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	30	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 19:21	Sample Weight:	1.0000

Chromatogram



Integration Results

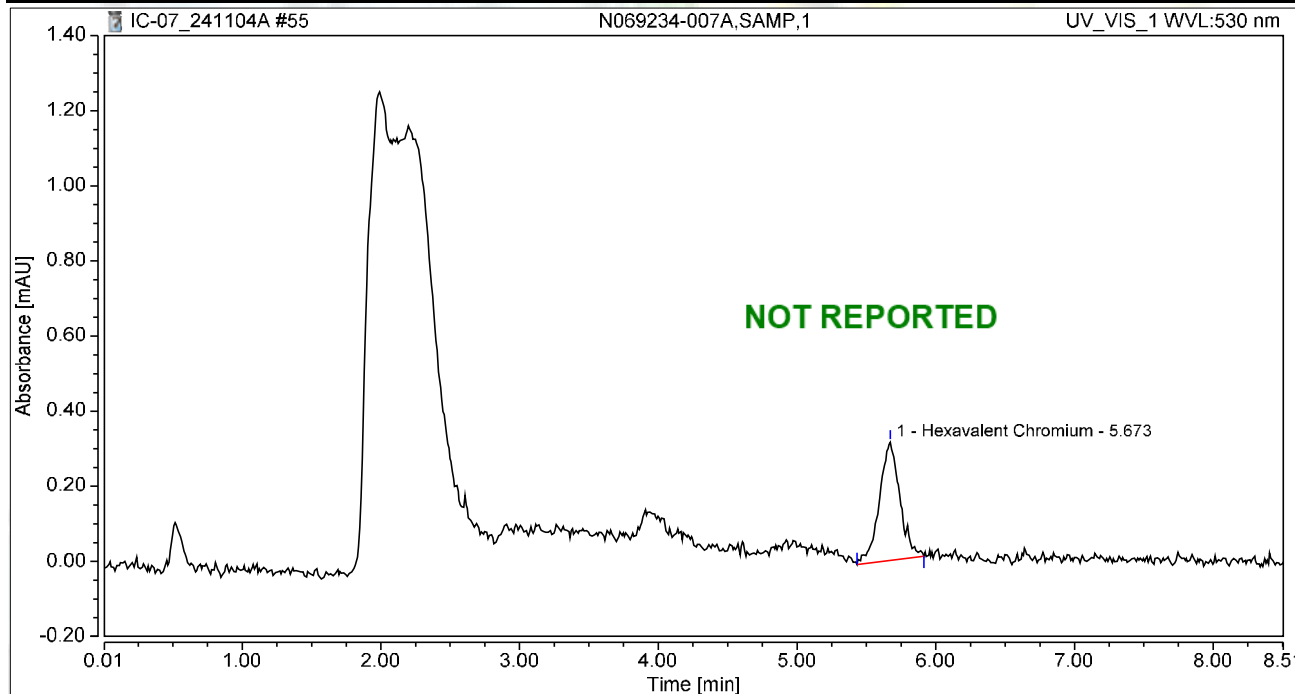
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	2.953	16.872	100.00	100.00	10.4064
Total:			2.953	16.872	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069234-007A,SAMP,1	Run Time (min):	8.50
Vial Number:	31	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 19:30	Sample Weight:	1.0000

Chromatogram



Integration Results

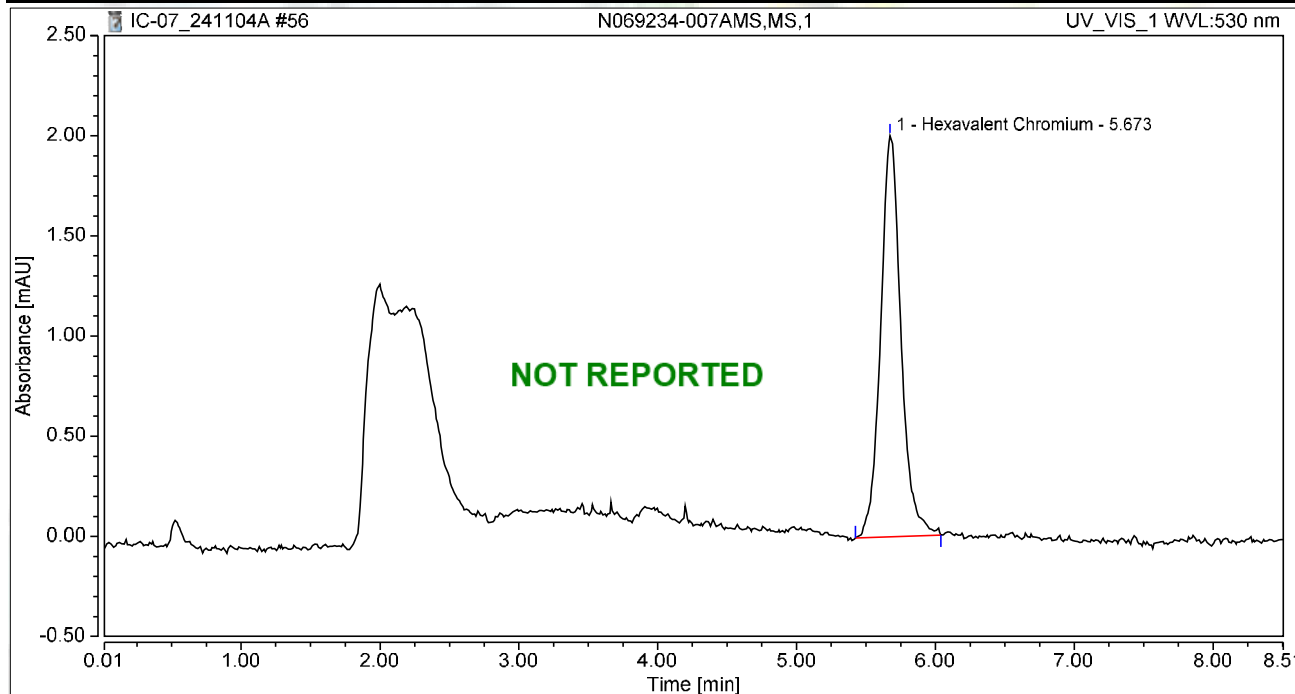
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.054	0.315	100.00	100.00	0.1894
Total:			0.054	0.315	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069234-007AMS,MS,1	Run Time (min):	8.49
Vial Number:	32	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 19:40	Sample Weight:	1.0000

Chromatogram



Integration Results

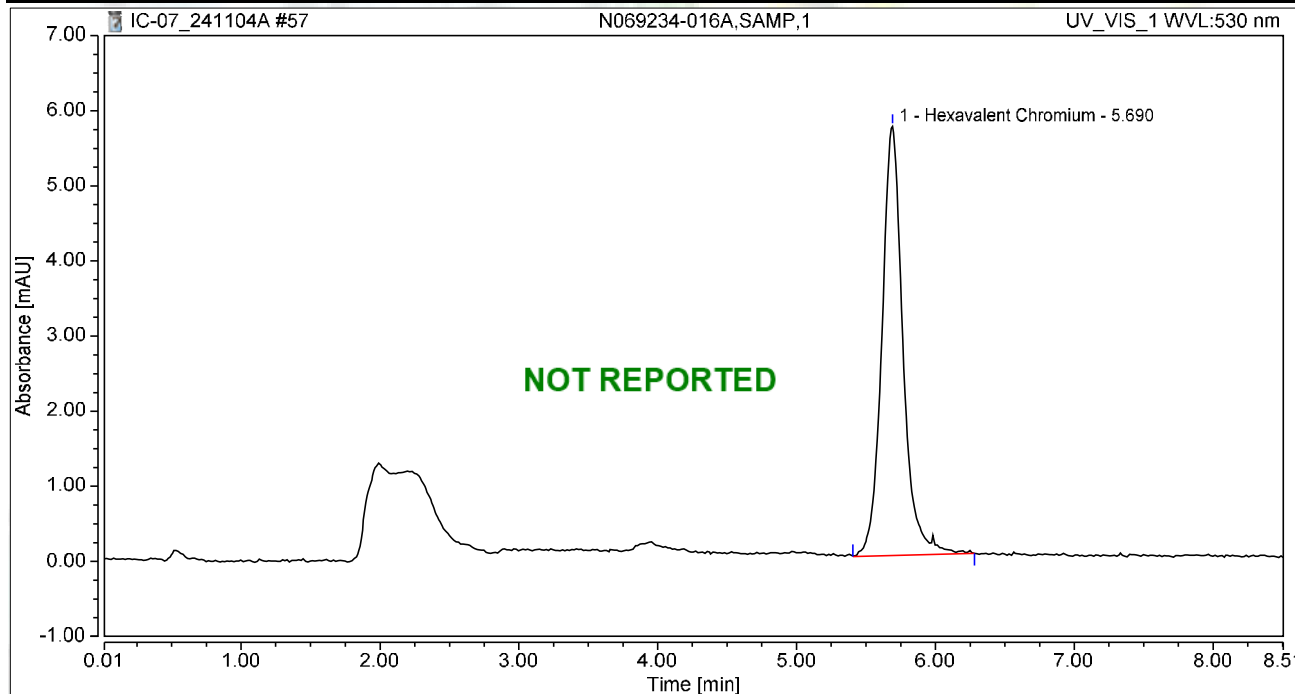
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.341	2.002	100.00	100.00	1.2019
Total:			0.341	2.002	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069234-016A,SAMP,1	Run Time (min):	8.49
Vial Number:	33	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 19:49	Sample Weight:	1.0000

Chromatogram



Integration Results

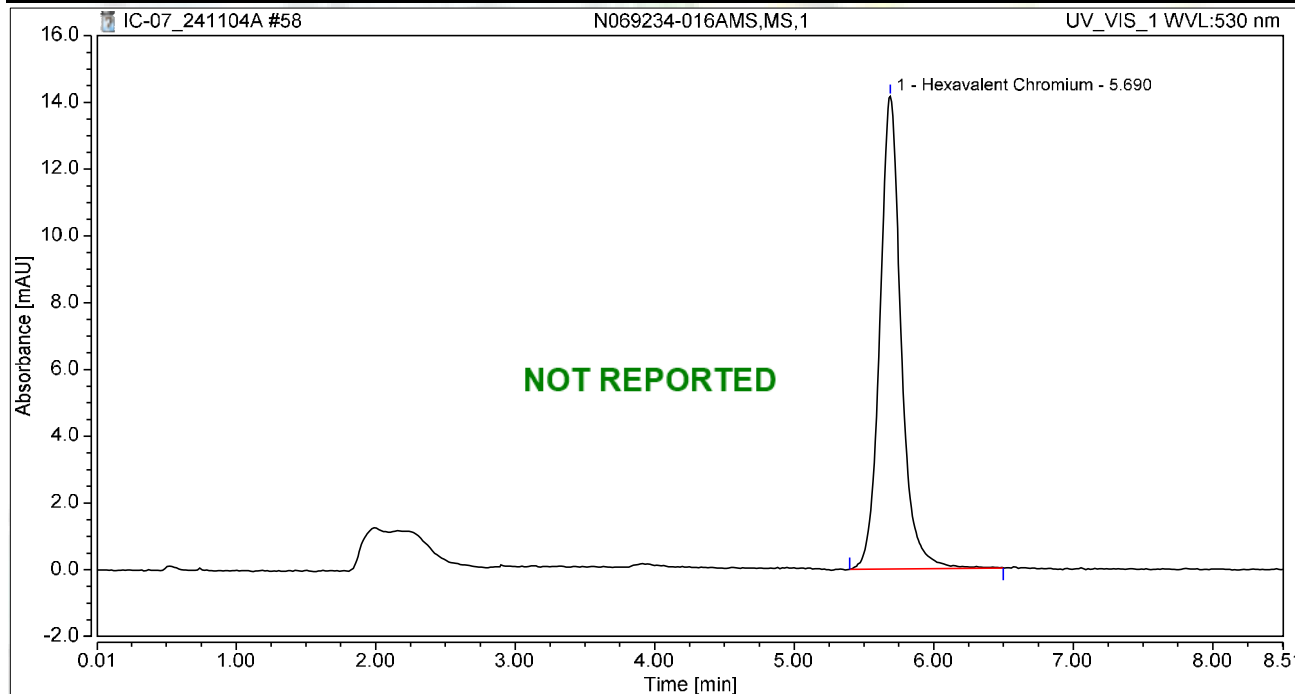
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	1.009	5.712	100.00	100.00	3.5554
Total:			1.009	5.712	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069234-016AMS,MS,1	Run Time (min):	8.50
Vial Number:	34	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 19:59	Sample Weight:	1.0000

Chromatogram



Integration Results

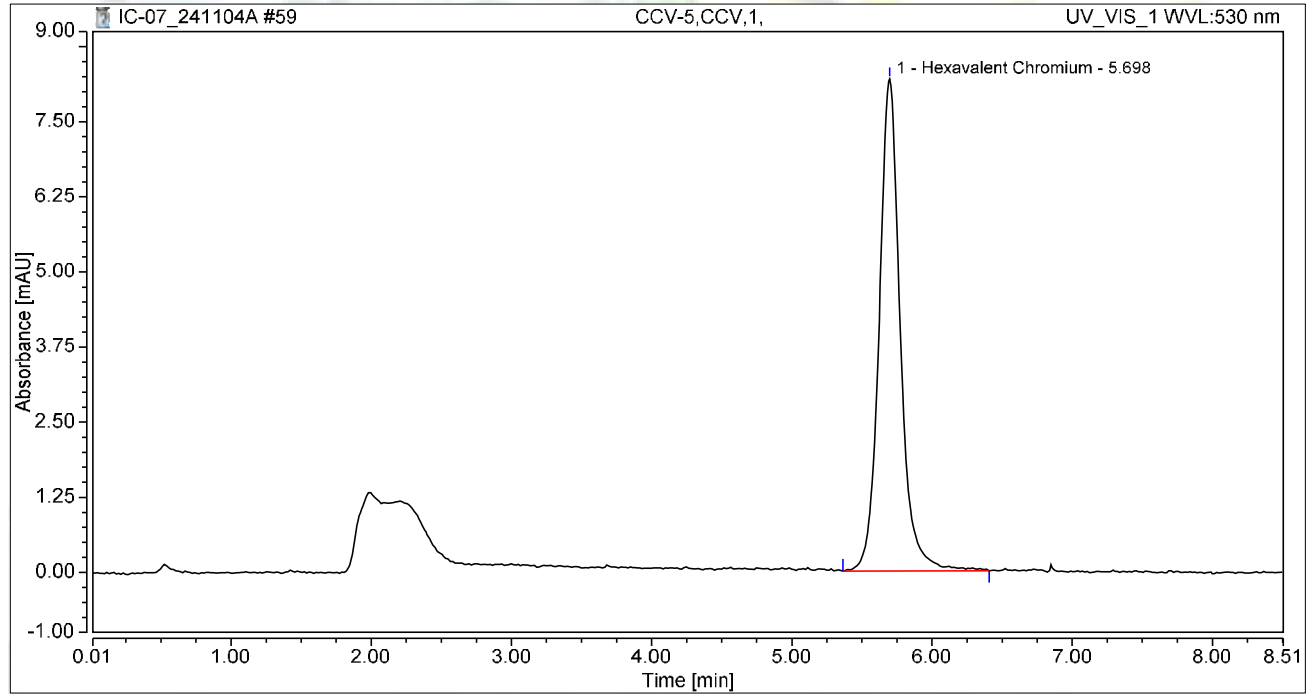
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	2.501	14.160	100.00	100.00	8.8129
Total:			2.501	14.160	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.49
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 20:08	Sample Weight:	1.0000

Chromatogram



Integration Results

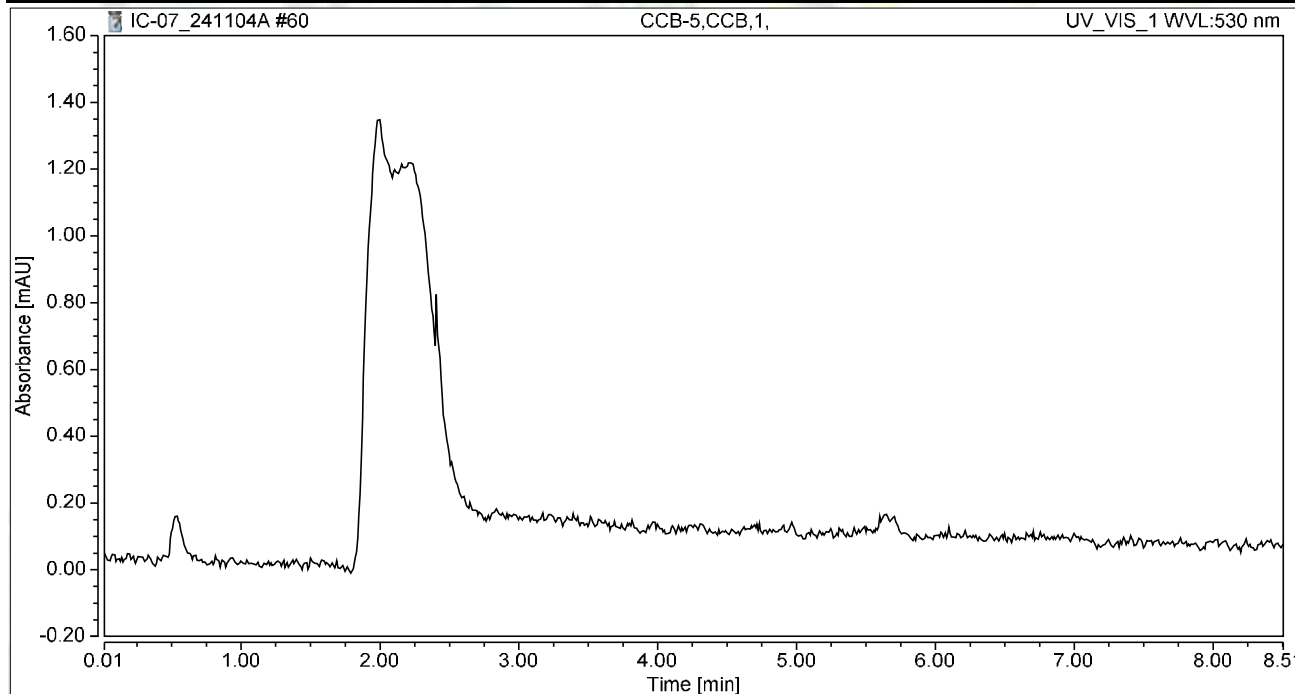
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	1.427	8.187	100.00	100.00	5.0277
Total:			1.427	8.187	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.49
Vial Number:	36	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 20:18	Sample Weight:	1.0000

Chromatogram



Integration Results

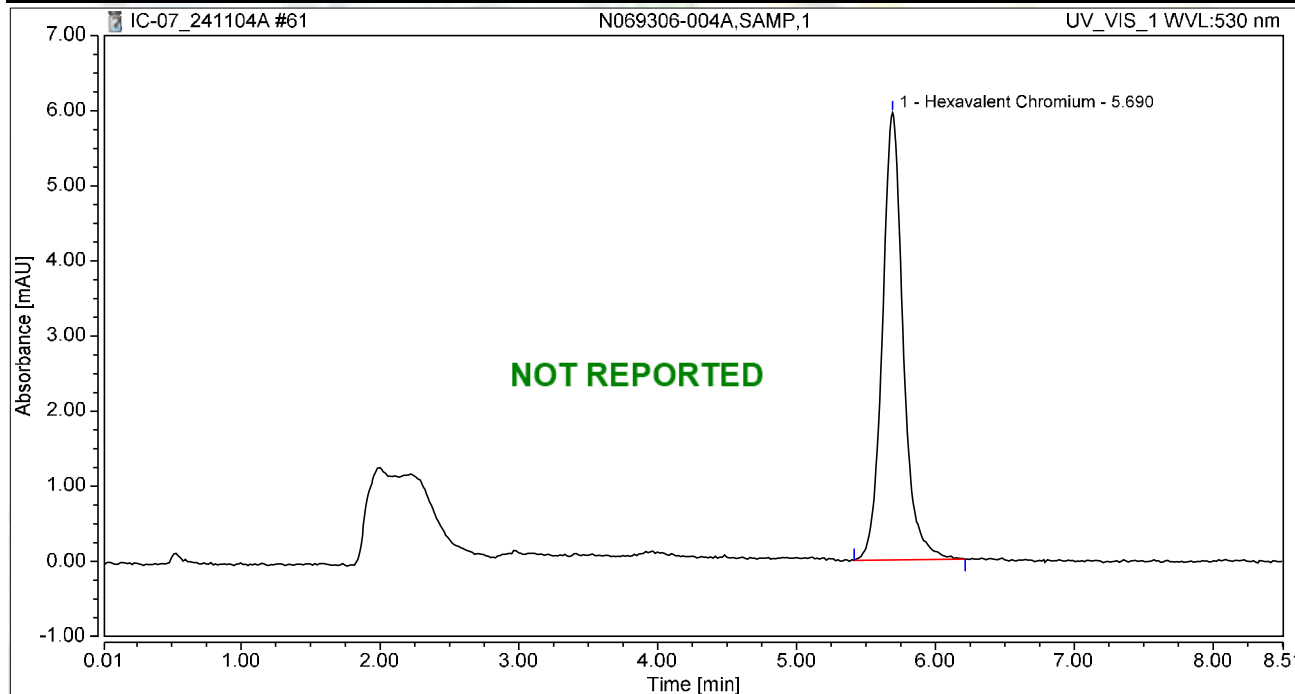
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069306-004A,SAMP,1	Run Time (min):	8.49
Vial Number:	37	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 20:27	Sample Weight:	1.0000

Chromatogram



Integration Results

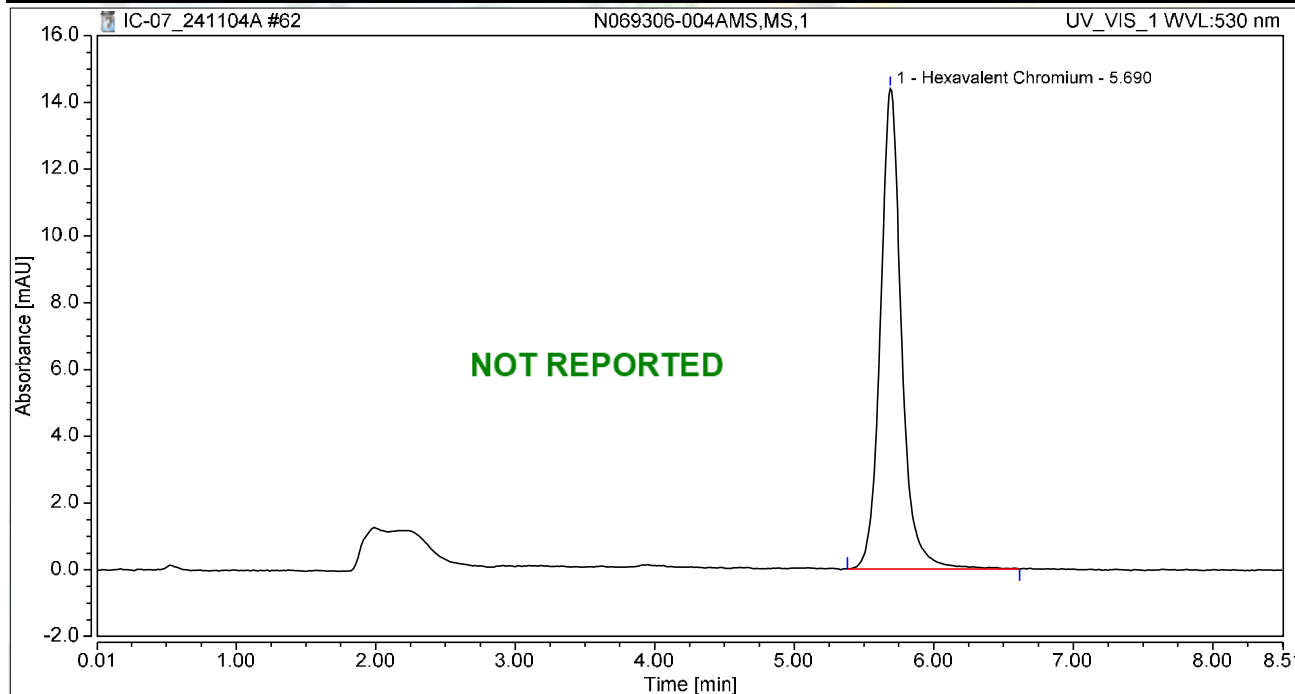
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	1.035	5.952	100.00	100.00	3.6459
Total:			1.035	5.952	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069306-004AMS,MS,1	Run Time (min):	8.50
Vial Number:	38	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 20:37	Sample Weight:	1.0000

Chromatogram



Integration Results

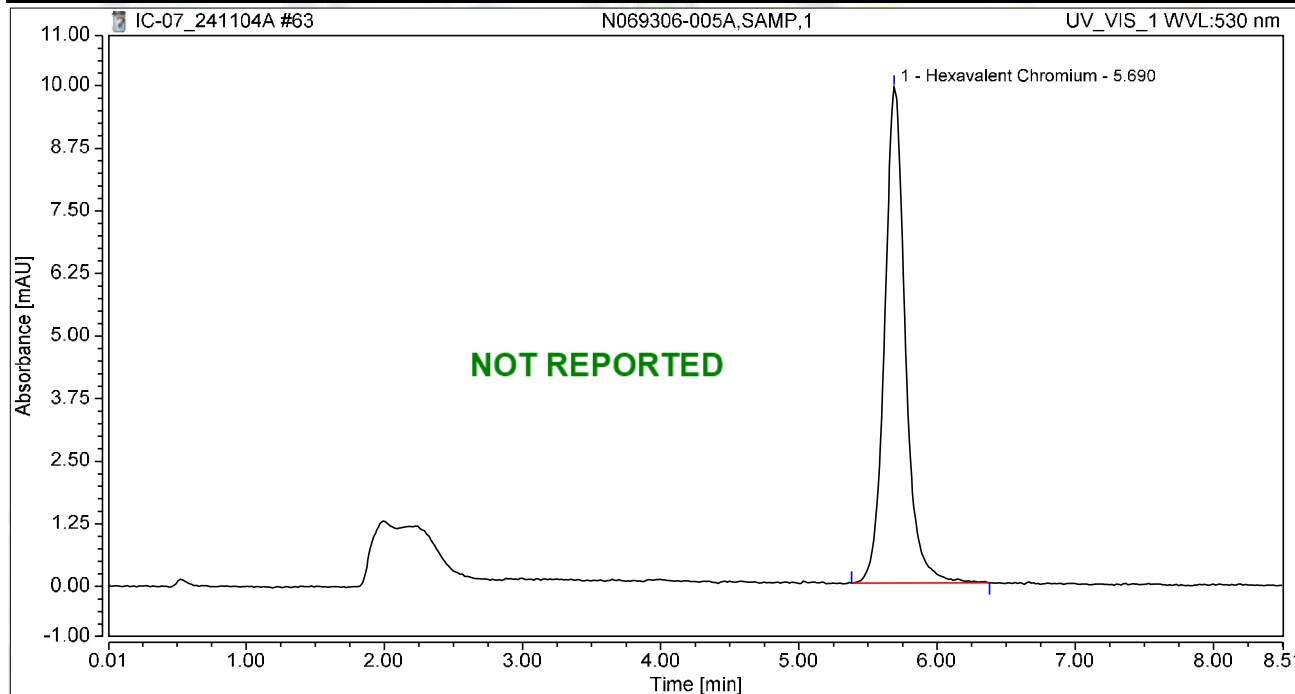
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	2.520	14.390	100.00	100.00	8.8815
Total:			2.520	14.390	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069306-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	39	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 20:46	Sample Weight:	1.0000

Chromatogram



Integration Results

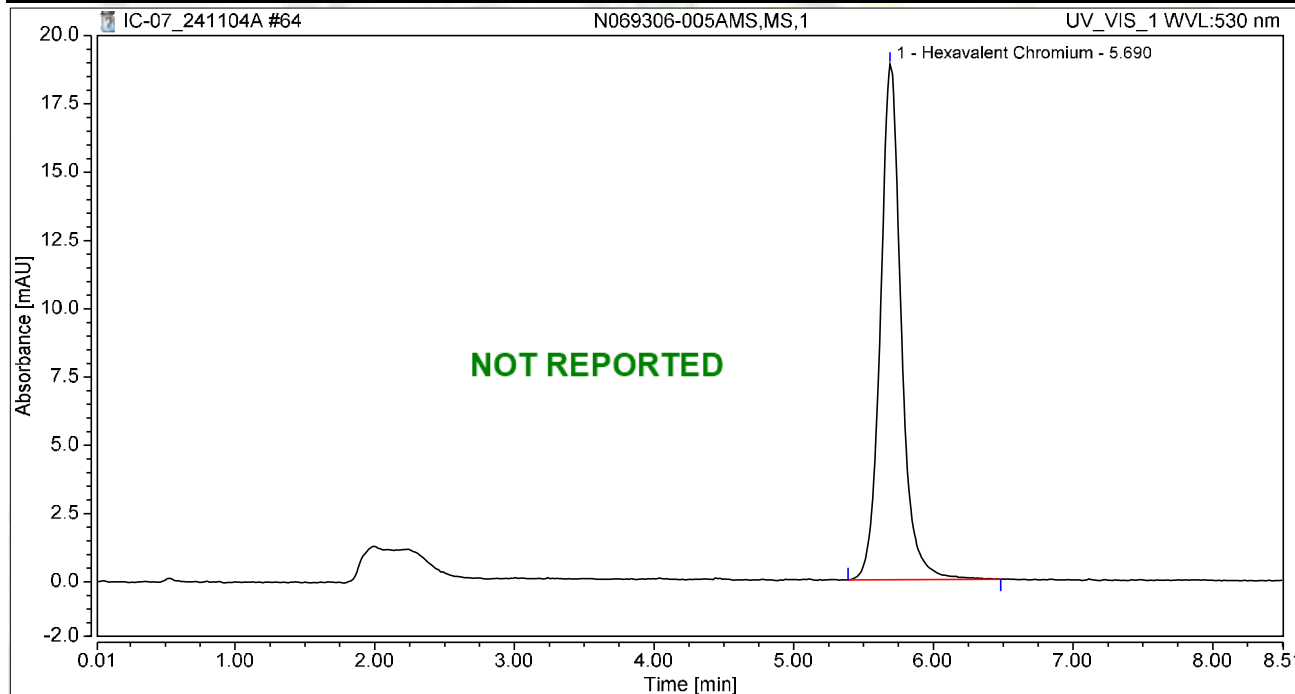
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	1.718	9.900	100.00	100.00	6.0548
Total:			1.718	9.900	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069306-005AMS,MS,1	Run Time (min):	8.49
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 20:55	Sample Weight:	1.0000

Chromatogram



Integration Results

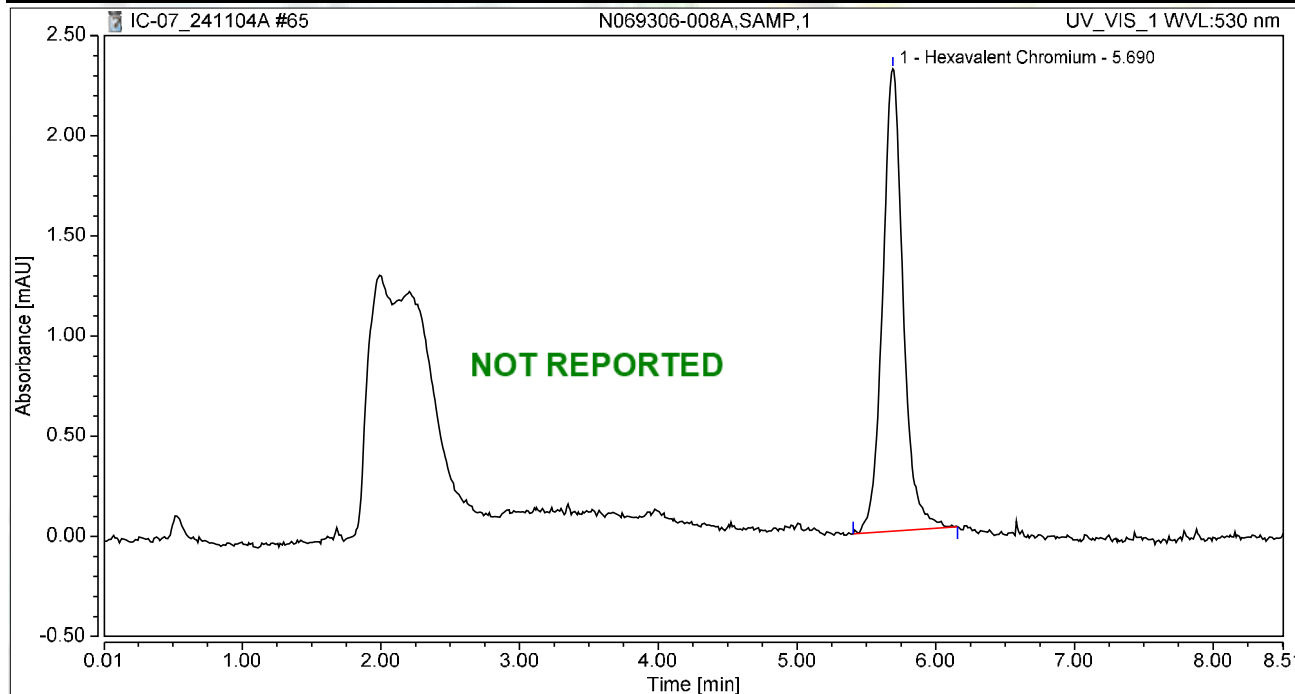
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	3.279	18.881	100.00	100.00	11.5546
Total:			3.279	18.881	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069306-008A,SAMP,1	Run Time (min):	8.50
Vial Number:	41	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 21:05	Sample Weight:	1.0000

Chromatogram



Integration Results

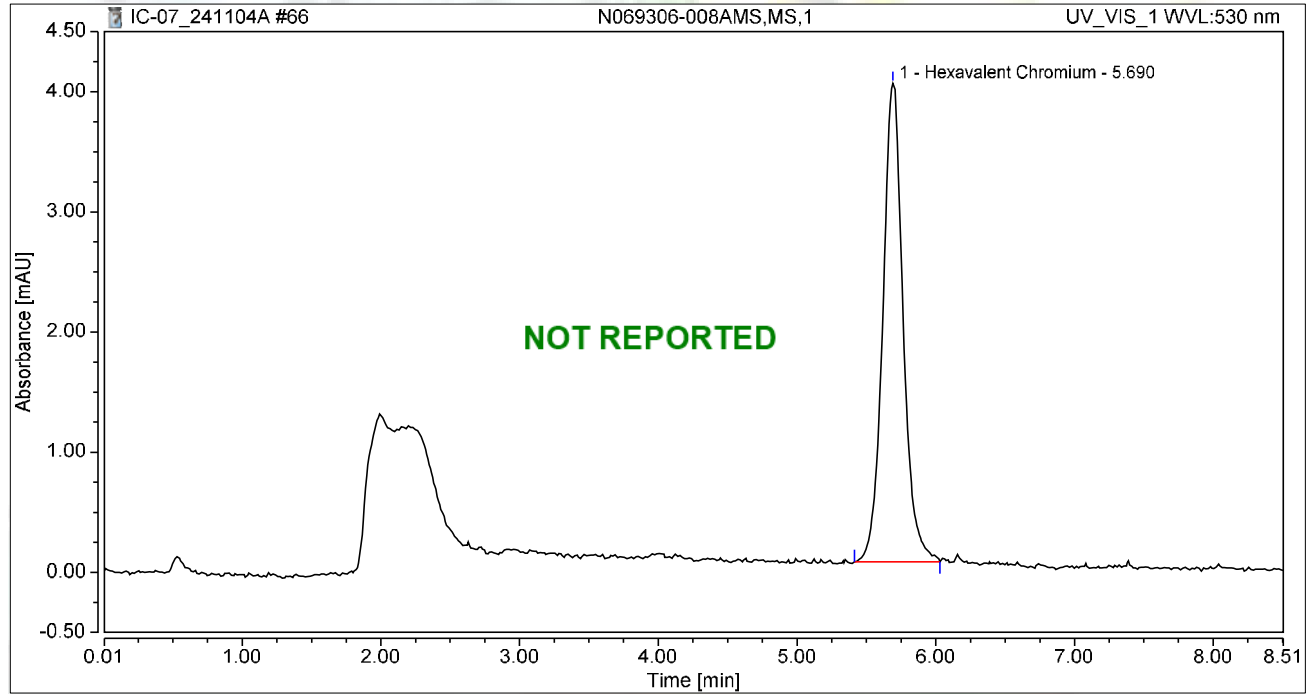
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.394	2.308	100.00	100.00	1.3871
Total:			0.394	2.308	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069306-008AMS,MS,1	Run Time (min):	8.50
Vial Number:	42	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 21:14	Sample Weight:	1.0000

Chromatogram



Integration Results

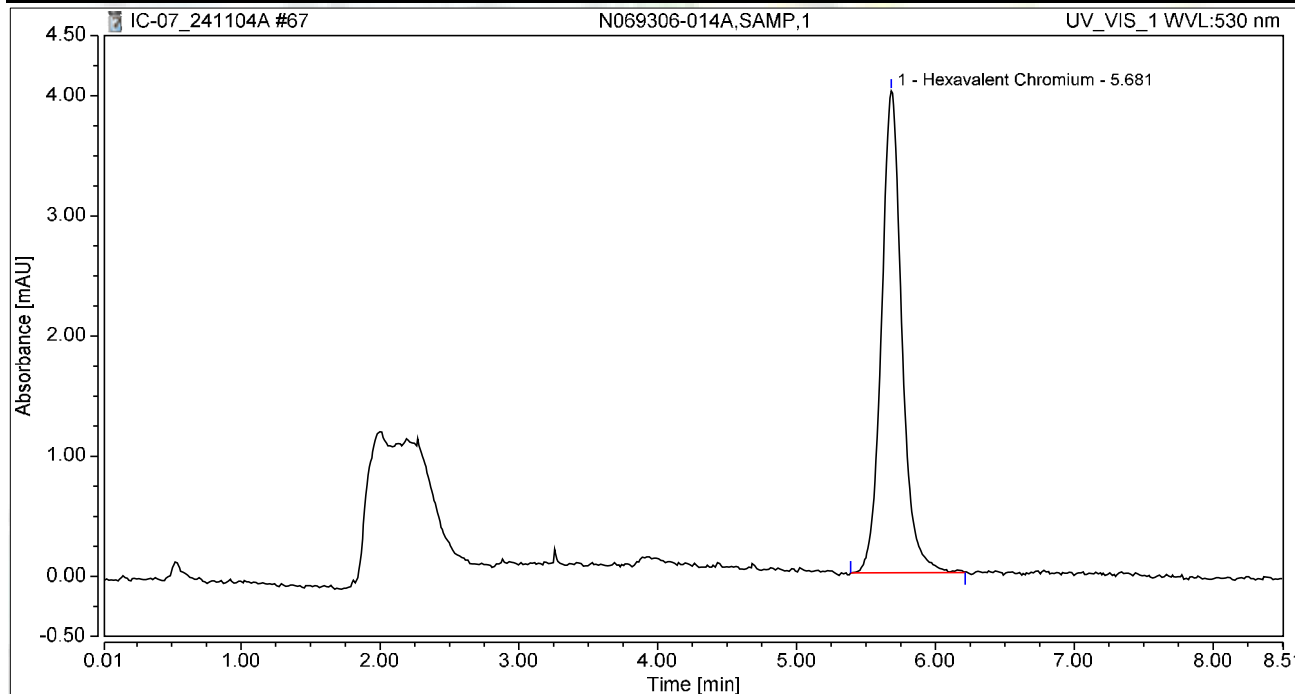
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.674	3.980	100.00	100.00	2.3765
Total:			0.674	3.980	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069306-014A,SAMP,1	Run Time (min):	8.49
Vial Number:	43	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 21:24	Sample Weight:	1.0000

Chromatogram



Integration Results

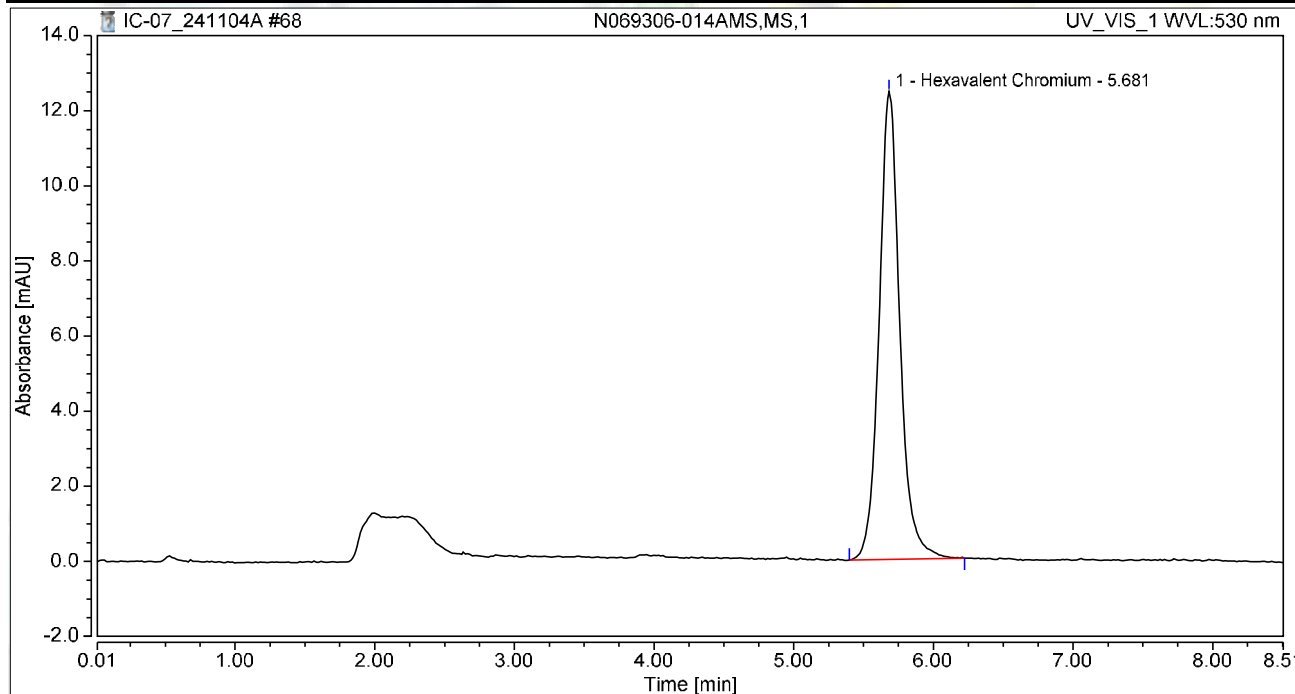
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.687	4.010	100.00	100.00	2.4197
Total:			0.687	4.010	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069306-014AMS,MS,1	Run Time (min):	8.49
Vial Number:	44	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 21:33	Sample Weight:	1.0000

Chromatogram



Integration Results

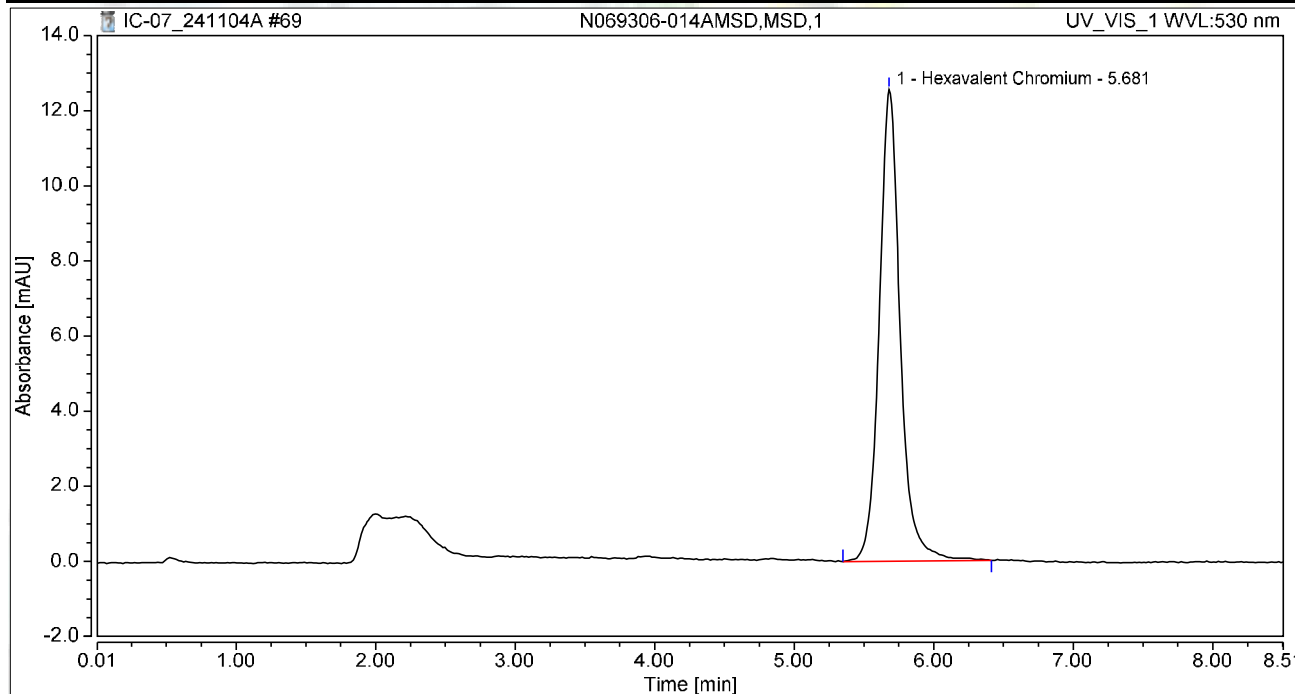
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	2.142	12.459	100.00	100.00	7.5502
Total:			2.142	12.459	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069306-014AMSD,MSD,1	Run Time (min):	8.50
Vial Number:	45	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 21:43	Sample Weight:	1.0000

Chromatogram



Integration Results

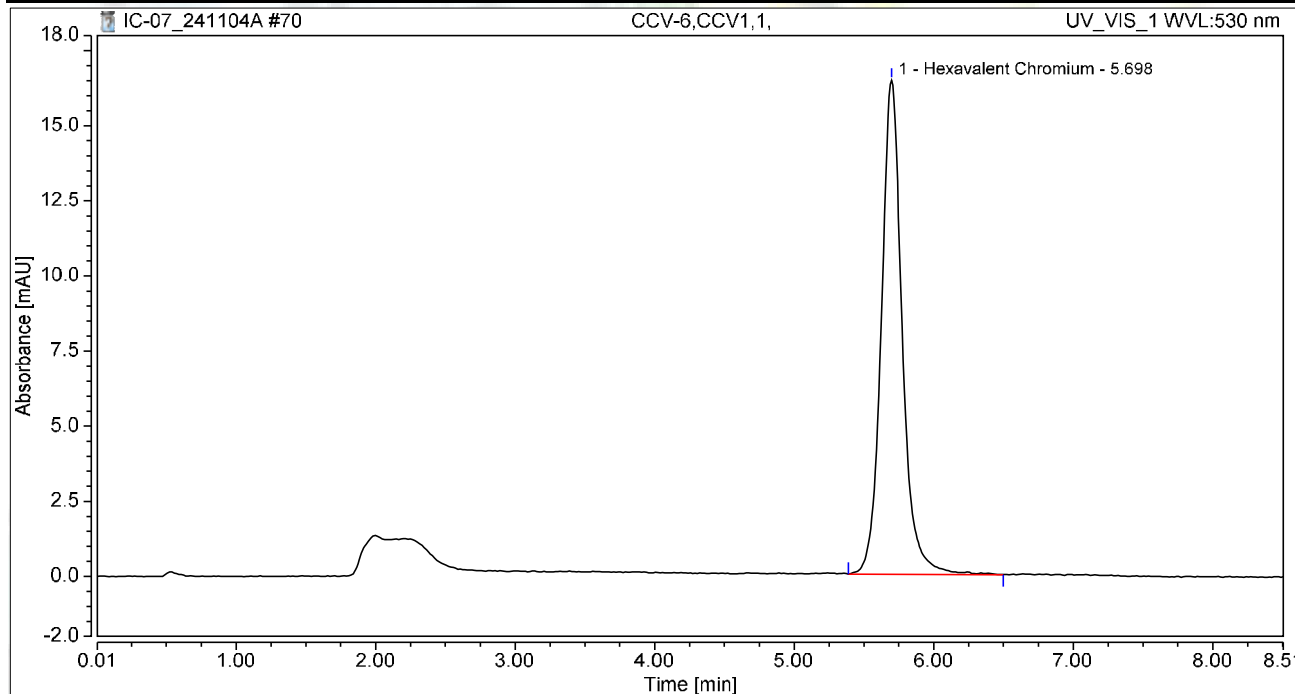
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	2.189	12.560	100.00	100.00	7.7157
Total:			2.189	12.560	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-6,CCV1,1,	Run Time (min):	8.50
Vial Number:	46	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 21:52	Sample Weight:	1.0000

Chromatogram



Integration Results

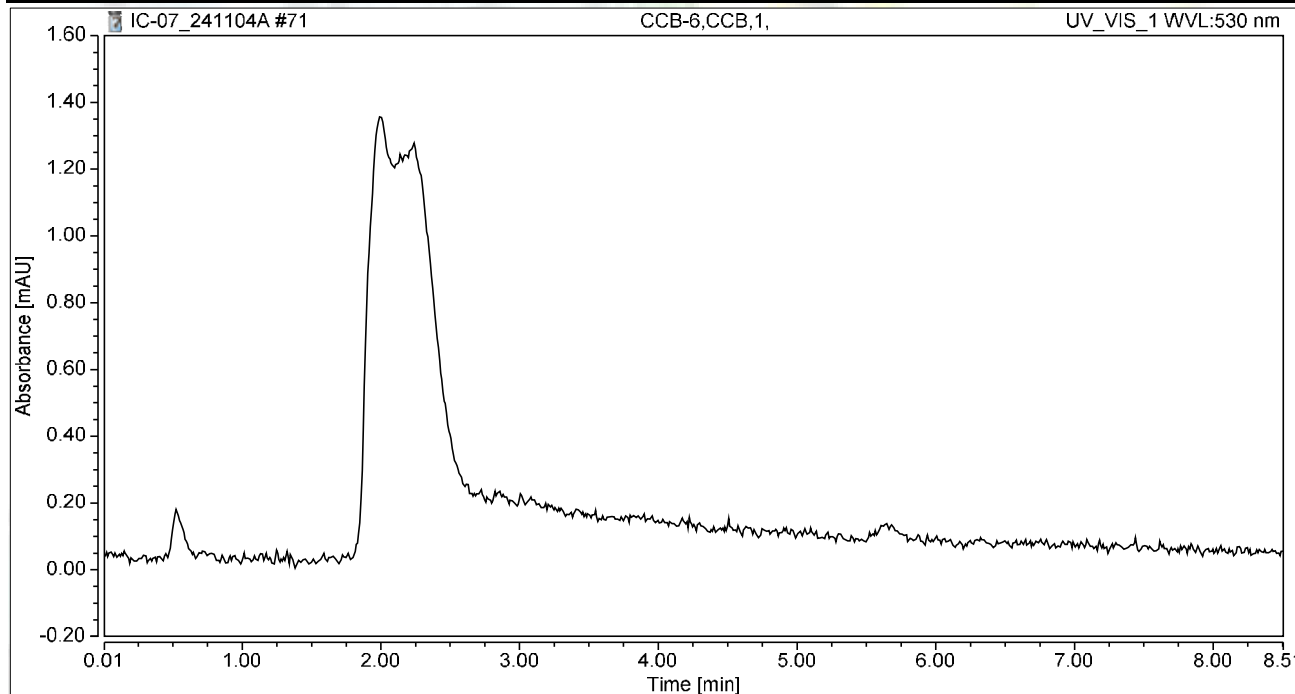
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	2.850	16.452	100.00	100.00	10.0438
Total:			2.850	16.452	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-6,CCB,1,	Run Time (min):	8.50
Vial Number:	47	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 22:02	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

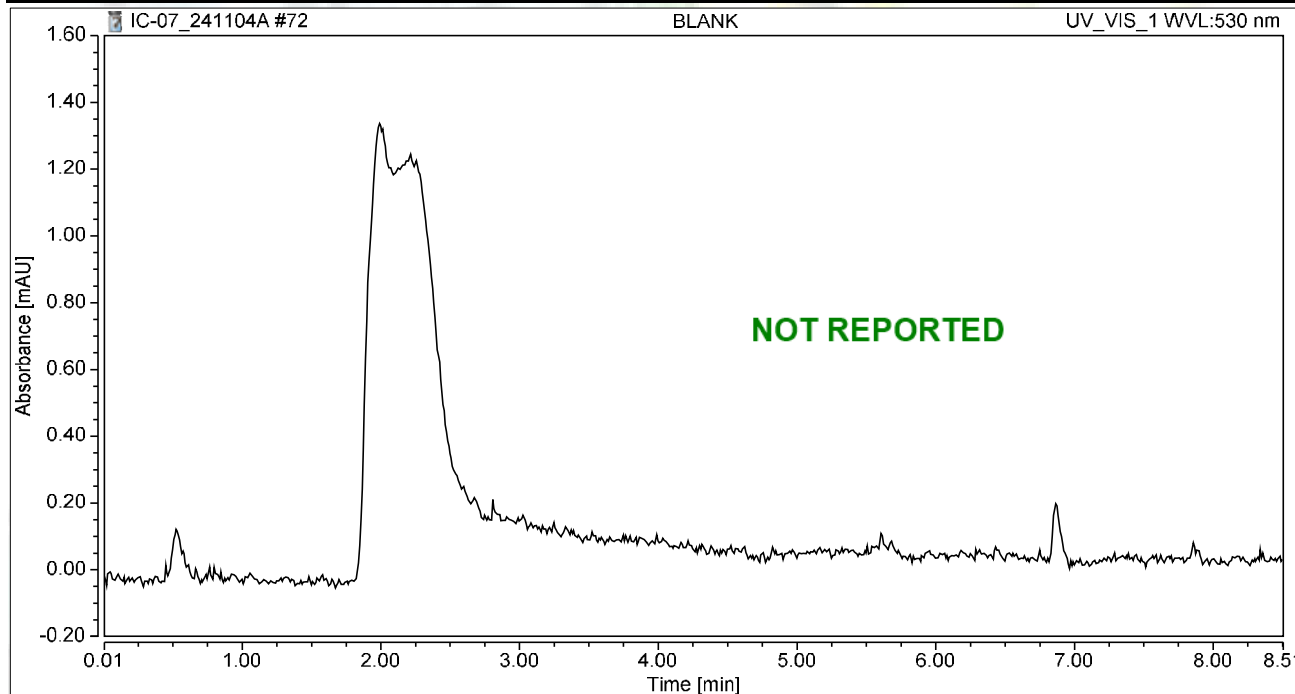


Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	48	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 22:11	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

EPA 300.0



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310



IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
REV 2.0
011416

QC Batch Number: R195096
ASSET #: N069629 / N069631 / N069638

Instrument ID: NV00922-IC8
Analyst: RBA
Date Analyzed: 11/1/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria ?(r = 0.995, r =0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)			X			X
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X	X	
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?			X			X
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?			X			X
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
14. For Hinkley DOM samples, matrix spike protocol performed on all samples ? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed ?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)			X			X
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments: **Detection of N03 in CCB4 is >1/2PQL. However, N069631 samples were closed by CCV1/CCB1 to CCV3/CCB3.**

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed			
2. Matrix / units correct			
3. Is QC present and complete?			
4. Are analytical results correct? (dilutions, calculations)			
5. Is first level review correct and complete?			

1st Level Reviewer RBA
2nd Level Reviewer *Nancy* 11/08/2024

Date: 11/8/24
Date: —

SAMPLE CALCULATION



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Sample Calculation

METHOD: EPA 300
TEST NAME: INORGANIC ANIONS BY IC
MATRIX: GROUNDWATER

FORMULA:

Calculate the Nitrate concentration, in mg/L, in the original sample as follows:

$$\text{Nitrate, mg/L} = A * DF$$

where:

A = mg/L, IC calculated concentration
DF = dilution factor

For **N069631-008C** concentration in mg/L is calculated as follows:

$$\begin{aligned} \text{Nitrate, mg/L} &= 0 * 10 \\ &= 0 \end{aligned}$$

Since PQL is 0.5,

$$\text{Nitrate, mg/L} = \text{ND}$$

Reviewed by:

d/Rocha 12/2/2024

ANALYSIS RUN LOG



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Sequence: IC-08_241023A
Operator: IC-05

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 11

Created: 10/23/2024 10:37:40 AM by IC-05
Last Update: 10/23/2024 3:11:06 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions Default	EPA 300_0_241023	Finished
2	Std - 0	Standard	2	1000.0	Anions Default	EPA 300_0_241023	Finished
3	Std - 1	Standard	3	1000.0	Anions Default	EPA 300_0_241023	Finished
4	Std - 2	Standard	4	1000.0	Anions Default	EPA 300_0_241023	Finished
5	Std - 3	Standard	5	1000.0	Anions Default	EPA 300_0_241023	Finished
6	Std - 4	Unknown	6	1000.0	Anions Default	EPA 300_0_241023	Finished
7	Std - 5	Unknown	7	1000.0	Anions Default	EPA 300_0_241023	Finished
8	Std - 4	Standard	8	1000.0	Anions Default	EPA 300_0_241023	Finished
9	Std - 5	Standard	9	1000.0	Anions Default	EPA 300_0_241023	Finished
10	ICV,ICV,1	Unknown	11	1000.0	Anions Default	EPA 300_0_241023	Finished
11	ICB,ICB,1	Unknown	12	1000.0	Anions Default	EPA 300_0_241023	Finished

Processed by:



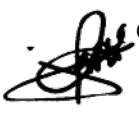
Sequence: IC-08_241023A
Operator: IC-05

Page 2 of 2
Printed: 10/23/2024 8:07:33 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 11

Created: 10/23/2024 10:37:40 AM by IC-05
Last Update: 10/23/2024 3:11:06 PM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	10/23/2024 10:53:18 AM	BLANK
2	Std - 0	10/23/2024 11:09:36 AM	IBLANK
3	Std - 1	10/23/2024 11:50:13 AM	STD-LOW
4	Std - 2	10/23/2024 12:06:31 PM	STD
5	Std - 3	10/23/2024 12:22:49 PM	STD
6	Std - 4	10/23/2024 12:39:07 PM	STD
7	Std - 5	10/23/2024 12:55:25 PM	STD-HIGH
8	Std - 4	10/23/2024 1:53:50 PM	STD
9	Std - 5	10/23/2024 2:10:09 PM	STD-HIGH
10	ICV,ICV,1	10/23/2024 2:43:53 PM	ICV, IWST-241023B
11	ICB,ICB,1	10/23/2024 3:11:09 PM	ICB



Sequence: IC-08_241101A
Operator: IC-05

Page 1 of 4
Printed: 11/1/2024 8:43:40 PM

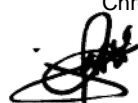
Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 45

Created: 10/31/2024 3:11:25 PM by IC-05
Last Update: 11/1/2024 4:13:05 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions Default	EPA 300_0_241023	Finished
2	Std - 0	Standard	2	1000.0	Anions Default	EPA 300_0_241023	Finished
3	Std - 1	Standard	3	1000.0	Anions Default	EPA 300_0_241023	Finished
4	Std - 2	Standard	4	1000.0	Anions Default	EPA 300_0_241023	Finished
5	Std - 3	Standard	5	1000.0	Anions Default	EPA 300_0_241023	Finished
6	Std - 4	Unknown	6	1000.0	Anions Default	EPA 300_0_241023	Finished
7	Std - 5	Unknown	7	1000.0	Anions Default	EPA 300_0_241023	Finished
8	Std - 4	Standard	8	1000.0	Anions Default	EPA 300_0_241023	Finished
9	Std - 5	Standard	9	1000.0	Anions Default	EPA 300_0_241023	Finished
10	BLANK	Unknown	1	1000.0	Anions Default	EPA 300_0_241023	Finished
11	CCV-1,CCV,1	Unknown	2	1000.0	Anions Default	EPA 300_0_241023	Finished
12	CCB-1,CCB,1	Unknown	3	1000.0	Anions Default	EPA 300_0_241023	Finished
13	MB-H2O,MBLK,1	Unknown	4	1000.0	Anions Default	EPA 300_0_241023	Finished
14	LCS-H2O,LCS,1	Unknown	5	1000.0	Anions Default	EPA 300_0_241023	Finished
15	N069629-001C,SAMP,5	Unknown	6	1000.0	Anions Default	EPA 300_0_241023	Finished
16	N069629-002C,SAMP,5	Unknown	7	1000.0	Anions Default	EPA 300_0_241023	Finished
17	N069631-008C,SAMP,10	Unknown	8	1000.0	Anions Default	EPA 300_0_241023	Finished
18	N069631-009C,SAMP,10	Unknown	9	1000.0	Anions Default	EPA 300_0_241023	Finished
19	N069631-010C,SAMP,10	Unknown	10	1000.0	Anions Default	EPA 300_0_241023	Finished
20	N069631-011C,SAMP,10	Unknown	11	1000.0	Anions Default	EPA 300_0_241023	Finished
21	N069631-012C,SAMP,10	Unknown	12	1000.0	Anions Default	EPA 300_0_241023	Finished
22	N069631-013C,SAMP,10	Unknown	13	1000.0	Anions Default	EPA 300_0_241023	Finished
23	CCV-2,CCV,1	Unknown	14	1000.0	Anions Default	EPA 300_0_241023	Finished
24	CCB-2,CCB,1	Unknown	15	1000.0	Anions Default	EPA 300_0_241023	Finished
25	N069631-014C,SAMP,10	Unknown	16	1000.0	Anions Default	EPA 300_0_241023	Finished
26	N069629-001CDUP,DUP,5	Unknown	17	1000.0	Anions Default	EPA 300_0_241023	Finished
27	N069631-008CMS,MS,10	Unknown	18	1000.0	Anions Default	EPA 300_0_241023	Finished
28	N069631-008CMSD,MSD,10	Unknown	19	1000.0	Anions Default	EPA 300_0_241023	Finished
29	N069629-001CMS,MS,5	Unknown	20	1000.0	Anions Default	EPA 300_0_241023	Finished
30	N069629-001CMSD,MSD,5	Unknown	21	1000.0	Anions Default	EPA 300_0_241023	Finished
31	N069606-001C,SAMP,5	Unknown	22	1000.0	Anions Default	EPA 300_0_241023	Finished
32	N069607-001C,SAMP,5	Unknown	23	1000.0	Anions Default	EPA 300_0_241023	Finished
33	N069610-001C,SAMP,5	Unknown	24	1000.0	Anions Default	EPA 300_0_241023	Finished
34	N069609-001C,SAMP,1	Unknown	25	1000.0	Anions Default	EPA 300_0_241023	Finished
35	CCV-3,CCV,1	Unknown	26	1000.0	Anions Default	EPA 300_0_241023	Finished
36	CCB-3,CCB,1	Unknown	27	1000.0	Anions Default	EPA 300_0_241023	Finished
37	N069631-013CMS,MS,10	Unknown	28	1000.0	Anions Default	EPA 300_0_241023	Finished
38	N069638-001C,SAMP,5	Unknown	29	1000.0	Anions Default	EPA 300_0_241023	Finished
39	N069638-002C,SAMP,5	Unknown	30	1000.0	Anions Default	EPA 300_0_241023	Finished
40	N069638-007C,SAMP,5	Unknown	31	1000.0	Anions Default	EPA 300_0_241023	Finished
41	N069638-008C,SAMP,5	Unknown	28	1000.0	Anions Default	EPA 300_0_241023	Finished

Processed by:

Chromleon © Dionex Corporation, Version 6.80 SR10 Build 2818 (166959)



11/1/2024

NV00922-IC8 RBA 11/1/2024 8:44:19 PM

317

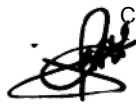
Sequence: IC-08_241101A
Operator: IC-05

Page 2 of 4
Printed: 11/1/2024 8:43:40 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 45

Created: 10/31/2024 3:11:25 PM by IC-05
Last Update: 11/1/2024 4:13:05 PM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	10/23/2024 10:53:18 AM	BLANK
2	Std - 0	10/23/2024 11:09:36 AM	IBLANK
3	Std - 1	10/23/2024 11:50:13 AM	STD-LOW
4	Std - 2	10/23/2024 12:06:31 PM	STD
5	Std - 3	10/23/2024 12:22:49 PM	STD
6	Std - 4	10/23/2024 12:39:07 PM	STD
7	Std - 5	10/23/2024 12:55:25 PM	STD-HIGH
8	Std - 4	10/23/2024 1:53:50 PM	STD
9	Std - 5	10/23/2024 2:10:09 PM	STD-HIGH
10	BLANK	11/1/2024 8:32:13 AM	BLANK
11	CCV-1,CCV,1	11/1/2024 8:48:31 AM	CCV, IWST-241031A
12	CCB-1,CCB,1	11/1/2024 9:04:50 AM	CCB
13	MB-H2O,MBLK,1	11/1/2024 9:21:07 AM	MB
14	LCS-H2O,LCS,1	11/1/2024 9:37:25 AM	LCS, IWST-241031B
15	N069629-001C,SAMP,5	11/1/2024 10:56:06 AM	SAMP,2>10mL,
16	N069629-002C,SAMP,5	11/1/2024 11:12:24 AM	SAMP,2>10mL,
17	N069631-008C,SAMP,10	11/1/2024 11:28:42 AM	SAMP,1>10mL,
18	N069631-009C,SAMP,10	11/1/2024 11:44:59 AM	SAMP,1>10mL,
19	N069631-010C,SAMP,10	11/1/2024 12:01:17 PM	SAMP,1>10mL,
20	N069631-011C,SAMP,10	11/1/2024 12:17:35 PM	SAMP,1>10mL,
21	N069631-012C,SAMP,10	11/1/2024 12:33:53 PM	SAMP,1>10mL,
22	N069631-013C,SAMP,10	11/1/2024 12:50:11 PM	SAMP,1>10mL,
23	CCV-2,CCV,1	11/1/2024 1:06:29 PM	CCV, IWST-241031A
24	CCB-2,CCB,1	11/1/2024 1:22:46 PM	CCB
25	N069631-014C,SAMP,10	11/1/2024 1:39:04 PM	SAMP,1>10mL,
26	N069629-001CDUP,DUP,5	11/1/2024 1:55:22 PM	DUP,2>10mL,
27	N069631-008CMS,MS,10	11/1/2024 2:11:41 PM	MS,1>10mL,
28	N069631-008CMSD,MSD,10	11/1/2024 2:27:59 PM	MSD,1>10mL,
29	N069629-001CMS,MS,5	11/1/2024 2:44:16 PM	MS,2>10mL,
30	N069629-001CMSD,MSD,5	11/1/2024 3:00:34 PM	MSD,2>10mL,
31	N069606-001C,SAMP,5	11/1/2024 3:16:53 PM	SAMP,2>10mL,
32	N069607-001C,SAMP,5	11/1/2024 3:33:11 PM	SAMP,2>10mL,
33	N069610-001C,SAMP,5	11/1/2024 3:49:28 PM	SAMP,2>10mL,
34	N069609-001C,SAMP,1	11/1/2024 4:05:46 PM	SAMP,10mL,
35	CCV-3,CCV,1	11/1/2024 4:22:05 PM	CCV, IWST-241031A
36	CCB-3,CCB,1	11/1/2024 4:38:23 PM	CCB
37	N069631-013CMS,MS,10	11/1/2024 4:54:41 PM	MS,1>10mL,
38	N069638-001C,SAMP,5	11/1/2024 5:10:59 PM	SAMP,2>10mL,
39	N069638-002C,SAMP,5	11/1/2024 5:27:18 PM	SAMP,2>10mL,
40	N069638-007C,SAMP,5	11/1/2024 5:43:35 PM	SAMP,2>10mL,
41	N069638-008C,SAMP,5	11/1/2024 5:59:53 PM	SAMP,2>10mL,



Sequence: IC-08_241101A
Operator: IC-05

Page 3 of 4
Printed: 11/1/2024 8:43:41 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 45

Created: 10/31/2024 3:11:25 PM by IC-05
Last Update: 11/1/2024 4:13:05 PM by IC-05

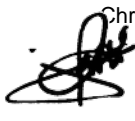
No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
42	N069638-009C,SAMP,10	Unknown	29	1000.0	Anions Default	EPA 300_0_241023	Finished
43	CCV-4,CCV,1	Unknown	28	1000.0	Anions Default	EPA 300_0_241023	Finished
44	CCB-4,CCB,1	Unknown	29	1000.0	Anions Default	EPA 300_0_241023	Finished
45	BLANK	Unknown	30	1000.0	Anions Default	EPA 300_0_241023	Finished

Sequence: IC-08_241101A
Operator: IC-05

Page 4 of 4
Printed: 11/1/2024 8:43:41 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 45
Created: 10/31/2024 3:11:25 PM by IC-05
Last Update: 11/1/2024 4:13:05 PM by IC-05

No.	Name	Inj. Date/Time	Comment
42	N069638-009C,SAMP,10	11/1/2024 6:16:11 PM	SAMP,1>10mL,
43	CCV-4,CCV,1	11/1/2024 6:32:29 PM	CCV, IWST-241031A
44	CCB-4,CCB,1	11/1/2024 6:48:47 PM	CCB
45	BLANK	11/1/2024 7:05:05 PM	BLANK



INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
INTEGRATION OF SURVEILLANCE, ANALYTICAL, & TESTING SERVICES

CALIFORNIA
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

(EPA 300) - INITIAL CALIBRATION

Instrument ID: NV00922-IC8

Date Calibrated: 10/23/2024

Initial Calibration:

Nitrate	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in mg/L	0	0.05	0.25	0.5	1.25	2.5	R ²
Area,mAU*min	0.0000	0.0175	0.0867	0.1763	0.4446	0.9364	0.999
Measured, in mg/L	0.000000	0.070700	0.255200	0.494100	1.209500	2.520500	
Relative Error (%RE)		41.4%		-1.2%			

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST-240705D

Calibration Acceptance Criteria: > 0.995 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
INTEGRATION • INNOVATION • IMPROVEMENT • INSIGHT

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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID ICV	SampType: ICV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195096						
Client ID: ICV	Batch ID: R195096	TestNo: EPA 300.0		Analysis Date: 10/23/2024	SeqNo: 6280736						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.217	0.050	1.250	0	97.3	90	110				

Sample ID CCV-1	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195096						
Client ID: CCV	Batch ID: R195096	TestNo: EPA 300.0		Analysis Date: 11/1/2024	SeqNo: 6280738						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.176	0.050	1.250	0	94.1	90	110				

Sample ID CCV-2	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195096						
Client ID: CCV	Batch ID: R195096	TestNo: EPA 300.0		Analysis Date: 11/1/2024	SeqNo: 6280750						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.222	0.050	1.250	0	97.8	90	110				

Sample ID CCV-3	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195096						
Client ID: CCV	Batch ID: R195096	TestNo: EPA 300.0		Analysis Date: 11/1/2024	SeqNo: 6280756						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.182	0.050	1.250	0	94.6	90	110				

Sample ID CCV-4	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195096						
Client ID: CCV	Batch ID: R195096	TestNo: EPA 300.0		Analysis Date: 11/1/2024	SeqNo: 6280764						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.211	0.050	1.250	0	96.9	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL INSTRUMENTATION

CALIFORNIA
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID ICB	SampType: ICB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195096						
Client ID: ICB	Batch ID: R195096	TestNo: EPA 300.0		Analysis Date: 10/23/2024	SeqNo: 6280737						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N	ND	0.050									
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Sample ID CCB-1	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195096						
Client ID: CCB	Batch ID: R195096	TestNo: EPA 300.0		Analysis Date: 11/1/2024	SeqNo: 6280739						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N	ND	0.050									
--------------	----	-------	--	--	--	--	--	--	--	--	--

Sample ID CCB-2	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195096						
Client ID: CCB	Batch ID: R195096	TestNo: EPA 300.0		Analysis Date: 11/1/2024	SeqNo: 6280751						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N	ND	0.050									
--------------	----	-------	--	--	--	--	--	--	--	--	--

Sample ID CCB-3	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195096						
Client ID: CCB	Batch ID: R195096	TestNo: EPA 300.0		Analysis Date: 11/1/2024	SeqNo: 6280757						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N	ND	0.050									
--------------	----	-------	--	--	--	--	--	--	--	--	--

Sample ID CCB-4	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195096						
Client ID: CCB	Batch ID: R195096	TestNo: EPA 300.0		Analysis Date: 11/1/2024	SeqNo: 6280765						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N	0.029	0.050									
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

Detection of NO3 in CCB4 is >1/2 PQL. However, N069631 samples were closed by CCV1/CCB1 to CCV3/CCB3.

RETENTION TIME SUMMARY



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL TECHNOLOGIES

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"Serving Clients with Passion and Professionalism"

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC8

Analytical Sequence

Date Analyzed: 11/1/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Nitrate 6.617	
CCV-1	Nitrate 6.620	
CCV-2	Nitrate 6.620	
CCV-3	Nitrate 6.614	
CCV-4	Nitrate 6.640	

Average 6.624
Applied RT Window 6.424 - 6.824

MB-R195096_NO3	Nitrate	N.A.	N.A.
LCS-R195096_NO3	Nitrate	6.627	PASS
N069631-008C	Nitrate	N.A.	N.A.
N069631-009C	Nitrate	N.A.	N.A.
N069631-010C	Nitrate	6.617	PASS
N069631-011C	Nitrate	N.A.	N.A.
N069631-012C	Nitrate	N.A.	N.A.
N069631-013C	Nitrate	N.A.	N.A.
N069631-014C	Nitrate	N.A.	N.A.
N069629-001CDUP	Nitrate	6.614	PASS
N069631-008CMS	Nitrate	6.620	PASS
N069631-008CMSD	Nitrate	6.620	PASS
N069631-013CMS	Nitrate	6.650	PASS

Reviewed by:

MRecha 12/2/2024

MDL STUDY



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL AND ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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METHOD DETECTION LIMIT (Spiked)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): 10/5/2022, 12/14/2022, 3/22/2023, 7/10/2023; 10/3/2023 & 11/14/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: mg/L

Instrument Name: **IC-08 & IC-09**

Datafile IC-08 221005A #24 IC-08 221214A #30 IC-08 230322A #35 IC-08 230710A #13 IC-09 231003A #14 IC-08 231114A #24 IC-09 231114A #19

Analyte	#1	#2	#3	#4	#5	#6	#7	Spike Conc., mg/L	SD	t _(n-1) value	MDLs	MDL	PQL
Fluoride	0.100	0.103	0.108	0.118	0.110	0.098	0.126	0.10	0.0101	3.143	0.0318	0.0318	0.10
Chloride	0.480	0.418	0.472	0.653	0.624	0.587	0.622	0.50	0.0922	3.143	0.2898	0.2898	0.50
Nitrite	0.068	0.061	0.060	0.071	0.063	0.061	0.070	0.05	0.0047	3.143	0.0149	0.0149	0.05
Bromide	0.526	0.502	0.509	0.522	0.536	0.527	0.520	0.50	0.0116	3.143	0.0364	0.0364	0.50
Nitrate	0.073	0.058	0.059	0.073	0.074	0.068	0.073	0.05	0.0068	3.143	0.0215	0.0240	0.05
Phosphate	0.112	0.096	0.114	0.120	0.130	0.093	0.124	0.10	0.0138	3.143	0.0433	0.0433	0.10
Sulfate	0.501	0.609	0.638	0.401	0.704	0.620	0.697	0.50	0.1092	3.143	0.3432	0.3432	0.50

METHOD DETECTION LIMIT (Blanks)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Analyte	MDLb	# of Records
Fluoride	0	63
Chloride	0.1456	80
Nitrite	0.0147	64
Bromide	0	18
Nitrate	0.0240	132
Phosphate	0.0237	34
Sulfate	0.2579	107

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

EPA 6010B Dissolved



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

NV00922

QC Batch Number: 113806
ASSET #: N069631

Instrument ID: ICP-04
Analyst: DBJ

Method:

Date Analyzed: 11/3/2024

- EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MMS meet tune criteria? (ICP/MS only)			X			X
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X	x		X	x	
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

% Rec of Fe in CCV3 failed, high bias. However, IQCS that enclosed samples passed criteria.

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ

Date: _____

2nd Level Reviewer [Signature]

Date: 11/7/2024

SAMPLE CALCULATION



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

SAMPLE CALCULATION

METHOD: EPA 6010B
TEST NAME: Heavy Metals by ICP
MATRIX: Groundwater

FORMULA:

Calculate the Iron concentration, in ug/L, in the original sample as follows:

$$\text{Iron, ug/L} = A * DF * PF * CF$$

where:

A = mg/L, calculated concentration

DF = Dilution Factor

PF = Final Volume of Digestate, mL / Amount of Sample, mL

CF= Conversion Factor from mg/L to ug/L, 1000

For Sample **N069631-013B**, the concentration in ug/L is calculated as follows:

$$\text{Iron, ug/L} = 3.8284 * 1 * (25/25) * 1000$$

$$\text{Iron, ug/L} = 3828.4$$

Reporting results in two significant figures,

$$\text{Iron, ug/L} = \mathbf{3800}$$

Reviewed by:

d/Rocha 12/2/2024

% RSD SUMMARY



ASSET LABORATORIES
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RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP4

PQL: 0.02 mg/L

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
Blank	BLK	1	Fe	0	-	15	PASS
Standard 1	ICAL	1	Fe	0.02	-	15	PASS
Standard 2	ICAL	1	Fe	0.05	-	15	PASS
Standard 3	ICAL	1	Fe	2	-	15	PASS
Standard 4	ICAL	1	Fe	5	-	15	PASS
Standard 5	ICAL	1	Fe	7.5	-	15	PASS
Standard 6	ICAL	1	Fe	10	-	15	PASS
Standard 7	ICAL	1	Fe	20	-	15	PASS
ICV	ICV	1	Fe	9.99754	0.07	15	PASS
ICB	ICB	1	Fe	0.00073	21.14	15	< PQL
LLCCV1	CCV1	1	Fe	0.02015	1.05	20	PASS
LLCCV2	CCV1	1	Fe	0.41492	0.18	20	PASS
ICSA1	ICSA	1	Fe	10.5341	0.74	15	PASS
ICSAB1	ICSAB	1	Fe	10.23196	0.07	15	PASS
LLCCV1	CCV1	1	Fe	0.0215	1.03	20	PASS
CCV1	CCV	1	Fe	9.84282	0.09	15	PASS
CCB1	CCB	1	Fe	0.00113	27.01	15	< PQL
CCV2	CCV	1	Fe	9.96297	0.14	15	PASS
CCB2	CCB	1	Fe	0.00547	40.02	15	< PQL
CCV3	CCV	1	Fe	11.3431	11.94	15	PASS
CCB3	CCB	1	Fe	0.00272	7.88	15	PASS
CCV4	CCV	1	Fe	10.03755	0.13	15	PASS
CCB4	CCB	1	Fe	0.00367	19.33	15	< PQL
ICSA2	ICSA	1	Fe	10.447	0.47	15	PASS
ICSAB2	ICSAB	1	Fe	10.18326	0.04	15	PASS
CCV5	CCV	1	Fe	9.99457	0.05	15	PASS
CCB5	CCB	1	Fe	0.00242	7.12	15	PASS
CCV6	CCV	1	Fe	9.95118	0.03	15	PASS
CCB6	CCB	1	Fe	0.00159	10.39	15	PASS
CCV7	CCV	1	Fe	9.91865	0.15	15	PASS
CCB7	CCB	1	Fe	0.00157	1.67	15	PASS
CCV8	CCV	1	Fe	9.89456	0.14	15	PASS
CCB8	CCB	1	Fe	0.00171	2.92	15	PASS
ICSA3	ICSA	1	Fe	10.4287	0.73	15	PASS
ICSAB3	ICSAB	1	Fe	10.11957	0.08	15	PASS
MB-113806	MBLK	1	Fe	0.00788	0.86	15	PASS
LCS-113806	LCS	1	Fe	0.10626	0.28	15	PASS
N069263-001B	SAMP	1	Fe	0.00724	1.12	15	PASS
N069263-002B	SAMP	1	Fe	0.22819	0.09	15	PASS
N069263-003B	SAMP	1	Fe	0.15424	0.15	15	PASS
N069444-001B	SAMP	1	Fe	0.01415	1.76	15	PASS

RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP4

PQL: 0.02 mg/L

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
N069444-001B	SAMP	5	Fe	0.00182	14.21	15	PASS
N069444-001B-PS	PS	1	Fe	0.12616	0.13	15	PASS
N069444-001B-MS	MS	1	Fe	0.13418	0.08	15	PASS
N069444-001B-MSD	MSD	1	Fe	0.12875	0.24	15	PASS
CCV9	CCV	1	Fe	9.95477	0.06	15	PASS
CCB9	CCB	1	Fe	0.00117	14.08	15	PASS
N069444-002B	SAMP	1	Fe	0.29149	0.08	15	PASS
N069444-003B	SAMP	1	Fe	0.1889	0.22	15	PASS
N069629-001B	SAMP	1	Fe	0.01434	1.92	15	PASS
N069629-002B	SAMP	1	Fe	0.00527	0.80	15	PASS
N069631-008B	SAMP	1	Fe	0.67798	0.11	15	PASS
N069631-009B	SAMP	1	Fe	0.95487	0.01	15	PASS
N069631-010B	SAMP	1	Fe	18.49706	0.50	15	PASS
N069631-011B	SAMP	1	Fe	0.35959	0.05	15	PASS
N069631-012B	SAMP	1	Fe	0.99981	0.03	15	PASS
N069631-013B	SAMP	1	Fe	3.8284	0.08	15	PASS
CCV10	CCV	1	Fe	9.96382	0.13	15	PASS
CCB10	CCB	1	Fe	0.00133	10.45	15	PASS
N069631-014B	SAMP	1	Fe	1.73863	0.09	15	PASS
N069638-007B	SAMP	1	Fe	0.38975	0.19	15	PASS
N069638-008B	SAMP	1	Fe	0.42789	0.16	15	PASS
N069638-009B	SAMP	1	Fe	0.22314	0.09	15	PASS
CCV11	CCV	1	Fe	9.96282	0.07	15	PASS
CCB11	CCB	1	Fe	0.0011	7.60	15	PASS
ICSA4	ICSA	1	Fe	10.40906	0.21	15	PASS
ICSAB4	ICSAB	1	Fe	10.13462	0.11	15	PASS
CCV12	CCV	1	Fe	9.96664	0.08	15	PASS
CCB12	CCB	1	Fe	0.00177	3.73	15	PASS
CCV13	CCV	1	Fe	9.97485	0.04	15	PASS
CCB13	CCB	1	Fe	0.00235	17.27	15	< PQL
CCV14	CCV	1	Fe	9.95749	0.10	15	PASS
CCB14	CCB	1	Fe	0.00249	18.37	15	< PQL
CCV15	CCV	1	Fe	9.96432	0.09	15	PASS
CCB15	CCB	1	Fe	0.00201	19.34	15	< PQL
CCV16	CCV	1	Fe	9.96705	0.08	15	PASS
CCB16	CCB	1	Fe	0.00248	13.27	15	PASS
CCV17	CCV	1	Fe	9.9352	0.05	15	PASS
CCB17	CCB	1	Fe	0.0017	25.36	15	< PQL
ICSA5	ICSA	1	Fe	10.39513	0.51	15	PASS
ICSAB5	ICSAB	1	Fe	10.10427	0.07	15	PASS
CCV18	CCV	1	Fe	9.95119	0.04	15	PASS

RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP4

PQL: 0.02 mg/L

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
CCB18	CCB	1	Fe	0.00243	10.99	15	PASS
CCV19	CCV	1	Fe	9.95327	0.02	15	PASS
CCB19	CCB	1	Fe	0.00187	26.19	15	< PQL
CCV20	CCV	1	Fe	9.95603	0.03	15	PASS
CCB20	CCB	1	Fe	0.00251	13.15	15	PASS
ICSA6	ICSA	1	Fe	10.38237	0.54	15	PASS
ICSAB6	ICSAB	1	Fe	10.12457	0.09	15	PASS
CCV21	CCV	1	Fe	10.00158	0.09	15	PASS
CCB21	CCB	1	Fe	0.00307	18.25	15	< PQL
CCV22	CCV	1	Fe	9.99557	0.05	15	PASS
CCB22	CCB	1	Fe	0.00246	16.71	15	< PQL
CCV23	CCV	1	Fe	9.96536	0.03	15	PASS
CCB23	CCB	1	Fe	0.00339	16.88	15	< PQL
CCV24	CCV	1	Fe	9.97504	0.14	15	PASS
CCB24	CCB	1	Fe	0.00265	24.37	15	< PQL
CCV25	CCV	1	Fe	9.95149	0.01	15	PASS
CCB25	CCB	1	Fe	0.00864	18.67	15	< PQL
ICSA7	ICSA	1	Fe	10.42278	0.23	15	PASS
ICSAB7	ICSAB	1	Fe	10.12494	0.08	15	PASS

ANALYSIS RUN LOG



ASSET LABORATORIES
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INJECTION LOG: 241103B

Instrument ID: NV00922-ICP4

STANDARD CODE	
Standard1	MWST-240820N, 0.5<50mL
Standard2	MWST-240820O
Standard3	MWST-240820P, 5<50mL
Standard4	MWST-240820P, 12.5<50mL
Standard5	MWST-240820P, 15<40mL
Standard6	MWST-240820P, 25<50mL
Standard7	MWST-240820P
ICV	MWST-240820AG
CCV	MWST-240820P, 25<50mL
ICSA/ICSAB	MWST-240820Q / MWST-240820R
Int. Std	MSST-240801A/240801B
PS Spike	MWST-240820Y/Z/AA

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
1	Blank	BLK	1	11/3/2024	8:56:49 PM
2	Standard 1	ICAL	1	11/3/2024	8:59:07 PM
3	Standard 2	ICAL	1	11/3/2024	9:01:24 PM
4	Standard 3	ICAL	1	11/3/2024	9:03:41 PM
5	Standard 4	ICAL	1	11/3/2024	9:05:58 PM
6	Standard 5	ICAL	1	11/3/2024	9:08:15 PM
7	Standard 6	ICAL	1	11/3/2024	9:10:32 PM
8	Standard 7	ICAL	1	11/3/2024	9:12:49 PM
9	ICV	ICV	1	11/3/2024	9:31:57 PM
10	ICB	ICB	1	11/3/2024	9:34:14 PM
11	LLCCV1	CCV1	1	11/3/2024	9:36:32 PM
12	LLCCV2	CCV1	1	11/3/2024	9:38:49 PM
13	ICSA1	ICSA	1	11/3/2024	9:41:06 PM
14	ICSAB1	ICSAB	1	11/3/2024	9:47:07 PM
15	LLCCV1	CCV1	1	11/3/2024	9:49:24 PM
16	MB-113680	MBLK	1	11/3/2024	9:51:42 PM
17	LCS-113680	LCS	1	11/3/2024	9:58:32 PM
18	N069451-001A	SAMP	1	11/3/2024	10:06:18 PM
19	N069451-001A	SAMP	5	11/3/2024	10:08:35 PM
20	N069451-001A-PS	PS	1	11/3/2024	10:10:52 PM
21	N069451-001A-MS	MS	1	11/3/2024	10:13:09 PM
22	N069451-001A-MSD	MSD	1	11/3/2024	10:15:26 PM
23	N069511-001A	SAMP	1	11/3/2024	10:17:43 PM
24	N069526-001D	SAMP	1	11/3/2024	10:20:00 PM
25	CCV1	CCV	1	11/3/2024	10:22:17 PM
26	CCB1	CCB	1	11/3/2024	10:24:34 PM
27	MB-113816	MBLK	1	11/3/2024	10:26:51 PM
28	LCS-113816	LCS	1	11/3/2024	10:29:08 PM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
29	N069644-001A	SAMP	1	11/3/2024	10:31:25 PM
30	N069644-001A	SAMP	5	11/3/2024	10:33:42 PM
31	N069644-001A-PS	PS	1	11/3/2024	10:35:59 PM
32	N069644-001A-MS	MS	1	11/3/2024	10:38:15 PM
33	N069644-001A-MSD	MSD	1	11/3/2024	10:40:32 PM
34	N069644-002A	SAMP	1	11/3/2024	10:42:49 PM
35	N069645-001A	SAMP	1	11/3/2024	10:45:06 PM
36	N069645-002A	SAMP	1	11/3/2024	10:47:23 PM
37	CCV2	CCV	1	11/3/2024	10:49:40 PM
38	CCB2	CCB	1	11/3/2024	10:51:57 PM
39	N069645-003A	SAMP	1	11/3/2024	10:54:14 PM
40	N069645-004A	SAMP	1	11/3/2024	10:56:32 PM
41	N069645-005A	SAMP	1	11/3/2024	10:58:49 PM
42	N069646-001A	SAMP	1	11/3/2024	11:01:06 PM
43	N069646-002A	SAMP	1	11/3/2024	11:03:23 PM
44	N069647-001A	SAMP	1	11/3/2024	11:05:39 PM
45	N069648-001A	SAMP	1	11/3/2024	11:07:56 PM
46	N069650-001A	SAMP	1	11/3/2024	11:10:13 PM
47	N069651-001A	SAMP	1	11/3/2024	11:12:30 PM
48	N069652-001A	SAMP	1	11/3/2024	11:14:47 PM
49	CCV3	CCV	1	11/3/2024	11:20:09 PM
50	CCB3	CCB	1	11/3/2024	11:22:26 PM
51	N069651-001A	SAMP	5	11/3/2024	11:24:42 PM
52	CCV4	CCV	1	11/3/2024	11:26:59 PM
53	CCB4	CCB	1	11/3/2024	11:29:16 PM
54	ICSA2	ICSA	1	11/3/2024	11:31:33 PM
55	ICSAB2	ICSAB	1	11/3/2024	11:33:50 PM
56	MB-113825	MBLK	1	11/3/2024	11:36:07 PM
57	LCS-113825	LCS	1	11/3/2024	11:38:24 PM
58	N069649-001B	SAMP	5	11/3/2024	11:40:41 PM
59	N069649-001B	SAMP	25	11/3/2024	11:42:58 PM
60	N069649-001B-PS	PS	5	11/3/2024	11:45:15 PM
61	N069649-001B-MS	MS	5	11/3/2024	11:47:32 PM
62	N069649-001B-MSD	MSD	5	11/3/2024	11:49:49 PM
63	LCS-113825	LCS	1	11/3/2024	11:55:31 PM
64	N069649-001B-MSD	MSD	5	11/3/2024	11:57:49 PM
65	CCV5	CCV	1	11/4/2024	12:03:12 AM
66	CCB5	CCB	1	11/4/2024	12:05:29 AM
67	MB-113824	MBLK	1	11/4/2024	12:07:46 AM
68	MB-113784 TCLP	MBLK	1	11/4/2024	12:10:02 AM
69	LCS-113824	LCS	1	11/4/2024	12:12:19 AM
70	N069575-001A	SAMP	1	11/4/2024	12:14:36 AM
71	N069575-001A	SAMP	5	11/4/2024	12:16:53 AM
72	N069575-001A-PS	PS	1	11/4/2024	12:19:10 AM
73	N069575-001A-MS	MS	1	11/4/2024	12:21:27 AM
74	N069575-001A-MSD	MSD	1	11/4/2024	12:23:44 AM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
75	N069575-002A	SAMP	1	11/4/2024	12:26:00 AM
76	N069575-003A	SAMP	1	11/4/2024	12:28:17 AM
77	CCV6	CCV	1	11/4/2024	12:30:34 AM
78	CCB6	CCB	1	11/4/2024	12:32:51 AM
79	N069575-004A	SAMP	1	11/4/2024	12:35:08 AM
80	N069575-005A	SAMP	1	11/4/2024	12:37:25 AM
81	N069575-006A	SAMP	1	11/4/2024	12:39:42 AM
82	N069575-007A	SAMP	1	11/4/2024	12:41:59 AM
83	N069575-008A	SAMP	1	11/4/2024	12:44:16 AM
84	N069575-009A	SAMP	1	11/4/2024	12:46:32 AM
85	N069577-001A	SAMP	1	11/4/2024	12:48:49 AM
86	N069612-002A	SAMP	1	11/4/2024	12:51:06 AM
87	N069612-002A-DUP	DUP	1	11/4/2024	12:53:23 AM
88	N069612-011A	SAMP	1	11/4/2024	12:55:40 AM
89	CCV7	CCV	1	11/4/2024	12:57:57 AM
90	CCB7	CCB	1	11/4/2024	1:00:13 AM
91	N069623-001A	SAMP	1	11/4/2024	1:02:30 AM
92	N069624-001A	SAMP	1	11/4/2024	1:04:47 AM
93	N069625-001A	SAMP	1	11/4/2024	1:07:05 AM
94	N069626-001A	SAMP	1	11/4/2024	1:09:23 AM
95	CCV8	CCV	1	11/4/2024	1:11:39 AM
96	CCB8	CCB	1	11/4/2024	1:13:56 AM
97	ICSA3	ICSA	1	11/4/2024	1:16:13 AM
98	ICSAB3	ICSAB	1	11/4/2024	1:18:30 AM
99	MB-113806	MBLK	1	11/4/2024	1:21:39 AM
100	LCS-113806	LCS	1	11/4/2024	1:27:34 AM
101	N069263-001B	SAMP	1	11/4/2024	1:29:52 AM
102	N069263-002B	SAMP	1	11/4/2024	1:32:10 AM
103	N069263-003B	SAMP	1	11/4/2024	1:34:27 AM
104	N069444-001B	SAMP	1	11/4/2024	1:36:45 AM
105	N069444-001B	SAMP	5	11/4/2024	1:39:03 AM
106	N069444-001B-PS	PS	1	11/4/2024	1:41:21 AM
107	N069444-001B-MS	MS	1	11/4/2024	1:43:38 AM
108	N069444-001B-MSD	MSD	1	11/4/2024	1:45:56 AM
109	CCV9	CCV	1	11/4/2024	1:48:13 AM
110	CCB9	CCB	1	11/4/2024	1:50:30 AM
111	N069444-002B	SAMP	1	11/4/2024	1:52:48 AM
112	N069444-003B	SAMP	1	11/4/2024	1:55:05 AM
113	N069629-001B	SAMP	1	11/4/2024	1:57:23 AM
114	N069629-002B	SAMP	1	11/4/2024	1:59:41 AM
115	N069631-008B	SAMP	1	11/4/2024	2:01:59 AM
116	N069631-009B	SAMP	1	11/4/2024	2:04:16 AM
117	N069631-010B	SAMP	1	11/4/2024	2:06:34 AM
118	N069631-011B	SAMP	1	11/4/2024	2:08:52 AM
119	N069631-012B	SAMP	1	11/4/2024	2:11:09 AM
120	N069631-013B	SAMP	1	11/4/2024	2:13:26 AM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
121	CCV10	CCV	1	11/4/2024	2:15:43 AM
122	CCB10	CCB	1	11/4/2024	2:18:00 AM
123	N069631-014B	SAMP	1	11/4/2024	2:20:18 AM
124	N069638-007B	SAMP	1	11/4/2024	2:22:35 AM
125	N069638-008B	SAMP	1	11/4/2024	2:24:53 AM
126	N069638-009B	SAMP	1	11/4/2024	2:27:11 AM
127	CCV11	CCV	1	11/4/2024	2:29:28 AM
128	CCB11	CCB	1	11/4/2024	2:31:45 AM
129	ICSA4	ICSA	1	11/4/2024	2:34:02 AM
130	ICSAB4	ICSAB	1	11/4/2024	2:36:19 AM
131	MB-113826	MBLK	1	11/4/2024	2:41:04 AM
132	MB-113743 STLC	MBLK	5	11/4/2024	2:43:22 AM
133	LCS-113826	LCS	1	11/4/2024	2:45:40 AM
134	N069757-001A	SAMP	5	11/4/2024	2:47:58 AM
135	N069757-001A	SAMP	25	11/4/2024	2:50:16 AM
136	N069757-001A-PS	PS	5	11/4/2024	2:52:34 AM
137	N069757-001A-MS	MS	5	11/4/2024	2:54:52 AM
138	N069757-001A-MSD	MSD	5	11/4/2024	2:57:10 AM
139	N069757-002A	SAMP	5	11/4/2024	2:59:28 AM
140	N069757-003A	SAMP	5	11/4/2024	3:01:46 AM
141	CCV12	CCV	1	11/4/2024	3:04:03 AM
142	CCB12	CCB	1	11/4/2024	3:06:20 AM
143	N069757-004A	SAMP	5	11/4/2024	3:08:38 AM
144	N069757-005A	SAMP	5	11/4/2024	3:10:56 AM
145	N069757-006A	SAMP	5	11/4/2024	3:13:14 AM
146	N069757-007A	SAMP	5	11/4/2024	3:15:32 AM
147	N069757-008A	SAMP	5	11/4/2024	3:17:51 AM
148	N069757-008A	SAMP	5	11/4/2024	3:20:08 AM
149	N069576-001A	SAMP	5	11/4/2024	3:22:26 AM
150	N069576-002A	SAMP	5	11/4/2024	3:24:44 AM
151	N069574-001A	SAMP	5	11/4/2024	3:27:02 AM
152	N069574-002A	SAMP	5	11/4/2024	3:29:20 AM
153	CCV13	CCV	1	11/4/2024	3:31:37 AM
154	CCB13	CCB	1	11/4/2024	3:33:54 AM
155	N069577-001A	SAMP	5	11/4/2024	3:36:12 AM
156	N069578-001A	SAMP	5	11/4/2024	3:38:30 AM
157	N069578-002A	SAMP	5	11/4/2024	3:40:48 AM
158	N069579-001A	SAMP	5	11/4/2024	3:43:06 AM
159	CCV14	CCV	1	11/4/2024	3:45:23 AM
160	CCB14	CCB	1	11/4/2024	3:47:39 AM
161	MB-113773	MBLK	1	11/4/2024	3:49:58 AM
162	MB-113711 TCLP	MBLK	1	11/4/2024	3:52:16 AM
163	MB-113762 TCLP	MBLK	1	11/4/2024	3:54:34 AM
164	MB-113710 STLC	MBLK	1	11/4/2024	3:56:52 AM
165	LCS-113773	LCS	1	11/4/2024	3:59:10 AM
166	N069536-001A	SAMP	5	11/4/2024	4:01:28 AM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
167	N069536-002A	SAMP	5	11/4/2024	4:03:46 AM
168	N069536-003A	SAMP	5	11/4/2024	4:06:04 AM
169	N069537-001A	SAMP	5	11/4/2024	4:08:21 AM
170	N069538-001A	SAMP	5	11/4/2024	4:10:39 AM
171	CCV15	CCV	1	11/4/2024	4:12:56 AM
172	CCB15	CCB	1	11/4/2024	4:15:13 AM
173	N069540-001A	SAMP	5	11/4/2024	4:17:31 AM
174	N069541-001A	SAMP	1	11/4/2024	4:19:48 AM
175	N069541-002A	SAMP	1	11/4/2024	4:22:07 AM
176	N069541-003A	SAMP	1	11/4/2024	4:24:25 AM
177	N069541-001A ST	SAMP	5	11/4/2024	4:26:43 AM
178	N069541-002A ST	SAMP	5	11/4/2024	4:29:01 AM
179	N069541-003A ST	SAMP	5	11/4/2024	4:31:19 AM
180	N069591-001A	SAMP	1	11/4/2024	4:33:37 AM
181	N069591-001A	SAMP	5	11/4/2024	4:35:54 AM
182	N069591-001A-PS	PS	1	11/4/2024	4:38:13 AM
183	CCV16	CCV	1	11/4/2024	4:40:30 AM
184	CCB16	CCB	1	11/4/2024	4:42:46 AM
185	N069591-001A-MS	MS	1	11/4/2024	4:45:04 AM
186	N069591-001A-MSD	MSD	1	11/4/2024	4:47:22 AM
187	N069591-002A	SAMP	1	11/4/2024	4:49:40 AM
188	N069591-003A	SAMP	1	11/4/2024	4:51:57 AM
189	N069591-003A-DUP	DUP	1	11/4/2024	4:54:15 AM
190	CCV17	CCV	1	11/4/2024	4:56:32 AM
191	CCB17	CCB	1	11/4/2024	4:58:49 AM
192	ICSA5	ICSA	1	11/4/2024	5:01:06 AM
193	ICSAB5	ICSAB	1	11/4/2024	5:03:24 AM
194	MB-113771	MBLK	1	11/4/2024	5:05:42 AM
195	MB-113314 STLC	MBLK	5	11/4/2024	5:08:00 AM
196	MB-113709 STLC	MBLK	5	11/4/2024	5:10:19 AM
197	LCS-113771	LCS	1	11/4/2024	5:12:37 AM
198	N069193-001C	SAMP	5	11/4/2024	5:14:55 AM
199	N069528-001B	SAMP	5	11/4/2024	5:17:13 AM
200	N069528-002A	SAMP	5	11/4/2024	5:19:31 AM
201	N069531-001A	SAMP	5	11/4/2024	5:21:48 AM
202	N069531-001A	SAMP	25	11/4/2024	5:24:06 AM
203	N069531-001A-PS	PS	5	11/4/2024	5:26:24 AM
204	CCV18	CCV	1	11/4/2024	5:28:41 AM
205	CCB18	CCB	1	11/4/2024	5:30:58 AM
206	N069531-001A-MS	MS	5	11/4/2024	5:33:15 AM
207	N069531-001A-MSD	MSD	5	11/4/2024	5:35:34 AM
208	N069532-001A	SAMP	5	11/4/2024	5:37:52 AM
209	N069532-002A	SAMP	5	11/4/2024	5:40:10 AM
210	N069533-001A	SAMP	5	11/4/2024	5:42:28 AM
211	N069533-002A	SAMP	5	11/4/2024	5:44:46 AM
212	N069534-001A	SAMP	5	11/4/2024	5:47:04 AM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
213	N069534-002A	SAMP	5	11/4/2024	5:49:22 AM
214	N069534-003A	SAMP	5	11/4/2024	5:51:40 AM
215	N069534-004A	SAMP	5	11/4/2024	5:53:58 AM
216	CCV19	CCV	1	11/4/2024	5:56:15 AM
217	CCB19	CCB	1	11/4/2024	5:58:32 AM
218	N069534-005A	SAMP	5	11/4/2024	6:00:50 AM
219	N069534-006A	SAMP	5	11/4/2024	6:03:08 AM
220	N069535-001A	SAMP	5	11/4/2024	6:05:26 AM
221	N069535-002A	SAMP	5	11/4/2024	6:07:44 AM
222	N069535-003A	SAMP	5	11/4/2024	6:10:02 AM
223	N069535-004A	SAMP	5	11/4/2024	6:12:20 AM
224	N069535-005A	SAMP	5	11/4/2024	6:14:38 AM
225	N069535-006A	SAMP	5	11/4/2024	6:16:57 AM
226	N069535-007A	SAMP	5	11/4/2024	6:19:15 AM
227	CCV20	CCV	1	11/4/2024	6:21:31 AM
228	CCB20	CCB	1	11/4/2024	6:23:48 AM
229	ICSA6	ICSA	1	11/4/2024	6:26:05 AM
230	ICSAB6	ICSAB	1	11/4/2024	6:28:23 AM
231	MB-113823	MBLK	1	11/4/2024	6:30:40 AM
232	MB-113779 STLC	MBLK	5	11/4/2024	6:32:58 AM
233	LCS-113823	LCS	1	11/4/2024	6:35:15 AM
234	N069618-002A	SAMP	5	11/4/2024	6:37:32 AM
235	N069618-003A	SAMP	5	11/4/2024	6:39:49 AM
236	N069618-004A	SAMP	5	11/4/2024	6:42:07 AM
237	N069618-005A	SAMP	5	11/4/2024	6:44:24 AM
238	N069619-001A	SAMP	5	11/4/2024	6:46:41 AM
239	N069619-002A	SAMP	5	11/4/2024	6:48:59 AM
240	N069619-003A	SAMP	5	11/4/2024	6:51:17 AM
241	CCV21	CCV	1	11/4/2024	6:53:33 AM
242	CCB21	CCB	1	11/4/2024	6:55:50 AM
243	N069619-004A	SAMP	5	11/4/2024	6:58:08 AM
244	N069619-005A	SAMP	5	11/4/2024	7:00:26 AM
245	N069619-006A	SAMP	5	11/4/2024	7:02:43 AM
246	N069620-001A	SAMP	5	11/4/2024	7:05:00 AM
247	N069620-002A	SAMP	5	11/4/2024	7:07:17 AM
248	N069620-003A	SAMP	5	11/4/2024	7:09:34 AM
249	N069620-004A	SAMP	5	11/4/2024	7:11:51 AM
250	N069620-005A	SAMP	5	11/4/2024	7:14:08 AM
251	N069621-001A	SAMP	5	11/4/2024	7:16:26 AM
252	N069621-001A	SAMP	25	11/4/2024	7:18:43 AM
253	CCV22	CCV	1	11/4/2024	7:21:00 AM
254	CCB22	CCB	1	11/4/2024	7:23:17 AM
255	N069621-001A-PS	PS	5	11/4/2024	7:25:34 AM
256	N069621-001A-MS	MS	5	11/4/2024	7:27:51 AM
257	N069621-001A-MSD	MSD	5	11/4/2024	7:30:09 AM
258	N069621-002A	SAMP	5	11/4/2024	7:32:27 AM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
259	N069622-001A	SAMP	5	11/4/2024	7:34:44 AM
260	N069623-001A	SAMP	5	11/4/2024	7:37:01 AM
261	N069624-001A	SAMP	5	11/4/2024	7:39:18 AM
262	CCV23	CCV	1	11/4/2024	7:41:35 AM
263	CCB23	CCB	1	11/4/2024	7:43:52 AM
264	MB-113842	MBLK	1	11/4/2024	7:46:09 AM
265	MB-113818 TCLP	MBLK	1	11/4/2024	7:48:26 AM
266	MB-113780 STLC	MBLK	5	11/4/2024	7:50:43 AM
267	LCS-113842	LCS	1	11/4/2024	7:53:01 AM
268	N069621-001A	SAMP	1	11/4/2024	7:55:18 AM
269	N069621-001A	SAMP	5	11/4/2024	7:57:35 AM
270	N069621-001A-PS	PS	1	11/4/2024	7:59:52 AM
271	N069621-001A-MS	MS	1	11/4/2024	8:02:09 AM
272	N069621-001A-MSD	MSD	1	11/4/2024	8:04:26 AM
273	N069621-002A	SAMP	1	11/4/2024	8:06:43 AM
274	CCV24	CCV	1	11/4/2024	8:09:00 AM
275	CCB24	CCB	1	11/4/2024	8:11:18 AM
276	N069646-001A	SAMP	1	11/4/2024	8:13:35 AM
277	N069646-002A	SAMP	1	11/4/2024	8:15:53 AM
278	N069650-001A	SAMP	1	11/4/2024	8:18:10 AM
279	N069651-001A	SAMP	1	11/4/2024	8:20:27 AM
280	N069652-001A	SAMP	1	11/4/2024	8:22:43 AM
281	N069625-001A ST	SAMP	5	11/4/2024	8:25:01 AM
282	N069626-001A ST	SAMP	5	11/4/2024	8:27:18 AM
283	N069535-007A	SAMP	5	11/4/2024	8:29:36 AM
284	CCV25	CCV	1	11/4/2024	8:31:53 AM
285	CCB25	CCB	1	11/4/2024	8:34:10 AM
286	ICSA7	ICSA	1	11/4/2024	8:36:27 AM
287	ICSAB7	ICSAB	1	11/4/2024	8:38:44 AM

SAMPLE PREPARATION LOG



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ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: **11/1/2024 8:00:00 PM**
 Prep End Date: **11/1/2024 11:50:00 PM**

Reviewed/ Date: **KDG / 11/6/2024**

Prep Batch **113806** Prep Code: **3010_W DISS**

Initials/ Date: _____

Prep Factor Units: Temp. (°C): Location:
 mL / mL **95.2 DB-4-39**

Technician: **Diane Jetajobe**

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-113806 50ML LOT # MP3971	Aqueous		25	<input type="checkbox"/>	25	1.000		
LCS2-113806	Aqueous	<2	25	<input type="checkbox"/>	25	1.000		
MB-113806 THERMOMETER ID: DIGESTION 7	Aqueous		25	<input type="checkbox"/>	25	1.000		
N069263-001B REDIGEST	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069263-002B REDIGEST	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069263-003B REDIGEST	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069444-001B REDIGEST	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069444-001B-MS REDIGEST	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069444-001B-MSD REDIGEST	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069444-002B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17140	NITRIC ACID
17147	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
MSST-231025E	Sodium	LCS,MS,MSD	0.025
MSST-231025F	Potassium	LCS,MS,MSD	0.025
MWST-240820AA	ICP Solution C	LCS,MS,MSD	0.5
MWST-240820Y	ICP Solution A	LCS,MS,MSD	0.5
MWST-240820Z	ICP Solution B	LCS,MS,MSD	0.5

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 11/1/2024 8:00:00 PM
 Prep End Date: 11/1/2024 11:50:00 PM

Reviewed/ Date: KDG / 11/6/2024

Prep Batch 113806 Prep Code:3010_W_DISS

Initials/ Date: _____

Prep Factor Units: Temp. (°C): Location:
 mL / mL 95.2 DB-4-39

Technician: **Diane Jetajobe**

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N069444-003B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069629-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069629-001B-MS2	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069629-001B-MSD2	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069629-002B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069631-008B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069631-009B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069631-010B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069631-011B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069631-012B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069631-013B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069631-014B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069638-007B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069638-008B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17140	NITRIC ACID
17147	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
MSST-231025E	Sodium	LCS,MS,MSD	0.025
MSST-231025F	Potassium	LCS,MS,MSD	0.025
MWST-240820AA	ICP Solution C	LCS,MS,MSD	0.5
MWST-240820Y	ICP Solution A	LCS,MS,MSD	0.5
MWST-240820Z	ICP Solution B	LCS,MS,MSD	0.5

Prep Start Date: **11/1/2024 8:00:00 PM**
 Prep End Date: **11/1/2024 11:50:00 PM**

Reviewed/ Date: **KDG / 11/6/2024**

Prep Batch **113806** Prep Code: **3010_W_DISS**

Initials/ Date: _____

Prep Factor Units: Temp. (°C): Location:
 mL / mL **95.2 DB-4-39**

Technician: **Diane Jetajobe**

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N069638-009B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17140	NITRIC ACID
17147	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
MSST-231025E	Sodium	LCS,MS,MSD	0.025
MSST-231025F	Potassium	LCS,MS,MSD	0.025
MWST-240820AA	ICP Solution C	LCS,MS,MSD	0.5
MWST-240820Y	ICP Solution A	LCS,MS,MSD	0.5
MWST-240820Z	ICP Solution B	LCS,MS,MSD	0.5

INITIAL CALIBRATION DATA SUMMARY



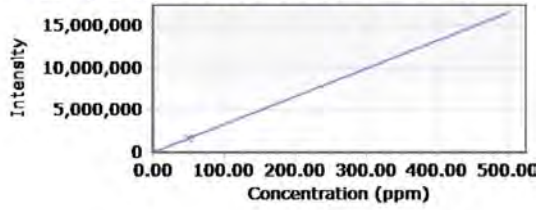
ASSET LABORATORIES
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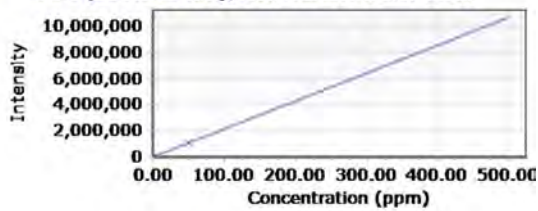
Cu I (324.754 nm), Interferent Calibration



Intensity = 33101.85948620 * Concentration + 684.20878678
 Correlation coefficient: 1.00000
 %RSE:N/A

Standards	Intensity	Method Conc	Calculated Conc	% Error
IEC Blank	684.20879	0.00000	0.00000	N/A
Interferent 09 (Cu)	1655777.18310	50.00000	50.00000	0.00000

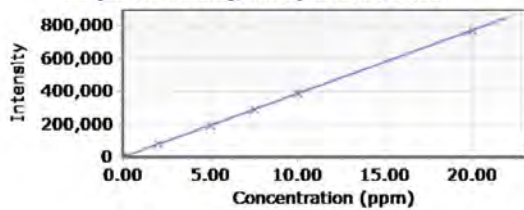
Fe I (239.563 nm), Interferent Calibration



Intensity = 21449.83771380 * Concentration + 29.10415739
 Correlation coefficient: 1.00000
 %RSE:N/A

Standards	Intensity	Method Conc	Calculated Conc	% Error
IEC Blank	29.10416	0.00000	0.00000	N/A
Interferent 10 (Fe)	1072520.98985	50.00000	50.00000	0.00000

Fe (259.940 nm), Analyte Calibration

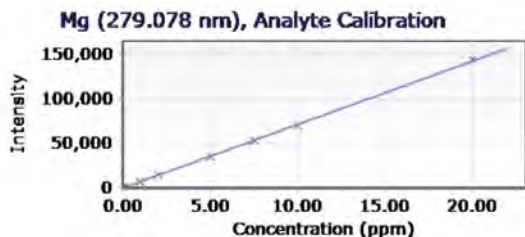


Intensity = 38655.70515879 * Concentration + 77.34197281
 Correlation coefficient: 1.00000
 %RSE:10.33194662

Standards	Intensity	Method Conc	Calculated Conc	% Error
Blank	58.55178	0.00000	-0.00049	N/A

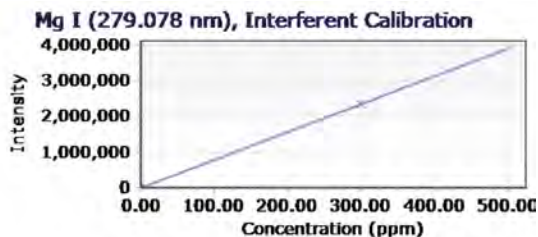


Standards	Intensity	Method Conc	Calculated Conc	% Error
Standard 1	865.09515	0.02000	0.02038	1.89352
Standard 2	2454.74594	0.05000	0.06150	23.00404
Standard 3	78039.27706	2.00000	2.01683	0.84143
Standard 4	193452.40085	5.00000	5.00250	0.04995
Standard 5	288913.29178	7.50000	7.47201	0.37315
Standard 6	385371.75923	10.00000	9.96734	0.32664
Standard 7	772158.65917	20.00000	19.97328	0.13359



Intensity = 7143.19935422 * Concentration + 64.36091118
 Correlation coefficient: 0.99995
 %RSE:1.33701321

Standards	Intensity	Method Conc	Calculated Conc	% Error
Blank	35.16732	0.00000	-0.00409	N/A
Standard 1	777.54694	0.10000	0.09984	0.15874
Standard 2	7358.31853	1.00000	1.02111	2.11051
Standard 3	14270.48348	2.00000	1.98876	0.56191
Standard 4	35283.73305	5.00000	4.93048	1.39048
Standard 5	53076.03316	7.50000	7.42128	1.04962
Standard 6	70981.23430	10.00000	9.92789	0.72113
Standard 7	144023.50807	20.00000	20.15332	0.76658



Intensity = 7830.79440384 * Concentration + 25.13274543

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICV	SampType: ICV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: ICV	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/3/2024	SeqNo: 6285011						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	9997.540	20	10000	0	100	90	110				

Sample ID: LLCCV1	SampType: CCV1	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: ZZZZZZ	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/3/2024	SeqNo: 6285013						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	20.150	20	20.00	0	101	80	120				

Sample ID: CCV1	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCV	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/3/2024	SeqNo: 6285027						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	9842.820	20	10000	0	98.4	90	110				

Sample ID: CCV2	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCV	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/3/2024	SeqNo: 6285039						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	9962.970	20	10000	0	99.6	90	110				

Sample ID: CCV3	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCV	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/3/2024	SeqNo: 6285051						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	11343.100	20	10000	0	113	90	110				S

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

% Rec of Fe in CCV3 failed, high bias. However, IQCS that enclosed passed criteria.

[Signature] 11/19/2024

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: CCV4	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCV	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/3/2024	SeqNo: 6285054						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 10037.550 20 10000 0 100 90 110

Sample ID: CCV5	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCV	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/4/2024	SeqNo: 6285067						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 9994.570 20 10000 0 99.9 90 110

Sample ID: CCV6	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCV	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/4/2024	SeqNo: 6285079						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 9951.180 20 10000 0 99.5 90 110

Sample ID: CCV7	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCV	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/4/2024	SeqNo: 6285091						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 9918.650 20 10000 0 99.2 90 110

Sample ID: CCV8	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCV	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/4/2024	SeqNo: 6285097						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 9894.560 20 10000 0 98.9 90 110

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: CCV9	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCV	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/4/2024	SeqNo: 6285111						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9954.770	20	10000	0	99.5	90	110
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Sample ID: CCV10	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCV	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/4/2024	SeqNo: 6285123						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9963.820	20	10000	0	99.6	90	110
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Sample ID: CCV11	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCV	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/4/2024	SeqNo: 6285129						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9962.820	20	10000	0	99.6	90	110
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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NEVADA
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P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICB	SampType: ICB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: ICB	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/3/2024	SeqNo: 6285012						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 0.730 20

Sample ID: CCB1	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCB	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/3/2024	SeqNo: 6285028						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 1.130 20

Sample ID: CCB2	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCB	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/3/2024	SeqNo: 6285040						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 5.470 20

Sample ID: CCB3	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCB	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/3/2024	SeqNo: 6285052						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 2.720 20

Sample ID: CCB4	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCB	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/3/2024	SeqNo: 6285055						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 3.670 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPB

Sample ID: CCB5	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCB	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/4/2024	SeqNo: 6285088						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 2.420 20

Sample ID: CCB6	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCB	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/4/2024	SeqNo: 6285080						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 1.590 20

Sample ID: CCB7	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCB	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/4/2024	SeqNo: 6285092						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 1.570 20

Sample ID: CCB8	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCB	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/4/2024	SeqNo: 6285098						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 1.710 20

Sample ID: CCB9	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCB	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/4/2024	SeqNo: 6285112						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 1.170 20

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out

E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values

H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
(M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPB

Sample ID: CCB10	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCB	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/4/2024	SeqNo: 6285124						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	1.330	20
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Sample ID: CCB11	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCB	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/4/2024	SeqNo: 6285130						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	1.100	20
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPB

Sample ID: ICSA1	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: ICSA	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/3/2024	SeqNo: 6285015						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10363.410	50	10000	0	104	80	120				
Calcium	10134.490	500	10000	0	101	80	120				
Iron	10534.100	20	10000	0	105	80	120				
Magnesium	10168.650	100	10000	0	102	80	120				

Sample ID: ICSA1	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: ICSA	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/3/2024	SeqNo: 6285016						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10316.720	50	10000	0	103	80	120				
Calcium	9981.690	500	10000	0	99.8	80	120				
Iron	10231.960	20	10000	0	102	80	120				
Magnesium	10041.210	100	10000	0	100	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: ICSA	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/3/2024	SeqNo: 6285056						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10354.080	50	10000	0	104	80	120				
Calcium	9965.260	500	10000	0	99.7	80	120				
Iron	10447.000	20	10000	0	104	80	120				
Magnesium	10014.230	100	10000	0	100	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: ICSA	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/3/2024	SeqNo: 6285057						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10273.280	50	10000	0	103	80	120				
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICSAB2		SampType: ICSAB		TestCode: 6010_WDPG		Units: µg/L		Prep Date:		RunNo: 195160		
Client ID: ICSAB		Batch ID: R195160		TestNo: EPA 6010B				Analysis Date: 11/3/2024		SeqNo: 6285057		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Calcium	9857.680	500	10000	0	98.6	80	120					
Iron	10183.260	20	10000	0	102	80	120					
Magnesium	9888.760	100	10000	0	98.9	80	120					

Sample ID: ICSA3		SampType: ICSA		TestCode: 6010_WDPG		Units: µg/L		Prep Date:		RunNo: 195160		
Client ID: ICSA		Batch ID: R195160		TestNo: EPA 6010B				Analysis Date: 11/4/2024		SeqNo: 6285099		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	10365.950	50	10000	0	104	80	120					
Calcium	9978.150	500	10000	0	99.8	80	120					
Iron	10428.700	20	10000	0	104	80	120					
Magnesium	9995.130	100	10000	0	100	80	120					

Sample ID: ICSAB3		SampType: ICSAB		TestCode: 6010_WDPG		Units: µg/L		Prep Date:		RunNo: 195160		
Client ID: ICSAB		Batch ID: R195160		TestNo: EPA 6010B				Analysis Date: 11/4/2024		SeqNo: 6285100		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	10295.440	50	10000	0	103	80	120					
Calcium	9839.360	500	10000	0	98.4	80	120					
Iron	10119.570	20	10000	0	101	80	120					
Magnesium	9835.990	100	10000	0	98.4	80	120					

Sample ID: ICSA4		SampType: ICSA		TestCode: 6010_WDPG		Units: µg/L		Prep Date:		RunNo: 195160		
Client ID: ICSA		Batch ID: R195160		TestNo: EPA 6010B				Analysis Date: 11/4/2024		SeqNo: 6285131		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	10375.220	50	10000	0	104	80	120					
Calcium	9958.940	500	10000	0	99.6	80	120					
Iron	10409.060	20	10000	0	104	80	120					

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICSA4	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: ICSA	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/4/2024	SeqNo: 6285131						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Magnesium	10030.930	100	10000	0	100	80	120				

Sample ID: ICSA4	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: ICSA	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/4/2024	SeqNo: 6285132						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	10310.260	50	10000	0	103	80	120				
Calcium	9884.920	500	10000	0	98.8	80	120				
Iron	10134.620	20	10000	0	101	80	120				
Magnesium	9949.860	100	10000	0	99.5	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

INTERNAL STANDARD SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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NEVADA
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P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP4

			Yttrium, 1.0 mg/L			
Sample Name	Type	DF	Reported Conc	%REC	Criteria	Comment
Blank	BLK	1	1	100	65-125	PASS
Standard 1	ICAL	1	1.01	101	65-125	PASS
Standard 2	ICAL	1	1.02	102	65-125	PASS
Standard 3	ICAL	1	1.03	103	65-125	PASS
Standard 4	ICAL	1	1.02	102	65-125	PASS
Standard 5	ICAL	1	1.02	102	65-125	PASS
Standard 6	ICAL	1	1.03	103	65-125	PASS
Standard 7	ICAL	1	1.01	101	65-125	PASS
ICV	ICV	1	1.01	101	65-125	PASS
ICB	ICB	1	1.01	101	65-125	PASS
LLCCV1	CCV1	1	1.02	102	65-125	PASS
LLCCV2	CCV1	1	1.02	102	65-125	PASS
ICSA1	ICSA	1	1.06	106	65-125	PASS
ICSAB1	ICSAB	1	1.06	106	65-125	PASS
LLCCV1	CCV1	1	1.03	103	65-125	PASS
CCV1	CCV	1	1.06	106	65-125	PASS
CCB1	CCB	1	1.06	106	65-125	PASS
CCV2	CCV	1	1.06	106	65-125	PASS
CCB2	CCB	1	1.06	106	65-125	PASS
CCV3	CCV	1	1.04	104	65-125	PASS
CCB3	CCB	1	1.06	106	65-125	PASS
CCV4	CCV	1	1.06	106	65-125	PASS
CCB4	CCB	1	1.06	106	65-125	PASS
ICSA2	ICSA	1	1.1	110	65-125	PASS
ICSAB2	ICSAB	1	1.1	110	65-125	PASS
CCV5	CCV	1	1.06	106	65-125	PASS
CCB5	CCB	1	1.06	106	65-125	PASS
CCV6	CCV	1	1.06	106	65-125	PASS
CCB6	CCB	1	1.06	106	65-125	PASS
CCV7	CCV	1	1.07	107	65-125	PASS
CCB7	CCB	1	1.06	106	65-125	PASS
CCV8	CCV	1	1.07	107	65-125	PASS
CCB8	CCB	1	1.06	106	65-125	PASS
ICSA3	ICSA	1	1.1	110	65-125	PASS
ICSAB3	ICSAB	1	1.1	110	65-125	PASS
MB-113806	MBLK	1	1.03	103	65-125	PASS
LCS-113806	LCS	1	1.01	101	65-125	PASS
N069263-001B	SAMP	1	1	100	65-125	PASS
N069263-002B	SAMP	1	1.01	101	65-125	PASS
N069263-003B	SAMP	1	1.02	102	65-125	PASS
N069444-001B	SAMP	1	1	100	65-125	PASS

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP4

Sample Name	Type	DF	Yttrium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
N069444-001B	SAMP	5	1.04	104	65-125	PASS
N069444-001B-PS	PS	1	0.95	95	65-125	PASS
N069444-001B-MS	MS	1	1.01	101	65-125	PASS
N069444-001B-MSD	MSD	1	1.01	101	65-125	PASS
CCV9	CCV	1	1.07	107	65-125	PASS
CCB9	CCB	1	1.06	106	65-125	PASS
N069444-002B	SAMP	1	1.03	103	65-125	PASS
N069444-003B	SAMP	1	1.02	102	65-125	PASS
N069629-001B	SAMP	1	1.02	102	65-125	PASS
N069629-002B	SAMP	1	1.03	103	65-125	PASS
N069631-008B	SAMP	1	0.99	99	65-125	PASS
N069631-009B	SAMP	1	0.99	99	65-125	PASS
N069631-010B	SAMP	1	0.97	97	65-125	PASS
N069631-011B	SAMP	1	0.97	97	65-125	PASS
N069631-012B	SAMP	1	1	100	65-125	PASS
N069631-013B	SAMP	1	1.01	101	65-125	PASS
CCV10	CCV	1	1.07	107	65-125	PASS
CCB10	CCB	1	1.06	106	65-125	PASS
N069631-014B	SAMP	1	0.99	99	65-125	PASS
N069638-007B	SAMP	1	1.07	107	65-125	PASS
N069638-008B	SAMP	1	1.05	105	65-125	PASS
N069638-009B	SAMP	1	1.01	101	65-125	PASS
CCV11	CCV	1	1.07	107	65-125	PASS
CCB11	CCB	1	1.06	106	65-125	PASS
ICSA4	ICSA	1	1.1	110	65-125	PASS
ICSAB4	ICSAB	1	1.1	110	65-125	PASS
CCV12	CCV	1	1.06	106	65-125	PASS
CCB12	CCB	1	1.06	106	65-125	PASS
CCV13	CCV	1	1.06	106	65-125	PASS
CCB13	CCB	1	1.06	106	65-125	PASS
CCV14	CCV	1	1.07	107	65-125	PASS
CCB14	CCB	1	1.06	106	65-125	PASS
CCV15	CCV	1	1.06	106	65-125	PASS
CCB15	CCB	1	1.06	106	65-125	PASS
CCV16	CCV	1	1.06	106	65-125	PASS
CCB16	CCB	1	1.07	107	65-125	PASS
CCV17	CCV	1	1.06	106	65-125	PASS
CCB17	CCB	1	1.06	106	65-125	PASS
ICSA5	ICSA	1	1.07	107	65-125	PASS
ICSAB5	ICSAB	1	1.09	109	65-125	PASS
CCV18	CCV	1	1.06	106	65-125	PASS

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP4

Sample Name	Type	DF	Yttrium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
CCB18	CCB	1	1.06	106	65-125	PASS
CCV19	CCV	1	1.06	106	65-125	PASS
CCB19	CCB	1	1.06	106	65-125	PASS
CCV20	CCV	1	1.05	105	65-125	PASS
CCB20	CCB	1	1.05	105	65-125	PASS
ICSA6	ICSA	1	1.06	106	65-125	PASS
ICSAB6	ICSAB	1	1.08	108	65-125	PASS
CCV21	CCV	1	1.04	104	65-125	PASS
CCB21	CCB	1	1.05	105	65-125	PASS
CCV22	CCV	1	1.05	105	65-125	PASS
CCB22	CCB	1	1.05	105	65-125	PASS
CCV23	CCV	1	1.05	105	65-125	PASS
CCB23	CCB	1	1.05	105	65-125	PASS
CCV24	CCV	1	1.05	105	65-125	PASS
CCB24	CCB	1	1.06	106	65-125	PASS
CCV25	CCV	1	1.05	105	65-125	PASS
CCB25	CCB	1	1.06	106	65-125	PASS
ICSA7	ICSA	1	1.07	107	65-125	PASS
ICSAB7	ICSAB	1	1.09	109	65-125	PASS

SERIAL DILUTION/ POST DIGESTION SPIKE



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
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ASSET Laboratories

ICP-Metals in Water

Work Order No.: N069631
Test Method: EPA 6010B
Analysis Date: 11/4/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 113806

Instrument ID: NV00922-ICP4
Instrument Description: Agilent 5800VDV

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Fe. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069444-001B DT 5x	Iron	Fe	µg/L	0	NA	14.15	100.00%	10

REVIEWED BY:



11/18/2024

Note: NA - Not Applicable

11/18/24 21:42

N069631_6010B_113806_DT

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID: N069444-001B-PS	SampType: PS	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: ZZZZZZ	Batch ID: 113806	TestNo: EPA 6010B EPA 3010A	Analysis Date: 11/4/2024	SeqNo: 6285108							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	126.160	20	100.0	14.15	112	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

MDL STUDY



ASSET LABORATORIES
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NEVADA
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Method Detection Limits

Analytical Method: EPA 6010B
Digestion Method: 3010_W
Digestion Date: 1/31/2024-2/16/24
Instrument Name: ICP2/ ICP3
Analyst/Technician: DJ

Matrix: WATER
Unit: mg/L

Analyte	1	2	3	4	5	6	7	SD	AMT SPIKED (ppm)	MDLs	PQL	MDL
Beryllium	0.0010	0.0010	0.0010	0.0012	0.0012	0.0009	0.0009	0.00013	0.0010	0.00042	0.0010	0.0004
Boron	0.1015	0.0996	0.0981	0.0955	0.0962	0.0921	0.0811	0.00679	0.1000	0.02134	0.1000	0.0519
Magnesium	0.1018	0.1005	0.1004	0.1023	0.1006	0.0924	0.0926	0.00426	0.1000	0.01340	0.1000	0.0134
Silicon	0.0175	0.0205	0.0214	0.0114	0.0100	0.0210	0.0211	0.00489	0.0200	0.01537	0.0200	0.0154
Chromium	0.0009	0.0009	0.0009	0.0011	0.0009	0.0009	0.0010	0.00007	0.0010	0.00023	0.0010	0.0002
Manganese	0.0096	0.0095	0.0093	0.0101	0.0102	0.0102	0.0104	0.00042	0.0100	0.00133	0.0100	0.0013
Iron	0.0219	0.0207	0.0210	0.0226	0.0224	0.0193	0.0175	0.00184	0.0200	0.00577	0.0200	0.0058
Cobalt	0.0020	0.0018	0.0019	0.0019	0.0018	0.0021	0.0020	0.00013	0.0025	0.00039	0.0025	0.0004
Nickel	0.0055	0.0055	0.0052	0.0028	0.0033	0.0048	0.0047	0.00109	0.0050	0.00342	0.0050	0.0034
Copper	0.0056	0.0058	0.0054	0.0063	0.0058	0.0050	0.0053	0.00041	0.0050	0.00128	0.0050	0.0014
Zinc	0.0110	0.0103	0.0100	0.0106	0.0108	0.0092	0.0088	0.00086	0.0100	0.00269	0.0100	0.0027
Arsenic	0.0100	0.0080	0.0060	0.0084	0.0112	0.0132	0.0065	0.00256	0.0100	0.00805	0.0100	0.0081
Selenium	0.0110	0.0126	0.0120	0.0079	0.0137	0.0079	0.0072	0.00264	0.0100	0.00829	0.0100	0.0083
Molybdenum	0.0056	0.0053	0.0057	0.0044	0.0045	0.0051	0.0044	0.00056	0.0050	0.00177	0.0050	0.0018
Silver	0.0025	0.0025	0.0024	0.0019	0.0018	0.0033	0.0031	0.00056	0.0025	0.00175	0.0025	0.0018
Cadmium	0.0027	0.0026	0.0026	0.0016	0.0018	0.0023	0.0025	0.00043	0.0025	0.00136	0.0025	0.0014
Tin	0.0104	0.0095	0.0097	0.0114	0.0111	0.0087	0.0089	0.00104	0.0100	0.00328	0.0100	0.0033
Antimony	0.0090	0.0093	0.0110	0.0136	0.0122	0.0112	0.0087	0.00180	0.0100	0.00565	0.0100	0.0056
Barium	0.0026	0.0026	0.0026	0.0028	0.0028	0.0024	0.0024	0.00016	0.0025	0.00051	0.0025	0.0005
Thallium	0.0172	0.0169	0.0170	0.0165	0.0144	0.0131	0.0130	0.00188	0.0150	0.00592	0.0150	0.0059
Lead	0.0058	0.0060	0.0061	0.0046	0.0083	0.0049	0.0048	0.00125	0.0050	0.00393	0.0050	0.0039
Calcium	0.2188	0.2125	0.2073	0.2186	0.2230	0.1767	0.1699	0.02155	0.2000	0.06772	0.2000	0.0677
Vanadium	0.0026	0.0025	0.0027	0.0030	0.0029	0.0024	0.0023	0.00026	0.0025	0.00081	0.0025	0.0008
Aluminum	0.0523	0.0513	0.0508	0.0490	0.0501	0.0509	0.0482	0.00140	0.0500	0.00439	0.0500	0.0044
Titanium	0.0119	0.0116	0.0108	0.0100	0.0103	0.0105	0.0107	0.00069	0.0100	0.00216	0.0100	0.0022

Method Detection Limits (Blanks)

Analyte	1	2	3	4	5	6	7	SD	Average	MDLb
Beryllium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00006	0.0000	0.00019
Boron	0.000	0.000	-0.001	-0.005	-0.006	-0.045	-0.047	0.02126	-0.0149	0.05194
Magnesium	-0.001	-0.001	-0.001	0.000	0.001	0.000	-0.001	0.00074	-0.0004	0.00192
Silicon	-0.001	-0.004	-0.004	-0.002	-0.001	-0.012	-0.011	0.00477	-0.0049	0.01013
Chromium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00004	-0.0001	0.00008
Manganese	-0.001	-0.001	-0.001	0.000	0.000	0.000	0.000	0.00044	-0.0005	0.00090
Iron	0.000	0.000	0.000	-0.001	-0.001	-0.003	-0.003	0.00140	-0.0010	0.00337
Cobalt	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00012	-0.0001	0.00029
Nickel	0.000	0.000	0.000	-0.002	-0.002	0.000	0.000	0.00089	-0.0006	0.00224
Copper	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.00033	0.0003	0.00138
Zinc	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.00033	0.0000	0.00102
Arsenic	-0.001	-0.003	0.000	0.000	0.000	0.000	0.000	0.00091	-0.0007	0.00221
Selenium	0.004	0.000	0.002	0.001	0.003	-0.001	0.002	0.00153	0.0017	0.00649
Molybdenum	0.000	0.000	0.000	-0.001	-0.001	0.000	0.000	0.00032	-0.0003	0.00074
Silver	-0.001	-0.001	-0.001	-0.001	-0.001	0.000	0.000	0.00049	-0.0007	0.00083
Cadmium	0.000	0.000	0.000	-0.001	0.000	0.000	0.000	0.00029	-0.0001	0.00081
Tin	-0.001	-0.001	-0.001	0.001	0.000	0.000	-0.001	0.00063	-0.0005	0.00150
Antimony	0.000	-0.001	0.000	0.000	-0.001	0.004	0.000	0.00161	0.0002	0.00524
Barium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00008	0.0000	0.00025
Thallium	0.001	0.000	0.002	0.001	0.000	-0.001	-0.001	0.00104	0.0002	0.00343
Lead	0.000	-0.001	-0.001	-0.001	0.000	0.001	-0.001	0.00068	-0.0004	0.00173
Calcium	0.001	0.001	0.001	-0.003	-0.005	-0.003	-0.017	0.00638	-0.0036	0.01650
Vanadium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00012	0.0000	0.00038
Aluminum	0.000	0.001	0.001	-0.001	-0.001	-0.001	-0.002	0.00105	-0.0003	0.00300
Titanium	0.001	0.000	0.001	-0.001	-0.001	-.00003	0.000	0.00064	0.0000	0.00199

Note: Higher value between MDLs and MDLb will be used.

Method Detection Limits

Analytical Method: EPA 6010B
Digestion Method: EPA 3010A
Digestion Date: 2/8-2/12/2024
Analysis Date: 2/16-2/23/2024
Instrument Name: ICP-04
Analyst/Technician: NS/DBJ

Matrix: WATER
Unit: mg/L

Analyte	1	2	3	4	5	6	7	SD	AMT SPIKED (ppm)	MDLs	PQL	MDL
Beryllium	0.00096	0.00098	0.00096	0.00094	0.00114	0.00100	0.00093	0.00007	0.0010	0.00022	0.0010	0.0004
Boron	0.09627	0.09657	0.09643	0.09117	0.09044	0.09475	0.09499	0.00255	0.1000	0.00800	0.1000	0.0080
Magnesium	0.10052	0.10036	0.09959	0.10705	0.10731	0.09987	0.10054	0.00344	0.1000	0.01079	0.1000	0.0153
Silicon	0.01997	0.01949	0.01947	0.02053	0.02103	0.02063	0.02079	0.00063	0.0200	0.00198	0.0200	0.0020
Chromium	0.00100	0.00096	0.00096	0.00116	0.00117	0.00109	0.00115	0.00009	0.0010	0.00030	0.0010	0.0005
Manganese	0.00965	0.00966	0.00962	0.00727	0.00736	0.00964	0.00963	0.00113	0.0100	0.00356	0.0100	0.0037
Iron	0.01670	0.01666	0.01669	0.01930	0.01911	0.01418	0.01399	0.00209	0.0200	0.00657	0.0200	0.0066
Cobalt	0.00276	0.00227	0.00246	0.00248	0.00246	0.00188	0.00221	0.00028	0.0025	0.00087	0.0025	0.0009
Nickel	0.00479	0.00493	0.00510	0.00476	0.00489	0.00457	0.00453	0.00020	0.0050	0.00063	0.0050	0.0006
Copper	0.00508	0.00506	0.00488	0.00503	0.00521	0.00474	0.00486	0.00016	0.0050	0.00050	0.0050	0.0005
Zinc	0.01247	0.01227	0.01233	0.01015	0.01017	0.00939	0.00952	0.00139	0.0100	0.00438	0.0100	0.0044
Arsenic	0.00990	0.00949	0.00882	0.01052	0.01052	0.01070	0.01000	0.00067	0.0100	0.00210	0.0100	0.0021
Selenium	0.00898	0.00986	0.01063	0.01176	0.01126	0.01021	0.01046	0.00091	0.0100	0.00286	0.0100	0.0032
Molybdenum	0.00546	0.00537	0.00512	0.00602	0.00529	0.00458	0.00502	0.00044	0.0050	0.00139	0.0050	0.0021
Silver	0.00245	0.00240	0.00249	0.00200	0.00194	0.00221	0.00211	0.00022	0.0025	0.00070	0.0025	0.0010
Cadmium	0.00248	0.00248	0.00244	0.00239	0.00240	0.00219	0.00224	0.00012	0.0025	0.00036	0.0025	0.0004
Tin	0.00982	0.01010	0.00968	0.01041	0.01050	0.00990	0.00999	0.00030	0.0100	0.00095	0.0100	0.0010
Antimony	0.01076	0.01056	0.00998	0.01034	0.01208	0.00938	0.00979	0.00087	0.0100	0.00274	0.0100	0.0027
Barium	0.00266	0.00257	0.00258	0.00258	0.00257	0.00249	0.00254	0.00005	0.0025	0.00016	0.0025	0.0008
Thallium	0.01580	0.01557	0.01597	0.01222	0.01292	0.01486	0.01560	0.00151	0.0150	0.00475	0.0150	0.0048
Lead	0.00431	0.00500	0.00446	0.00447	0.00503	0.00422	0.00371	0.00046	0.0050	0.00144	0.0050	0.0014
Calcium	0.20228	0.20108	0.20096	0.20023	0.20038	0.19290	0.19351	0.00386	0.2000	0.01211	0.2000	0.0121
Vanadium	0.00265	0.00253	0.00241	0.00232	0.00229	0.00240	0.00246	0.00012	0.0025	0.00039	0.0025	0.0006
Aluminum	0.05361	0.05332	0.05336	0.05134	0.05238	0.05032	0.04987	0.00153	0.0500	0.00482	0.0500	0.0075
Titanium	0.01017	0.01017	0.01014	0.01005	0.01003	0.01004	0.01004	0.00007	0.0100	0.00020	0.0100	0.0012
Sodium	0.10464	0.10886	0.11103	0.10060	0.10108	0.10829	0.10960	0.00421	0.1000	0.01321	0.1000	0.0132
Strontium	0.02468	0.02576	0.02592	0.02543	0.02579	0.02513	0.02569	0.00044	0.0250	0.00139	0.0250	0.0014

BLANK

Analyte	1	2	3	4	5	6	7	SD	Average	MDL	PQL
Beryllium	-0.00048	-0.00014	-0.00014	0.00001	0.00001	-0.00003	-0.00002	0.00017	-0.00011	0.00043	0.0010
Boron	-0.00209	-0.00259	-0.00248	-0.00694	-0.00772	-0.00175	-0.00221	0.00252	-0.00368	0.00423	0.1000
Magnesium	0.00244	0.00147	0.00205	0.00943	0.00934	0.00459	0.00401	0.00334	0.00476	0.01526	0.1000
Silicon	-0.00009	-0.00039	-0.00061	-0.00016	-0.00044	-0.00044	-0.00071	0.00022	-0.00041	0.00029	0.0200
Chromium	0.00017	0.00009	0.00006	0.00027	0.00032	0.00008	0.00012	0.00010	0.00016	0.00047	0.0010
Manganese	-0.00054	-0.00051	-0.00054	-0.00311	-0.00312	0.00037	0.00037	0.00149	-0.00101	0.00368	0.0100
Iron	-0.00361	-0.00368	-0.00350	-0.00126	-0.00121	0.00037	-0.00627	0.00219	-0.00274	0.00416	0.0200
Cobalt	-0.00033	0.00009	-0.00016	-0.00021	-0.00058	-0.00032	-0.00036	0.00021	-0.00027	0.00038	0.0025
Nickel	-0.00036	-0.00009	-0.00024	-0.00021	-0.00033	-0.00022	-0.00023	0.00009	-0.00024	0.00004	0.0050
Copper	0.00005	0.00002	0.00000	0.00019	0.00028	-0.00001	0.00000	0.00011	0.00008	0.00043	0.0050
Zinc	0.00056	-0.00003	-0.00006	-0.00024	-0.00022	-0.00079	-0.00081	0.00047	-0.00023	0.00126	0.0100
Arsenic	-0.00003	-0.00086	-0.00030	-0.00052	0.00012	0.00051	0.00034	0.00049	-0.00011	0.00142	0.0100
Selenium	-0.00105	-0.00101	0.00003	-0.00013	-0.00033	0.00092	0.00175	0.00101	0.00003	0.00321	0.0100
Molybdenum	0.00035	0.00064	-0.00012	0.00102	0.00080	-0.00015	-0.00059	0.00059	0.00028	0.00212	0.0050
Silver	-0.00021	-0.00023	-0.00022	-0.00146	-0.00143	-0.00071	-0.00064	0.00055	-0.00070	0.00102	0.0025
Cadmium	-0.00003	-0.00002	-0.00003	-0.00008	-0.00009	-0.00026	-0.00030	0.00012	-0.00012	0.00025	0.0025
Tin	-0.00048	-0.00035	0.00010	-0.00014	0.00016	-0.00005	-0.00008	0.00023	-0.00012	0.00060	0.0100
Antimony	0.00008	0.00020	0.00049	-0.00016	0.00141	0.00021	0.00121	0.00059	0.00049	0.00236	0.0100
Barium	0.00006	0.00062	0.00005	0.00003	-0.00010	-0.00003	-0.00006	0.00024	0.00008	0.00085	0.0025
Thallium	0.00113	0.00056	0.00015	0.00095	0.00031	0.00135	0.00088	0.00044	0.00076	0.00214	0.0150
Lead	-0.00006	-0.00093	-0.00022	-0.00025	-0.00031	-0.00180	-0.00134	0.00067	-0.00070	0.00139	0.0050
Calcium	-0.00505	0.00006	0.00001	-0.00038	-0.00024	-0.00119	-0.00204	0.00183	-0.00126	0.00450	0.2000
Vanadium	0.00027	0.00033	0.00044	0.00022	0.00016	0.00010	0.00011	0.00012	0.00023	0.00062	0.0025
Aluminum	0.00375	0.00381	0.00445	0.00041	0.00100	0.00108	0.00110	0.00169	0.00223	0.00754	0.0500
Titanium	0.00001	0.00001	-0.00001	-0.00006	-0.00010	0.00000	0.00088	0.00034	0.00010	0.00119	0.0100
Sodium	0.00136	0.00379	0.00132	-0.00038	-0.00214	-0.00015	0.00331	0.00210	0.00102	0.00761	0.1000
Strontium	-0.00115	-0.00166	-0.00116	-0.00120	-0.00012	-0.00045	-0.00044	0.00055	-0.00088	0.00085	0.0200

Note: ICP-04 is an additional instrument, MDL is within 0.5 to 2.0 of existing MDL. Retain existing MDL.

EPA 6020 Dissolved



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
 REV 2.1
 072018

FIRST LEVEL REVIEW:

QC Batch Number: 113831
 ASSET #: N069631

Instrument ID: NV00922-ICP8
 Analyst: DBJ

Method:

EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 11/3/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.		X			X	
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)		X			X	
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?	X		X	X		X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented	X			X		
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

% Rec of Ba and Mo in N069629-001B-PS failed. However, LCS passed criteria.
 % RSD of As in N069631-009B/010B/012B, failed. For rerun.
 Mn is OLR in N069631-008B/010B/011B/012B/013B/014B. For dilution.
 % RSD of As in N069629-001B (sample ref). Please see CAR # 8175.
 % RSD of As in N069631-012B failed, several times . Please see CAR # 8196.

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer KDG 11/7/2024

Date:
 Date:



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 113831
ASSET #: N069631

Instrument ID: NV00922-ICP8
Analyst: DBJ

Method:

EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 11/5/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.			X			X
24. LCS compounds within control limits.			X			X
25. MS/MSD, RPD's are within control limits			X			X
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

As rerun.
Mn dilution.

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
2nd Level Reviewer NS 11/6/2024

Date:
Date:

SAMPLE CALCULATION



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SAMPLE CALCULATION

METHOD: EPA 6020
TEST NAME: Heavy Metals by ICP-MS
MATRIX: Groundwater

FORMULA:

Calculate the Molybdenum concentration, in ug/L in the original sample as follows:

$$\text{Molybdenum, ug/L} = A * DF * PF$$

where:

A = ug/L, calculated concentration
DF = Dilution Factor
PF = Final Volume of Digestate, mL / Amount of Sample, mL

For Sample **N069631-013B**, the concentration in ug/L is calculated as follows:


$$\text{Molybdenum, ug/L} = 17.9510 * 1 * (25 / 25)$$

$$\text{Molybdenum, ug/L} = 17.95102$$

Reporting results in two significant figures,

$$\text{Molybdenum, ug/L} = 18$$

Reviewed by:

 12/16/2024

% RSD SUMMARY



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PERCENT RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	137 Ba [3]				52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.1	11.141	15	PASS	0.1	2.746	15	PASS
Std2-0.5/5 ppb	ICAL	1	0.45	9.056	15	PASS	0.48	3.48	15	PASS
Std3-5/50 ppb	ICAL	1	4.72	4.848	15	PASS	4.73	2.948	15	PASS
Std4-10/100 ppb	ICAL	1	9.35	1.592	15	PASS	9.49	1.571	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	18.68	1.73	15	PASS	18.91	2.242	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	37.95	1.055	15	PASS	38.49	0.946	15	PASS
Std7-100/1000 ppb	ICAL	1	98.06	1.813	15	PASS	97.48	1.076	15	PASS
Std8-200/2000 ppb	ICAL	1	201.55	0.478	15	PASS	201.7	2.211	15	PASS
ICV	ICV	1	9.3	1.902	15	PASS	9.77	1.476	15	PASS
ICB	ICB	1	0	1979.074	15	<PQL	<0.000	N/A	15	<PQL
LLCCV1	CCV1	1	0.1	19.747	20	PASS	0.07	24.333	20	<PQL
LLCCV2	CCV1	1	0.98	4.946	20	PASS	0.98	3.403	20	PASS
MLCCV1	CCV	1	18.69	1.653	15	PASS	19.22	1.057	15	PASS
ICSA1	ICSA	1	0.01	118.643	15	<PQL	<0.000	N/A	15	<PQL
ICSA1	ICSA	1	0.01	17.568	15	<PQL	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	19.06	0.391	15	PASS	19.5	3.261	15	PASS
CCV1	CCV	1	18.86	1.011	15	PASS	19.38	1.356	15	PASS
CCB1	CCB	1	0.01	71.719	15	<PQL	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	0	95.356	15	<PQL	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	19.64	0.691	15	PASS	19.36	1.169	15	PASS
CCV2	CCV	1	20.37	0.611	15	PASS	18.61	1.401	15	PASS
CCB2	CCB	1	0	146.178	15	<PQL	<0.000	N/A	15	<PQL
CCV3	CCV	1	20.23	0.702	15	PASS	18.5	1.936	15	PASS
CCB3	CCB	1	0	1226.985	15	<PQL	<0.000	N/A	15	<PQL
CCV4	CCV	1	20.63	1.234	15	PASS	18.54	0.977	15	PASS
CCB4	CCB	1	0	84.972	15	<PQL	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	0	141.516	15	<PQL	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	20.37	2.356	15	PASS	18.57	1.492	15	PASS
CCV4	CCV	1	20.19	1.149	15	PASS	19.12	1.362	15	PASS
CCB4	CCB	1	0	183.951	15	<PQL	0.01	167.893	15	<PQL
CCV5	CCV	1	19.93	2.092	15	PASS	18.91	1.153	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV6	CCV	1	19.96	1.818	15	PASS	19.01	2.242	15	PASS
CCB6	CCB	1	<0.000	N/A	15	<PQL	0	8628.481	15	<PQL
CCV7	CCV	1	20.38	0.728	15	PASS	19.22	2.191	15	PASS
CCB7	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA4	ICSA	1	0.01	47.89	15	<PQL	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	20.1	0.641	15	PASS	18.6	1.753	15	PASS
MB-113831	MBLK	1	0	92.403	15	<PQL	<0.000	N/A	15	<PQL
LCS-113831	LCS	1	9.83	1.782	15	PASS	9.7	0.579	15	PASS

PERCENT RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	137 Ba [3]				52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N069629-001B	SAMP	1	85.48	1.527	15	PASS	2.8	2.731	15	PASS
N069629-001B	SAMP	5	17.17	1.249	15	PASS	0.54	9.75	15	PASS
N069629-001B-PS	PS	1	99.73	0.829	15	PASS	12.43	2.319	15	PASS
N069629-001B-MS	MS	1	96.02	1.02	15	PASS	11.96	1.959	15	PASS
N069629-001B-MSD	MSD	1	94.12	1.547	15	PASS	11.87	1.227	15	PASS
N069629-002B	SAMP	1	84.59	0.371	15	PASS	2.83	0.331	15	PASS
N069631-008B	SAMP	1	34.07	2.049	15	PASS	0.05	9.985	15	PASS
CCV8	CCV	1	20.38	0.357	15	PASS	19.14	0.962	15	PASS
CCB8	CCB	1	0	285.06	15	<PQL	<0.000	N/A	15	<PQL
N069631-009B	SAMP	1	53.3	1.87	15	PASS	0.01	85.22	15	<PQL
N069631-010B	SAMP	1	105.55	1.372	15	PASS	0.38	14.921	15	PASS
N069631-011B	SAMP	1	42.05	1.196	15	PASS	0.07	34.218	15	<PQL
N069631-012B	SAMP	1	75.07	0.765	15	PASS	0.07	12.436	15	PASS
N069631-013B	SAMP	1	68.01	1.269	15	PASS	0.06	19.74	15	<PQL
N069631-014B	SAMP	1	59.6	0.618	15	PASS	0.18	10.97	15	PASS
N069638-001B	SAMP	1	105.06	1.168	15	PASS	11.43	2.505	15	PASS
N069638-002B	SAMP	1	72.5	1.502	15	PASS	19.37	1.386	15	PASS
N069638-003B	SAMP	1	65.84	0.175	15	PASS	0.08	32.058	15	<PQL
CCV9	CCV	1	21.1	1.867	15	PASS	18.39	1.827	15	PASS
CCB9	CCB	1	0	383.356	15	<PQL	<0.000	N/A	15	<PQL
N069638-007B	SAMP	1	144.61	0.885	15	PASS	0.04	27.897	15	<PQL
N069638-008B	SAMP	1	200.73	0.98	15	PASS	0.19	8.058	15	PASS
N069638-009B	SAMP	1	88.16	1.074	15	PASS	0.09	8.942	15	PASS
CCV10	CCV	1	20.48	0.829	15	PASS	19.14	1.887	15	PASS
CCB10	CCB	1	0	177.546	15	<PQL	<0.000	N/A	15	<PQL
CCV11	CCV	1	20.48	0.986	15	PASS	18.69	2.273	15	PASS
CCB11	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA5	ICSA	1	0.01	21.123	15	<PQL	<0.000	N/A	15	<PQL
ICSAB5	ICSAB	1	19.6	0.51	15	PASS	18.87	0.732	15	PASS

PERCENT RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.09	3.422	15	PASS	0.13	42.953	15	FAIL
Std2-0.5/5 ppb	ICAL	1	0.48	14.645	15	PASS	0.54	10.145	15	PASS
Std3-5/50 ppb	ICAL	1	4.76	1.641	15	PASS	4.51	6.574	15	PASS
Std4-10/100 ppb	ICAL	1	9.52	2.342	15	PASS	9.64	2.92	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.74	1.78	15	PASS	18.81	0.85	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	38.39	0.737	15	PASS	38.2	4.623	15	PASS
Std7-100/1000 ppb	ICAL	1	97.85	0.305	15	PASS	98.44	4.1	15	PASS
Std8-200/2000 ppb	ICAL	1	201.45	1.92	15	PASS	201.29	1.784	15	PASS
ICV	ICV	1	95.76	0.747	15	PASS	9.65	4.812	15	PASS
ICB	ICB	1	0	351.948	15	<PQL	0.01	326.628	15	<PQL
LLCCV1	CCV1	1	0.09	33.007	20	<PQL	0.08	49.159	20	<PQL
LLCCV2	CCV1	1	0.52	9.662	20	PASS	0.12	51.25	20	FAIL
MLCCV1	CCV	1	20.18	3.505	15	PASS	18.69	3.354	15	PASS
ICSA1	ICSA	1	0.02	38.28	15	<PQL	0.02	86.414	15	<PQL
ICSA1	ICSA	1	0.02	30.041	15	<PQL	0.02	42.121	15	<PQL
ICSAB1	ICSAB	1	19.79	0.776	15	PASS	19.26	5.434	15	PASS
CCV1	CCV	1	19.68	1.792	15	PASS	18.22	3.511	15	PASS
CCB1	CCB	1	0.01	35.568	15	<PQL	0.01	149.398	15	<PQL
ICSA2	ICSA	1	0.02	20.226	15	<PQL	0.02	42.695	15	<PQL
ICSAB2	ICSAB	1	19.17	1.605	15	PASS	19.19	2.139	15	PASS
CCV2	CCV	1	19.36	1.558	15	PASS	18.56	3.978	15	PASS
CCB2	CCB	1	0	259.076	15	<PQL	0.01	159.22	15	<PQL
CCV3	CCV	1	19.12	1.333	15	PASS	18.43	4.538	15	PASS
CCB3	CCB	1	0	113.839	15	<PQL	0.04	112.271	15	<PQL
CCV4	CCV	1	18.98	2.542	15	PASS	19.23	2.918	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL	0.01	159.18	15	<PQL
ICSA3	ICSA	1	0.01	56.927	15	<PQL	0.02	158.939	15	<PQL
ICSAB3	ICSAB	1	19.03	1.617	15	PASS	17.98	3.367	15	PASS
CCV4	CCV	1	19.54	0.874	15	PASS	19.12	3.351	15	PASS
CCB4	CCB	1	0.01	171.83	15	<PQL	0.03	162.345	15	<PQL
CCV5	CCV	1	19.3	0.897	15	PASS	18.71	5.814	15	PASS
CCB5	CCB	1	0.01	194.264	15	<PQL	0	46824.375	15	<PQL
CCV6	CCV	1	19.24	2.756	15	PASS	19.26	2.211	15	PASS
CCB6	CCB	1	0	306.035	15	<PQL	0.03	73.995	15	<PQL
CCV7	CCV	1	19.35	2.895	15	PASS	18.84	2.852	15	PASS
CCB7	CCB	1	0.01	59.704	15	<PQL	0.01	151.109	15	<PQL
ICSA4	ICSA	1	0.02	69.269	15	<PQL	0.04	67.415	15	<PQL
ICSAB4	ICSAB	1	19.1	0.382	15	PASS	18.65	3.86	15	PASS
MB-113831	MBLK	1	0.01	157.781	15	<PQL	0.02	151.505	15	<PQL
LCS-113831	LCS	1	97.59	1.807	15	PASS	9.57	5.025	15	PASS

PERCENT RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N069629-001B	SAMP	1	18.04	2.912	15	PASS	0.14	28.261	15	NR!
N069629-001B	SAMP	5	3.54	5.761	15	PASS	0.05	74.419	15	<PQL
N069629-001B-PS	PS	1	111.55	1.386	15	PASS	10.08	4.576	15	PASS
N069629-001B-MS	MS	1	108.96	1.22	15	PASS	9.46	2.893	15	PASS
N069629-001B-MSD	MSD	1	109.31	1.44	15	PASS	9.67	4.618	15	PASS
N069629-002B	SAMP	1	18.66	1.7	15	PASS	0.08	11.531	15	PASS
N069631-008B	SAMP	1	220.37	0.875	15	PASS	1.34	9.182	15	PASS
CCV8	CCV	1	19.33	1.501	15	PASS	19.62	1.057	15	PASS
CCB8	CCB	1	0	4.568	15	PASS	0.03	106.449	15	<PQL
N069631-009B	SAMP	1	159.19	1.981	15	PASS	0.52	33.25	15	NR!
N069631-010B	SAMP	1	869.94	1.239	15	PASS	0.9	17.563	15	NR!
N069631-011B	SAMP	1	1000.46	0.165	15	PASS	1.51	5.802	15	PASS
N069631-012B	SAMP	1	486.45	0.221	15	PASS	0.37	15.986	15	NR!
N069631-013B	SAMP	1	511.71	0.251	15	PASS	11.81	5.082	15	PASS
N069631-014B	SAMP	1	586.16	0.171	15	PASS	3.36	1.275	15	PASS
N069638-001B	SAMP	1	286.95	0.611	15	PASS	9.68	3.89	15	PASS
N069638-002B	SAMP	1	22.77	1.415	15	PASS	1.87	14.015	15	PASS
N069638-003B	SAMP	1	101.71	0.62	15	PASS	12.62	7.157	15	PASS
CCV9	CCV	1	18.95	1.826	15	PASS	19.46	0.822	15	PASS
CCB9	CCB	1	0	415.712	15	<PQL	0.03	125.315	15	<PQL
N069638-007B	SAMP	1	89.46	1.39	15	PASS	1.96	15.492	15	NR!
N069638-008B	SAMP	1	272.2	1.435	15	PASS	14.09	1.864	15	PASS
N069638-009B	SAMP	1	2177.09	0.895	15	PASS	2.17	0.976	15	PASS
CCV10	CCV	1	19.2	2.069	15	PASS	18.78	1.152	15	PASS
CCB10	CCB	1	0.01	124.17	15	<PQL	0.02	60.37	15	<PQL
CCV11	CCV	1	18.87	0.182	15	PASS	18.2	2.781	15	PASS
CCB11	CCB	1	0	228.524	15	<PQL	0.01	171.917	15	<PQL
ICSA5	ICSA	1	0.02	2.342	15	PASS	0.01	146.87	15	<PQL
ICSAB5	ICSAB	1	19.37	2.196	15	PASS	18.73	4.101	15	PASS

PERCENT RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	78 Se [1]				95 Mo [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.11	68.579	15	<PQL	0.09	13.596	15	PASS
Std2-0.5/5 ppb	ICAL	1	0.5	8.352	15	PASS	0.46	5.929	15	PASS
Std3-5/50 ppb	ICAL	1	4.79	6.677	15	PASS	4.57	3.889	15	PASS
Std4-10/100 ppb	ICAL	1	9.33	7.346	15	PASS	9.16	2.626	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	18.43	1.905	15	PASS	18.61	0.724	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	38.34	1.105	15	PASS	38	1.621	15	PASS
Std7-100/1000 ppb	ICAL	1	96.14	1.504	15	PASS	96.08	0.106	15	PASS
Std8-200/2000 ppb	ICAL	1	202.46	1.198	15	PASS	202.55	0.68	15	PASS
ICV	ICV	1	9.68	2.456	15	PASS	9.51	0.133	15	PASS
ICB	ICB	1	0.02	173.205	15	<PQL	0.03	54.388	15	<PQL
LLCCV1	CCV1	1	0.13	71.188	20	<PQL	0.12	13.395	20	PASS
LLCCV2	CCV1	1	0.53	32.46	20	FAIL	0.47	1.395	20	PASS
MLCCV1	CCV	1	18.78	3.912	15	PASS	18.48	1.343	15	PASS
ICSA1	ICSA	1	0.01	173.205	15	<PQL	0.04	17.951	15	<PQL
ICSA1	ICSA	1	0.01	173.205	15	<PQL	0.02	79.675	15	<PQL
ICSAB1	ICSAB	1	18.98	0.502	15	PASS	19.06	2.437	15	PASS
CCV1	CCV	1	18.79	2.414	15	PASS	18.39	1.75	15	PASS
CCB1	CCB	1	0.04	91.329	15	<PQL	0.04	12.375	15	PASS
ICSA2	ICSA	1	0.04	92.053	15	<PQL	0.02	51.498	15	<PQL
ICSAB2	ICSAB	1	18.99	3.292	15	PASS	19.16	1.523	15	PASS
CCV2	CCV	1	19.05	4.52	15	PASS	19.36	0.659	15	PASS
CCB2	CCB	1	0.01	173.205	15	<PQL	0.06	29.207	15	<PQL
CCV3	CCV	1	18.01	3.075	15	PASS	19.18	0.889	15	PASS
CCB3	CCB	1	0	N/A	15	<PQL	0.05	14.129	15	PASS
CCV4	CCV	1	18.28	4.138	15	PASS	19.43	1.956	15	PASS
CCB4	CCB	1	0.03	115.342	15	<PQL	0.06	13.5	15	PASS
ICSA3	ICSA	1	0.02	99.399	15	<PQL	0.02	65.406	15	<PQL
ICSAB3	ICSAB	1	18.43	1.617	15	PASS	19.08	0.782	15	PASS
CCV4	CCV	1	18.29	2.82	15	PASS	19.4	0.361	15	PASS
CCB4	CCB	1	0	N/A	15	<PQL	0.05	10.921	15	PASS
CCV5	CCV	1	19.35	2.551	15	PASS	19.47	1.19	15	PASS
CCB5	CCB	1	0.02	100.254	15	<PQL	0.04	21.572	15	<PQL
CCV6	CCV	1	18.44	1.185	15	PASS	19.18	0.483	15	PASS
CCB6	CCB	1	0.02	173.205	15	<PQL	0.04	35.245	15	<PQL
CCV7	CCV	1	19.05	3.495	15	PASS	19.43	0.931	15	PASS
CCB7	CCB	1	0.02	100.758	15	<PQL	0.06	45.167	15	<PQL
ICSA4	ICSA	1	0.02	86.623	15	<PQL	0.02	76.941	15	<PQL
ICSAB4	ICSAB	1	18.37	3.681	15	PASS	18.92	0.329	15	PASS
MB-113831	MBLK	1	0	N/A	15	<PQL	0.04	9.644	15	PASS
LCS-113831	LCS	1	9.28	3.778	15	PASS	9.64	3.083	15	PASS

PERCENT RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	78 Se [1]				95 Mo [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N069629-001B	SAMP	1	4.93	9.838	15	PASS	79.48	0.77	15	PASS
N069629-001B	SAMP	5	1.02	7.985	15	PASS	15.24	1.5	15	PASS
N069629-001B-PS	PS	1	14.51	8.345	15	PASS	93.85	0.462	15	PASS
N069629-001B-MS	MS	1	13.98	3.289	15	PASS	89.94	1.056	15	PASS
N069629-001B-MSD	MSD	1	14.18	2.745	15	PASS	90.35	0.726	15	PASS
N069629-002B	SAMP	1	4.32	9.949	15	PASS	79.78	0.876	15	PASS
N069631-008B	SAMP	1	0.06	33.53	15	<PQL	57.67	0.932	15	PASS
CCV8	CCV	1	18.78	3.906	15	PASS	19.36	2.051	15	PASS
CCB8	CCB	1	0.02	86.615	15	<PQL	0.05	22.771	15	<PQL
N069631-009B	SAMP	1	0.03	100.206	15	<PQL	32.26	0.082	15	PASS
N069631-010B	SAMP	1	0.91	8.785	15	PASS	24.45	2.183	15	PASS
N069631-011B	SAMP	1	0.04	100.805	15	<PQL	138.96	0.834	15	PASS
N069631-012B	SAMP	1	0.06	34.913	15	<PQL	47.11	1.103	15	PASS
N069631-013B	SAMP	1	0.11	45.986	15	<PQL	17.95	1.35	15	PASS
N069631-014B	SAMP	1	0.09	79.666	15	<PQL	28.64	1.001	15	PASS
N069638-001B	SAMP	1	1.31	4.759	15	PASS	86.4	0.499	15	PASS
N069638-002B	SAMP	1	2.49	6.102	15	PASS	38.26	0.639	15	PASS
N069638-003B	SAMP	1	0.02	173.205	15	<PQL	71.16	0.473	15	PASS
CCV9	CCV	1	18.59	2.96	15	PASS	19.62	1.035	15	PASS
CCB9	CCB	1	0.02	86.627	15	<PQL	0.05	21.241	15	<PQL
N069638-007B	SAMP	1	0.1	41.977	15	<PQL	4.93	0.915	15	PASS
N069638-008B	SAMP	1	0.04	114.554	15	<PQL	4.75	5.629	15	PASS
N069638-009B	SAMP	1	0.25	31.912	15	<PQL	14.52	0.547	15	PASS
CCV10	CCV	1	19.42	3.947	15	PASS	19.53	1.439	15	PASS
CCB10	CCB	1	0.03	42.921	15	<PQL	0.05	12.541	15	PASS
CCV11	CCV	1	19.08	2.878	15	PASS	19.44	1.974	15	PASS
CCB11	CCB	1	0.02	173.205	15	<PQL	0.03	54.129	15	<PQL
ICSA5	ICSA	1	0.02	86.604	15	<PQL	0.01	53.778	15	<PQL
ICSAB5	ICSAB	1	19.51	1.622	15	PASS	19.01	1.671	15	PASS

PERCENT RSD SUMMARY: 241105B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.11	26.147	15	<PQL	0.06	73.782	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.43	7.831	15	PASS	0.46	18.784	15	FAIL
Std3-5/50 ppb	ICAL	1	4.69	2.106	15	PASS	4.88	2.548	15	PASS
Std4-10/100 ppb	ICAL	1	9.11	1.089	15	PASS	9.38	5.875	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.54	1.346	15	PASS	20.16	0.849	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	37.35	1.939	15	PASS	39.04	2.941	15	PASS
Std7-100/1000 ppb	ICAL	1	98.31	1.573	15	PASS	98.47	2.217	15	PASS
Std8-200/2000 ppb	ICAL	1	201.47	0.678	15	PASS	200.98	2.799	15	PASS
ICV	ICV	1	97.56	0.741	15	PASS	9.9	4.718	15	PASS
ICB	ICB	1	0.01	88.663	15	<PQL	0.05	49.366	15	<PQL
LLCCV1	CCV1	1	0.08	13.074	20	PASS	0.07	49.079	20	<PQL
LLCCV2	CCV1	1	0.53	6.557	20	PASS	0.09	33.099	20	<PQL
MLCCV1	CCV	1	19.46	2.236	15	PASS	19.47	4.523	15	PASS
ICSA1	ICSA	1	0.01	125.158	15	<PQL	0.03	57.68	15	<PQL
ICSAB1	ICSAB	1	19.81	1.891	15	PASS	19.51	2.889	15	PASS
CCV1	CCV	1	19.44	0.85	15	PASS	19.27	1.81	15	PASS
CCB1	CCB	1	0.01	151.082	15	<PQL	0.01	363.462	15	<PQL
ICSA2	ICSA	1	0.01	48.012	15	<PQL	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	19.72	2.497	15	PASS	19.2	2.624	15	PASS
CCV2	CCV	1	19.18	0.232	15	PASS	20.05	4.527	15	PASS
CCB2	CCB	1	0.01	84.996	15	<PQL	<0.000	N/A	15	<PQL
CCV3	CCV	1	19.36	0.123	15	PASS	19.61	1.135	15	PASS
CCB3	CCB	1	0.01	73.703	15	<PQL	0.01	244.122	15	<PQL
CCV4	CCV	1	19.4	1.649	15	PASS	19.36	3.637	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL	0.03	116.713	15	<PQL
CCV5	CCV	1	19.33	0.964	15	PASS	19.36	8.309	15	PASS
CCB5	CCB	1	0	486.338	15	<PQL	<0.000	N/A	15	<PQL
CCV6	CCV	1	20.09	1.924	15	PASS	19.56	2.656	15	PASS
CCB6	CCB	1	0.01	68.441	15	<PQL	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	0.02	91.219	15	<PQL	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	19.96	0.617	15	PASS	20.4	2.403	15	PASS
CCV7	CCV	1	18.96	0.631	15	PASS	19.54	0.574	15	PASS
CCB7	CCB	1	0.01	7.876	15	PASS	0.02	152.548	15	<PQL
N069629-001B	SAMP	1	17.57	0.452	15	PASS	0.19	51.612	15	NR!
N069631-008B	SAMP	10	22.37	1.489	15	PASS	0.13	62.953	15	NR!
N069631-009B	SAMP	1	159.81	1.372	15	PASS	0.65	13.453	15	PASS
N069631-010B	SAMP	1	884.47	0.695	15	PASS	0.88	7.72	15	PASS
N069631-010B	SAMP	10	90.99	1.443	15	PASS	0.08	30.851	15	<PQL
N069631-011B	SAMP	10	103.92	1.196	15	PASS	0.19	36.503	15	NR!
N069631-012B	SAMP	10	51.48	1.435	15	PASS	0.06	96.765	15	<PQL

PERCENT RSD SUMMARY: 241105B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N069631-013B	SAMP	10	52.26	2.486	15	PASS	1.11	7.577	15	PASS
N069631-014B	SAMP	10	62.11	1.236	15	PASS	0.35	27.659	15	NR!
N069638-001B	SAMP	10	29.61	2.213	15	PASS	0.95	8.002	15	PASS
CCV8	CCV	1	19.18	0.947	15	PASS	19.6	2.322	15	PASS
CCB8	CCB	1	0	1876.496	15	<PQL	<0.000	N/A	15	<PQL
N069638-007B	SAMP	1	91.37	0.836	15	PASS	1.92	4.893	15	PASS
N069629-001B	SAMP	1	18.22	2.746	15	PASS	0.12	59.122	15	NR!
N069631-009B	SAMP	1	161.79	1.707	15	PASS	0.67	12.252	15	PASS
N069631-010B	SAMP	1	883.02	0.817	15	PASS	0.8	20.982	15	NR!
N069629-001B	SAMP	1	17.52	1.601	15	PASS	0.1	33.245	15	<PQL
N069631-009B	SAMP	1	160.21	1.982	15	PASS	0.57	14.88	15	PASS
N069631-010B	SAMP	1	877.71	1.602	15	PASS	0.88	9.37	15	PASS
N069638-007B	SAMP	1	90.98	1.687	15	PASS	2.22	7.374	15	PASS
N069638-008B	SAMP	10	28.17	1.306	15	PASS	1.39	3.231	15	PASS
N069638-009B	SAMP	100	23.29	1.961	15	PASS	0.02	223.951	15	<PQL
CCV9	CCV	1	19.54	2.028	15	PASS	18.83	4.194	15	PASS
CCB9	CCB	1	0.01	162.894	15	<PQL	<0.000	N/A	15	<PQL
ICSA4	ICSA	1	0.01	32.619	15	<PQL	0.04	28.68	15	<PQL
ICSAB4	ICSAB	1	19.95	3.245	15	PASS	18.84	3.808	15	PASS

ANALYSIS RUN LOG



ASSET LABORATORIES
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INJECTION LOG: 241103B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1103001.d	RINSE	ICAL	1	11/03/24 10:21 PM
A1103002.d	RINSE	ICAL	1	11/03/24 10:27 PM
A1103003.d	RINSE	ICAL	1	11/03/24 10:33 PM
A1103004.d	Cal Blk	IBLK	1	11/03/24 10:39 PM
A1103005.d	Std1-0.1/1 ppb	ICAL	1	11/03/24 10:45 PM
A1103006.d	Std2-0.5/5 ppb	ICAL	1	11/03/24 10:51 PM
A1103007.d	Std3-5/50 ppb	ICAL	1	11/03/24 10:57 PM
A1103008.d	Std4-10/100 ppb	ICAL	1	11/03/24 11:03 PM
A1103009.d	Std5-4.0/20/200 ppb	ICAL	1	11/03/24 11:09 PM
A1103010.d	Std6-8.0/40/400 ppb	ICAL	1	11/03/24 11:15 PM
A1103011.d	Std7-100/1000 ppb	ICAL	1	11/03/24 11:21 PM
A1103012.d	Std8-200/2000 ppb	ICAL	1	11/03/24 11:27 PM
A1103013.d	ICV	ICV	1	11/03/24 11:53 PM
A1103014.d	ICB	ICB	1	11/03/24 11:59 PM
A1103015.d	LLCCV1	CCV1	1	11/04/24 12:05 AM
A1103016.d	LLCCV2	CCV1	1	11/04/24 12:11 AM
A1103017.d	MLCCV1	CCV	1	11/04/24 12:17 AM
A1103018.d	ICSA1	ICSA	1	11/04/24 12:22 AM
A1103019.d	ICSA1	ICSA	1	11/04/24 12:28 AM
A1103020.d	ICSAB1	ICSAB	1	11/04/24 12:34 AM
A1103021.d	N069306-004A	SAMP	1	11/04/24 12:40 AM
A1103022.d	N069306-004D	SAMP	1	11/04/24 12:46 AM
A1103023.d	N069306-005A	SAMP	1	11/04/24 12:52 AM
A1103024.d	N069306-005D	SAMP	1	11/04/24 12:57 AM
A1103025.d	N069306-008A	SAMP	1	11/04/24 1:03 AM
A1103026.d	N069306-008D	SAMP	1	11/04/24 1:09 AM
A1103027.d	RINSE	ICAL	1	11/04/24 1:15 AM
A1103028.d	CCV1	CCV	1	11/04/24 1:21 AM
A1103029.d	CCB1	CCB	1	11/04/24 1:27 AM
A1103030.d	ICSA2	ICSA	1	11/04/24 1:33 AM
A1103031.d	ICSAB2	ICSAB	1	11/04/24 1:39 AM
A1103032.d	MB-113718	MBLK	1	11/04/24 1:44 AM
A1103033.d	LCS-113718	LCS	1	11/04/24 1:50 AM
A1103034.d	N069543-001B	SAMP	1	11/04/24 1:56 AM
A1103035.d	N069543-002B	SAMP	1	11/04/24 2:02 AM
A1103036.d	N069543-002B	SAMP	5	11/04/24 2:08 AM
A1103037.d	N069543-002B-PS	PS	1	11/04/24 2:14 AM
A1103038.d	N069543-002B-MS	MS	1	11/04/24 2:20 AM
A1103039.d	N069543-002B-MSD	MSD	1	11/04/24 2:26 AM
A1103040.d	N069543-003B	SAMP	1	11/04/24 2:32 AM
A1103041.d	RINSE	ICAL	1	11/04/24 2:38 AM
A1103042.d	CCV2	CCV	1	11/04/24 2:44 AM

INJECTION LOG: 241103B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1103043.d	CCB2	CCB	1	11/04/24 2:50 AM
A1103044.d	N069543-004B	SAMP	1	11/04/24 2:55 AM
A1103045.d	N069543-005B	SAMP	1	11/04/24 3:01 AM
A1103046.d	N069543-006B	SAMP	1	11/04/24 3:07 AM
A1103047.d	N069543-007B	SAMP	1	11/04/24 3:13 AM
A1103048.d	N069543-008B	SAMP	1	11/04/24 3:19 AM
A1103049.d	N069543-009B	SAMP	1	11/04/24 3:25 AM
A1103050.d	N069543-010B	SAMP	1	11/04/24 3:31 AM
A1103051.d	N069543-011B	SAMP	1	11/04/24 3:37 AM
A1103052.d	N069543-012B	SAMP	1	11/04/24 3:43 AM
A1103053.d	RINSE	ICAL	1	11/04/24 3:49 AM
A1103054.d	CCV3	CCV	1	11/04/24 3:55 AM
A1103055.d	CCB3	CCB	1	11/04/24 4:01 AM
A1103056.d	N069543-013B	SAMP	1	11/04/24 4:07 AM
A1103057.d	N069543-014B	SAMP	1	11/04/24 4:13 AM
A1103058.d	N069543-015B	SAMP	1	11/04/24 4:19 AM
A1103059.d	N069543-016B	SAMP	1	11/04/24 4:25 AM
A1103060.d	N069543-017B	SAMP	1	11/04/24 4:30 AM
A1103061.d	N069543-019B	SAMP	1	11/04/24 4:36 AM
A1103062.d	N069543-020B	SAMP	1	11/04/24 4:42 AM
A1103063.d	N069543-005B	SAMP	1	11/04/24 4:48 AM
A1103064.d	N069543-006B	SAMP	1	11/04/24 4:54 AM
A1103065.d	N069543-005B	SAMP	1	11/04/24 5:00 AM
A1103066.d	CCV4	CCV	1	11/04/24 5:09 AM
A1103067.d	CCB4	CCB	1	11/04/24 5:15 AM
A1103068.d	ICSA3	ICSA	1	11/04/24 5:21 AM
A1103069.d	ICSAB3	ICSAB	1	11/04/24 5:27 AM
A1103070.d	MB-113746	MBLK	1	11/04/24 5:32 AM
A1103071.d	LCS-113746	LCS	1	11/04/24 5:38 AM
A1103072.d	N069542-001B	SAMP	10	11/04/24 5:44 AM
A1103073.d	N069542-002B	SAMP	10	11/04/24 5:50 AM
A1103074.d	N069542-003B	SAMP	10	11/04/24 5:56 AM
A1103075.d	N069582-002B	SAMP	1	11/04/24 6:02 AM
A1103076.d	N069582-003B	SAMP	1	11/04/24 6:08 AM
A1103077.d	N069582-004B	SAMP	1	11/04/24 6:14 AM
A1103078.d	N069582-005B	SAMP	1	11/04/24 6:19 AM
A1103079.d	RINSE	ICAL	1	11/04/24 6:25 AM
A1103080.d	CCV4	CCV	1	11/04/24 6:31 AM
A1103081.d	CCB4	CCB	1	11/04/24 6:37 AM
A1103082.d	N069582-006B	SAMP	1	11/04/24 6:43 AM
A1103083.d	N069583-001B	SAMP	1	11/04/24 6:49 AM
A1103084.d	N069583-001B	SAMP	10	11/04/24 6:55 AM

INJECTION LOG: 241103B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1103085.d	N069583-002B	SAMP	1	11/04/24 7:01 AM
A1103086.d	N069583-002B	SAMP	10	11/04/24 7:07 AM
A1103087.d	N069583-003B	SAMP	1	11/04/24 7:12 AM
A1103088.d	N069583-003B	SAMP	5	11/04/24 7:18 AM
A1103089.d	N069583-003B	SAMP	10	11/04/24 7:24 AM
A1103090.d	N069583-003B	SAMP	50	11/04/24 7:30 AM
A1103091.d	CCV5	CCV	1	11/04/24 7:36 AM
A1103092.d	CCB5	CCB	1	11/04/24 7:42 AM
A1103093.d	N069583-003B-PS	PS	1	11/04/24 7:48 AM
A1103094.d	N069583-003B-PS	PS	10	11/04/24 7:54 AM
A1103095.d	N069583-003BMS	MS	1	11/04/24 8:00 AM
A1103096.d	N069583-003BMS	MS	10	11/04/24 8:05 AM
A1103097.d	N069583-003BMSD	MSD	1	11/04/24 8:11 AM
A1103098.d	N069583-003BMSD	MSD	10	11/04/24 8:17 AM
A1103099.d	N069583-004B	SAMP	1	11/04/24 8:23 AM
A1103100.d	N069583-004B	SAMP	10	11/04/24 8:29 AM
A1103101.d	N069583-006B	SAMP	1	11/04/24 8:35 AM
A1103102.d	RINSE	ICAL	1	11/04/24 8:41 AM
A1103103.d	CCV6	CCV	1	11/04/24 8:47 AM
A1103104.d	CCB6	CCB	1	11/04/24 8:53 AM
A1103105.d	N069583-008B	SAMP	1	11/04/24 8:58 AM
A1103106.d	N069583-008B	SAMP	10	11/04/24 9:04 AM
A1103107.d	N069583-009B	SAMP	1	11/04/24 9:10 AM
A1103108.d	N069583-009B	SAMP	10	11/04/24 9:16 AM
A1103109.d	N069583-010B	SAMP	1	11/04/24 9:22 AM
A1103110.d	N069583-010B	SAMP	100	11/04/24 9:28 AM
A1103111.d	N069585-001B	SAMP	1	11/04/24 9:34 AM
A1103112.d	RINSE	ICAL	1	11/04/24 9:40 AM
A1103113.d	CCV7	CCV	1	11/04/24 9:46 AM
A1103114.d	CCB7	CCB	1	11/04/24 9:52 AM
A1103115.d	ICSA4	ICSA	1	11/04/24 9:57 AM
A1103116.d	ICSAB4	ICSAB	1	11/04/24 10:03 AM
A1103117.d	MB-113831	MBLK	1	11/04/24 10:09 AM
A1103118.d	LCS-113831	LCS	1	11/04/24 10:15 AM
A1103119.d	N069629-001B	SAMP	1	11/04/24 10:21 AM
A1103120.d	N069629-001B	SAMP	5	11/04/24 10:27 AM
A1103121.d	N069629-001B-PS	PS	1	11/04/24 10:33 AM
A1103122.d	N069629-001B-MS	MS	1	11/04/24 10:39 AM
A1103123.d	N069629-001B-MSD	MSD	1	11/04/24 10:45 AM
A1103124.d	N069629-002B	SAMP	1	11/04/24 10:50 AM
A1103125.d	N069631-008B	SAMP	1	11/04/24 10:56 AM
A1103126.d	RINSE	ICAL	1	11/04/24 11:02 AM

INJECTION LOG: 241103B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1103127.d	CCV8	CCV	1	11/04/24 11:08 AM
A1103128.d	CCB8	CCB	1	11/04/24 11:14 AM
A1103129.d	N069631-009B	SAMP	1	11/04/24 11:20 AM
A1103130.d	N069631-010B	SAMP	1	11/04/24 11:26 AM
A1103131.d	N069631-011B	SAMP	1	11/04/24 11:32 AM
A1103132.d	N069631-012B	SAMP	1	11/04/24 11:38 AM
A1103133.d	N069631-013B	SAMP	1	11/04/24 11:44 AM
A1103134.d	N069631-014B	SAMP	1	11/04/24 11:50 AM
A1103135.d	N069638-001B	SAMP	1	11/04/24 11:56 AM
A1103136.d	N069638-002B	SAMP	1	11/04/24 12:02 PM
A1103137.d	N069638-003B	SAMP	1	11/04/24 12:08 PM
A1103138.d	RINSE	ICAL	1	11/04/24 12:14 PM
A1103139.d	CCV9	CCV	1	11/04/24 12:20 PM
A1103140.d	CCB9	CCB	1	11/04/24 12:25 PM
A1103141.d	N069638-007B	SAMP	1	11/04/24 12:31 PM
A1103142.d	N069638-008B	SAMP	1	11/04/24 12:37 PM
A1103143.d	N069638-009B	SAMP	1	11/04/24 12:43 PM
A1103144.d	RINSE	ICAL	1	11/04/24 12:49 PM
A1103145.d	CCV10	CCV	1	11/04/24 12:55 PM
A1103146.d	CCB10	CCB	1	11/04/24 1:01 PM
A1103147.d	MB-113832	MBLK	1	11/04/24 1:07 PM
A1103148.d	LCS-113832	LCS	1	11/04/24 1:12 PM
A1103149.d	N069542-001C	SAMP	1	11/04/24 1:18 PM
A1103150.d	N069542-001C	SAMP	5	11/04/24 1:24 PM
A1103151.d	N069542-001C-PS	PS	1	11/04/24 1:30 PM
A1103152.d	N069542-001C-MS	MS	1	11/04/24 1:36 PM
A1103153.d	N069542-001C-MSD	MSD	1	11/04/24 1:42 PM
A1103154.d	N069542-002C	SAMP	1	11/04/24 1:48 PM
A1103155.d	N069542-003C	SAMP	1	11/04/24 1:54 PM
A1103156.d	RINSE	ICAL	1	11/04/24 2:00 PM
A1103157.d	CCV11	CCV	1	11/04/24 2:06 PM
A1103158.d	CCB11	CCB	1	11/04/24 2:12 PM
A1103159.d	ICSA5	ICSA	1	11/04/24 2:17 PM
A1103160.d	ICSAB5	ICSAB	1	11/04/24 2:23 PM
A1103161.d	RINSE	ICAL	1	11/04/24 2:29 PM
A1103162.d	RINSE	ICAL	1	11/04/24 2:35 PM

INJECTION LOG: 241105B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1105001.d	RINSE	ICAL	1	11/05/24 4:12 PM
B1105002.d	RINSE	ICAL	1	11/05/24 4:18 PM
B1105003.d	Cal Blk	IBLK	1	11/05/24 4:24 PM
B1105004.d	Std1-0.1/1 ppb	ICAL	1	11/05/24 4:30 PM
B1105005.d	Std2-0.5/5 ppb	ICAL	1	11/05/24 4:36 PM
B1105006.d	Std3-5/50 ppb	ICAL	1	11/05/24 4:42 PM
B1105007.d	Std4-10/100 ppb	ICAL	1	11/05/24 4:48 PM
B1105008.d	Std5-4.0/20/200 ppb	ICAL	1	11/05/24 4:54 PM
B1105009.d	Std6-8.0/40/400 ppb	ICAL	1	11/05/24 5:00 PM
B1105010.d	Std7-100/1000 ppb	ICAL	1	11/05/24 5:06 PM
B1105011.d	Std8-200/2000 ppb	ICAL	1	11/05/24 5:12 PM
B1105012.d	ICV	ICV	1	11/05/24 5:20 PM
B1105013.d	ICB	ICB	1	11/05/24 5:26 PM
B1105014.d	LLCCV1	CCV1	1	11/05/24 5:32 PM
B1105015.d	LLCCV2	CCV1	1	11/05/24 5:38 PM
B1105016.d	MLCCV1	CCV	1	11/05/24 5:44 PM
B1105017.d	ICSA1	ICSA	1	11/05/24 5:50 PM
B1105018.d	ICSAB1	ICSAB	1	11/05/24 5:56 PM
B1105019.d	MB-113875	MBLK	1	11/05/24 6:01 PM
B1105020.d	LCS-113875	LCS	1	11/05/24 6:07 PM
B1105021.d	N069694-003B	SAMP	1	11/05/24 6:13 PM
B1105022.d	N069694-003B	SAMP	5	11/05/24 6:19 PM
B1105023.d	N069694-003B-PS	PS	1	11/05/24 6:25 PM
B1105024.d	N069694-003B-MS	MS	1	11/05/24 6:31 PM
B1105025.d	N069694-003B-MSD	MSD	1	11/05/24 6:37 PM
B1105026.d	RINSE	ICAL	1	11/05/24 6:43 PM
B1105027.d	CCV1	CCV	1	11/05/24 6:48 PM
B1105028.d	CCB1	CCB	1	11/05/24 6:54 PM
B1105029.d	ICSA2	ICSA	1	11/05/24 7:00 PM
B1105030.d	ICSAB2	ICSAB	1	11/05/24 7:06 PM
B1105031.d	MB-113874	MBLK	1	11/05/24 7:12 PM
B1105032.d	LCS-113874	LCS	1	11/05/24 7:18 PM
B1105033.d	N069234-016D	SAMP	1	11/05/24 7:23 PM
B1105034.d	N069234-016D	SAMP	5	11/05/24 7:29 PM
B1105035.d	N069234-016D-PS	PS	1	11/05/24 7:35 PM
B1105036.d	N069234-016D-MS	MS	1	11/05/24 7:41 PM
B1105037.d	N069234-016D-MSD	MSD	1	11/05/24 7:47 PM
B1105038.d	RINSE	ICAL	1	11/05/24 7:53 PM
B1105039.d	CCV2	CCV	1	11/05/24 7:59 PM
B1105040.d	CCB2	CCB	1	11/05/24 8:04 PM
B1105041.d	MB-113864	MBLK	1	11/05/24 8:10 PM
B1105042.d	LCS-113864	LCS	1	11/05/24 8:16 PM

INJECTION LOG: 241105B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1105043.d	N069694-001B	SAMP	1	11/05/24 8:22 PM
B1105044.d	N069694-002B	SAMP	1	11/05/24 8:28 PM
B1105045.d	N069694-003B	SAMP	1	11/05/24 8:34 PM
B1105046.d	N069694-004B	SAMP	1	11/05/24 8:40 PM
B1105047.d	N069695-001B	SAMP	1	11/05/24 8:45 PM
B1105048.d	N069695-001B	SAMP	5	11/05/24 8:51 PM
B1105049.d	N069695-001B-PS	PS	1	11/05/24 8:57 PM
B1105050.d	RINSE	ICAL	1	11/05/24 9:03 PM
B1105051.d	CCV3	CCV	1	11/05/24 9:09 PM
B1105052.d	CCB3	CCB	1	11/05/24 9:15 PM
B1105053.d	N069695-001BMS	MS	1	11/05/24 9:21 PM
B1105054.d	N069695-001BMSD	MSD	1	11/05/24 9:26 PM
B1105055.d	N069695-002B	SAMP	1	11/05/24 9:32 PM
B1105056.d	N069695-003B	SAMP	1	11/05/24 9:38 PM
B1105057.d	N069695-003B	SAMP	5	11/05/24 9:44 PM
B1105058.d	N069695-003B-PS	PS	1	11/05/24 9:50 PM
B1105059.d	N069695-003BMS	MS	1	11/05/24 9:56 PM
B1105060.d	N069695-003BMSD	MSD	1	11/05/24 10:02 PM
B1105061.d	N069697-001B	SAMP	1	11/05/24 10:08 PM
B1105062.d	RINSE	ICAL	1	11/05/24 10:13 PM
B1105063.d	CCV4	CCV	1	11/05/24 10:19 PM
B1105064.d	CCB4	CCB	1	11/05/24 10:25 PM
B1105065.d	N069697-002B	SAMP	1	11/05/24 10:31 PM
B1105066.d	N069697-003B	SAMP	1	11/05/24 10:37 PM
B1105067.d	N069697-004B	SAMP	1	11/05/24 10:43 PM
B1105068.d	N069697-005B	SAMP	1	11/05/24 10:49 PM
B1105069.d	N069697-006B	SAMP	1	11/05/24 10:54 PM
B1105070.d	N069697-007B	SAMP	1	11/05/24 11:00 PM
B1105071.d	N069697-008B	SAMP	1	11/05/24 11:06 PM
B1105072.d	N069697-009B	SAMP	1	11/05/24 11:12 PM
B1105073.d	N069697-010D	SAMP	1	11/05/24 11:18 PM
B1105074.d	RINSE	ICAL	1	11/05/24 11:24 PM
B1105075.d	CCV5	CCV	1	11/05/24 11:30 PM
B1105076.d	CCB5	CCB	1	11/05/24 11:36 PM
B1105077.d	N069697-011D	SAMP	1	11/05/24 11:41 PM
B1105078.d	N069697-012D	SAMP	1	11/05/24 11:48 PM
B1105079.d	N069697-013D	SAMP	1	11/05/24 11:54 PM
B1105080.d	RINSE	ICAL	1	11/06/24 12:00 AM
B1105081.d	CCV6	CCV	1	11/06/24 12:06 AM
B1105082.d	CCB6	CCB	1	11/06/24 12:11 AM
B1105083.d	ICSA3	ICSA	1	11/06/24 12:17 AM
B1105084.d	ICSAB3	ICSAB	1	11/06/24 12:23 AM

INJECTION LOG: 241105B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1105085.d	N069582-002B	SAMP	1	11/06/24 12:29 AM
B1105086.d	N069582-002B	SAMP	1	11/06/24 12:35 AM
B1105087.d	N069582-002B	SAMP	1	11/06/24 12:41 AM
B1105088.d	N069582-004B	SAMP	10	11/06/24 12:47 AM
B1105089.d	N069582-005B	SAMP	10	11/06/24 12:53 AM
B1105090.d	N069582-006B	SAMP	10	11/06/24 12:59 AM
B1105091.d	N069583-003B	SAMP	1	11/06/24 1:05 AM
B1105092.d	N069583-003B	SAMP	1	11/06/24 1:10 AM
B1105093.d	N069583-003B	SAMP	1	11/06/24 1:16 AM
B1105094.d	RINSE	ICAL	1	11/06/24 1:22 AM
B1105095.d	CCV7	CCV	1	11/06/24 1:28 AM
B1105096.d	CCB7	CCB	1	11/06/24 1:34 AM
B1105097.d	N069629-001B	SAMP	1	11/06/24 1:40 AM
B1105098.d	N069631-008B	SAMP	10	11/06/24 1:46 AM
B1105099.d	N069631-009B	SAMP	1	11/06/24 1:52 AM
B1105100.d	N069631-010B	SAMP	1	11/06/24 1:58 AM
B1105101.d	N069631-010B	SAMP	10	11/06/24 2:04 AM
B1105102.d	N069631-011B	SAMP	10	11/06/24 2:10 AM
B1105103.d	N069631-012B	SAMP	10	11/06/24 2:16 AM
B1105104.d	N069631-013B	SAMP	10	11/06/24 2:22 AM
B1105105.d	N069631-014B	SAMP	10	11/06/24 2:28 AM
B1105106.d	N069638-001B	SAMP	10	11/06/24 2:33 AM
B1105107.d	CCV8	CCV	1	11/06/24 2:39 AM
B1105108.d	CCB8	CCB	1	11/06/24 2:45 AM
B1105109.d	N069638-007B	SAMP	1	11/06/24 2:51 AM
B1105110.d	N069629-001B	SAMP	1	11/06/24 2:57 AM
B1105111.d	N069631-009B	SAMP	1	11/06/24 3:03 AM
B1105112.d	N069631-010B	SAMP	1	11/06/24 3:09 AM
B1105113.d	N069629-001B	SAMP	1	11/06/24 3:15 AM
B1105114.d	N069631-009B	SAMP	1	11/06/24 3:21 AM
B1105115.d	N069631-010B	SAMP	1	11/06/24 3:27 AM
B1105116.d	N069638-007B	SAMP	1	11/06/24 3:33 AM
B1105117.d	N069638-008B	SAMP	10	11/06/24 3:39 AM
B1105118.d	N069638-009B	SAMP	100	11/06/24 3:45 AM
B1105119.d	CCV9	CCV	1	11/06/24 3:50 AM
B1105120.d	CCB9	CCB	1	11/06/24 3:56 AM
B1105121.d	ICSA4	ICSA	1	11/06/24 4:02 AM
B1105122.d	ICSAB4	ICSAB	1	11/06/24 4:08 AM
B1105123.d	RINSE	ICAL	1	11/06/24 4:14 AM
B1105124.d	RINSE	ICAL	1	11/06/24 4:20 AM
B1105125.d	RINSE	ICAL	1	11/06/24 4:26 AM

SAMPLE PREPARATION LOG



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

400

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 11/3/2024 7:30:00 PM
 Prep End Date: 11/3/2024 11:30:00 PM

Reviewed/ Date: *JRB* 11/19/2024

Page: 1 of 2

Prep Batch 113831 Prep Code:3010_W_MSDISS_TPK

Initials/ Date: for _____
 Technician: Diane Jetajobe

Prep Factor Units
 mL / mL

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-113831	Aqueous		25	<input type="checkbox"/>	25	1.000		
MB-113831	Aqueous		25	<input type="checkbox"/>	25	1.000		
N069629-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069629-001B-MS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069629-001B-MSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069629-002B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069631-008B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069631-009B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069631-010B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069631-011B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069631-012B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069631-013B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069631-014B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069638-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17140	NITRIC ACID
17147	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-240815C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-240815D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-240815E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-240815F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 11/3/2024 7:30:00 PM
 Prep End Date: 11/3/2024 11:30:00 PM

Reviewed/ Date: JRB 11/19/2024

Initials/ Date: _____ for _____

Prep Factor Units
mL / mL

Prep Batch 113831 Prep Code:3010_W_MSDISS_TPK

Technician: Diane Jetajobe

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N069638-002B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069638-003B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069638-007B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069638-008B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069638-009B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17140	NITRIC ACID
17147	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-240815C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-240815D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-240815E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-240815F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

INSTRUMENT TUNING CHECK



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\241101C.b
Acq. Date-Time 2024-11-03 22:07:00
Report Comment —
Instrument Name G8421A SG19193757

[No Gas]

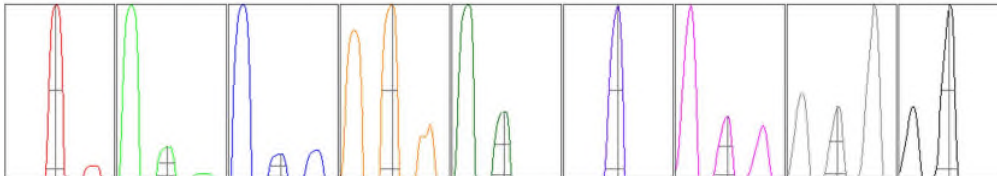
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	5417	54171.13	500.00		3.895	5.000
24	10.00	18113	181134.68	500.00		3.162	5.000
25	10.00	2399	23988.24	500.00		3.991	5.000
26	10.00	2740	27402.98	500.00		3.005	5.000
59	10.00	27813	278128.90	500.00		2.762	5.000
115	10.00	37760	377603.09	500.00		2.136	5.000
206	10.00	7957	79573.41	500.00		2.578	5.000
207	10.00	6230	62297.19	500.00		2.171	5.000
208	10.00	15627	156271.60	500.00		1.981	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.488 %
Doubly Charged 70 / 140 0.858 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	5382.53	8.90	8.90 - 9.10	
24	18039.81	23.90	23.90 - 24.10	
25	2372.48	24.95	24.90 - 25.10	
26	2782.62	25.95	25.90 - 26.10	
59	27056.27	58.95	58.90 - 59.10	
115	37443.11	115.00	114.90 - 115.10	
206	8208.37	205.95	205.90 - 206.10	
207	6843.19	206.90	206.90 - 207.10	
208	16836.48	207.90	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.38	0.490	0.900	
24	0.45	0.541	0.900	
25	0.45	0.548	0.900	
26	0.44	0.542	0.900	
59	0.42	0.538	0.900	
115	0.39	0.531	0.900	
206	0.37	0.582	0.900	
207	0.36	0.606	0.900	
208	0.38	0.594	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.1 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2640 V Pulse HV 1872 V

[H2]

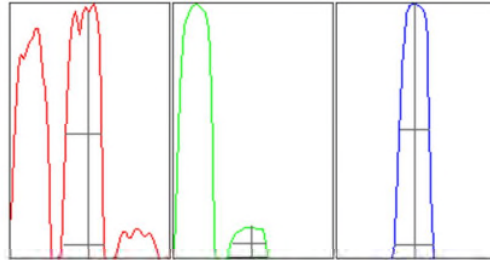
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		161	1614.68			6.992	
59		2324	23240.02			3.102	
115		32900	328995.40			2.512	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.408 %
 Doubly Charged 70 / 140 0.277 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	161.26	26.00	25.90 - 26.10	
59	2408.83	59.00	58.90 - 59.10	
115	34382.52	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.68	0.792	0.900	
59	0.65	0.743	0.900	
115	0.57	0.732	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	--	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	—	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	132	Axis Gain	1.0001	QP Bias	-15.0 V
Mass Offset	126	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.1 mm
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EM

Discriminator	4.5 mV	Analog HV	2640 V	Pulse HV	1872 V
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[He]

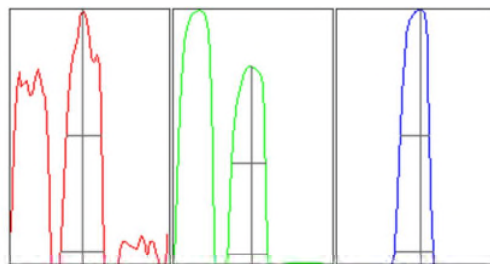
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		70	703.81			10.429	
59		6107	61071.23			1.630	
115		5125	51248.17			1.987	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.177 %
Doubly Charged	70 / 140 1.101 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	73.25	25.90	25.90 - 26.10	
59	6259.21	59.00	58.90 - 59.10	
115	5150.25	115.10	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.67	0.821	0.900	
59	0.64	0.742	0.900	
115	0.56	0.729	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	132	Axis Gain	1.0001	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.1 mm
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EM

Discriminator	4.5 mV	Analog HV	2640 V	Pulse HV	1872 V
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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\241103A.b
Acq. Date-Time 2024-11-05 11:29:09
Report Comment —
Instrument Name G8421A SG19193757

[No Gas]

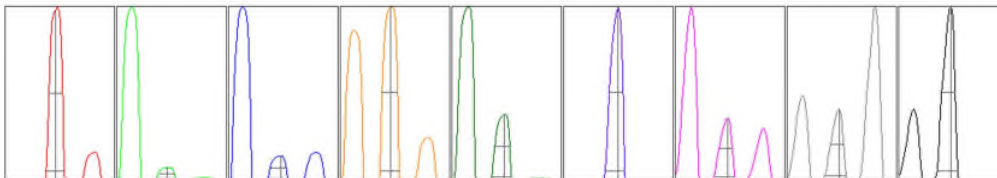
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	4888	48879.00	500.00		3.959	5.000
24	10.00	19646	196455.35	500.00		3.227	5.000
25	10.00	2583	25831.32	500.00		3.555	5.000
26	10.00	2951	29510.30	500.00		3.669	5.000
59	10.00	27289	272887.21	500.00		3.534	5.000
115	10.00	39232	392321.11	500.00		2.442	5.000
206	10.00	8820	88200.38	500.00		2.327	5.000
207	10.00	6890	68901.30	500.00		2.386	5.000
208	10.00	17379	173789.93	500.00		1.774	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.544 %
Doubly Charged 70 / 140 0.797 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	4794.02	8.90	8.90 - 9.10	
24	19543.03	23.90	23.90 - 24.10	
25	2564.02	24.95	24.90 - 25.10	
26	2983.95	25.90	25.90 - 26.10	
59	26620.55	58.95	58.90 - 59.10	
115	38574.62	115.00	114.90 - 115.10	
206	8742.39	205.95	205.90 - 206.10	
207	7306.93	206.95	206.90 - 207.10	
208	18171.35	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.38	0.489	0.900	
24	0.44	0.541	0.900	
25	0.44	0.543	0.900	
26	0.43	0.540	0.900	
59	0.41	0.536	0.900	
115	0.38	0.527	0.900	
206	0.37	0.580	0.900	
207	0.36	0.598	0.900	
208	0.37	0.582	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.2 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2642 V Pulse HV 1876 V

[H2]

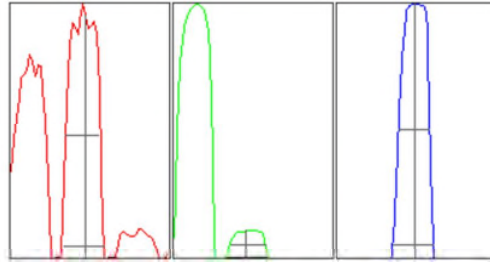
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		159	1586.87			8.791	
59		1988	19877.87			3.412	
115		32511	325106.03			2.213	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.449 %
 Doubly Charged 70 / 140 0.256 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	167.51	25.95	25.90 - 26.10	
59	2044.08	58.90	58.90 - 59.10	
115	33309.86	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.65	0.788	0.900	
59	0.66	0.782	0.900	
115	0.59	0.767	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	--	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	—	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0004	QP Bias	-15.0 V
Mass Offset	126	Axis Offset	-0.04		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2642 V	Pulse HV	1876 V
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[He]

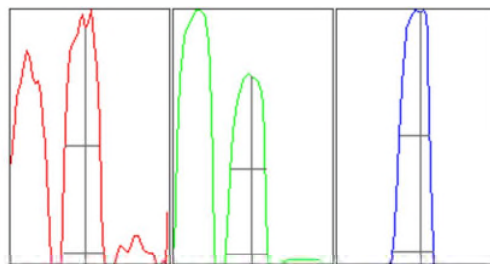
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		74	743.02			13.233	
59		5859	58589.96			2.236	
115		4989	49891.29			2.303	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.178 %
Doubly Charged	70 / 140 1.034 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	73.50	25.95	25.90 - 26.10	
59	5880.57	59.00	58.90 - 59.10	
115	5058.67	115.10	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.65	0.787	0.900	
59	0.65	0.785	0.900	
115	0.58	0.764	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0004	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	-0.04		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2642 V	Pulse HV	1876 V
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INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

INITIAL CALIBRATION SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Analyte	Data File	A1103004.d	A1103005.d	A1103006.d	A1103007.d	A1103008.d	A1103009.d	A1103010.d	A1103011.d	A1103012.d	R
	Acq. Date-Time	11/03/2024 10:39 PM	11/03/2024 10:45 PM	11/03/2024 10:51 PM	11/03/2024 10:57 PM	11/03/2024 11:03 PM	11/03/2024 11:09 PM	11/03/2024 11:15 PM	11/03/2024 11:21 PM	11/03/2024 11:27 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L		
45 Sc (ISTD) [2]	CPS	26765.9		26996.3	27130.9	26916.1	27340.1	26553.3	25875.6	25225.7	
55 Mn [2]	CPS	8.9		493.3	4865.2	9641.7	20284.7	38317.5	95170.5	190903.8	0.9999
52 Cr [2]	CPS	157.8		1127.8	9755.1	19275.7	38840.8	76616.9	188873.7	380687.2	0.9999
72 Ge (ISTD) [1]	CPS	53422.4		53060.1	52838.3	53216.2	53129.2	52707.8	51282.2	49004.1	
78 Se [1]	CPS	0		71.1	674.5	1323.4	2610.2	5387.6	13143.1	26450.4	0.9997
72 Ge (ISTD) [2]	CPS	16330.4	16444.9	16499.4	16386	16102.4	16486.1	15896.7	15498.5	15186	
75 As [2]	CPS	1.1	30	123.3	1025.6	2151.3	4301.7	8412.2	21140.4	42362.5	0.9999
103 Rh (ISTD) [2]	CPS	450632.3		449318.8	447984.4	448018.9	446463.1	440120.1	429038	412572.8	
95 Mo [2]	CPS	15.6		535.6	5203.1	10419	21078.3	42419.1	104525.1	211899.5	0.9997
159 Tb (ISTD) [3]	CPS	1440059.4		1454342.2	1448589.3	1449230.7	1450435.7	1439544.6	1380000.8	1358444.7	
137 Ba [3]	CPS	20		1336.7	13752.9	27250.8	54482	109852.1	271992.9	550430.7	0.9999

Standard Code
ICAL: 2MSST-240311B
ICAL: 2MSST-240311C
ICAL: 2MWST-240815K
ICV: 2MWST-240815G
LLICV: 2MWST-240815J
IS Mix: 2MWST-240815A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION SUMMARY: 241105B

Instrument ID: NV00922-ICP8

Analyte	Data File	B1105003.d	B1105004.d	B1105005.d	B1105006.d	B1105007.d	B1105008.d	B1105009.d	B1105010.d	B1105011.d	R
	Acq. Date-Time	11/05/2024 04:24 PM	11/05/2024 04:30 PM	11/05/2024 04:36 PM	11/05/2024 04:42 PM	11/05/2024 04:48 PM	11/05/2024 04:54 PM	11/05/2024 05:00 PM	11/05/2024 05:06 PM	11/05/2024 05:12 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L		
45 Sc (ISTD) [2]	CPS	25659.7		25364.8	25241.3	25394.8	25467.2	25517.3	24560.3	23953.9	
55 Mn [2]	CPS	11.1		413.3	4409.5	8610	18509.2	35438.9	89752.5	179401.5	0.9999
72 Ge (ISTD) [2]	CPS	15888.9	15710.9	15716.5	15534.1	15756.5	15703.1	15547.4	15260.5	15210.4	
75 As [2]	CPS	4.4	17.8	102.2	1018.9	1984.6	4246.1	8139.8	20142.4	40958.9	0.9999

Standard Code
ICAL: 2MSST-240311B
ICAL: 2MSST-240311C
ICAL: 2MWST-240815K
ICV: 2MWST-240815G
LLICV: 2MWST-240815J
IS Mix: 2MWST-240815A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
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“Serving Clients with Passion and Professionalism”

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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/3/2024	SeqNo: 6285974							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.646	0.10	10.00	0	96.5	90	110				
Barium	9.298	1.0	10.00	0	93.0	90	110				
Manganese	95.762	0.50	100.0	0	95.8	90	110				
Molybdenum	9.511	0.50	10.00	0	95.1	90	110				
Selenium	9.675	0.50	10.00	0	96.8	90	110				

Sample ID LLCCV2	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ZZZZZZ	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285977							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.118	0.10	0.1000	0	118	80	120				
Barium	0.982	1.0	1.000	0	98.2	80	120				
Manganese	0.521	0.50	0.5000	0	104	80	120				
Molybdenum	0.474	0.50	0.5000	0	94.8	80	120				
Selenium	0.532	0.50	0.5000	0	106	80	120				

Sample ID MLCCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285978							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.692	0.10	20.00	0	93.5	90	110				
Barium	18.689	1.0	20.00	0	93.4	90	110				
Manganese	20.181	0.50	20.00	0	101	90	110				
Molybdenum	18.482	0.50	20.00	0	92.4	90	110				
Selenium	18.785	0.50	20.00	0	93.9	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285988							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	18.225	0.10	20.00	0	91.1	90	110				
Barium	18.859	1.0	20.00	0	94.3	90	110				
Manganese	19.677	0.50	20.00	0	98.4	90	110				
Molybdenum	18.394	0.50	20.00	0	92.0	90	110				
Selenium	18.785	0.50	20.00	0	93.9	90	110				

Sample ID CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286001							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	18.563	0.10	20.00	0	92.8	90	110				
Barium	20.368	1.0	20.00	0	102	90	110				
Manganese	19.361	0.50	20.00	0	96.8	90	110				
Molybdenum	19.358	0.50	20.00	0	96.8	90	110				
Selenium	19.054	0.50	20.00	0	95.3	90	110				

Sample ID CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286012							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	18.431	0.10	20.00	0	92.2	90	110				
Barium	20.230	1.0	20.00	0	101	90	110				
Manganese	19.116	0.50	20.00	0	95.6	90	110				
Molybdenum	19.177	0.50	20.00	0	95.9	90	110				
Selenium	18.005	0.50	20.00	0	90.0	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286024							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.233	0.10	20.00	0	96.2	90	110				
Barium	20.628	1.0	20.00	0	103	90	110				
Manganese	18.981	0.50	20.00	0	94.9	90	110				
Molybdenum	19.434	0.50	20.00	0	97.2	90	110				
Selenium	18.278	0.50	20.00	0	91.4	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286037							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.118	0.10	20.00	0	95.6	90	110				
Barium	20.193	1.0	20.00	0	101	90	110				
Manganese	19.540	0.50	20.00	0	97.7	90	110				
Molybdenum	19.403	0.50	20.00	0	97.0	90	110				
Selenium	18.290	0.50	20.00	0	91.4	90	110				

Sample ID CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286048							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.712	0.10	20.00	0	93.6	90	110				
Barium	19.928	1.0	20.00	0	99.6	90	110				
Manganese	19.301	0.50	20.00	0	96.5	90	110				
Molybdenum	19.474	0.50	20.00	0	97.4	90	110				
Selenium	19.351	0.50	20.00	0	96.8	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286059							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.263	0.10	20.00	0	96.3	90	110				
Barium	19.960	1.0	20.00	0	99.8	90	110				
Manganese	19.240	0.50	20.00	0	96.2	90	110				
Molybdenum	19.180	0.50	20.00	0	95.9	90	110				
Selenium	18.437	0.50	20.00	0	92.2	90	110				

Sample ID CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286068							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.836	0.10	20.00	0	94.2	90	110				
Barium	20.381	1.0	20.00	0	102	90	110				
Manganese	19.354	0.50	20.00	0	96.8	90	110				
Molybdenum	19.434	0.50	20.00	0	97.2	90	110				
Selenium	19.051	0.50	20.00	0	95.3	90	110				

Sample ID CCV8	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286081							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.621	0.10	20.00	0	98.1	90	110				
Barium	20.375	1.0	20.00	0	102	90	110				
Manganese	19.331	0.50	20.00	0	96.7	90	110				
Molybdenum	19.364	0.50	20.00	0	96.8	90	110				
Selenium	18.775	0.50	20.00	0	93.9	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV9	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286092							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.463	0.10	20.00	0	97.3	90	110				
Barium	21.099	1.0	20.00	0	105	90	110				
Manganese	18.952	0.50	20.00	0	94.8	90	110				
Molybdenum	19.617	0.50	20.00	0	98.1	90	110				
Selenium	18.590	0.50	20.00	0	93.0	90	110				

Sample ID CCV10	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286097							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.781	0.10	20.00	0	93.9	90	110				
Barium	20.477	1.0	20.00	0	102	90	110				
Manganese	19.204	0.50	20.00	0	96.0	90	110				
Molybdenum	19.533	0.50	20.00	0	97.7	90	110				
Selenium	19.420	0.50	20.00	0	97.1	90	110				

Sample ID CCV11	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286108							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.199	0.10	20.00	0	91.0	90	110				
Barium	20.476	1.0	20.00	0	102	90	110				
Manganese	18.873	0.50	20.00	0	94.4	90	110				
Molybdenum	19.438	0.50	20.00	0	97.2	90	110				
Selenium	19.082	0.50	20.00	0	95.4	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ICV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293418							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.899	0.10	10.00	0	99.0	90	110				
Manganese	97.561	0.50	100.0	0	97.6	90	110				

Sample ID LLCCV2	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ZZZZZ	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293421							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.086	0.10	0.1000	0	86.5	80	120				
Manganese	0.533	0.50	0.5000	0	107	80	120				

Sample ID MLCCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293422							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.468	0.10	20.00	0	97.3	90	110				
Manganese	19.463	0.50	20.00	0	97.3	90	110				

Sample ID CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293432							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.267	0.10	20.00	0	96.3	90	110				
Manganese	19.436	0.50	20.00	0	97.2	90	110				

Sample ID CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293443							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.047	0.10	20.00	0	100	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293443							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	19.182	0.50	20.00	0	95.9	90	110				
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Sample ID CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293454							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.611	0.10	20.00	0	98.1	90	110				
Manganese	19.356	0.50	20.00	0	96.8	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293465							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.357	0.10	20.00	0	96.8	90	110				
Manganese	19.396	0.50	20.00	0	97.0	90	110				

Sample ID CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293476							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.359	0.10	20.00	0	96.8	90	110				
Manganese	19.330	0.50	20.00	0	96.6	90	110				

Sample ID CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293481							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.564	0.10	20.00	0	97.8	90	110				
Manganese	20.089	0.50	20.00	0	100	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293494							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.544	0.10	20.00	0	97.7	90	110				
Manganese	18.960	0.50	20.00	0	94.8	90	110				

Sample ID CCV8	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293506							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.604	0.10	20.00	0	98.0	90	110				
Manganese	19.183	0.50	20.00	0	95.9	90	110				

Sample ID CCV9	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293518							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.830	0.10	20.00	0	94.1	90	110				
Manganese	19.544	0.50	20.00	0	97.7	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ICV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/3/2024	SeqNo: 6286829	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium 9.773 1.0 10.00 0 97.7 90 110

Sample ID LLCCV2	SampType: CCV1	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ZZZZZ	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286832	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium 0.978 1.0 1.000 0 97.8 80 120

Sample ID MLCCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286833	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium 19.221 1.0 20.00 0 96.1 90 110

Sample ID CCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286843	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium 19.377 1.0 20.00 0 96.9 90 110

Sample ID CCV2	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286856	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium 18.614 1.0 20.00 0 93.1 90 110

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCV3	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286867							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.501	1.0	20.00	0	92.5	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286879							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.540	1.0	20.00	0	92.7	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286892							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.121	1.0	20.00	0	95.6	90	110				

Sample ID CCV5	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286903							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.914	1.0	20.00	0	94.6	90	110				

Sample ID CCV6	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286914							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.013	1.0	20.00	0	95.1	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCV7	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286923							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.225	1.0	20.00	0	96.1	90	110				
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Sample ID CCV8	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286936							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.138	1.0	20.00	0	95.7	90	110				
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Sample ID CCV9	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286947							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	18.393	1.0	20.00	0	92.0	90	110				
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Sample ID CCV10	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286952							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.142	1.0	20.00	0	95.7	90	110				
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Sample ID CCV11	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286963							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	18.693	1.0	20.00	0	93.5	90	110				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICB	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/3/2024	SeqNo: 6285975						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6285989						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286002						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286013						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286025						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286038						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286049						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286060						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286069						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286082							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286093							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB10	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286098							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB11	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286109						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ICB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6293419						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic
Manganese

ND 0.10
ND 0.50

Sample ID CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6293433						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic
Manganese

ND 0.10
ND 0.50

Sample ID CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6293444						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic
Manganese

ND 0.10
ND 0.50

Sample ID CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6293455						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic
Manganese

ND 0.10
ND 0.50

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6293466						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic

ND 0.10

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6293466						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	ND	0.50									
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Sample ID CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6293477						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/6/2024	SeqNo: 6293482						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/6/2024	SeqNo: 6293495						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/6/2024	SeqNo: 6293507						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/6/2024	SeqNo: 6293519						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ICB	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/3/2024	SeqNo: 6286830						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID CCB1	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286844						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID CCB2	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286857						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID CCB3	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286868						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID CCB4	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286880						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID	CCB4	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID:	CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286893							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium		ND	1.0									

Sample ID	CCB5	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID:	CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286904							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium		ND	1.0									

Sample ID	CCB6	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID:	CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286915							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium		ND	1.0									

Sample ID	CCB7	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID:	CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286924							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium		ND	1.0									

Sample ID	CCB8	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID:	CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286937							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium		ND	1.0									

Qualifiers:

- | | | | | | |
|----|---|---|--------------------------------------|-----|--|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out | | Calculations are based on raw values | (M) | Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCB9	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286948	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB10	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286953	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB11	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286964	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



ASSET LABORATORIES
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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285980							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285981							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.262	0.10	20.00	0	96.3	80	120				
Barium	19.061	1.0	20.00	0	95.3	80	120				
Manganese	19.789	0.50	20.00	0	98.9	80	120				
Molybdenum	19.059	0.50	20.00	0	95.3	80	120				
Selenium	18.977	0.50	20.00	0	94.9	80	120				

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285990							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSAB2	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSAB	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6285991						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.187	0.10	20.00	0	95.9	80	120				
Barium	19.642	1.0	20.00	0	98.2	80	120				
Manganese	19.169	0.50	20.00	0	95.8	80	120				
Molybdenum	19.160	0.50	20.00	0	95.8	80	120				
Selenium	18.989	0.50	20.00	0	94.9	80	120				

Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286026						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSAB3	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSAB	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286027						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	17.976	0.10	20.00	0	89.9	80	120				
Barium	20.373	1.0	20.00	0	102	80	120				
Manganese	19.029	0.50	20.00	0	95.1	80	120				
Molybdenum	19.078	0.50	20.00	0	95.4	80	120				
Selenium	18.431	0.50	20.00	0	92.2	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286071						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286071						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	18.648	0.10	20.00	0	93.2	80	120				
Barium	20.098	1.0	20.00	0	100	80	120				
Manganese	19.103	0.50	20.00	0	95.5	80	120				
Molybdenum	18.924	0.50	20.00	0	94.6	80	120				
Selenium	18.371	0.50	20.00	0	91.9	80	120				

Sample ID ICSA5	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286110						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID	ICSAB5	SampType:	ICSAB	TestCode:	6020_DIS_TP	Units:	µg/L	Prep Date:		RunNo:	195177
Client ID:	ICSAB	Batch ID:	R195177	TestNo:	EPA 6020			Analysis Date:	11/4/2024	SeqNo:	6286111
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.729	0.10	20.00	0	93.6	80	120				
Barium	19.602	1.0	20.00	0	98.0	80	120				
Manganese	19.371	0.50	20.00	0	96.9	80	120				
Molybdenum	19.005	0.50	20.00	0	95.0	80	120				
Selenium	19.510	0.50	20.00	0	97.5	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6293423						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6293424						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.505	0.10	20.00	0	97.5	80	120				
Manganese	19.812	0.50	20.00	0	99.1	80	120				

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6293434						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6293435						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.198	0.10	20.00	0	96.0	80	120				
Manganese	19.720	0.50	20.00	0	98.6	80	120				

Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/6/2024	SeqNo: 6293483						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/6/2024	SeqNo: 6293483						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese

ND 0.50

Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/6/2024	SeqNo: 6293483						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic
Manganese

20.398 0.10 20.00 0 102 80 120
 19.958 0.50 20.00 0 99.8 80 120

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/6/2024	SeqNo: 6293520						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic
Manganese

ND 0.10
ND 0.50

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/6/2024	SeqNo: 6293521						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic
Manganese

18.844 0.10 20.00 0 94.2 80 120
 19.951 0.50 20.00 0 99.8 80 120

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286835						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286835						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.496	1.0	20.00	0	97.5	80	120				
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Sample ID ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286845						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286846						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.363	1.0	20.00	0	96.8	80	120				
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Sample ID ICSA3	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286881						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICSAB3	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ICSAB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286882							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 18.565 1.0 20.00 0 92.8 80 120

Sample ID ICSA4	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286925							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium ND 1.0

Sample ID ICSAB4	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ICSAB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286926							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 18.601 1.0 20.00 0 93.0 80 120

Sample ID ICSA5	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286965							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium ND 1.0

Sample ID ICSAB5	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ICSAB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286966							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 18.868 1.0 20.00 0 94.3 80 120

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

INTERNAL STANDARD SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	1440059.4	1440059.4	100	PASS	30-150	26765.9	26765.9	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	1436247	1440059.4	99.74	PASS	30-150	27294.5	26765.9	101.97	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	1454342.2	1440059.4	100.99	PASS	30-150	26996.3	26765.9	100.86	PASS	30-150
Std3-5/50 ppb	ICAL	1	1448589.3	1440059.4	100.59	PASS	30-150	27130.9	26765.9	101.36	PASS	30-150
Std4-10/100 ppb	ICAL	1	1449230.7	1440059.4	100.64	PASS	30-150	26916.1	26765.9	100.56	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	1450435.7	1440059.4	100.72	PASS	30-150	27340.1	26765.9	102.15	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	1439544.6	1440059.4	99.96	PASS	30-150	26553.3	26765.9	99.21	PASS	30-150
Std7-100/1000 ppb	ICAL	1	1380000.8	1440059.4	95.83	PASS	30-150	25875.6	26765.9	96.67	PASS	30-150
Std8-200/2000 ppb	ICAL	1	1358444.7	1440059.4	94.33	PASS	30-150	25225.7	26765.9	94.25	PASS	30-150
ICV	ICV	1	1437762.4	1440059.4	99.84	PASS	30-150	25439.4	26765.9	95.04	PASS	30-150
ICB	ICB	1	1375689.3	1440059.4	95.53	PASS	30-150	24627.1	26765.9	92.01	PASS	30-150
LLCCV1	CCV1	1	1444764.6	1440059.4	100.33	PASS	30-150	26190.5	26765.9	97.85	PASS	30-150
LLCCV2	CCV1	1	1463621.9	1440059.4	101.64	PASS	30-150	26673.5	26765.9	99.65	PASS	30-150
MLCCV1	CCV	1	1466702.2	1440059.4	101.85	PASS	30-150	26586.7	26765.9	99.33	PASS	30-150
ICSA1	ICSA	1	1483046.5	1440059.4	102.99	PASS	30-150	26764.8	26765.9	100	PASS	30-150
ICSA1	ICSA	1	1491421.8	1440059.4	103.57	PASS	30-150	26869.4	26765.9	100.39	PASS	30-150
ICSAB1	ICSAB	1	1510898.8	1440059.4	104.92	PASS	30-150	26735.9	26765.9	99.89	PASS	30-150
CCV1	CCV	1	1479633.1	1440059.4	102.75	PASS	30-150	26644.6	26765.9	99.55	PASS	30-150
CCB1	CCB	1	1475685.9	1440059.4	102.47	PASS	30-150	26461	26765.9	98.86	PASS	30-150
ICSA2	ICSA	1	1480512.2	1440059.4	102.81	PASS	30-150	26772.6	26765.9	100.03	PASS	30-150
ICSAB2	ICSAB	1	1482415.5	1440059.4	102.94	PASS	30-150	27142	26765.9	101.41	PASS	30-150
CCV2	CCV	1	1315106.9	1440059.4	91.32	PASS	30-150	31141.2	26765.9	116.35	PASS	30-150
CCB2	CCB	1	1329625.5	1440059.4	92.33	PASS	30-150	30647	26765.9	114.5	PASS	30-150
CCV3	CCV	1	1331956.8	1440059.4	92.49	PASS	30-150	30123.8	26765.9	112.55	PASS	30-150
CCB3	CCB	1	1334018.4	1440059.4	92.64	PASS	30-150	29699.7	26765.9	110.96	PASS	30-150
CCV4	CCV	1	1323690.7	1440059.4	91.92	PASS	30-150	31815.8	26765.9	118.87	PASS	30-150
CCB4	CCB	1	1312522.3	1440059.4	91.14	PASS	30-150	30662.5	26765.9	114.56	PASS	30-150
ICSA3	ICSA	1	1340139.2	1440059.4	93.06	PASS	30-150	30348.7	26765.9	113.39	PASS	30-150
ICSAB3	ICSAB	1	1312846.6	1440059.4	91.17	PASS	30-150	29474.9	26765.9	110.12	PASS	30-150
CCV4	CCV	1	1387449.1	1440059.4	96.35	PASS	30-150	28705.8	26765.9	107.25	PASS	30-150
CCB4	CCB	1	1376998.3	1440059.4	95.62	PASS	30-150	27766.4	26765.9	103.74	PASS	30-150
CCV5	CCV	1	1425154.3	1440059.4	98.96	PASS	30-150	27696.3	26765.9	103.48	PASS	30-150
CCB5	CCB	1	1411967.1	1440059.4	98.05	PASS	30-150	26584.5	26765.9	99.32	PASS	30-150
CCV6	CCV	1	1372563.4	1440059.4	95.31	PASS	30-150	26998.5	26765.9	100.87	PASS	30-150
CCB6	CCB	1	1372760.9	1440059.4	95.33	PASS	30-150	26378.6	26765.9	98.55	PASS	30-150
CCV7	CCV	1	1326761.8	1440059.4	92.13	PASS	30-150	28511	26765.9	106.52	PASS	30-150
CCB7	CCB	1	1328752.8	1440059.4	92.27	PASS	30-150	27431.4	26765.9	102.49	PASS	30-150
ICSA4	ICSA	1	1365100.7	1440059.4	94.79	PASS	30-150	27096.4	26765.9	101.23	PASS	30-150
ICSAB4	ICSAB	1	1355570.5	1440059.4	94.13	PASS	30-150	26741.4	26765.9	99.91	PASS	30-150
MB-113831	MBLK	1	1361271	1440059.4	94.53	PASS	30-150	25677.5	26765.9	95.93	PASS	30-150
LCS-113831	LCS	1	1337503.7	1440059.4	92.88	PASS	30-150	24415.7	26765.9	91.22	PASS	30-150

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
N069629-001B	SAMP	1	1284063.3	1440059.4	89.17	PASS	30-150	22715.4	26765.9	84.87	PASS	30-150
N069629-001B	SAMP	5	1362456.5	1440059.4	94.61	PASS	30-150	24526.9	26765.9	91.63	PASS	30-150
N069629-001B-PS	PS	1	1311701.4	1440059.4	91.09	PASS	30-150	22764.4	26765.9	85.05	PASS	30-150
N069629-001B-MS	MS	1	1263412	1440059.4	87.73	PASS	30-150	22579.7	26765.9	84.36	PASS	30-150
N069629-001B-MSD	MSD	1	1292198.6	1440059.4	89.73	PASS	30-150	22506.3	26765.9	84.09	PASS	30-150
N069629-002B	SAMP	1	1371504.4	1440059.4	95.24	PASS	30-150	23743.5	26765.9	88.71	PASS	30-150
N069631-008B	SAMP	1	912999.8	1440059.4	63.4	PASS	30-150	20088.8	26765.9	75.05	PASS	30-150
CCV8	CCV	1	1418578.8	1440059.4	98.51	PASS	30-150	27671.8	26765.9	103.38	PASS	30-150
CCB8	CCB	1	1388959.2	1440059.4	96.45	PASS	30-150	26714.7	26765.9	99.81	PASS	30-150
N069631-009B	SAMP	1	1011625.8	1440059.4	70.25	PASS	30-150	22063.5	26765.9	82.43	PASS	30-150
N069631-010B	SAMP	1	1007888.4	1440059.4	69.99	PASS	30-150	23052.6	26765.9	86.13	PASS	30-150
N069631-011B	SAMP	1	789603.2	1440059.4	54.83	PASS	30-150	19947.5	26765.9	74.53	PASS	30-150
N069631-012B	SAMP	1	868106	1440059.4	60.28	PASS	30-150	22223.7	26765.9	83.03	PASS	30-150
N069631-013B	SAMP	1	905086.2	1440059.4	62.85	PASS	30-150	22634.2	26765.9	84.56	PASS	30-150
N069631-014B	SAMP	1	852434.5	1440059.4	59.19	PASS	30-150	22106.9	26765.9	82.59	PASS	30-150
N069638-001B	SAMP	1	868917.9	1440059.4	60.34	PASS	30-150	22483	26765.9	84	PASS	30-150
N069638-002B	SAMP	1	964660.5	1440059.4	66.99	PASS	30-150	24140.8	26765.9	90.19	PASS	30-150
N069638-003B	SAMP	1	878200.9	1440059.4	60.98	PASS	30-150	22541.9	26765.9	84.22	PASS	30-150
CCV9	CCV	1	1288909.6	1440059.4	89.5	PASS	30-150	30216.2	26765.9	112.89	PASS	30-150
CCB9	CCB	1	1287672.5	1440059.4	89.42	PASS	30-150	28827.1	26765.9	107.7	PASS	30-150
N069638-007B	SAMP	1	1149378	1440059.4	79.81	PASS	30-150	24699.4	26765.9	92.28	PASS	30-150
N069638-008B	SAMP	1	1202909.3	1440059.4	83.53	PASS	30-150	25065.5	26765.9	93.65	PASS	30-150
N069638-009B	SAMP	1	1015124.7	1440059.4	70.49	PASS	30-150	22558.6	26765.9	84.28	PASS	30-150
CCV10	CCV	1	1322579.1	1440059.4	91.84	PASS	30-150	28712.4	26765.9	107.27	PASS	30-150
CCB10	CCB	1	1298221.9	1440059.4	90.15	PASS	30-150	27744.2	26765.9	103.66	PASS	30-150
CCV11	CCV	1	1312665.4	1440059.4	91.15	PASS	30-150	27636.2	26765.9	103.25	PASS	30-150
CCB11	CCB	1	1292828.9	1440059.4	89.78	PASS	30-150	26505.5	26765.9	99.03	PASS	30-150
ICSA5	ICSA	1	1331792.4	1440059.4	92.48	PASS	30-150	26799.3	26765.9	100.12	PASS	30-150
ICSA5	ICSA	1	1331792.4	1440059.4	92.48	PASS	30-150	26799.3	26765.9	100.12	PASS	30-150
ICSA5B5	ICSA	1	1310680.6	1440059.4	91.02	PASS	30-150	25436	26765.9	95.03	PASS	30-150

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]					72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	16330.4	16330.4	100	PASS	30-150	53422.4	53422.4	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	16444.9	16330.4	100.7	PASS	30-150	53779.1	53422.4	100.67	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	16499.4	16330.4	101.04	PASS	30-150	53060.1	53422.4	99.32	PASS	30-150
Std3-5/50 ppb	ICAL	1	16386	16330.4	100.34	PASS	30-150	52838.3	53422.4	98.91	PASS	30-150
Std4-10/100 ppb	ICAL	1	16102.4	16330.4	98.6	PASS	30-150	53216.2	53422.4	99.61	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	16486.1	16330.4	100.95	PASS	30-150	53129.2	53422.4	99.45	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	15896.7	16330.4	97.34	PASS	30-150	52707.8	53422.4	98.66	PASS	30-150
Std7-100/1000 ppb	ICAL	1	15498.5	16330.4	94.91	PASS	30-150	51282.2	53422.4	95.99	PASS	30-150
Std8-200/2000 ppb	ICAL	1	15186	16330.4	92.99	PASS	30-150	49004.1	53422.4	91.73	PASS	30-150
ICV	ICV	1	15547.4	16330.4	95.21	PASS	30-150	50796.3	53422.4	95.08	PASS	30-150
ICB	ICB	1	14906.8	16330.4	91.28	PASS	30-150	48944	53422.4	91.62	PASS	30-150
LLCCV1	CCV1	1	15984.5	16330.4	97.88	PASS	30-150	51435	53422.4	96.28	PASS	30-150
LLCCV2	CCV1	1	16202.5	16330.4	99.22	PASS	30-150	52552.9	53422.4	98.37	PASS	30-150
MLCCV1	CCV	1	16255.9	16330.4	99.54	PASS	30-150	52522.8	53422.4	98.32	PASS	30-150
ICSA1	ICSA	1	16071.3	16330.4	98.41	PASS	30-150	52491.6	53422.4	98.26	PASS	30-150
ICSA1	ICSA	1	16109.1	16330.4	98.64	PASS	30-150	53210.5	53422.4	99.6	PASS	30-150
ICSAB1	ICSAB	1	15932.2	16330.4	97.56	PASS	30-150	53530.5	53422.4	100.2	PASS	30-150
CCV1	CCV	1	16217	16330.4	99.31	PASS	30-150	52364.5	53422.4	98.02	PASS	30-150
CCB1	CCB	1	16017.9	16330.4	98.09	PASS	30-150	52765.8	53422.4	98.77	PASS	30-150
ICSA2	ICSA	1	16200.3	16330.4	99.2	PASS	30-150	52830.5	53422.4	98.89	PASS	30-150
ICSAB2	ICSAB	1	16095.7	16330.4	98.56	PASS	30-150	53220.6	53422.4	99.62	PASS	30-150
CCV2	CCV	1	18084.5	16330.4	110.74	PASS	30-150	60611.7	53422.4	113.46	PASS	30-150
CCB2	CCB	1	17948.8	16330.4	109.91	PASS	30-150	60761.2	53422.4	113.74	PASS	30-150
CCV3	CCV	1	17583.9	16330.4	107.68	PASS	30-150	59040.3	53422.4	110.52	PASS	30-150
CCB3	CCB	1	17972.1	16330.4	110.05	PASS	30-150	59056	53422.4	110.55	PASS	30-150
CCV4	CCV	1	18471.6	16330.4	113.11	PASS	30-150	61755.9	53422.4	115.6	PASS	30-150
CCB4	CCB	1	17793	16330.4	108.96	PASS	30-150	59179.9	53422.4	110.78	PASS	30-150
ICSA3	ICSA	1	17878.7	16330.4	109.48	PASS	30-150	59115.2	53422.4	110.66	PASS	30-150
ICSAB3	ICSAB	1	17414.9	16330.4	106.64	PASS	30-150	56782.6	53422.4	106.29	PASS	30-150
CCV4	CCV	1	17409.3	16330.4	106.61	PASS	30-150	56816	53422.4	106.35	PASS	30-150
CCB4	CCB	1	16869.8	16330.4	103.3	PASS	30-150	55388.9	53422.4	103.68	PASS	30-150
CCV5	CCV	1	16845.4	16330.4	103.15	PASS	30-150	55038.8	53422.4	103.03	PASS	30-150
CCB5	CCB	1	16214.7	16330.4	99.29	PASS	30-150	53668.7	53422.4	100.46	PASS	30-150
CCV6	CCV	1	15974.5	16330.4	97.82	PASS	30-150	51998.9	53422.4	97.34	PASS	30-150
CCB6	CCB	1	16074.6	16330.4	98.43	PASS	30-150	51937.7	53422.4	97.22	PASS	30-150
CCV7	CCV	1	16984.4	16330.4	104	PASS	30-150	56526	53422.4	105.81	PASS	30-150
CCB7	CCB	1	16408.3	16330.4	100.48	PASS	30-150	54577.3	53422.4	102.16	PASS	30-150
ICSA4	ICSA	1	16159.1	16330.4	98.95	PASS	30-150	54489.3	53422.4	102	PASS	30-150
ICSAB4	ICSAB	1	15827.7	16330.4	96.92	PASS	30-150	52404.8	53422.4	98.1	PASS	30-150
MB-113831	MBLK	1	15745.4	16330.4	96.42	PASS	30-150	51592.1	53422.4	96.57	PASS	30-150
LCS-113831	LCS	1	15034.7	16330.4	92.07	PASS	30-150	48907.3	53422.4	91.55	PASS	30-150

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]					72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
N069629-001B	SAMP	1	14031.6	16330.4	85.92	PASS	30-150	43765	53422.4	81.92	PASS	30-150
N069629-001B	SAMP	5	15062.5	16330.4	92.24	PASS	30-150	48285.4	53422.4	90.38	PASS	30-150
N069629-001B-PS	PS	1	13827	16330.4	84.67	PASS	30-150	43694.8	53422.4	81.79	PASS	30-150
N069629-001B-MS	MS	1	13867	16330.4	84.92	PASS	30-150	42834.7	53422.4	80.18	PASS	30-150
N069629-001B-MSD	MSD	1	13585.7	16330.4	83.19	PASS	30-150	43254.7	53422.4	80.97	PASS	30-150
N069629-002B	SAMP	1	14504.2	16330.4	88.82	PASS	30-150	45051.8	53422.4	84.33	PASS	30-150
N069631-008B	SAMP	1	11765.4	16330.4	72.05	PASS	30-150	34723.4	53422.4	65	PASS	30-150
CCV8	CCV	1	16861	16330.4	103.25	PASS	30-150	55617.4	53422.4	104.11	PASS	30-150
CCB8	CCB	1	15987.9	16330.4	97.9	PASS	30-150	54427.9	53422.4	101.88	PASS	30-150
N069631-009B	SAMP	1	12536	16330.4	76.76	PASS	30-150	37904.9	53422.4	70.95	PASS	30-150
N069631-010B	SAMP	1	13317.7	16330.4	81.55	PASS	30-150	40026.6	53422.4	74.92	PASS	30-150
N069631-011B	SAMP	1	11378.5	16330.4	69.68	PASS	30-150	33905	53422.4	63.47	PASS	30-150
N069631-012B	SAMP	1	12669.4	16330.4	77.58	PASS	30-150	37801.3	53422.4	70.76	PASS	30-150
N069631-013B	SAMP	1	12756.1	16330.4	78.11	PASS	30-150	39558.7	53422.4	74.05	PASS	30-150
N069631-014B	SAMP	1	12398.1	16330.4	75.92	PASS	30-150	38206.7	53422.4	71.52	PASS	30-150
N069638-001B	SAMP	1	12680.5	16330.4	77.65	PASS	30-150	38717.9	53422.4	72.48	PASS	30-150
N069638-002B	SAMP	1	13551.2	16330.4	82.98	PASS	30-150	42542.9	53422.4	79.63	PASS	30-150
N069638-003B	SAMP	1	12900.7	16330.4	79	PASS	30-150	39558.8	53422.4	74.05	PASS	30-150
CCV9	CCV	1	17377	16330.4	106.41	PASS	30-150	58252	53422.4	109.04	PASS	30-150
CCB9	CCB	1	17262.5	16330.4	105.71	PASS	30-150	57011.1	53422.4	106.72	PASS	30-150
N069638-007B	SAMP	1	14401.9	16330.4	88.19	PASS	30-150	46765.5	53422.4	87.54	PASS	30-150
N069638-008B	SAMP	1	14758.9	16330.4	90.38	PASS	30-150	46727.6	53422.4	87.47	PASS	30-150
N069638-009B	SAMP	1	12857.3	16330.4	78.73	PASS	30-150	40520	53422.4	75.85	PASS	30-150
CCV10	CCV	1	17232.4	16330.4	105.52	PASS	30-150	55398.9	53422.4	103.7	PASS	30-150
CCB10	CCB	1	16481.7	16330.4	100.93	PASS	30-150	54949.7	53422.4	102.86	PASS	30-150
CCV11	CCV	1	16592.9	16330.4	101.61	PASS	30-150	53813.6	53422.4	100.73	PASS	30-150
CCB11	CCB	1	15954.5	16330.4	97.7	PASS	30-150	52687.8	53422.4	98.62	PASS	30-150
ICSA5	ICSA	1	15833.3	16330.4	96.96	PASS	30-150	51925.4	53422.4	97.2	PASS	30-150
ICSAB5	ICSAB	1	15496.3	16330.4	94.89	PASS	30-150	50010.6	53422.4	93.61	PASS	30-150

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	103 Rh (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	450632.3	450632.3	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	452501.5	450632.3	100.41	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	449318.8	450632.3	99.71	PASS	30-150
Std3-5/50 ppb	ICAL	1	447984.4	450632.3	99.41	PASS	30-150
Std4-10/100 ppb	ICAL	1	448018.9	450632.3	99.42	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	446463.1	450632.3	99.08	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	440120.1	450632.3	97.67	PASS	30-150
Std7-100/1000 ppb	ICAL	1	429038	450632.3	95.21	PASS	30-150
Std8-200/2000 ppb	ICAL	1	412572.8	450632.3	91.55	PASS	30-150
ICV	ICV	1	423700.5	450632.3	94.02	PASS	30-150
ICB	ICB	1	411182.1	450632.3	91.25	PASS	30-150
LLCCV1	CCV1	1	435202.2	450632.3	96.58	PASS	30-150
LLCCV2	CCV1	1	441489.1	450632.3	97.97	PASS	30-150
MLCCV1	CCV	1	443747.1	450632.3	98.47	PASS	30-150
ICSA1	ICSA	1	445440.3	450632.3	98.85	PASS	30-150
ICSA1	ICSA	1	446537.9	450632.3	99.09	PASS	30-150
ICSAB1	ICSAB	1	447539.9	450632.3	99.31	PASS	30-150
CCV1	CCV	1	446953.9	450632.3	99.18	PASS	30-150
CCB1	CCB	1	444911	450632.3	98.73	PASS	30-150
ICSA2	ICSA	1	449323.7	450632.3	99.71	PASS	30-150
ICSAB2	ICSAB	1	449648.5	450632.3	99.78	PASS	30-150
CCV2	CCV	1	452869.9	450632.3	100.5	PASS	30-150
CCB2	CCB	1	450515.7	450632.3	99.97	PASS	30-150
CCV3	CCV	1	446255.1	450632.3	99.03	PASS	30-150
CCB3	CCB	1	447045.8	450632.3	99.2	PASS	30-150
CCV4	CCV	1	462110.1	450632.3	102.55	PASS	30-150
CCB4	CCB	1	444186.5	450632.3	98.57	PASS	30-150
ICSA3	ICSA	1	450372.5	450632.3	99.94	PASS	30-150
ICSAB3	ICSAB	1	438462.7	450632.3	97.3	PASS	30-150
CCV4	CCV	1	447247.7	450632.3	99.25	PASS	30-150
CCB4	CCB	1	437474.9	450632.3	97.08	PASS	30-150
CCV5	CCV	1	438953.6	450632.3	97.41	PASS	30-150
CCB5	CCB	1	430694.3	450632.3	95.58	PASS	30-150
CCV6	CCV	1	427760.6	450632.3	94.92	PASS	30-150
CCB6	CCB	1	425625.6	450632.3	94.45	PASS	30-150
CCV7	CCV	1	436295.1	450632.3	96.82	PASS	30-150
CCB7	CCB	1	424650.8	450632.3	94.23	PASS	30-150
ICSA4	ICSA	1	430377.4	450632.3	95.51	PASS	30-150
ICSAB4	ICSAB	1	423824.4	450632.3	94.05	PASS	30-150
MB-113831	MBLK	1	418998.8	450632.3	92.98	PASS	30-150
LCS-113831	LCS	1	406295.9	450632.3	90.16	PASS	30-150

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	103 Rh (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
N069629-001B	SAMP	1	362770.1	450632.3	80.5	PASS	30-150
N069629-001B	SAMP	5	392951.3	450632.3	87.2	PASS	30-150
N069629-001B-PS	PS	1	363649.8	450632.3	80.7	PASS	30-150
N069629-001B-MS	MS	1	353121.7	450632.3	78.36	PASS	30-150
N069629-001B-MSD	MSD	1	352890.7	450632.3	78.31	PASS	30-150
N069629-002B	SAMP	1	380447.3	450632.3	84.43	PASS	30-150
N069631-008B	SAMP	1	274444.1	450632.3	60.9	PASS	30-150
CCV8	CCV	1	441025.1	450632.3	97.87	PASS	30-150
CCB8	CCB	1	434390.7	450632.3	96.4	PASS	30-150
N069631-009B	SAMP	1	300029.7	450632.3	66.58	PASS	30-150
N069631-010B	SAMP	1	303236	450632.3	67.29	PASS	30-150
N069631-011B	SAMP	1	257594.5	450632.3	57.16	PASS	30-150
N069631-012B	SAMP	1	283090.7	450632.3	62.82	PASS	30-150
N069631-013B	SAMP	1	291572.1	450632.3	64.7	PASS	30-150
N069631-014B	SAMP	1	281635.9	450632.3	62.5	PASS	30-150
N069638-001B	SAMP	1	284679.7	450632.3	63.17	PASS	30-150
N069638-002B	SAMP	1	311880.1	450632.3	69.21	PASS	30-150
N069638-003B	SAMP	1	289324.5	450632.3	64.2	PASS	30-150
CCV9	CCV	1	439585.8	450632.3	97.55	PASS	30-150
CCB9	CCB	1	427158.1	450632.3	94.79	PASS	30-150
N069638-007B	SAMP	1	349490.6	450632.3	77.56	PASS	30-150
N069638-008B	SAMP	1	360010.7	450632.3	79.89	PASS	30-150
N069638-009B	SAMP	1	306459	450632.3	68.01	PASS	30-150
CCV10	CCV	1	433271.6	450632.3	96.15	PASS	30-150
CCB10	CCB	1	422162.6	450632.3	93.68	PASS	30-150
CCV11	CCV	1	419657.4	450632.3	93.13	PASS	30-150
CCB11	CCB	1	412545.8	450632.3	91.55	PASS	30-150
ICSA5	ICSA	1	421242.4	450632.3	93.48	PASS	30-150
ICSAB5	ICSAB	1	409383.2	450632.3	90.85	PASS	30-150

INTERNAL STANDARD: 241105B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	45 Sc (ISTD) [2]					72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	25659.7	25659.7	100	PASS	30-150	15888.9	15888.9	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	25432.7	25659.7	99.12	PASS	30-150	15710.9	15888.9	98.88	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	25364.8	25659.7	98.85	PASS	30-150	15716.5	15888.9	98.91	PASS	30-150
Std3-5/50 ppb	ICAL	1	25241.3	25659.7	98.37	PASS	30-150	15534.1	15888.9	97.77	PASS	30-150
Std4-10/100 ppb	ICAL	1	25394.8	25659.7	98.97	PASS	30-150	15756.5	15888.9	99.17	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	25467.2	25659.7	99.25	PASS	30-150	15703.1	15888.9	98.83	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	25517.3	25659.7	99.45	PASS	30-150	15547.4	15888.9	97.85	PASS	30-150
Std7-100/1000 ppb	ICAL	1	24560.3	25659.7	95.72	PASS	30-150	15260.5	15888.9	96.05	PASS	30-150
Std8-200/2000 ppb	ICAL	1	23953.9	25659.7	93.35	PASS	30-150	15210.4	15888.9	95.73	PASS	30-150
ICV	ICV	1	25798.8	25659.7	100.54	PASS	30-150	16022.3	15888.9	100.84	PASS	30-150
ICB	ICB	1	24753.9	25659.7	96.47	PASS	30-150	15748.7	15888.9	99.12	PASS	30-150
LLCCV1	CCV1	1	25105.5	25659.7	97.84	PASS	30-150	15783.2	15888.9	99.33	PASS	30-150
LLCCV2	CCV1	1	26335.2	25659.7	102.63	PASS	30-150	16176.9	15888.9	101.81	PASS	30-150
MLCCV1	CCV	1	24869.6	25659.7	96.92	PASS	30-150	15278.3	15888.9	96.16	PASS	30-150
ICSA1	ICSA	1	25576.3	25659.7	99.67	PASS	30-150	16009	15888.9	100.76	PASS	30-150
ICSAB1	ICSAB	1	25841.1	25659.7	100.71	PASS	30-150	15943.4	15888.9	100.34	PASS	30-150
CCV1	CCV	1	25183.4	25659.7	98.14	PASS	30-150	15724.3	15888.9	98.96	PASS	30-150
CCB1	CCB	1	25228	25659.7	98.32	PASS	30-150	15388.4	15888.9	96.85	PASS	30-150
ICSA2	ICSA	1	25890.1	25659.7	100.9	PASS	30-150	16109.1	15888.9	101.39	PASS	30-150
ICSAB2	ICSAB	1	25205.7	25659.7	98.23	PASS	30-150	15911.1	15888.9	100.14	PASS	30-150
CCV2	CCV	1	25217.9	25659.7	98.28	PASS	30-150	15558.5	15888.9	97.92	PASS	30-150
CCB2	CCB	1	24906.3	25659.7	97.06	PASS	30-150	15545.2	15888.9	97.84	PASS	30-150
CCV3	CCV	1	24771.7	25659.7	96.54	PASS	30-150	15672	15888.9	98.63	PASS	30-150
CCB3	CCB	1	24844.1	25659.7	96.82	PASS	30-150	15445.1	15888.9	97.21	PASS	30-150
CCV4	CCV	1	25342.5	25659.7	98.76	PASS	30-150	15849.9	15888.9	99.75	PASS	30-150
CCB4	CCB	1	25180.1	25659.7	98.13	PASS	30-150	15727.6	15888.9	98.98	PASS	30-150
CCV5	CCV	1	24669.3	25659.7	96.14	PASS	30-150	15420.6	15888.9	97.05	PASS	30-150
CCB5	CCB	1	24410.1	25659.7	95.13	PASS	30-150	15709.8	15888.9	98.87	PASS	30-150
CCV6	CCV	1	23744.7	25659.7	92.54	PASS	30-150	15479.6	15888.9	97.42	PASS	30-150
CCB6	CCB	1	23880.4	25659.7	93.07	PASS	30-150	15430.7	15888.9	97.12	PASS	30-150
ICSA3	ICSA	1	25226.8	25659.7	98.31	PASS	30-150	15716.5	15888.9	98.91	PASS	30-150
ICSAB3	ICSAB	1	24522.4	25659.7	95.57	PASS	30-150	15657.5	15888.9	98.54	PASS	30-150
CCV7	CCV	1	27257.8	25659.7	106.23	PASS	30-150	16386	15888.9	103.13	PASS	30-150
CCB7	CCB	1	26360.8	25659.7	102.73	PASS	30-150	15853.3	15888.9	99.78	PASS	30-150
N069629-001B	SAMP	1	23692.4	25659.7	92.33	PASS	30-150	14414.2	15888.9	90.72	PASS	30-150
N069631-008B	SAMP	10	24094	25659.7	93.9	PASS	30-150	14626.6	15888.9	92.06	PASS	30-150
N069631-009B	SAMP	1	21538.4	25659.7	83.94	PASS	30-150	12190.1	15888.9	76.72	PASS	30-150
N069631-010B	SAMP	1	22481.8	25659.7	87.62	PASS	30-150	13021.9	15888.9	81.96	PASS	30-150
N069631-010B	SAMP	10	26032.5	25659.7	101.45	PASS	30-150	15460.7	15888.9	97.31	PASS	30-150
N069631-011B	SAMP	10	24782.9	25659.7	96.58	PASS	30-150	14557.6	15888.9	91.62	PASS	30-150
N069631-012B	SAMP	10	24920.8	25659.7	97.12	PASS	30-150	14846.8	15888.9	93.44	PASS	30-150

INTERNAL STANDARD: 241105B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	45 Sc (ISTD) [2]					72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
N069631-013B	SAMP	10	25256.9	25659.7	98.43	PASS	30-150	15356.1	15888.9	96.65	PASS	30-150
N069631-014B	SAMP	10	24252.1	25659.7	94.51	PASS	30-150	14885.7	15888.9	93.69	PASS	30-150
N069638-001B	SAMP	10	24464.6	25659.7	95.34	PASS	30-150	14854.5	15888.9	93.49	PASS	30-150
CCV8	CCV	1	25420.5	25659.7	99.07	PASS	30-150	15698.7	15888.9	98.8	PASS	30-150
CCB8	CCB	1	24802.9	25659.7	96.66	PASS	30-150	15605.3	15888.9	98.22	PASS	30-150
N069638-007B	SAMP	1	21912.2	25659.7	85.4	PASS	30-150	13814.8	15888.9	86.95	PASS	30-150
N069629-001B	SAMP	1	22187	25659.7	86.47	PASS	30-150	13837	15888.9	87.09	PASS	30-150
N069631-009B	SAMP	1	21177.9	25659.7	82.53	PASS	30-150	12212.4	15888.9	76.86	PASS	30-150
N069631-010B	SAMP	1	22201.4	25659.7	86.52	PASS	30-150	12591.5	15888.9	79.25	PASS	30-150
N069629-001B	SAMP	1	23847.1	25659.7	92.94	PASS	30-150	14584.3	15888.9	91.79	PASS	30-150
N069631-009B	SAMP	1	21566.2	25659.7	84.05	PASS	30-150	12703.9	15888.9	79.95	PASS	30-150
N069631-010B	SAMP	1	22535.2	25659.7	87.82	PASS	30-150	12798.4	15888.9	80.55	PASS	30-150
N069638-007B	SAMP	1	23298.5	25659.7	90.8	PASS	30-150	14367.5	15888.9	90.42	PASS	30-150
N069638-008B	SAMP	10	24686	25659.7	96.21	PASS	30-150	15335	15888.9	96.51	PASS	30-150
N069638-009B	SAMP	100	24887.4	25659.7	96.99	PASS	30-150	15580.8	15888.9	98.06	PASS	30-150
CCV9	CCV	1	24964.2	25659.7	97.29	PASS	30-150	15618.6	15888.9	98.3	PASS	30-150
CCB9	CCB	1	24514.7	25659.7	95.54	PASS	30-150	15601.9	15888.9	98.19	PASS	30-150
ICSA4	ICSA	1	25079.9	25659.7	97.74	PASS	30-150	15911.1	15888.9	100.14	PASS	30-150
ICSAB4	ICSAB	1	24414.5	25659.7	95.15	PASS	30-150	15811	15888.9	99.51	PASS	30-150

SERIAL DILUTION/ POST DIGESTION SPIKE



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ICP-MS-Metals in Water

Work Order No.: N069631
 Test Method: EPA 6020
 Analysis Date: 11/4/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 113831

Instrument ID: NV00922-ICP8 (ICPMS-03)
 Instrument Description: Agilent 7800


Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to As, Se, Cr. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069629-001B DT 5x	Arsenic	As	µg/L	0	NA	0.1432094	100.00%	10
N069629-001B DT 5x	Barium	Ba	µg/L	85.86791	PASS	85.47964	0.45%	10
N069629-001B DT 5x	Manganese	Mn	µg/L	17.6874	PASS	18.04301	1.97%	10
N069629-001B DT 5x	Molybdenum	Mo	µg/L	76.22411	PASS	79.47769	4.09%	10
N069629-001B DT 5x	Selenium	Se	µg/L	5.09346	NA	4.925108	3.42%	10
N069629-001B DT 5x	Chromium	Cr	µg/L	2.681676	NA	2.80325	4.34%	10

Reviewed by:

 12/16/2024

Note: NA - Not Applicable

12/04/24 00:55

N069631_6020_113831_DT

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID	N069629-001B-PS	SampType:	PS	TestCode:	6020_DIS_TP	Units:	µg/L	Prep Date:		RunNo:	195177		
Client ID:	ZZZZZZ	Batch ID:	113831	TestNo:	EPA 6020 EPA 3010A			Analysis Date:	11/4/2024	SeqNo:	6286076		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic		10.080		0.10	10.00	0.1432	99.4	80	120				
Barium		99.732		1.0	10.00	85.48	143	80	120				S
Manganese		111.545		0.50	100.0	18.04	93.5	80	120				
Molybdenum		93.851		0.50	10.00	79.48	144	80	120				S
Selenium		14.512		0.50	10.00	4.925	95.9	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069631
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID N069629-001B-PS	SampType: PS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ZZZZZZ	Batch ID: 113831	TestNo: EPA 6020	EPA 3010A	Analysis Date: 11/4/2024	SeqNo: 6286931						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	12.429	1.0	10.00	2.803	96.3	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CORRECTIVE ACTION DOCUMENTATION



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ASSET Laboratories
Corrective Action Report (CAR)

Date Initiated: 06-Nov-24
Initiated By: Diane Jetajobe

Corrective Action Report ID: 8175
Department: ME-3(ICPMS)-

Corrective Action Description

CAR Summary: N069629-001B was re-analyzed several times with failed RSD for Arsenic.

Description of Nonconformance: N069629-001B was re-analyzed several times due to RSD not meeting the 15% criteria for Arsenic. RSD on all runs failed acceptance criteria.

Description of Corrective Action: Arsenic was reported at 0.143 ug/L with the lowest RSD of 28.26%. The results are comparable on all runs.

Performed By: Diane Jetajobe
Completion Date: 06-Nov-24

Client Notification

Client Notification Required: Yes
Notified By:

Comment: thru case narrative

Quality Assurance Review

Corrective Action: Effective

Further Action required by QA:

Approval and Closure

CAR Closed By: _____

Close Date:

QA Reviewed By: _____



Katrina Diaz

QA Date: 07-Nov-24

ASSET Laboratories
Corrective Action Report (CAR)

Date Initiated: 15-Nov-24

Corrective Action Report ID: 8196

Initiated By: Diane Jetajobe

Department: ME-3(ICPMS)

Corrective Action Description

CAR Summary: N069631-012B was re-analyzed several times with failed RSD for Arsenic.

Description of Nonconformance: N069631-012B was re-analyzed several times due to RSD not meeting the 15% criteria for Arsenic. RSD on all runs failed acceptance criteria.

Description of Corrective Action: Arsenic was reported at 0.367ug/L with the lowest RSD of 15.99 %. The results are comparable on all runs.

Performed By: Diane Jetajobe

Completion Date: 15-Nov-24

Client Notification

Client Notification Required: Yes

Notified By:

Comment: thru case narrative

Quality Assurance Review

Corrective Action: Effective

Further Action required by QA:

Approval and Closure

CAR Closed By: _____

Close Date:

QA Reviewed By: _____

QA Date: 18-Nov-24


Katrina Diaz

MDL STUDY



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Method Detection Limit

Analytical Method: **EPA 6020B**
 Digestion Method: **3010**
 Date of Analysis: **2/15-2/19/2024**
 Digestion Date: **2/15-2/19/2024**
 Instrument Name: **NV0922-ICP8**
 Analysts: **DJ**

Matrix: **Water**
 Unit: **ug/L**

Analyte	1	2	3	4	5	6	7	AMT SPIKED, ppb	SD	MDLs	PQL	MDL
ANTIMONY	0.543	0.521	0.559	0.527	0.573	0.559	0.572	0.50	0.0208	0.0653	0.50	0.0653
ARSENIC	0.102	0.123	0.107	0.116	0.096	0.161	0.115	0.10	0.0212	0.0668	0.10	0.0668
BARIUM	1.103	1.065	1.083	1.081	1.094	1.066	1.060	1.00	0.0159	0.0499	1.00	0.0499
BERYLLIUM	0.533	0.524	0.557	0.541	0.564	0.565	0.502	0.50	0.0233	0.0733	0.50	0.0733
CADMIUM	0.523	0.562	0.529	0.559	0.491	0.544	0.533	0.50	0.0243	0.0763	0.50	0.0763
CHROMIUM	1.015	0.996	1.000	1.100	1.030	1.081	1.052	1.00	0.0402	0.1264	1.00	0.1264
COBALT	0.524	0.523	0.541	0.559	0.528	0.534	0.551	0.50	0.0138	0.0433	0.50	0.0433
COPPER	1.043	1.028	1.026	1.016	1.068	1.098	1.021	1.00	0.0301	0.0947	1.00	0.0947
IRON	11.041	10.660	10.783	11.168	10.989	10.919	10.802	10.00	0.1734	0.5449	10.00	0.5449
LEAD	1.076	1.068	1.091	1.077	1.083	1.040	1.040	1.00	0.0203	0.0637	1.00	0.0637
MANGANESE	0.558	0.529	0.519	0.541	0.532	0.525	0.554	0.50	0.0148	0.0465	0.50	0.0465
MOLYBDENUM	0.564	0.571	0.574	0.537	0.518	0.554	0.550	0.50	0.0200	0.0629	0.50	0.0629
NICKEL	1.025	1.059	1.057	0.947	0.974	1.069	1.036	1.00	0.0465	0.1461	1.00	0.1461
SELENIUM	0.679	0.622	0.547	0.429	0.439	0.552	0.506	0.50	0.0911	0.2863	0.50	0.2863
SILVER	0.525	0.538	0.555	0.545	0.551	0.530	0.518	0.50	0.0140	0.0439	0.50	0.0439
THALLIUM	0.503	0.493	0.491	0.555	0.525	0.504	0.499	0.50	0.0227	0.0713	0.50	0.0713
URANIUM	0.517	0.513	0.528	0.542	0.526	0.533	0.523	0.50	0.0097	0.0306	0.50	0.0306
VANADIUM	1.081	1.076	1.027	1.054	1.069	1.043	1.080	1.00	0.0209	0.0658	1.00	0.0658
ZINC	10.646	10.643	10.661	10.514	10.927	10.516	10.419	10.00	0.1631	0.5126	10.00	0.7534
ALUMINUM	10.305	10.064	10.146	10.336	10.592	10.459	10.670	10.00	0.2224	0.6990	10.00	0.6990



Method Detection Limit (Blanks)

Analyte	1	2	3	4	5	6	7	Mean	SD	MDLb
ANTIMONY	0.011	0.009	0.001	0.001	0.003	0.018	0.012	0.0080	0.0065	0.0285
ARSENIC	0.021	0.013	0.004	0.008	0.000	0.001	0.000	0.0067	0.0079	0.0316
BARIUM	0.000	0.018	0.014	0.000	0.003	0.001	0.003	0.0054	0.0072	0.0280
BERYLLIUM	0.003	0.005	0.007	0.002	0.005	0.014	0.003	0.0057	0.0039	0.0179
CADMIUM	0.000	0.002	0.000	0.000	0.000	0.001	0.000	0.0004	0.0007	0.0026
CHROMIUM	0.000	0.000	0.000	0.000	0.000	0.001	0.004	0.0008	0.0016	0.0059
COBALT	0.000	0.000	0.000	0.000	0.000	0.003	0.001	0.0006	0.0012	0.0042
COPPER	0.000	0.000	0.069	0.000	0.010	0.000	0.000	0.0113	0.0258	0.0924
IRON	0.000	0.000	0.000	0.236	0.187	0.020	0.112	0.0792	0.0996	0.3922
LEAD	0.001	0.000	0.000	0.002	0.001	0.001	0.001	0.0011	0.0009	0.0037
MANGANESE	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.0008	0.0020	0.0071
MOLYBDENUM	0.017	0.013	0.007	0.015	0.004	0.022	0.009	0.0126	0.0062	0.0321
NICKEL	0.000	0.000	0.062	0.000	0.000	0.017	0.013	0.0132	0.0228	0.0849
SELENIUM	0.007	0.027	0.000	0.000	0.019	0.000	0.013	0.0093	0.0107	0.0428
SILVER	0.004	0.002	0.002	0.000	0.000	0.001	0.000	0.0012	0.0014	0.0057
THALLIUM	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.0003	0.0008	0.0028
URANIUM	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.0001	0.0004	0.0013
VANADIUM	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.0003	0.0004	0.0016
ZINC	0.000	0.000	0.257	0.175	0.513	0.000	0.000	0.1350	0.1968	0.7534
ALUMINUM	0.000	0.000	0.106	0.000	0.000	0.170	0.295	0.0816	0.1160	0.4460

Note: Higher value between **MDLs** and **MDLb** will be used.



LOD PQL VERIFICATION 2024

Analytical Method: EPA 6020 / 200.8
Digestion Method: EPA 3010A
Date of Analysis: 1/20/2024
Digestion Date: 1/20/2024
Instrument Name: ICPMS3
Analysts: DBJ

Matrix: Water
Units: ug/L

N062388

Analyte	MDLs	LOD	ACTUAL LOD	PQL	ACTUAL PQL	% RECOVERY
ANTIMONY	0.0652	0.025	0.288	0.50	0.552	110
ARSENIC	0.0667	0.050	0.055	0.10	0.107	107
BARIUM	0.0498	0.500	0.547	1.00	1.049	105
BERYLLIUM	0.0732	0.250	0.253	0.50	0.502	100
CADMIUM	0.0763	0.250	0.255	0.50	0.498	100
CHROMIUM	0.1263	0.500	0.536	1.00	1.048	105
COBALT	0.0433	0.250	0.261	0.50	0.518	104
COPPER	0.0946	0.100	0.620	1.00	0.941	94
IRON	0.5444	5.000	5.219	10.00	10.531	105
LEAD	0.0636	0.500	0.513	1.00	1.035	104
MANGANESE	0.0464	0.250	0.261	0.50	0.602	120
MOLYBDENUM	0.0628	0.250	0.275	0.50	0.534	107
NICKEL	0.1460	0.500	0.492	1.00	1.184	118
SELENIUM	0.2861	0.250	0.272	0.50	0.536	107
SILVER	0.0438	0.250	0.277	0.50	0.534	107
THALLIUM	0.0712	0.250	0.264	0.50	0.508	102
URANIUM	0.0306	0.250	0.261	0.50	0.523	105
VANADIUM	0.0657	0.500	0.557	1.00	1.063	106
ZINC	0.5121	5.000	5.394	10.00	10.481	105
ALUMINUM	0.6983	5.000	5.519	10.00	10.395	104

ARCADIS

Project: PG&E Topock - PCM

Project No.: 30211191

ASSET Laboratories Work Order:

N069638

ANALYTICAL and QC RESULTS SAMPLE RECEIVING ITEMS

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ASSET Laboratories Work Order: N069638

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November 15, 2024

Laura Madsen
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661
TEL: 1 720 344 3771
FAX:

Workorder No.: N069638

RE: PG&E Topock - PCM, 30211191

Attention: Laura Madsen

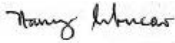
Enclosed are the results for sample(s) received on November 01, 2024 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

The reported results relate only to the samples as received and parameters tested by the laboratory.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,



Nancy Sibucan
Laboratory Director

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CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30211191
Lab Order: N069638

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 218.6:

Dilution was necessary for some samples due to matrix interference. Samples were analyzed at lower dilution however matrix spike recovery and/or retention time criteria were not met indicating possible matrix interference. Samples were reported at dilution that meets matrix spike recovery limit and the detected peak within retention time window.

Analytical Comments for EPA 300.0:

Dilution was necessary due to precipitation of samples upon the addition of eluent.

Analytical Comments for EPA 6020_Dissolved:

Sample N069629-001 (sample reference) was reanalyzed several times due to RSD not meeting the <15% criteria for analyte Arsenic. Arsenic was reported at 0.143 ug/L with the lowest RSD of 28.26%. The results are comparable on all runs. See Corrective Action Report 8175.



CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30211191
Lab Order: N069638
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N069638-001A	MW-72-080-Q424	Groundwater	11/1/2024 8:24:00 AM	11/1/2024	11/15/2024
N069638-001B	MW-72-080-Q424	Groundwater	11/1/2024 8:24:00 AM	11/1/2024	11/15/2024
N069638-001C	MW-72-080-Q424	Groundwater	11/1/2024 8:24:00 AM	11/1/2024	11/15/2024
N069638-002A	MW-73-080-Q424	Groundwater	11/1/2024 9:00:00 AM	11/1/2024	11/15/2024
N069638-002B	MW-73-080-Q424	Groundwater	11/1/2024 9:00:00 AM	11/1/2024	11/15/2024
N069638-002C	MW-73-080-Q424	Groundwater	11/1/2024 9:00:00 AM	11/1/2024	11/15/2024
N069638-003A	MW-72BR-200-Q424	Groundwater	11/1/2024 7:51:00 AM	11/1/2024	11/15/2024
N069638-003B	MW-72BR-200-Q424	Groundwater	11/1/2024 7:51:00 AM	11/1/2024	11/15/2024
N069638-004A	EB-717-Q424	Groundwater	11/1/2024 9:10:00 AM	11/1/2024	11/15/2024
N069638-005A	MW-42-055-EB-Q424	Groundwater	11/1/2024 7:50:00 AM	11/1/2024	11/15/2024
N069638-006A	MW-42-065-EB-Q424	Groundwater	11/1/2024 7:30:00 AM	11/1/2024	11/15/2024
N069638-007A	MW-42-030-Q424	Groundwater	11/1/2024 8:29:00 AM	11/1/2024	11/15/2024
N069638-007B	MW-42-030-Q424	Groundwater	11/1/2024 8:29:00 AM	11/1/2024	11/15/2024
N069638-007C	MW-42-030-Q424	Groundwater	11/1/2024 8:29:00 AM	11/1/2024	11/15/2024
N069638-008A	MW-42-055-Q424	Groundwater	11/1/2024 8:08:00 AM	11/1/2024	11/15/2024
N069638-008B	MW-42-055-Q424	Groundwater	11/1/2024 8:08:00 AM	11/1/2024	11/15/2024
N069638-008C	MW-42-055-Q424	Groundwater	11/1/2024 8:08:00 AM	11/1/2024	11/15/2024
N069638-009A	MW-42-065-Q424	Groundwater	11/1/2024 7:48:00 AM	11/1/2024	11/15/2024
N069638-009B	MW-42-065-Q424	Groundwater	11/1/2024 7:48:00 AM	11/1/2024	11/15/2024
N069638-009C	MW-42-065-Q424	Groundwater	11/1/2024 7:48:00 AM	11/1/2024	11/15/2024
N069638-010A	EB-718-Q424	Groundwater	11/1/2024 8:44:00 AM	11/1/2024	11/15/2024



ASSET Laboratories

ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069638
Project: PG&E Topock - PCM, 30211191
Lab ID: N069638-001

Client Sample ID: MW-72-080-Q424
Collection Date: 11/1/2024 8:24:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241104A	QC Batch: R195216				PrepDate:		Analyst: RAB
Hexavalent Chromium	11	0.19	1.0		µg/L	5	11/4/2024 01:13 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113831				PrepDate: 11/3/2024		Analyst: DJ
Chromium	11	0.13	1.0		µg/L	1	11/4/2024 11:56 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out	(M)	Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California	Client Sample ID: MW-73-080-Q424
Lab Order: N069638	
Project: PG&E Topock - PCM, 30211191	Collection Date: 11/1/2024 9:00:00 AM
Lab ID: N069638-002	Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241104A	QC Batch: R195216				PrepDate:		Analyst: RAB
Hexavalent Chromium	18	0.19	1.0		µg/L	5	11/4/2024 01:32 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113831				PrepDate: 11/3/2024		Analyst: DJ
Chromium	19	0.13	1.0		µg/L	1	11/4/2024 12:02 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California	Client Sample ID: MW-72BR-200-Q424
Lab Order: N069638	
Project: PG&E Topock - PCM, 30211191	Collection Date: 11/1/2024 7:51:00 AM
Lab ID: N069638-003	Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241104A	QC Batch: R195216	PrepDate:	Analyst: RAB
Hexavalent Chromium	ND 0.19	1.0	µg/L
			5 11/4/2024 04:37 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113831	PrepDate: 11/3/2024	Analyst: DJ
Chromium	ND 0.13	1.0	µg/L
			1 11/4/2024 12:08 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069638
Project: PG&E Topock - PCM, 30211191
Lab ID: N069638-004

Client Sample ID: EB-717-Q424
Collection Date: 11/1/2024 9:10:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241104A	QC Batch: R195216			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	11/4/2024 05:34 PM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT:	ARCADIS U.S., Inc. - California	Client Sample ID:	MW-42-055-EB-Q424
Lab Order:	N069638		
Project:	PG&E Topock - PCM, 30211191	Collection Date:	11/1/2024 7:50:00 AM
Lab ID:	N069638-005	Matrix:	GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241104A	QC Batch: R195216	PrepDate:	Analyst: RAB
Hexavalent Chromium	ND 0.039	0.20	µg/L 1 11/4/2024 05:53 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069638
Project: PG&E Topock - PCM, 30211191
Lab ID: N069638-006

Client Sample ID: MW-42-065-EB-Q424
Collection Date: 11/1/2024 7:30:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241104A	QC Batch: R195216			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	11/4/2024 06:31 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069638
Project: PG&E Topock - PCM, 30211191
Lab ID: N069638-007

Client Sample ID: MW-42-030-Q424
Collection Date: 11/1/2024 8:29:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241104A	QC Batch: R195216				PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20		µg/L	1	11/4/2024 03:03 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113831				PrepDate: 11/3/2024		Analyst: DJ
Chromium	ND	0.13	1.0		µg/L	1	11/4/2024 12:31 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out	(M)	Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California	Client Sample ID: MW-42-055-Q424
Lab Order: N069638	
Project: PG&E Topock - PCM, 30211191	Collection Date: 11/1/2024 8:08:00 AM
Lab ID: N069638-008	Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241104A	QC Batch: R195216				PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20		µg/L	1	11/4/2024 03:22 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113831				PrepDate: 11/3/2024		Analyst: DJ
Chromium	ND	0.13	1.0		µg/L	1	11/4/2024 12:37 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069638
Project: PG&E Topock - PCM, 30211191
Lab ID: N069638-009

Client Sample ID: MW-42-065-Q424
Collection Date: 11/1/2024 7:48:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241104A	QC Batch: R195216				PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.19	1.0		µg/L	5	11/4/2024 05:25 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103B	QC Batch: 113831				PrepDate: 11/3/2024		Analyst: DJ
Chromium	ND	0.13	1.0		µg/L	1	11/4/2024 12:43 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out	(M)	Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069638
Project: PG&E Topock - PCM, 30211191
Lab ID: N069638-010

Client Sample ID: EB-718-Q424
Collection Date: 11/1/2024 8:44:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241104A	QC Batch: R195216			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	11/4/2024 06:50 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: MB-R195216	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216							
Client ID: PBW	Batch ID: R195216	TestNo: EPA 218.6		Analysis Date: 11/4/2024	SeqNo: 6287789							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.039	0.20									

Sample ID: LCS-R195216	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216							
Client ID: LCSW	Batch ID: R195216	TestNo: EPA 218.6		Analysis Date: 11/4/2024	SeqNo: 6287790							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.735	0.039	0.20	5.000	0	94.7	90	110				

Sample ID: N069263-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216							
Client ID: ZZZZZ	Batch ID: R195216	TestNo: EPA 218.6		Analysis Date: 11/4/2024	SeqNo: 6287792							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.054	0.039	0.20	1.000	0	105	90	110				

Sample ID: N069638-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216							
Client ID: ZZZZZ	Batch ID: R195216	TestNo: EPA 218.6		Analysis Date: 11/4/2024	SeqNo: 6287794							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	35.055	0.19	1.0	25.00	10.80	97.0	90	110				

Sample ID: N069638-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216							
Client ID: ZZZZZ	Batch ID: R195216	TestNo: EPA 218.6		Analysis Date: 11/4/2024	SeqNo: 6287796							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	44.144	0.19	1.0	25.00	18.35	103	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N069638-001ADUP		SampType: DUP		TestCode: 218.6_WPGE		Units: µg/L		Prep Date:		RunNo: 195216		
Client ID: ZZZZZ		Batch ID: R195216		TestNo: EPA 218.6		Analysis Date: 11/4/2024		SeqNo: 6287799				
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	11.491	0.19	1.0						10.80	6.20	20	

Sample ID: N069638-001AMSD		SampType: MSD		TestCode: 218.6_WPGE		Units: µg/L		Prep Date:		RunNo: 195216		
Client ID: ZZZZZ		Batch ID: R195216		TestNo: EPA 218.6		Analysis Date: 11/4/2024		SeqNo: 6287800				
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	35.061	0.19	1.0	25.00	10.80	97.0	90	110	35.06	0.0157	20	

Sample ID: N069638-007AMS		SampType: MS		TestCode: 218.6_WPGE		Units: µg/L		Prep Date:		RunNo: 195216		
Client ID: ZZZZZ		Batch ID: R195216		TestNo: EPA 218.6		Analysis Date: 11/4/2024		SeqNo: 6287802				
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.228	0.039	0.20	1.000	0.1455	108	90	110				

Sample ID: N069638-008AMS		SampType: MS		TestCode: 218.6_WPGE		Units: µg/L		Prep Date:		RunNo: 195216		
Client ID: ZZZZZ		Batch ID: R195216		TestNo: EPA 218.6		Analysis Date: 11/4/2024		SeqNo: 6287804				
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.079	0.039	0.20	1.000	0	108	90	110				

Sample ID: N069631-015AMS		SampType: MS		TestCode: 218.6_WPGE		Units: µg/L		Prep Date:		RunNo: 195216		
Client ID: ZZZZZ		Batch ID: R195216		TestNo: EPA 218.6		Analysis Date: 11/4/2024		SeqNo: 6287806				
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.053	0.039	0.20	1.000	0	105	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| (M) Test is modified | | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N069638-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216							
Client ID: ZZZZZ	Batch ID: R195216	TestNo: EPA 218.6		Analysis Date: 11/4/2024	SeqNo: 6287810							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.034	0.19	1.0	5.000	0	101	90	110				
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Sample ID: N069638-009AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216							
Client ID: ZZZZZ	Batch ID: R195216	TestNo: EPA 218.6		Analysis Date: 11/4/2024	SeqNo: 6287811							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.275	0.19	1.0	5.000	0	105	90	110				
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Sample ID: N069638-004AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216							
Client ID: ZZZZZ	Batch ID: R195216	TestNo: EPA 218.6		Analysis Date: 11/4/2024	SeqNo: 6287814							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	1.062	0.039	0.20	1.000	0	106	90	110				
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Sample ID: N069638-005AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216							
Client ID: ZZZZZ	Batch ID: R195216	TestNo: EPA 218.6		Analysis Date: 11/4/2024	SeqNo: 6287816							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

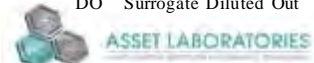
Hexavalent Chromium	1.095	0.039	0.20	1.000	0	110	90	110				
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Sample ID: N069638-006AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216							
Client ID: ZZZZZ	Batch ID: R195216	TestNo: EPA 218.6		Analysis Date: 11/4/2024	SeqNo: 6287820							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	1.091	0.039	0.20	1.000	0	109	90	110				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: N069638-010AMS		SampType: MS		TestCode: 218.6_WPGE Units: µg/L		Prep Date:		RunNo: 195216				
Client ID: ZZZZZ		Batch ID: R195216		TestNo: EPA 218.6		Analysis Date: 11/4/2024		SeqNo: 6287822				
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.076	0.039	0.20	1.000	0	108	90	110				

Sample ID: N069306-014AMS		SampType: MS		TestCode: 218.6_WPGE Units: µg/L		Prep Date:		RunNo: 195216				
Client ID: ZZZZZ		Batch ID: R195216		TestNo: EPA 218.6		Analysis Date: 11/4/2024		SeqNo: 6287826				
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	7.550	0.039	0.20	5.000	2.420	103	90	110				

Sample ID: N069306-014AMSD		SampType: MSD		TestCode: 218.6_WPGE Units: µg/L		Prep Date:		RunNo: 195216				
Client ID: ZZZZZ		Batch ID: R195216		TestNo: EPA 218.6		Analysis Date: 11/4/2024		SeqNo: 6287827				
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	7.716	0.039	0.20	5.000	2.420	106	90	110	7.550	2.17	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: MB-113831	SampType: MBLK	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 11/3/2024	RunNo: 195188							
Client ID: PBW	Batch ID: 113831	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286927							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	0.13	1.0									
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Sample ID: LCS-113831	SampType: LCS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 11/3/2024	RunNo: 195188							
Client ID: LCSW	Batch ID: 113831	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286928							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	9.704	0.13	1.0	10.00	0	97.0	85	115				
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Sample ID: N069629-001B-MS	SampType: MS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 11/3/2024	RunNo: 195188							
Client ID: ZZZZZ	Batch ID: 113831	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286932							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	11.963	0.13	1.0	10.00	2.803	91.6	75	125				
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Sample ID: N069629-001B-MSD	SampType: MSD	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 11/3/2024	RunNo: 195188							
Client ID: ZZZZZ	Batch ID: 113831	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286933							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	11.870	0.13	1.0	10.00	2.803	90.7	75	125	11.96	0.786	20	
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: N069629-001B-PS	SampType: PS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188							
Client ID: ZZZZZ	Batch ID: 113831	TestNo: EPA 6020	EPA 3010A	Analysis Date: 11/4/2024	SeqNo: 6286931							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	12.429	0.13	1.0	10.00	2.803	96.3	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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ICP-MS-Metals in Water

Work Order No.: N069638
 Test Method: EPA 6020
 Analysis Date: 11/3/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 113831

Instrument ID: NV00922-ICP8 (ICPMS-03)
 Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Cr, As, Se. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069629-001B DT 5x	Chromium	Cr	µg/L	2.681676	NA	2.80325	4.34%	10
N069629-001B DT 5x	Arsenic	As	µg/L	0	NA	0.1432094	100.00%	10
N069629-001B DT 5x	Barium	Ba	µg/L	85.86791	PASS	85.47964	0.45%	10
N069629-001B DT 5x	Manganese	Mn	µg/L	17.6874	PASS	18.04301	1.97%	10
N069629-001B DT 5x	Molybdenum	Mo	µg/L	76.22411	PASS	79.47769	4.09%	10
N069629-001B DT 5x	Selenium	Se	µg/L	5.09346	NA	4.925108	3.42%	10

Note: NA - Not Applicable

11/15/24 16:34



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069638
Project: PG&E Topock - PCM, 30211191
Lab ID: N069638-001

Client Sample ID: MW-72-080-Q424
Collection Date: 11/1/2024 8:24:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241101A	QC Batch: R195096			PrepDate:		Analyst: RAB
Nitrate as N	0.75	0.12	0.25	mg/L	5	11/1/2024 05:10 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069638
Project: PG&E Topock - PCM, 30211191
Lab ID: N069638-002

Client Sample ID: MW-73-080-Q424
Collection Date: 11/1/2024 9:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241101A	QC Batch: R195096	PrepDate:	Analyst: RAB
Nitrate as N	2.1 0.12 0.25	mg/L	5 11/1/2024 05:27 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069638
Project: PG&E Topock - PCM, 30211191
Lab ID: N069638-007

Client Sample ID: MW-42-030-Q424
Collection Date: 11/1/2024 8:29:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241101A	QC Batch: R195096	PrepDate:	Analyst: RAB
Nitrate as N	ND 0.12	0.25	mg/L 5 11/1/2024 05:43 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069638
Project: PG&E Topock - PCM, 30211191
Lab ID: N069638-008

Client Sample ID: MW-42-055-Q424
Collection Date: 11/1/2024 8:08:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241101A	QC Batch: R195096	PrepDate:	Analyst: RAB
Nitrate as N	ND 0.12	0.25	mg/L 5 11/1/2024 05:59 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069638
Project: PG&E Topock - PCM, 30211191
Lab ID: N069638-009

Client Sample ID: MW-42-065-Q424
Collection Date: 11/1/2024 7:48:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241101A	QC Batch: R195096	PrepDate:	Analyst: RAB
Nitrate as N	ND 0.24 0.50	mg/L	10 11/1/2024 06:16 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: MB-R195096_NO3	SampType: MBLK	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195096							
Client ID: PBW	Batch ID: R195096	TestNo: EPA 300.0		Analysis Date: 11/1/2024	SeqNo: 6280740							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.024 0.050

Sample ID: LCS-R195096_NO3	SampType: LCS	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195096							
Client ID: LCSW	Batch ID: R195096	TestNo: EPA 300.0		Analysis Date: 11/1/2024	SeqNo: 6280741							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 1.208 0.024 0.050 1.250 0 96.6 90 110

Sample ID: N069629-001CDUP	SampType: DUP	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195096							
Client ID: ZZZZZ	Batch ID: R195096	TestNo: EPA 300.0		Analysis Date: 11/1/2024	SeqNo: 6280753							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 8.697 0.12 0.25 8.710 0.149 20

Sample ID: N069631-008CMS	SampType: MS	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195096							
Client ID: ZZZZZ	Batch ID: R195096	TestNo: EPA 300.0		Analysis Date: 11/1/2024	SeqNo: 6280754							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 11.951 0.24 0.50 12.50 0 95.6 80 120

Sample ID: N069631-008CMSD	SampType: MSD	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195096							
Client ID: ZZZZZ	Batch ID: R195096	TestNo: EPA 300.0		Analysis Date: 11/1/2024	SeqNo: 6280755							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 11.920 0.24 0.50 12.50 0 95.4 80 120 11.95 0.260 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

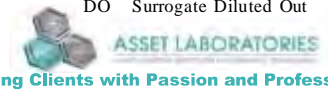
ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID: N069631-013CMS		SampType: MS		TestCode: 300WLLNO3		Units: mg/L		Prep Date:		RunNo: 195096		
Client ID: ZZZZZ		Batch ID: R195096		TestNo: EPA 300.0		Analysis Date: 11/1/2024		SeqNo: 6280758				
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	12.083	0.24	0.50	12.50	0	96.7	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069638
Project: PG&E Topock - PCM, 30211191
Lab ID: N069638-007

Client Sample ID: MW-42-030-Q424
Collection Date: 11/1/2024 8:29:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP4_241103G	QC Batch: 113806			PrepDate: 11/1/2024		Analyst: DJ	
Iron	390	5.8	20	µg/L	1	11/4/2024 02:22 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069638
Project: PG&E Topock - PCM, 30211191
Lab ID: N069638-008

Client Sample ID: MW-42-055-Q424
Collection Date: 11/1/2024 8:08:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP4_241103G	QC Batch: 113806			PrepDate: 11/1/2024		Analyst: DJ	
Iron	430	5.8	20	µg/L	1	11/4/2024 02:24 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069638
Project: PG&E Topock - PCM, 30211191
Lab ID: N069638-009

Client Sample ID: MW-42-065-Q424
Collection Date: 11/1/2024 7:48:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP4_241103G	QC Batch: 113806			PrepDate: 11/1/2024		Analyst: DJ
Iron	220	5.8	20	µg/L	1	11/4/2024 02:27 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID: MB-113806	SampType: MBLK	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 11/1/2024	RunNo: 195160							
Client ID: PBW	Batch ID: 113806	TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6285101							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	7.880	5.8	20									

Sample ID: LCS-113806	SampType: LCS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 11/1/2024	RunNo: 195160							
Client ID: LCSW	Batch ID: 113806	TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6285102							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	106.260	5.8	20	100.0	0	106	85	115				

Sample ID: N069444-001B-MS	SampType: MS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 11/1/2024	RunNo: 195160							
Client ID: ZZZZZ	Batch ID: 113806	TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6285109							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	134.180	5.8	20	100.0	14.15	120	75	125				

Sample ID: N069444-001B-MSD	SampType: MSD	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 11/1/2024	RunNo: 195160							
Client ID: ZZZZZ	Batch ID: 113806	TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6285110							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	128.750	5.8	20	100.0	14.15	115	75	125	134.2	4.13	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID: N069444-001B-PS	SampType: PS	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160							
Client ID: ZZZZZ	Batch ID: 113806	TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6285108							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	126.160	5.8	20	100.0	14.15	112	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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ICP-Metals in Water

Work Order No.: N069638
Test Method: EPA 6010B
Analysis Date: 11/3/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 113806

Instrument ID: NV00922-ICP4
Instrument Description: Agilent 5800VDV

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Fe. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069944-001B DT 5x	Iron	Fe	µg/L	0	NA	14.15	100.00%	10

Note: NA - Not Applicable

11/15/24 16:37

N069638_6010B_113806_DT

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069638
Project: PG&E Topock - PCM, 30211191
Lab ID: N069638-001

Client Sample ID: MW-72-080-Q424
Collection Date: 11/1/2024 8:24:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241103A	QC Batch:	113831	PrepDate:	11/3/2024	Analyst:	DJ
Arsenic	9.7	0.067	0.10	µg/L	1	11/4/2024 11:56 AM	
Manganese	300	0.46	5.0	µg/L	10	11/6/2024 02:33 AM	
Molybdenum	86	0.063	0.50	µg/L	1	11/4/2024 11:56 AM	
Selenium	1.3	0.29	0.50	µg/L	1	11/4/2024 11:56 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069638
Project: PG&E Topock - PCM, 30211191
Lab ID: N069638-002

Client Sample ID: MW-73-080-Q424
Collection Date: 11/1/2024 9:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241103A	QC Batch:	113831	PrepDate:	11/3/2024	Analyst:	DJ
Arsenic	1.9	0.067	0.10	µg/L	1	11/4/2024 12:02 PM	
Manganese	23	0.046	0.50	µg/L	1	11/4/2024 12:02 PM	
Molybdenum	38	0.063	0.50	µg/L	1	11/4/2024 12:02 PM	
Selenium	2.5	0.29	0.50	µg/L	1	11/4/2024 12:02 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069638
Project: PG&E Topock - PCM, 30211191
Lab ID: N069638-003

Client Sample ID: MW-72BR-200-Q424
Collection Date: 11/1/2024 7:51:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241103A	QC Batch: 113831			PrepDate: 11/3/2024		Analyst: DJ
Arsenic	13	0.067	0.10	µg/L	1	11/4/2024 12:08 PM
Manganese	100	0.046	0.50	µg/L	1	11/4/2024 12:08 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069638
Project: PG&E Topock - PCM, 30211191
Lab ID: N069638-007

Client Sample ID: MW-42-030-Q424
Collection Date: 11/1/2024 8:29:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241105F	QC Batch:	113831	PrepDate:	11/4/2024	Analyst:	DJ
Arsenic	1.9	0.067	0.10	µg/L	1	11/6/2024 02:51 AM	
Barium	140	0.050	1.0	µg/L	1	11/4/2024 12:31 PM	
Manganese	89	0.046	0.50	µg/L	1	11/4/2024 12:31 PM	
Molybdenum	4.9	0.063	0.50	µg/L	1	11/4/2024 12:31 PM	
Selenium	ND	0.29	0.50	µg/L	1	11/4/2024 12:31 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069638
Project: PG&E Topock - PCM, 30211191
Lab ID: N069638-008

Client Sample ID: MW-42-055-Q424
Collection Date: 11/1/2024 8:08:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241103A	QC Batch:	113831	PrepDate:	11/3/2024	Analyst:	DJ
Arsenic	14	0.067	0.10	µg/L	1	11/4/2024 12:37 PM	
Barium	200	0.50	10	µg/L	10	11/6/2024 03:39 AM	
Manganese	280	0.46	5.0	µg/L	10	11/6/2024 03:39 AM	
Molybdenum	4.8	0.063	0.50	µg/L	1	11/4/2024 12:37 PM	
Selenium	ND	0.29	0.50	µg/L	1	11/4/2024 12:37 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 15-Nov-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069638
Project: PG&E Topock - PCM, 30211191
Lab ID: N069638-009

Client Sample ID: MW-42-065-Q424
Collection Date: 11/1/2024 7:48:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

RunID: NV00922-ICP8_241103A	EPA 3010A			EPA 6020			Analyst: DJ
	QC Batch: 113831			PrepDate: 11/3/2024			
Arsenic	2.2	0.067	0.10	µg/L	1	11/4/2024 12:43 PM	
Barium	88	0.050	1.0	µg/L	1	11/4/2024 12:43 PM	
Manganese	2300	4.6	50	µg/L	100	11/6/2024 03:45 AM	
Molybdenum	15	0.063	0.50	µg/L	1	11/4/2024 12:43 PM	
Selenium	ND	0.29	0.50	µg/L	1	11/4/2024 12:43 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: MB-113831	SampType: MBLK	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 11/3/2024	RunNo: 195177							
Client ID: PBW	Batch ID: 113831	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286072							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.067	0.10									
Barium	ND	0.050	1.0									
Manganese	ND	0.046	0.50									
Molybdenum	ND	0.063	0.50									
Selenium	ND	0.29	0.50									

Sample ID: LCS-113831	SampType: LCS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 11/3/2024	RunNo: 195177							
Client ID: LCSW	Batch ID: 113831	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286073							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.568	0.067	0.10	10.00	0	95.7	85	115				
Barium	9.829	0.050	1.0	10.00	0	98.3	85	115				
Manganese	97.590	0.046	0.50	100.0	0	97.6	85	115				
Molybdenum	9.636	0.063	0.50	10.00	0	96.4	85	115				
Selenium	9.284	0.29	0.50	10.00	0	92.8	85	115				

Sample ID: N069629-001B-MS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 11/3/2024	RunNo: 195177							
Client ID: ZZZZZ	Batch ID: 113831	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024	SeqNo: 6286077							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.460	0.067	0.10	10.00	0.1432	93.2	75	125				
Barium	96.015	0.050	1.0	10.00	85.48	105	75	125				
Manganese	108.956	0.046	0.50	100.0	18.04	90.9	75	125				
Molybdenum	89.937	0.063	0.50	10.00	79.48	105	75	125				
Selenium	13.979	0.29	0.50	10.00	4.925	90.5	75	125				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: N069629-001B-MSD		SampType: MSD		TestCode: 6020_DIS_TP		Units: µg/L		Prep Date: 11/3/2024		RunNo: 195177		
Client ID: ZZZZZZ		Batch ID: 113831		TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/4/2024		SeqNo: 6286078				
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.669	0.067	0.10	10.00	0.1432	95.3	75	125	9.460	2.18	20	
Barium	94.116	0.050	1.0	10.00	85.48	86.4	75	125	96.01	2.00	20	
Manganese	109.312	0.046	0.50	100.0	18.04	91.3	75	125	109.0	0.326	20	
Molybdenum	90.352	0.063	0.50	10.00	79.48	109	75	125	89.94	0.461	20	
Selenium	14.182	0.29	0.50	10.00	4.925	92.6	75	125	13.98	1.44	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: N069629-001B-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177							
Client ID: ZZZZZ	Batch ID: 113831	TestNo: EPA 6020	EPA 3010A	Analysis Date: 11/4/2024	SeqNo: 6286076							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.080	0.067	0.10	10.00	0.1432	99.4	80	120				
Barium	99.732	0.050	1.0	10.00	85.48	143	80	120				S
Manganese	111.545	0.046	0.50	100.0	18.04	93.5	80	120				
Molybdenum	93.851	0.063	0.50	10.00	79.48	144	80	120				S
Selenium	14.512	0.29	0.50	10.00	4.925	95.9	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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ICP-MS-Metals in Water

Work Order No.: N069638
 Test Method: EPA 6020
 Analysis Date: 11/3/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 113831

Instrument ID: NV00922-ICP8 (ICPMS-03)
 Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Cr, As, Se. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069629-001B DT 5x	Chromium	Cr	µg/L	2.681676	NA	2.80325	4.34%	10
N069629-001B DT 5x	Arsenic	As	µg/L	0	NA	0.1432094	100.00%	10
N069629-001B DT 5x	Barium	Ba	µg/L	85.86791	PASS	85.47964	0.45%	10
N069629-001B DT 5x	Manganese	Mn	µg/L	17.6874	PASS	18.04301	1.97%	10
N069629-001B DT 5x	Molybdenum	Mo	µg/L	76.22411	PASS	79.47769	4.09%	10
N069629-001B DT 5x	Selenium	Se	µg/L	5.09346	NA	4.925108	3.42%	10

Note: NA - Not Applicable

11/15/24 16:34



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SAMPLE RECEIVING ITEMS



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3151 W. Post Rd., Las Vegas, NV 89118
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Client: Arcadis		Report to: Laura Madsen		Bill to: Janet Newman		ED:	
Address: 630 Plaza Dr, Suite 200		Company: Arcadis		Address:		Excel EDD <input type="checkbox"/>	
Address: Highlands Ranch, CO 80129		Email: laura.madsen@arcadis.com		Address:		GeoTracker <input type="checkbox"/>	
Phone: 720-344-3500		Address:		Email to: janet.newman@arcadis.com		Labspec <input type="checkbox"/>	
Fax:		Address:		P.O.#		Others <input checked="" type="checkbox"/>	
Submitted By: P. Jesse Top		Phone: 949 293-2445		Fax:		Specify: LEVEL IV	
Title: Field Tech		Phone: 720-344-3771		Fax:		Regulatory <input type="checkbox"/>	
Signature: [Signature]		Date: 11/01/24		Global ID:		Specify State:	
I hereby authorize ASSET Labs to perform the tests indicated below.		I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for				6. Method of Cooling:	
Project Name: PG&E Topock - PCM		Signature: [Signature]		Date: 11/01/24		Sample Temp: ICE	
Project Number: 3021191						Tracking No.:	

Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Matrix											Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks															
						Ground	X Sediment	250 mL poly	1 L poly	500mL poly	500mL poly	500mL poly	3x40 mL VOA	500mL poly	1 L poly	1 L poly						1 L poly														
						Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH																														
						Nitrate as N, sulfate (EPA 300.0)																														
						Dissolved metals (SW6020) FF: HNO3 Arsenic, Iron, Barium, Manganese																														
						Dissolved metals (SW6020) FF: HNO3 Total Dissolved Chromium,																														
						Dissolved metals (SW6020) FF: HNO3 Molybdenum, Selenium																														
						Total Organic Carbon (SM6310C); H2SO4																														
						Dissolved metals (SW6020) FF: HNO3 Arsenic, Manganese																														
						Ammonia as Nitrogen (SM4500NH3); H2SO4																														
						Nitrate as N (EPA 300.0)																														

Relinquished by (Signature and Printed Name): [Signature]	Date/Time: 11/01/24 0935	Relinquished by (Signature and Printed Name): [Signature]	Date/Time: 11/1/24 1228	<p>Turn Around Time (TAT)</p> <p><input type="checkbox"/> A < 24 Hrs or Same Day TAT</p> <p><input type="checkbox"/> B = Next Workday</p> <p><input type="checkbox"/> C = 2 Workdays</p> <p><input type="checkbox"/> D = 3 Workdays</p> <p><input checked="" type="checkbox"/> E = Routine 5-7 Workdays</p> <p>TAT Starts at 8 AM the following day if samples received after 3:00PM.</p>	<p>Special Instruction:</p>
Relinquished by (Signature and Printed Name): [Signature]	Date/Time: 11/1/24 1449	Relinquished by (Signature and Printed Name): [Signature]	Date/Time: 11/1/24 1449		
Relinquished by (Signature and Printed Name): [Signature]	Date/Time: 11/1/24 1449	Relinquished by (Signature and Printed Name): [Signature]	Date/Time: 11/1/24 1449		
Relinquished by (Signature and Printed Name): [Signature]	Date/Time: 11/1/24 1449	Relinquished by (Signature and Printed Name): [Signature]	Date/Time: 11/1/24 1449		

<p>Terms</p> <p>1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.</p> <p>2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis.</p> <p>3. Custom EDD formal will be an additional 3% of the total project price.</p> <p>4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project.</p>	<p>5. Trip Blanks and Equipment Blanks are billable sample.</p> <p>6. Asset Laboratories is not responsible for samples collected using incorrect methodology.</p> <p>7. Terms are net 30 days.</p> <p>8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.</p> <p>9. For subcontract analysis, TAT and Surcharges will vary.</p>																	
<p>Preservatives:</p> <table border="1" style="width:100%;"> <tr> <td>H=HCL</td> <td>N=HNO3</td> <td>S=H2SO4</td> <td>C=4°C</td> </tr> <tr> <td>Z=Zn(AC)2</td> <td>O=NaOH</td> <td>T=Na2S2O3</td> <td></td> </tr> </table> <p>Others/Specify: B (NH4)2SO4/NH4OH</p>	H=HCL	N=HNO3	S=H2SO4	C=4°C	Z=Zn(AC)2	O=NaOH	T=Na2S2O3		<p>Container Type:</p> <table border="1" style="width:100%;"> <tr> <td>T=Tube</td> <td>V=VOA</td> <td>P=Pint</td> </tr> <tr> <td>J=Jar</td> <td>B=Tedar</td> <td>G=Glass</td> </tr> <tr> <td>M=Metal</td> <td>M=Metal</td> <td>C=Can</td> </tr> </table>	T=Tube	V=VOA	P=Pint	J=Jar	B=Tedar	G=Glass	M=Metal	M=Metal	C=Can
H=HCL	N=HNO3	S=H2SO4	C=4°C															
Z=Zn(AC)2	O=NaOH	T=Na2S2O3																
T=Tube	V=VOA	P=Pint																
J=Jar	B=Tedar	G=Glass																
M=Metal	M=Metal	C=Can																

White=Laboratory Copy

Yellow=Customer's Copy

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On: 11/1/2024 Workorder: N069638
 Rep sample Temp (Deg C): 2.2 IR Gun ID: 4
 Temp Blank: Yes No
 Carrier name: ASSET
 Last 4 digits of Tracking No.: NA Packing Material Used: None
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

- | | | | |
|---|---|-----------------------------|---|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 14. Water - pH acceptable upon receipt?
Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 15. Did the bottle labels indicate correct preservatives used? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 16. Were there Non-Conformance issues at login?
Was Client notified? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

Comments:

Checklist Completed By: EF *Efanegof* 11/1/2024

Reviewed By: for: *Maqababius* MBC11/05/2024

ASSET Laboratories

WORK ORDER Summary

01-Nov-24

WorkOrder: N069638

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30211191

QC Level: Level IV

Date Received: 11/1/2024 2:49 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N069638-001A	MW-72-080-Q424	11/1/2004 8:24:00 AM	11/15/2024	Groundwater	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069638-001B			11/15/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069638-001C			11/15/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069638-002A	MW-73-080-Q424	11/1/2024 9:00:00 AM	11/15/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069638-002B			11/15/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069638-002C			11/15/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069638-003A	MW-72BR-200-Q424	11/1/2024 7:51:00 AM	11/15/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069638-003B			11/15/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069638-004A	EB-717-Q424	11/1/2024 9:10:00 AM	11/15/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069638-005A	MW-42-055-EB-Q424	11/1/2024 7:50:00 AM	11/15/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069638-006A	MW-42-065-EB-Q424	11/1/2024 7:30:00 AM	11/15/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069638-007A	MW-42-030-Q424	11/1/2024 8:29:00 AM	11/15/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069638-007B			11/15/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

01-Nov-24

WorkOrder: N069638

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30211191

QC Level: Level IV

Date Received: 11/1/2024 2:49 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N069638-007B	MW-42-030-Q424	11/1/2024 8:29:00 AM	11/15/2024	Groundwater	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069638-007C			11/15/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069638-008A	MW-42-055-Q424	11/1/2024 8:08:00 AM	11/15/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069638-008B			11/15/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069638-008C			11/15/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069638-009A	MW-42-065-Q424	11/1/2024 7:48:00 AM	11/15/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069638-009B			11/15/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/15/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069638-009C			11/15/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069638-010A	EB-718-Q424	11/1/2024 8:44:00 AM	11/15/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069638-011A	Folder	11/15/2024	11/15/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			11/15/2024		Folder	Level IV Report	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			11/15/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

List of Analysts

ASSET Laboratories Work Order: N069638

NAME	TEST METHOD
Ria Abes	EPA 218.6, EPA 300.0
Diane Jetajobe	EPA 6010B_Dissolved, EPA 6020_Dissolved



EPA 218.6



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
 REV 2.0
 011416

QC Batch Number: R195216
 ASSET #: N069638

Instrument ID: NV00922-IC7
 Analyst: RBA
 Date Analyzed: 11/4/2024

Method:

- | | |
|---|---|
| <input checked="" type="checkbox"/> EPA 300.0 | <input checked="" type="checkbox"/> EPA 218.6/EPA 218.7 |
| <input type="checkbox"/> EPA 7199 | <input type="checkbox"/> EPA 218.6/EPA 218.7 LL |
| | <input type="checkbox"/> Others _____ |

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria? (r = 0.995, r =0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)	X			X		
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?	X			X		
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?	X			X		
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)	X			X		
14. For Hinkley DOM samples, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?	X			X		
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?	X			X		
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)	X			X		
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments: Dilution was necessary for some samples due to matrix interference.

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions,calculations)	X		
5. Is first level review correct and complete?	X		

RBA

1st Level Reviewer NS 11052024
 2nd Level Reviewer _____

Date: _____
 Date: _____

SAMPLE CALCULATION



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL TECHNOLOGIES

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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

Sample Calculation

METHOD: EPA 218.6
TEST NAME: HEXAVALENT CHROMIUM BY IC
MATRIX: Groundwater

FORMULA:

Calculate the Hexavalent Chromium concentration, in $\mu\text{g/L}$, in the original sample as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = A * \text{DF}$$

where:

A = $\mu\text{g/L}$, IC Cr+6 calculated concentration
DF = dilution factor

For Sample **N069638-001A**, the concentration in $\mu\text{g/L}$ is calculated as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = 2.1600 * 5$$

$$\text{Cr}^{+6}, \mu\text{g/L} = 10.8000$$

Reporting results in two significant figures,

$$\text{Cr}^{+6}, \mu\text{g/L} = 11$$

Reviewed by:

d/Rocha 12/19/2024

ANALYSIS RUN LOG



ASSET LABORATORIES
INTEGRATION • INNOVATION • IMPROVEMENT

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3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

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INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	ICV	ICV	1	Hexavalent Chromium	10/28/24 10:49 AM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/28/24 10:59 AM	Reported
11	ICB	ICB	1	Hexavalent Chromium	10/28/24 11:08 AM	Reported
12	MB-R194895	MBLK	1	Hexavalent Chromium	10/28/24 11:17 AM	Reported
13	LCS-R194895	LCS	1	Hexavalent Chromium	10/28/24 11:27 AM	Reported
14	N069445-001A	SAMP	1	Hexavalent Chromium	10/28/24 11:36 AM	Reported
15	N069445-001AMS	MS	1	Hexavalent Chromium	10/28/24 11:46 AM	Reported
16	N069445-001AMSD	MSD	1	Hexavalent Chromium	10/28/24 11:55 AM	Reported
17	N069445-001ADUP	DUP	1	Hexavalent Chromium	10/28/24 12:05 PM	Reported
18	N069453-001A	SAMP	1	Hexavalent Chromium	10/28/24 12:14 PM	Reported
19	N069453-002A	SAMP	1	Hexavalent Chromium	10/28/24 12:24 PM	Reported
20	N069453-003A	SAMP	1	Hexavalent Chromium	10/28/24 12:33 PM	Reported
21	N069453-004A	SAMP	1	Hexavalent Chromium	10/28/24 12:43 PM	Reported
22	CCV-1	CCV1	1	Hexavalent Chromium	10/28/24 12:52 PM	Reported
23	CCB-1	CCB	1	Hexavalent Chromium	10/28/24 1:02 PM	Reported
24	N069444-001A	SAMP	1	Hexavalent Chromium	10/28/24 1:11 PM	Reported
25	N069444-001AMS	MS	1	Hexavalent Chromium	10/28/24 1:20 PM	Reported
26	N069444-002A	SAMP	1	Hexavalent Chromium	10/28/24 1:30 PM	Reported
27	N069444-002AMS	MS	1	Hexavalent Chromium	10/28/24 1:39 PM	Reported
28	N069444-003A	SAMP	1	Hexavalent Chromium	10/28/24 1:49 PM	Not Reported
29	N069444-003AMS	MS	1	Hexavalent Chromium	10/28/24 1:58 PM	Not Reported
30	N069444-001A	SAMP	5	Hexavalent Chromium	10/28/24 2:08 PM	Not Reported
31	N069444-001AMS	MS	5	Hexavalent Chromium	10/28/24 2:17 PM	Not Reported
32	N069444-002A	SAMP	5	Hexavalent Chromium	10/28/24 2:27 PM	Not Reported
33	N069444-002AMS	MS	5	Hexavalent Chromium	10/28/24 2:36 PM	Not Reported
34	CCV-2	CCV	1	Hexavalent Chromium	10/28/24 2:46 PM	Reported
35	CCB-2	CCB	1	Hexavalent Chromium	10/28/24 2:55 PM	Reported
36	N069444-003A	SAMP	5	Hexavalent Chromium	10/28/24 3:04 PM	Reported
37	N069444-003AMS	MS	5	Hexavalent Chromium	10/28/24 3:14 PM	Reported
38	N069233-009A	SAMP	5	Hexavalent Chromium	10/28/24 3:23 PM	Not Reported
39	N069233-009AMS	MS	5	Hexavalent Chromium	10/28/24 3:33 PM	Not Reported
40	N069233-015A	SAMP	5	Hexavalent Chromium	10/28/24 3:42 PM	Not Reported
41	N069233-015AMS	MS	5	Hexavalent Chromium	10/28/24 3:52 PM	Not Reported
42	CCV-3	CCV1	1	Hexavalent Chromium	10/28/24 4:01 PM	Reported

INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	CCB-3	CCB	1	Hexavalent Chromium	10/28/24 4:11 PM	Reported
44	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 4:20 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241028A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	28/Oct/24 16:50:54
No. of Injections:	47	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	ICV,ICV,1,	9	1000	Unknown		10/28/2024 10:49	Finished	ICV @5ppb, IWST-240729B
10	PQL @0.2ppb,CCV2,	10	1000	Unknown		10/28/2024 10:59	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		10/28/2024 11:08	Finished	ICB R240926A
12	MB-H2O,MBLK,1,	12	1000	Unknown		10/28/2024 11:17	Finished	MB R240926A
13	LCS-H2O,LCS,1,	13	1000	Unknown		10/28/2024 11:27	Finished	LCS @5ppb, IWST-240729B
14	N069445-001A,SAMP	14	1000	Unknown		10/28/2024 11:36	Finished	SAMP,10 mL
15	N069445-001AMS,MS	15	1000	Unknown		10/28/2024 11:46	Finished	MS (1ppb), IWST-240729B,10r
16	N069445-001AMSD,N	16	1000	Unknown		10/28/2024 11:55	Finished	MSD (1ppb), IWST-240729B,1
17	N069445-001ADUP,D	17	1000	Unknown		10/28/2024 12:05	Finished	DUP,10 mL
18	N069453-001A,SAMP	18	1000	Unknown		10/28/2024 12:14	Finished	SAMP,10 mL
19	N069453-002A,SAMP	19	1000	Unknown		10/28/2024 12:24	Finished	SAMP,10 mL
20	N069453-003A,SAMP	20	1000	Unknown		10/28/2024 12:33	Finished	SAMP,10 mL
21	N069453-004A,SAMP	21	1000	Unknown		10/28/2024 12:43	Finished	SAMP,10 mL
22	CCV-1,CCV1,1,	22	1000	Unknown		10/28/2024 12:52	Finished	CCV @10ppb, IWST-240729A
23	CCB-1,CCB,1,	23	1000	Unknown		10/28/2024 13:02	Finished	CCB R240926A
24	N069444-001A,SAMP	24	1000	Unknown		10/28/2024 13:11	Finished	SAMP,10 mL
25	N069444-001AMS,MS	25	1000	Unknown		10/28/2024 13:20	Finished	MS (1ppb), IWST-240729B,10r
26	N069444-002A,SAMP	26	1000	Unknown		10/28/2024 13:30	Finished	SAMP,10 mL
27	N069444-002AMS,MS	27	1000	Unknown		10/28/2024 13:39	Finished	MS (1ppb), IWST-240729B,10r
28	N069444-003A,SAMP	28	1000	Unknown		10/28/2024 13:49	Finished	SAMP,10 mL
29	N069444-003AMS,MS	29	1000	Unknown		10/28/2024 13:58	Finished	MS (1ppb), IWST-240729B,10r
30	N069444-001A,SAMP	30	1000	Unknown		10/28/2024 14:08	Finished	SAMP,2>10 mL
31	N069444-001AMS,MS	31	1000	Unknown		10/28/2024 14:17	Finished	MS (1ppb), IWST-240729B,2>
32	N069444-002A,SAMP	32	1000	Unknown		10/28/2024 14:27	Finished	SAMP,2>10 mL
33	N069444-002AMS,MS	33	1000	Unknown		10/28/2024 14:36	Finished	MS (1ppb), IWST-240729B,2>
34	CCV-2,CCV,1,	34	1000	Unknown		10/28/2024 14:46	Finished	CCV @5ppb, IWST-240729A
35	CCB-2,CCB,1,	35	1000	Unknown		10/28/2024 14:55	Finished	CCB R240926A
36	N069444-003A,SAMP	36	1000	Unknown		10/28/2024 15:04	Finished	SAMP,2>10 mL
37	N069444-003AMS,MS	37	1000	Unknown		10/28/2024 15:14	Finished	MS (1ppb), IWST-240729B,2>
38	N069233-009A,SAMP	38	1000	Unknown		10/28/2024 15:23	Finished	SAMP,2>10 mL
39	N069233-009AMS,MS	39	1000	Unknown		10/28/2024 15:33	Finished	MS (1ppb), IWST-240729B,2>
40	N069233-015A,SAMP	40	1000	Unknown		10/28/2024 15:42	Finished	SAMP,2>10 mL
41	N069233-015AMS,MS	41	1000	Unknown		10/28/2024 15:52	Finished	MS (1ppb), IWST-240729B,2>
42	CCV-3,CCV1,1,	42	1000	Unknown		10/28/2024 16:01	Finished	CCV @10ppb, IWST-240729A
43	CCB-3,CCB,1,	43	1000	Unknown		10/28/2024 16:11	Finished	CCB R240926A
44	BLANK	44	1000	Unknown		10/28/2024 16:20	Finished	BLANK
45	SHUTDOWN	45	1000	Unknown		10/28/2024 16:30	Finished	
46	Eluent: R241025A	46	1000	Unknown		n.a.	Finished	
47	PCR: R241025B	47	1000	Unknown		n.a.	Finished	

INJECTION LOG: 241104A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	11/04/24 10:47 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	11/04/24 11:01 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	11/04/24 11:10 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	11/04/24 11:20 AM	Reported
13	MB-R195216	MBLK	1	Hexavalent Chromium	11/04/24 11:29 AM	Reported
14	LCS-R195216	LCS	1	Hexavalent Chromium	11/04/24 11:39 AM	Reported
15	N069263-003A	SAMP	1	Hexavalent Chromium	11/04/24 12:35 PM	Reported
16	N069263-003AMS	MS	1	Hexavalent Chromium	11/04/24 12:45 PM	Reported
17	N069263-003A	SAMP	5	Hexavalent Chromium	11/04/24 12:54 PM	Not Reported
18	N069263-003AMS	MS	5	Hexavalent Chromium	11/04/24 1:04 PM	Not Reported
19	N069638-001A	SAMP	5	Hexavalent Chromium	11/04/24 1:13 PM	Reported
20	N069638-001AMS	MS	5	Hexavalent Chromium	11/04/24 1:23 PM	Reported
21	N069638-002A	SAMP	5	Hexavalent Chromium	11/04/24 1:32 PM	Reported
22	N069638-002AMS	MS	5	Hexavalent Chromium	11/04/24 1:42 PM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	11/04/24 1:51 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	11/04/24 2:01 PM	Reported
25	N069638-001ADUP	DUP	5	Hexavalent Chromium	11/04/24 2:43 PM	Reported
26	N069638-001AMSD	MSD	5	Hexavalent Chromium	11/04/24 2:53 PM	Reported
27	N069638-007A	SAMP	1	Hexavalent Chromium	11/04/24 3:03 PM	Reported
28	N069638-007AMS	MS	1	Hexavalent Chromium	11/04/24 3:12 PM	Reported
29	N069638-008A	SAMP	1	Hexavalent Chromium	11/04/24 3:22 PM	Reported
30	N069638-008AMS	MS	1	Hexavalent Chromium	11/04/24 3:31 PM	Reported
31	N069631-015A	SAMP	1	Hexavalent Chromium	11/04/24 3:41 PM	Reported
32	N069631-015AMS	MS	1	Hexavalent Chromium	11/04/24 3:50 PM	Reported
33	N069638-003A	SAMP	1	Hexavalent Chromium	11/04/24 4:00 PM	Not Reported
34	N069638-003AMS	MS	1	Hexavalent Chromium	11/04/24 4:09 PM	Not Reported
35	CCV-3	CCV	1	Hexavalent Chromium	11/04/24 4:19 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	11/04/24 4:28 PM	Reported
37	N069638-003A	SAMP	5	Hexavalent Chromium	11/04/24 4:37 PM	Reported
38	N069638-003AMS	MS	5	Hexavalent Chromium	11/04/24 4:47 PM	Reported
39	N069638-009A	SAMP	1	Hexavalent Chromium	11/04/24 4:56 PM	Not Reported
40	N069638-009AMS	MS	1	Hexavalent Chromium	11/04/24 5:06 PM	Not Reported
41	N069638-009AMS	MS	5	Hexavalent Chromium	11/04/24 5:15 PM	Reported
42	N069638-009A	SAMP	5	Hexavalent Chromium	11/04/24 5:25 PM	Reported

INJECTION LOG: 241104A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069638-004A	SAMP	1	Hexavalent Chromium	11/04/24 5:34 PM	Reported
44	N069638-004AMS	MS	1	Hexavalent Chromium	11/04/24 5:44 PM	Reported
45	N069638-005A	SAMP	1	Hexavalent Chromium	11/04/24 5:53 PM	Reported
46	N069638-005AMS	MS	1	Hexavalent Chromium	11/04/24 6:03 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	11/04/24 6:12 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	11/04/24 6:22 PM	Reported
49	N069638-006A	SAMP	1	Hexavalent Chromium	11/04/24 6:31 PM	Reported
50	N069638-006AMS	MS	1	Hexavalent Chromium	11/04/24 6:40 PM	Reported
51	N069638-010A	SAMP	1	Hexavalent Chromium	11/04/24 6:50 PM	Reported
52	N069638-010AMS	MS	1	Hexavalent Chromium	11/04/24 6:59 PM	Reported
53	N069234-002A	SAMP	1	Hexavalent Chromium	11/04/24 7:11 PM	Not Reported
54	N069234-002AMS	MS	1	Hexavalent Chromium	11/04/24 7:21 PM	Not Reported
55	N069234-007A	SAMP	1	Hexavalent Chromium	11/04/24 7:30 PM	Not Reported
56	N069234-007AMS	MS	1	Hexavalent Chromium	11/04/24 7:40 PM	Not Reported
57	N069234-016A	SAMP	1	Hexavalent Chromium	11/04/24 7:49 PM	Not Reported
58	N069234-016AMS	MS	1	Hexavalent Chromium	11/04/24 7:59 PM	Not Reported
59	CCV-5	CCV	1	Hexavalent Chromium	11/04/24 8:08 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	11/04/24 8:18 PM	Reported
61	N069306-004A	SAMP	1	Hexavalent Chromium	11/04/24 8:27 PM	Not Reported
62	N069306-004AMS	MS	1	Hexavalent Chromium	11/04/24 8:37 PM	Not Reported
63	N069306-005A	SAMP	1	Hexavalent Chromium	11/04/24 8:46 PM	Not Reported
64	N069306-005AMS	MS	1	Hexavalent Chromium	11/04/24 8:55 PM	Not Reported
65	N069306-008A	SAMP	1	Hexavalent Chromium	11/04/24 9:05 PM	Not Reported
66	N069306-008AMS	MS	1	Hexavalent Chromium	11/04/24 9:14 PM	Not Reported
67	N069306-014A	SAMP	1	Hexavalent Chromium	11/04/24 9:24 PM	Reported
68	N069306-014AMS	MS	1	Hexavalent Chromium	11/04/24 9:33 PM	Reported
69	N069306-014AMSD	MSD	1	Hexavalent Chromium	11/04/24 9:43 PM	Reported
70	CCV-6	CCV1	1	Hexavalent Chromium	11/04/24 9:52 PM	Reported
71	CCB-6	CCB	1	Hexavalent Chromium	11/04/24 10:02 PM	Reported
72	BLANK	BLANK	1	Hexavalent Chromium	11/04/24 10:11 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241104A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	04/Nov/24 22:41:56
No. of Injections:	75	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	BLANK	1	1000	Unknown		11/04/2024 10:47	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		11/04/2024 11:01	Finished	CCV @5ppb, IWST-240729A
11	PQL @0.2ppb,CCV2,	3	1000	Unknown		11/04/2024 11:10	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		11/04/2024 11:20	Finished	CCB R241001A
13	MB-H2O,MBLK,1,	5	1000	Unknown		11/04/2024 11:29	Finished	MB R241001A
14	LCS-H2O,LCS,1,	6	1000	Unknown		11/04/2024 11:39	Finished	LCS @5ppb, IWST-240729B
15	N069263-003A,SAMP	2	1000	Unknown		11/04/2024 12:35	Finished	SAMP,10 mL
16	N069263-003AMS,M	3	1000	Unknown		11/04/2024 12:45	Finished	MS (1ppb), IWST-240729B,10r
17	N069263-003A,SAMP	4	1000	Unknown		11/04/2024 12:54	Finished	SAMP,2>10 mL
18	N069263-003AMS,M	5	1000	Unknown		11/04/2024 13:04	Finished	MS (1ppb), IWST-240729B,2>
19	N069638-001A,SAMP	6	1000	Unknown		11/04/2024 13:13	Finished	SAMP,2>10 mL
20	N069638-001AMS,M	7	1000	Unknown		11/04/2024 13:23	Finished	MS (5ppb), IWST-240729B,2>
21	N069638-002A,SAMP	8	1000	Unknown		11/04/2024 13:32	Finished	SAMP,2>10 mL
22	N069638-002AMS,M	9	1000	Unknown		11/04/2024 13:42	Finished	MS (5ppb), IWST-240729B,2>
23	CCV-2,CCV1,1,	10	1000	Unknown		11/04/2024 13:51	Finished	CCV @10ppb, IWST-240729A
24	CCB-2,CCB,1,	11	1000	Unknown		11/04/2024 14:01	Finished	CCB R241001A
25	N069638-001ADUP,D	1	1000	Unknown		11/04/2024 14:43	Finished	DUP,2>10 mL
26	N069638-001AMSD,I	2	1000	Unknown		11/04/2024 14:53	Finished	MSD (5ppb), IWST-240729B,2
27	N069638-007A,SAMP	3	1000	Unknown		11/04/2024 15:03	Finished	SAMP,10 mL
28	N069638-007AMS,M	4	1000	Unknown		11/04/2024 15:12	Finished	MS (1ppb), IWST-240729B,10r
29	N069638-008A,SAMP	5	1000	Unknown		11/04/2024 15:22	Finished	SAMP,10 mL
30	N069638-008AMS,M	6	1000	Unknown		11/04/2024 15:31	Finished	MS (1ppb), IWST-240729B,10r
31	N069631-015A,SAMP	7	1000	Unknown		11/04/2024 15:41	Finished	SAMP,10 mL
32	N069631-015AMS,M	8	1000	Unknown		11/04/2024 15:50	Finished	MS (1ppb), IWST-240729B,10r
33	N069638-003A,SAMP	9	1000	Unknown		11/04/2024 16:00	Finished	SAMP,10 mL
34	N069638-003AMS,M	10	1000	Unknown		11/04/2024 16:09	Finished	MS (1ppb), IWST-240729B,10r
35	CCV-3,CCV,1,	11	1000	Unknown		11/04/2024 16:19	Finished	CCV @5ppb, IWST-240729A
36	CCB-3,CCB,1,	12	1000	Unknown		11/04/2024 16:28	Finished	CCB R241001A
37	N069638-003A,SAMP	13	1000	Unknown		11/04/2024 16:37	Finished	SAMP,2>10 mL
38	N069638-003AMS,M	14	1000	Unknown		11/04/2024 16:47	Finished	MS (1ppb), IWST-240729B,2>
39	N069638-009A,SAMP	15	1000	Unknown		11/04/2024 16:56	Finished	SAMP,10 mL
40	N069638-009AMS,M	16	1000	Unknown		11/04/2024 17:06	Finished	MS (1ppb), IWST-240729B,10r
41	N069638-009A,SAMP	17	1000	Unknown		11/04/2024 17:15	Finished	SAMP,2>10 mL
42	N069638-009AMS,M	18	1000	Unknown		11/04/2024 17:25	Finished	MS (1ppb), IWST-240729B,2>
43	N069638-004A,SAMP	19	1000	Unknown		11/04/2024 17:34	Finished	SAMP,10 mL
44	N069638-004AMS,M	20	1000	Unknown		11/04/2024 17:44	Finished	MS (1ppb), IWST-240729B,10r
45	N069638-005A,SAMP	21	1000	Unknown		11/04/2024 17:53	Finished	SAMP,10 mL
46	N069638-005AMS,M	22	1000	Unknown		11/04/2024 18:03	Finished	MS (1ppb), IWST-240729B,10r
47	CCV-4,CCV1,1,	23	1000	Unknown		11/04/2024 18:12	Finished	CCV @10ppb, IWST-240729A
48	CCB-4,CCB,1,	24	1000	Unknown		11/04/2024 18:22	Finished	CCB R241001A
49	N069638-006A,SAMP	25	1000	Unknown		11/04/2024 18:31	Finished	SAMP,10 mL
50	N069638-006AMS,M	26	1000	Unknown		11/04/2024 18:40	Finished	MS (1ppb), IWST-240729B,10r
51	N069638-010A,SAMP	27	1000	Unknown		11/04/2024 18:50	Finished	SAMP,10 mL
52	N069638-010AMS,M	28	1000	Unknown		11/04/2024 18:59	Finished	MS (5ppb), IWST-240729B,10r
53	N069234-002A,SAMP	29	1000	Unknown		11/04/2024 19:11	Finished	SAMP,10 mL
54	N069234-002AMS,M	30	1000	Unknown		11/04/2024 19:21	Finished	MS (5ppb), IWST-240729B,10r
55	N069234-007A,SAMP	31	1000	Unknown		11/04/2024 19:30	Finished	SAMP,10 mL
56	N069234-007AMS,M	32	1000	Unknown		11/04/2024 19:40	Finished	MS (1ppb), IWST-240729B,10r
57	N069234-016A,SAMP	33	1000	Unknown		11/04/2024 19:49	Finished	SAMP,10 mL
58	N069234-016AMS,M	34	1000	Unknown		11/04/2024 19:59	Finished	MS (5ppb), IWST-240729B,10r
59	CCV-5,CCV,1,	35	1000	Unknown		11/04/2024 20:08	Finished	CCV @5ppb, IWST-240729A
60	CCB-5,CCB,1,	36	1000	Unknown		11/04/2024 20:18	Finished	CCB R241001A

61	N069306-004A,SAMF	37	1000	Unknown	11/04/2024 20:27	Finished	SAMP,10 mL
62	N069306-004AMS,M\$	38	1000	Unknown	11/04/2024 20:37	Finished	MS (5ppb), IWST-240729B,10r
63	N069306-005A,SAMF	39	1000	Unknown	11/04/2024 20:46	Finished	SAMP,10 mL
64	N069306-005AMS,M\$	40	1000	Unknown	11/04/2024 20:55	Finished	MS (5ppb), IWST-240729B,10r
65	N069306-008A,SAMF	41	1000	Unknown	11/04/2024 21:05	Finished	SAMP,10 mL
66	N069306-008AMS,M\$	42	1000	Unknown	11/04/2024 21:14	Finished	MS (1ppb), IWST-240729B,10r
67	N069306-014A,SAMF	43	1000	Unknown	11/04/2024 21:24	Finished	SAMP,10 mL
68	N069306-014AMS,M\$	44	1000	Unknown	11/04/2024 21:33	Finished	MS (1ppb), IWST-240729B,10r
69	N069306-014AMSD,N	45	1000	Unknown	11/04/2024 21:43	Finished	MSD (1ppb), IWST-240729B,10r
70	CCV-6,CCV1,1,	46	1000	Unknown	11/04/2024 21:52	Finished	CCV @10ppb, IWST-240729A
71	CCB-6,CCB,1,	47	1000	Unknown	11/04/2024 22:02	Finished	CCB R241001A
72	BLANK	48	1000	Unknown	11/04/2024 22:11	Finished	BLANK
73	SHUTDOWN	49	1000	Unknown	11/04/2024 22:21	Finished	
74	Eluent: R241101A	50	1000	Unknown	n.a.	Finished	
75	PCR: R241101B	51	1000	Unknown	n.a.	Finished	



SAMPLE PREPARATION LOG



ASSET LABORATORIES
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Hexavalent Chromium Preparation and Runlog

Sample Preparation

Date Prepared: 11/4/24
 Time Prepared: 12:34
 Prepared By: KA

Reagent ID:
 Sulfuric Acid: 16020 pH meter ID: 01
 Diphenylcarbazide: 16810
 NH₄OH + NH₄SO₄ eluent: N241101A
 NH₄OH + NH₄SO₄ buffer: N241101A

	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	N069678-1A	9.44	-	~200ul	~200ul		
2)	2A	9.38	-				
3)	3A	9.31	-				
4)	4A	9.74	-				
5)	5A	9.70	-				
6)	6A	9.75	-				
7)	7A	9.32	-				
8)	8A	9.36	-				
9)	9A	9.30	-				
10)	10A	9.69	-				
11)							
12)							
13)							
14)							
15)							

Sample Preparation

Date Prepared: 11/5/24
 Time Prepared: 07:48H
 Prepared By: KA

Reagent ID:
 Sulfuric Acid: 16020 pH meter ID: 01
 Diphenylcarbazide: 16810
 NH₄OH + NH₄SO₄ eluent: N241105A
 NH₄OH + NH₄SO₄ buffer: N24101A

W NaOH
N241099A

	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	N069694-1A	9.49	-	~200ul	~200ul		
2)	2A	9.47	-				
3)	3A	9.22	-				
4)	4A	9.26	-				
5)	N069695-1A	9.46	-				
6)	2A	9.35	-				
7)	3A	9.31	-				
8)	4A	9.72	-				
9)	N069696-4A	9.67	-				
10)	5A	9.68	-				
11)	N069697-1A	9.22	-				
12)	2A	9.20	-				
13)	3A	8.90	9.44			+4	
14)	4A	9.11	9.39			+3	
15)	5A	9.35	-				
	6A	9.31	-				

Logbook No. 26



INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
INTEGRATION OF SURVEILLANCE, ANALYTICAL, & TESTING SERVICES

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"Serving Clients with Passion and Professionalism"

(EPA 218.6) - INITIAL CALIBRATION

Instrument ID: NV00922-IC7
Date Calibrated: 10/28/2024

Initial Calibration:

Hexavalent Chromium	STD1	STD2	STD3	STD4	STD5	STD6	
COMPOUND, in ug/L	0.2	1	5	10	15	20	R ²
Area,mAU*min	0.0527	0.2779	1.4196	2.8235	4.2553	5.6829	1.0000
Measured, in ug/L	0.185700	0.979400	5.002800	9.950700	14.996600	20.027700	
Relative Error (%RE)	-7.2%		0.1%				

	Stock	Working
Standard Concentration:	1,000,000 PPB	1,000 PPB
Standard ID:	ISST-240705H	IWST-240729A

Calibration Acceptance Criteria: > 0.999 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216						
Client ID: ICV	Batch ID: R195216	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6287783							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.730	0.20	5.000	0	94.6	90	110				

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216						
Client ID: ZZZZZ	Batch ID: R195216	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6287784							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.211	0.20	0.2000	0	106	80	120				

Sample ID CCV-1	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216						
Client ID: CCV	Batch ID: R195216	TestNo: EPA 218.6	Analysis Date: 11/4/2024	SeqNo: 6287786							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.870	0.20	5.000	0	97.4	95	105				

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216						
Client ID: ZZZZZ	Batch ID: R195216	TestNo: EPA 218.6	Analysis Date: 11/4/2024	SeqNo: 6287787							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.188	0.20	0.2000	0	94.2	80	120				

Sample ID CCV-2	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216						
Client ID: ZZZZZ	Batch ID: R195216	TestNo: EPA 218.6	Analysis Date: 11/4/2024	SeqNo: 6287797							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.790	0.20	10.00	0	97.9	95	105				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCV-3	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216
Client ID: CCV	Batch ID: R195216	TestNo: EPA 218.6	Analysis Date: 11/4/2024	SeqNo: 6287807	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	4.920	0.20	5.000	0	98.4 95 105

Sample ID CCV-4	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216
Client ID: ZZZZZ	Batch ID: R195216	TestNo: EPA 218.6	Analysis Date: 11/4/2024	SeqNo: 6287817	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	9.899	0.20	10.00	0	99.0 95 105

Sample ID CCV-5	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216
Client ID: CCV	Batch ID: R195216	TestNo: EPA 218.6	Analysis Date: 11/4/2024	SeqNo: 6287823	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	5.028	0.20	5.000	0	101 95 105

Sample ID CCV-6	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216
Client ID: ZZZZZ	Batch ID: R195216	TestNo: EPA 218.6	Analysis Date: 11/4/2024	SeqNo: 6287828	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	10.044	0.20	10.00	0	100 95 105

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216
Client ID: ICB	Batch ID: R195216	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6287785	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-1	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216
Client ID: CCB	Batch ID: R195216	TestNo: EPA 218.6	Analysis Date: 11/4/2024	SeqNo: 6287788	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-2	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216
Client ID: CCB	Batch ID: R195216	TestNo: EPA 218.6	Analysis Date: 11/4/2024	SeqNo: 6287798	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-3	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216
Client ID: CCB	Batch ID: R195216	TestNo: EPA 218.6	Analysis Date: 11/4/2024	SeqNo: 6287808	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-4	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216
Client ID: CCB	Batch ID: R195216	TestNo: EPA 218.6	Analysis Date: 11/4/2024	SeqNo: 6287818	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium ND 0.20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCB-5	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216
Client ID: CCB	Batch ID: R195216	TestNo: EPA 218.6	Analysis Date: 11/4/2024	SeqNo: 6287824	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-6	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195216
Client ID: CCB	Batch ID: R195216	TestNo: EPA 218.6	Analysis Date: 11/4/2024	SeqNo: 6287829	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

RETENTION TIME SUMMARY



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RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 11/4/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.690	
CCV-2	5.690	
CCV-3	5.698	
CCV-4	5.698	
CCV-5	5.698	
CCV-6	5.698	

Average 5.695
Actual RT Window 5.615 - 5.775
Applied RT Window 5.495 - 5.895

MB-R195216	N.A.	N.A.
LCS-R195216	5.690	PASS
N069263-003A	N.A.	N.A.
N069263-003AMS	5.540	PASS
N069263-003A	N.A.	N.A.
N069263-003AMS	5.665	PASS
N069638-001A	5.640	PASS
N069638-001AMS	5.640	PASS
N069638-002A	5.656	PASS
N069638-002AMS	5.656	PASS
N069638-001ADUP	5.640	PASS
N069638-001AMSD	5.640	PASS
N069638-007A	5.690	PASS
N069638-007AMS	5.681	PASS
N069638-008A	N.A.	N.A.
N069638-008AMS	5.665	PASS
N069631-015A	N.A.	N.A.
N069631-015AMS	5.690	PASS
N069638-003A	N.A.	N.A.
N069638-003AMS	N.A.	N.A.
N069638-003A	N.A.	N.A.
N069638-003AMS	5.640	PASS

Reviewed by:

d/Rocha 12/19/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 11/4/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.690	
CCV-2	5.690	
CCV-3	5.698	
CCV-4	5.698	
CCV-5	5.698	
CCV-6	5.698	

Average 5.695
Actual RT Window 5.615 - 5.775
Applied RT Window 5.495 - 5.895

N069638-009A	N.A.	N.A.
N069638-009AMS	5.506	PASS
N069638-009AMS	5.665	PASS
N069638-009A	N.A.	N.A.
N069638-004A	N.A.	N.A.
N069638-004AMS	5.698	PASS
N069638-005A	N.A.	N.A.
N069638-005AMS	5.690	PASS
N069638-006A	N.A.	N.A.
N069638-006AMS	5.698	PASS
N069638-010A	N.A.	N.A.
N069638-010AMS	5.690	PASS
N069234-002A	5.690	PASS
N069234-002AMS	5.690	PASS
N069234-007A	5.673	PASS
N069234-007AMS	5.673	PASS
N069234-016A	5.690	PASS
N069234-016AMS	5.690	PASS
N069306-004A	5.690	PASS
N069306-004AMS	5.690	PASS
N069306-005A	5.690	PASS
N069306-005AMS	5.690	PASS

Reviewed by:

d/Recha 12/19/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 11/4/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.690	
CCV-2	5.690	
CCV-3	5.698	
CCV-4	5.698	
CCV-5	5.698	
CCV-6	5.698	

Average 5.695
Actual RT Window 5.615 - 5.775
Applied RT Window 5.495 - 5.895

N069306-008A	5.690	PASS
N069306-008AMS	5.690	PASS
N069306-014A	5.681	PASS
N069306-014AMS	5.681	PASS
N069306-014AMSD	5.681	PASS

Reviewed by:

d/Rocha 12/19/2024

MDL STUDY



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METHOD DETECTION LIMIT (Spiked)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): 10/4/2022, 11/15/2022, 1/4/2023, 3/1/2023, 4/4/2023, 5/16/2023, 7/10/2023, 8/2/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: ug/L

Instrument Name: **IC-07**

Datafile 221004A D12 221115A D12 230104A D11 230301C D14 230404A D11 230516A D11 230710A D12 230802A D11

Analyte	#1	#2	#3	#4	#5	#6	#7	#8	Spike Conc., ug/L	SD	t _(n-1) value	MDLs	PQL
Hexavalent Chromium	0.199	0.194	0.169	0.190	0.167	0.194	0.201	0.185	0.20	0.0129	2.998	0.0387	0.20

METHOD DETECTION LIMIT (Blanks)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Instrument Name: **IC-07**

Analyte	MDLb	#of Records
Hexavalent Chromium	0.00	166

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

RAW DATA



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INITIAL CALIBRATION



ASSET LABORATORIES
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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	ICV	ICV	1	Hexavalent Chromium	10/28/24 10:49 AM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/28/24 10:59 AM	Reported
11	ICB	ICB	1	Hexavalent Chromium	10/28/24 11:08 AM	Reported
12	MB-R194895	MBLK	1	Hexavalent Chromium	10/28/24 11:17 AM	Reported
13	LCS-R194895	LCS	1	Hexavalent Chromium	10/28/24 11:27 AM	Reported
14	N069445-001A	SAMP	1	Hexavalent Chromium	10/28/24 11:36 AM	Reported
15	N069445-001AMS	MS	1	Hexavalent Chromium	10/28/24 11:46 AM	Reported
16	N069445-001AMSD	MSD	1	Hexavalent Chromium	10/28/24 11:55 AM	Reported
17	N069445-001ADUP	DUP	1	Hexavalent Chromium	10/28/24 12:05 PM	Reported
18	N069453-001A	SAMP	1	Hexavalent Chromium	10/28/24 12:14 PM	Reported
19	N069453-002A	SAMP	1	Hexavalent Chromium	10/28/24 12:24 PM	Reported
20	N069453-003A	SAMP	1	Hexavalent Chromium	10/28/24 12:33 PM	Reported
21	N069453-004A	SAMP	1	Hexavalent Chromium	10/28/24 12:43 PM	Reported
22	CCV-1	CCV1	1	Hexavalent Chromium	10/28/24 12:52 PM	Reported
23	CCB-1	CCB	1	Hexavalent Chromium	10/28/24 1:02 PM	Reported
24	N069444-001A	SAMP	1	Hexavalent Chromium	10/28/24 1:11 PM	Reported
25	N069444-001AMS	MS	1	Hexavalent Chromium	10/28/24 1:20 PM	Reported
26	N069444-002A	SAMP	1	Hexavalent Chromium	10/28/24 1:30 PM	Reported
27	N069444-002AMS	MS	1	Hexavalent Chromium	10/28/24 1:39 PM	Reported
28	N069444-003A	SAMP	1	Hexavalent Chromium	10/28/24 1:49 PM	Not Reported
29	N069444-003AMS	MS	1	Hexavalent Chromium	10/28/24 1:58 PM	Not Reported
30	N069444-001A	SAMP	5	Hexavalent Chromium	10/28/24 2:08 PM	Not Reported
31	N069444-001AMS	MS	5	Hexavalent Chromium	10/28/24 2:17 PM	Not Reported
32	N069444-002A	SAMP	5	Hexavalent Chromium	10/28/24 2:27 PM	Not Reported
33	N069444-002AMS	MS	5	Hexavalent Chromium	10/28/24 2:36 PM	Not Reported
34	CCV-2	CCV	1	Hexavalent Chromium	10/28/24 2:46 PM	Reported
35	CCB-2	CCB	1	Hexavalent Chromium	10/28/24 2:55 PM	Reported
36	N069444-003A	SAMP	5	Hexavalent Chromium	10/28/24 3:04 PM	Reported
37	N069444-003AMS	MS	5	Hexavalent Chromium	10/28/24 3:14 PM	Reported
38	N069233-009A	SAMP	5	Hexavalent Chromium	10/28/24 3:23 PM	Not Reported
39	N069233-009AMS	MS	5	Hexavalent Chromium	10/28/24 3:33 PM	Not Reported
40	N069233-015A	SAMP	5	Hexavalent Chromium	10/28/24 3:42 PM	Not Reported
41	N069233-015AMS	MS	5	Hexavalent Chromium	10/28/24 3:52 PM	Not Reported
42	CCV-3	CCV1	1	Hexavalent Chromium	10/28/24 4:01 PM	Reported

INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	CCB-3	CCB	1	Hexavalent Chromium	10/28/24 4:11 PM	Reported
44	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 4:20 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241028A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	28/Oct/24 16:50:54
No. of Injections:	47	Updated By:	ics 5000

Injection Details

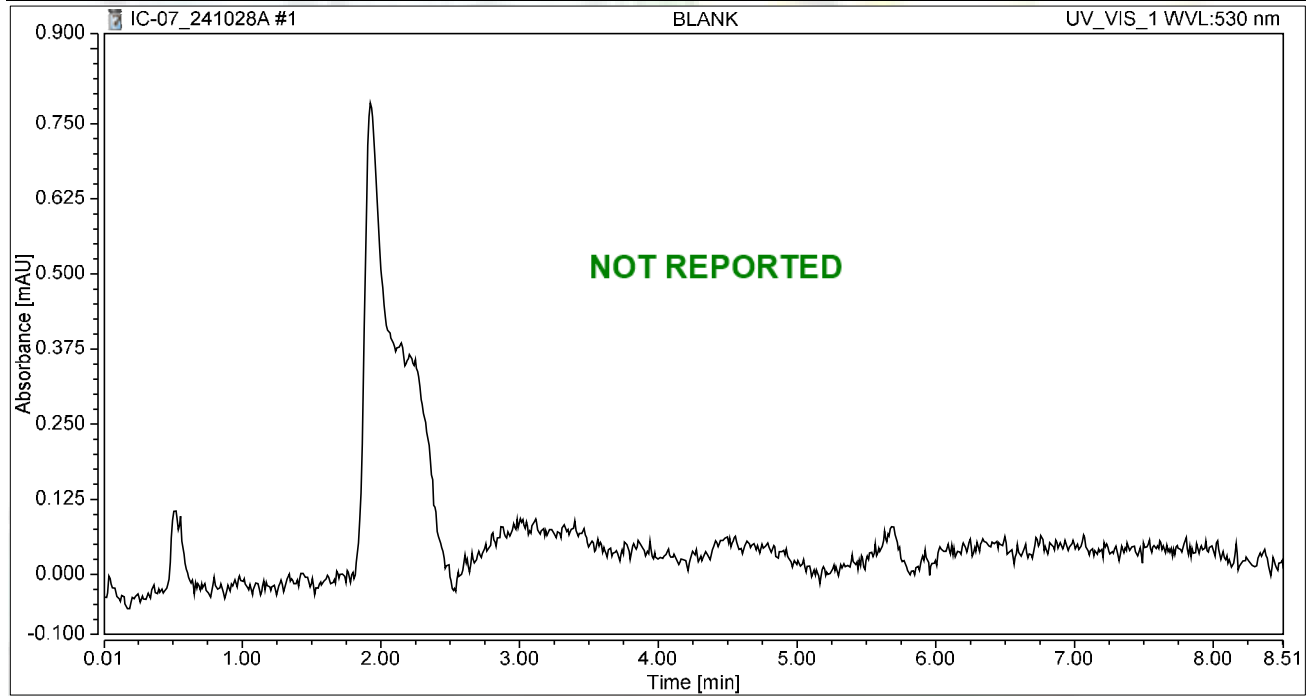
No.	Injection Name	Position	Volume μ L	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	ICV,ICV,1,	9	1000	Unknown		10/28/2024 10:49	Finished	ICV @5ppb, IWST-240729B
10	PQL @0.2ppb,CCV2,	10	1000	Unknown		10/28/2024 10:59	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		10/28/2024 11:08	Finished	ICB R240926A
12	MB-H2O,MBLK,1,	12	1000	Unknown		10/28/2024 11:17	Finished	MB R240926A
13	LCS-H2O,LCS,1,	13	1000	Unknown		10/28/2024 11:27	Finished	LCS @5ppb, IWST-240729B
14	N069445-001A,SAMP	14	1000	Unknown		10/28/2024 11:36	Finished	SAMP,10 mL
15	N069445-001AMS,M	15	1000	Unknown		10/28/2024 11:46	Finished	MS (1ppb), IWST-240729B,10r
16	N069445-001AMSD,N	16	1000	Unknown		10/28/2024 11:55	Finished	MSD (1ppb), IWST-240729B,10r
17	N069445-001ADUP,D	17	1000	Unknown		10/28/2024 12:05	Finished	DUP,10 mL
18	N069453-001A,SAMP	18	1000	Unknown		10/28/2024 12:14	Finished	SAMP,10 mL
19	N069453-002A,SAMP	19	1000	Unknown		10/28/2024 12:24	Finished	SAMP,10 mL
20	N069453-003A,SAMP	20	1000	Unknown		10/28/2024 12:33	Finished	SAMP,10 mL
21	N069453-004A,SAMP	21	1000	Unknown		10/28/2024 12:43	Finished	SAMP,10 mL
22	CCV-1,CCV1,1,	22	1000	Unknown		10/28/2024 12:52	Finished	CCV @10ppb, IWST-240729A
23	CCB-1,CCB,1,	23	1000	Unknown		10/28/2024 13:02	Finished	CCB R240926A
24	N069444-001A,SAMP	24	1000	Unknown		10/28/2024 13:11	Finished	SAMP,10 mL
25	N069444-001AMS,M	25	1000	Unknown		10/28/2024 13:20	Finished	MS (1ppb), IWST-240729B,10r
26	N069444-002A,SAMP	26	1000	Unknown		10/28/2024 13:30	Finished	SAMP,10 mL
27	N069444-002AMS,M	27	1000	Unknown		10/28/2024 13:39	Finished	MS (1ppb), IWST-240729B,10r
28	N069444-003A,SAMP	28	1000	Unknown		10/28/2024 13:49	Finished	SAMP,10 mL
29	N069444-003AMS,M	29	1000	Unknown		10/28/2024 13:58	Finished	MS (1ppb), IWST-240729B,10r
30	N069444-001A,SAMP	30	1000	Unknown		10/28/2024 14:08	Finished	SAMP,2>10 mL
31	N069444-001AMS,M	31	1000	Unknown		10/28/2024 14:17	Finished	MS (1ppb), IWST-240729B,2>10
32	N069444-002A,SAMP	32	1000	Unknown		10/28/2024 14:27	Finished	SAMP,2>10 mL
33	N069444-002AMS,M	33	1000	Unknown		10/28/2024 14:36	Finished	MS (1ppb), IWST-240729B,2>10
34	CCV-2,CCV,1,	34	1000	Unknown		10/28/2024 14:46	Finished	CCV @5ppb, IWST-240729A
35	CCB-2,CCB,1,	35	1000	Unknown		10/28/2024 14:55	Finished	CCB R240926A
36	N069444-003A,SAMP	36	1000	Unknown		10/28/2024 15:04	Finished	SAMP,2>10 mL
37	N069444-003AMS,M	37	1000	Unknown		10/28/2024 15:14	Finished	MS (1ppb), IWST-240729B,2>10
38	N069233-009A,SAMP	38	1000	Unknown		10/28/2024 15:23	Finished	SAMP,2>10 mL
39	N069233-009AMS,M	39	1000	Unknown		10/28/2024 15:33	Finished	MS (1ppb), IWST-240729B,2>10
40	N069233-015A,SAMP	40	1000	Unknown		10/28/2024 15:42	Finished	SAMP,2>10 mL
41	N069233-015AMS,M	41	1000	Unknown		10/28/2024 15:52	Finished	MS (1ppb), IWST-240729B,2>10
42	CCV-3,CCV1,1,	42	1000	Unknown		10/28/2024 16:01	Finished	CCV @10ppb, IWST-240729A
43	CCB-3,CCB,1,	43	1000	Unknown		10/28/2024 16:11	Finished	CCB R240926A
44	BLANK	44	1000	Unknown		10/28/2024 16:20	Finished	BLANK
45	SHUTDOWN	45	1000	Unknown		10/28/2024 16:30	Finished	
46	Eluent: R241025A	46	1000	Unknown		n.a.	Finished	
47	PCR: R241025B	47	1000	Unknown		n.a.	Finished	

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 09:30	Sample Weight:	1.0000

Chromatogram



Integration Results

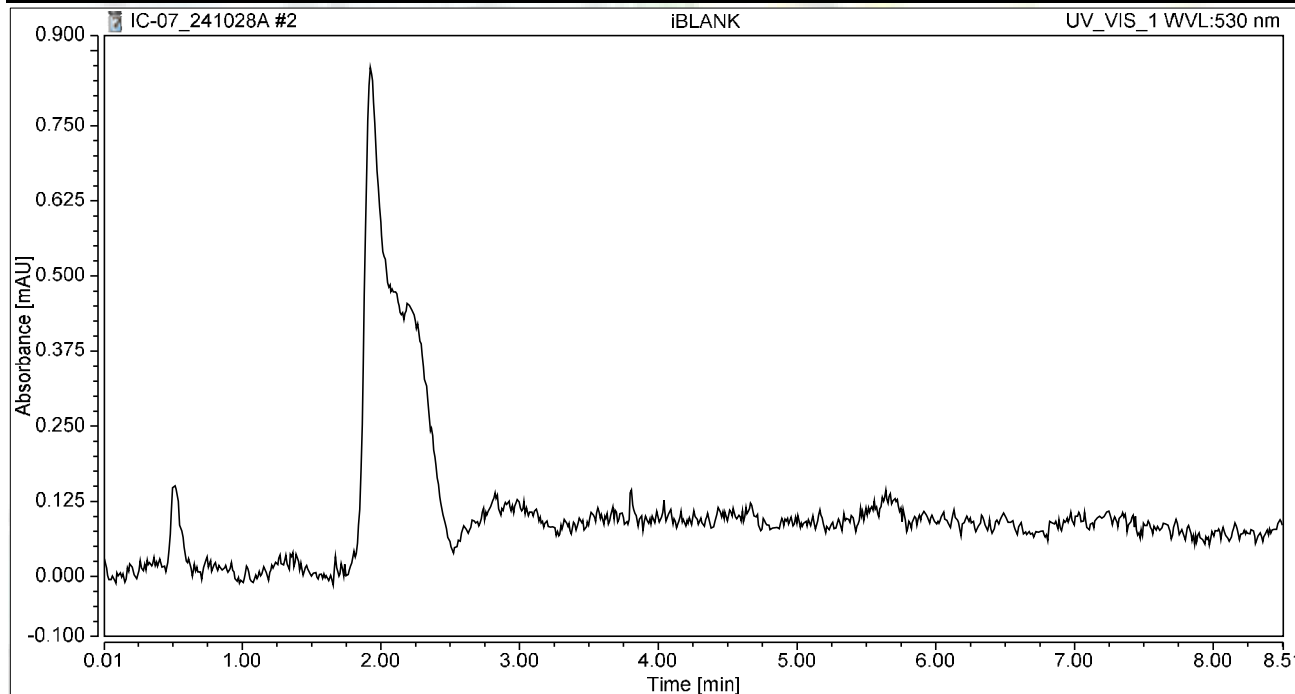
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	iBLANK	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 09:43	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

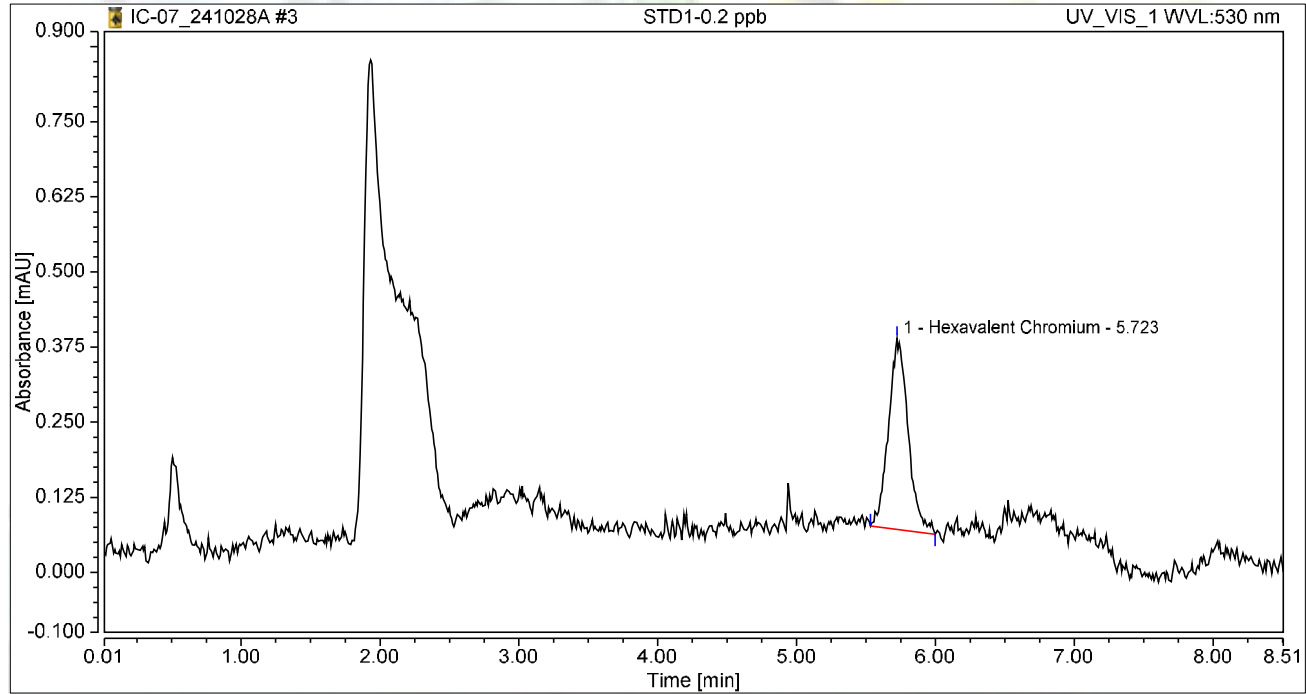
Nancy 11/05/2024

Chromatogram and Results

Injection Details

Injection Name:	STD1-0.2 ppb	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	01	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 09:52	Sample Weight:	1.0000

Chromatogram



Integration Results

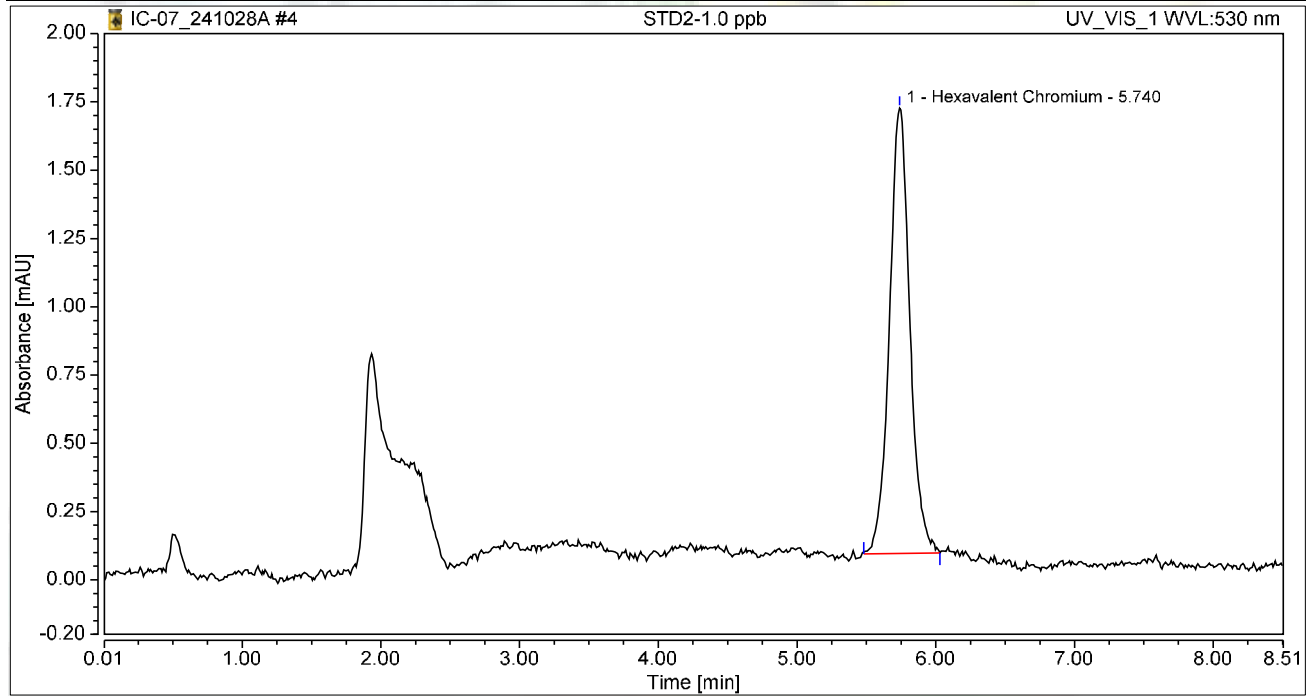
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.053	0.318	100.00	100.00	0.1857
Total:			0.053	0.318	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD2-1.0 ppb	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	02	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:02	Sample Weight:	1.0000

Chromatogram



Integration Results

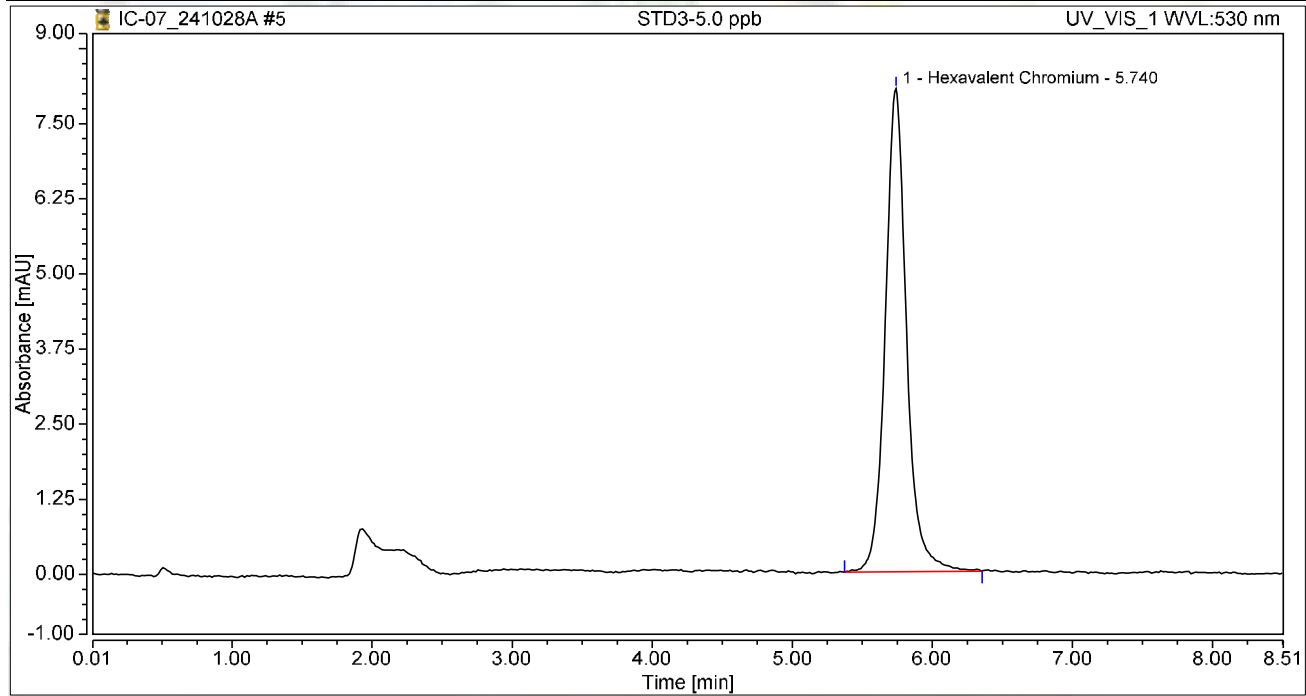
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	0.278	1.631	100.00	100.00	0.9794
Total:			0.278	1.631	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD3-5.0 ppb	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	03	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:11	Sample Weight:	1.0000

Chromatogram



Integration Results

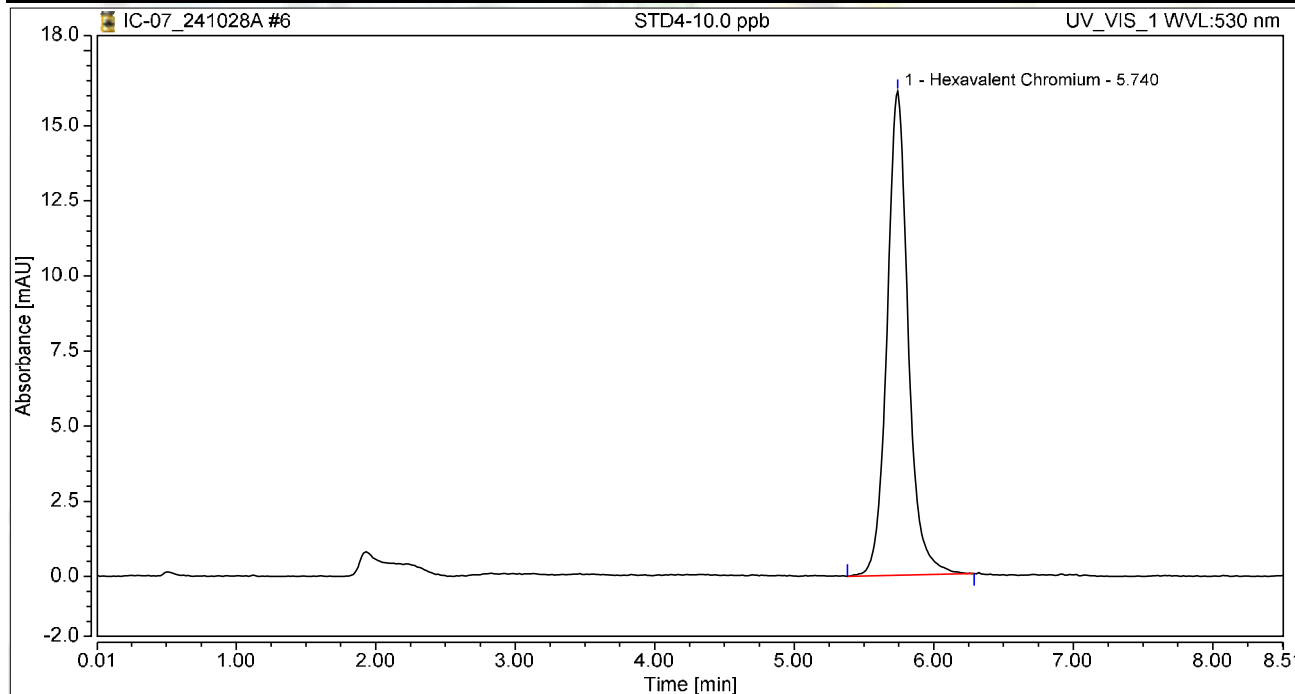
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	1.420	8.039	100.00	100.00	5.0028
Total:			1.420	8.039	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD4-10.0 ppb	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	04	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:21	Sample Weight:	1.0000

Chromatogram



Integration Results

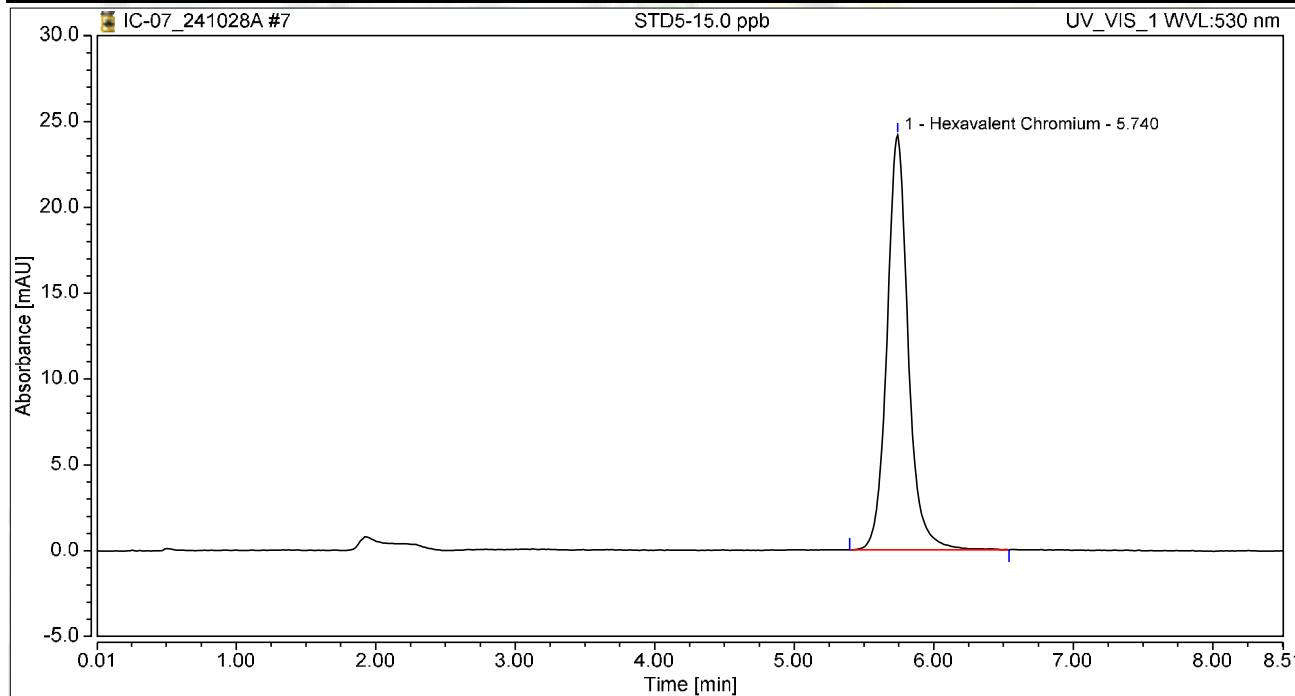
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	2.824	16.106	100.00	100.00	9.9507
Total:			2.824	16.106	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD5-15.0 ppb	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	05	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:30	Sample Weight:	1.0000

Chromatogram



Integration Results

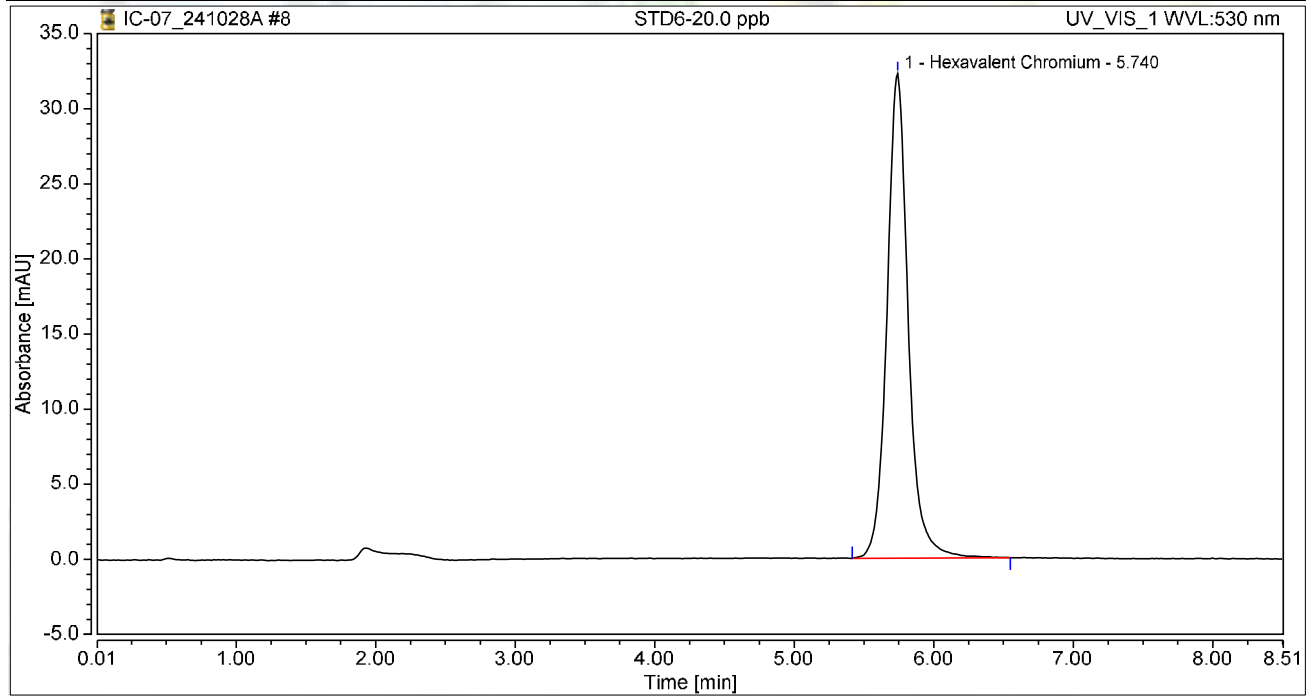
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	4.255	24.168	100.00	100.00	14.9966
Total:			4.255	24.168	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD6-20.0 ppb	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	06	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:40	Sample Weight:	1.0000

Chromatogram



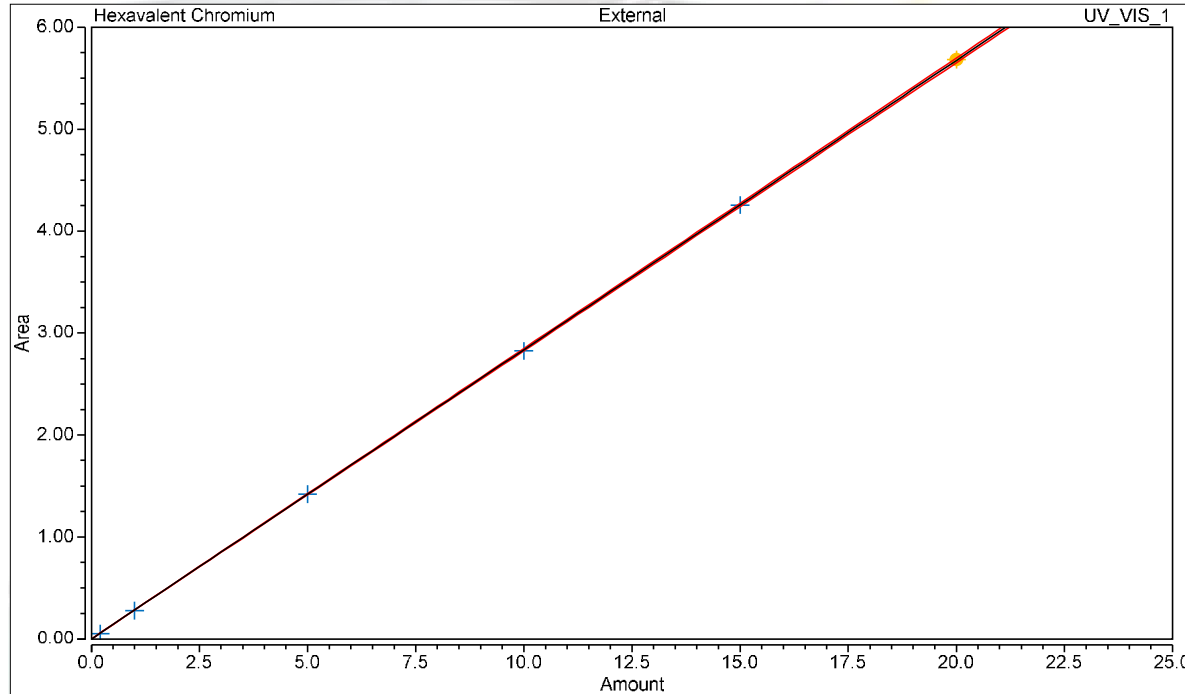
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	5.683	32.257	100.00	100.00	20.0277
Total:			5.683	32.257	100.00	100.00	

Initial Calibration Summary

Calibration Details		Hexavalent Chromium	
Calibration Type	Lin	Offset (C0)	0.0000
Evaluation Type	Area	Slope (C1)	0.2838
Number of Calibration Points	6	Curve (C2)	0.0000
Number of disabled Calibration Points	0	R-Square	0.99999

Calibration Plot Hexavalent Chromium



Calibration Results Hexavalent Chromium

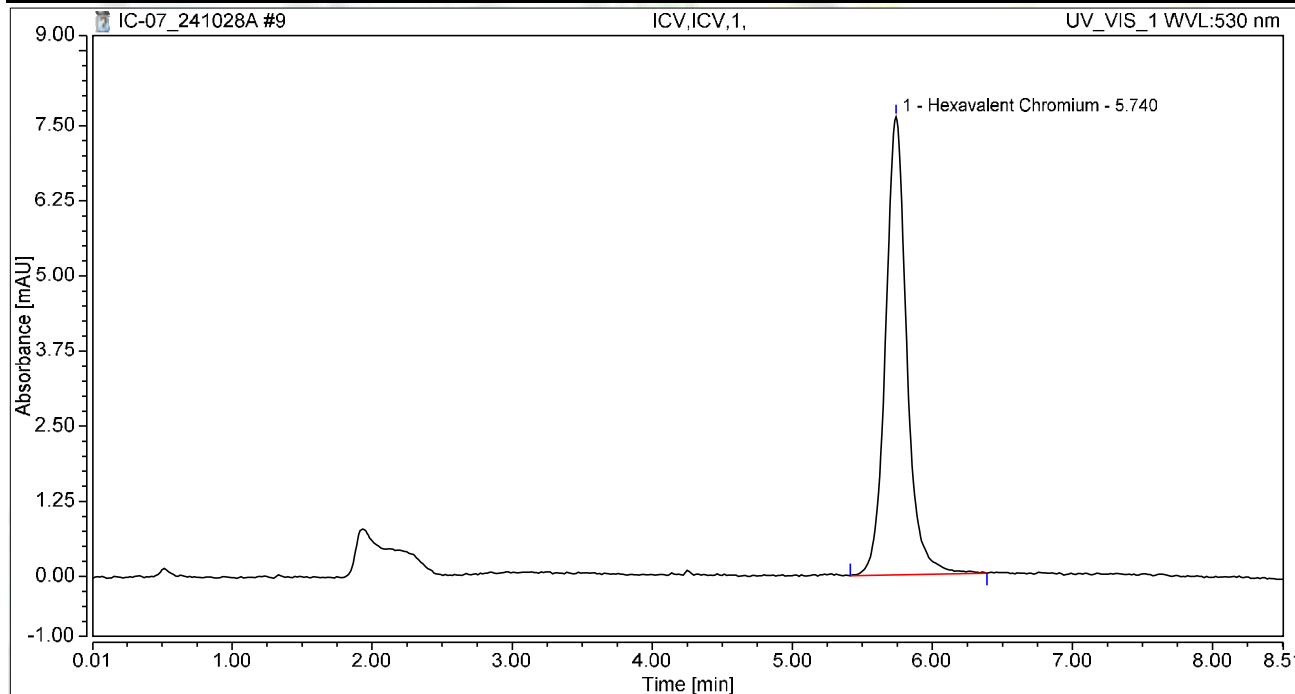
No.	Injection Name	Calibration Level	X Value	Y Value	Area mAU*min	Height mAU
3	STD1-0.2 ppb	01	0.2000	0.0527	0.053	0.318
4	STD2-1.0 ppb	02	1.0000	0.2779	0.278	1.631
5	STD3-5.0 ppb	03	5.0000	1.4196	1.420	8.039
6	STD4-10.0 ppb	04	10.0000	2.8235	2.824	16.106
7	STD5-15.0 ppb	05	15.0000	4.2553	4.255	24.168
8	STD6-20.0 ppb	06	20.0000	5.6829	5.683	32.257

Chromatogram and Results

Injection Details

Injection Name:	ICV,ICV,1,	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:49	Sample Weight:	1.0000

Chromatogram



Integration Results

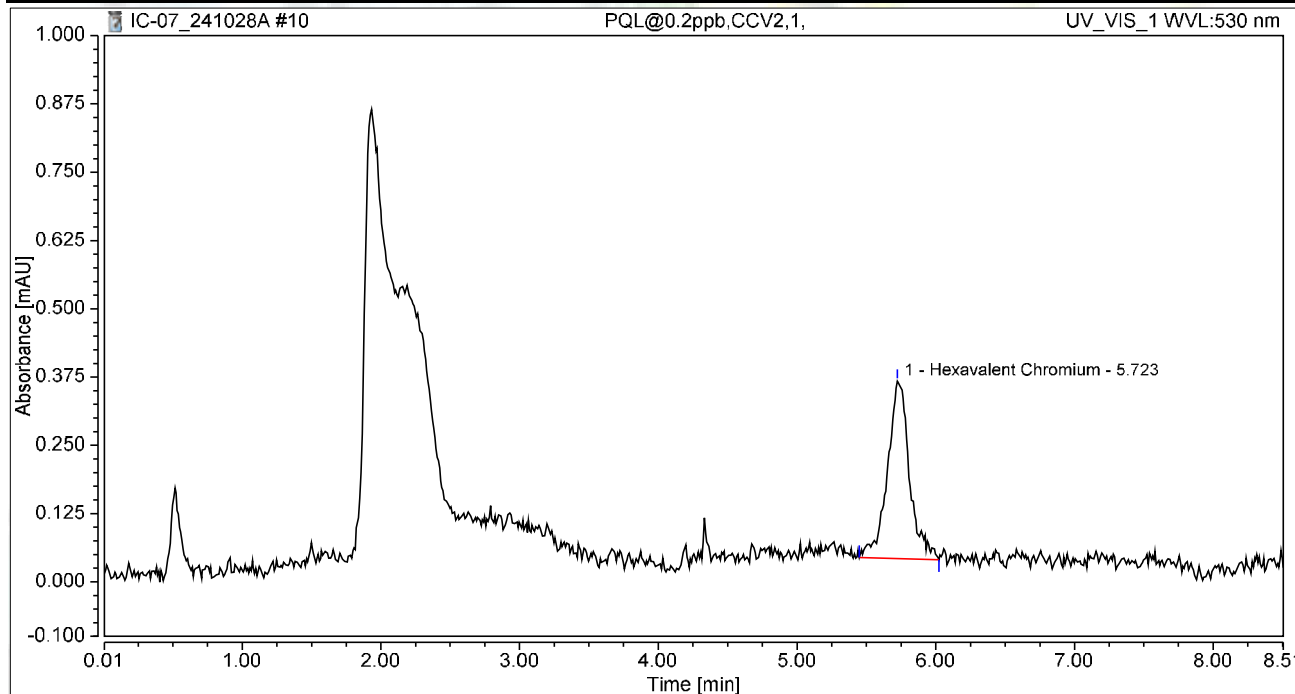
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	1.342	7.624	100.00	100.00	4.7300
Total:			1.342	7.624	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:59	Sample Weight:	1.0000

Chromatogram



Integration Results

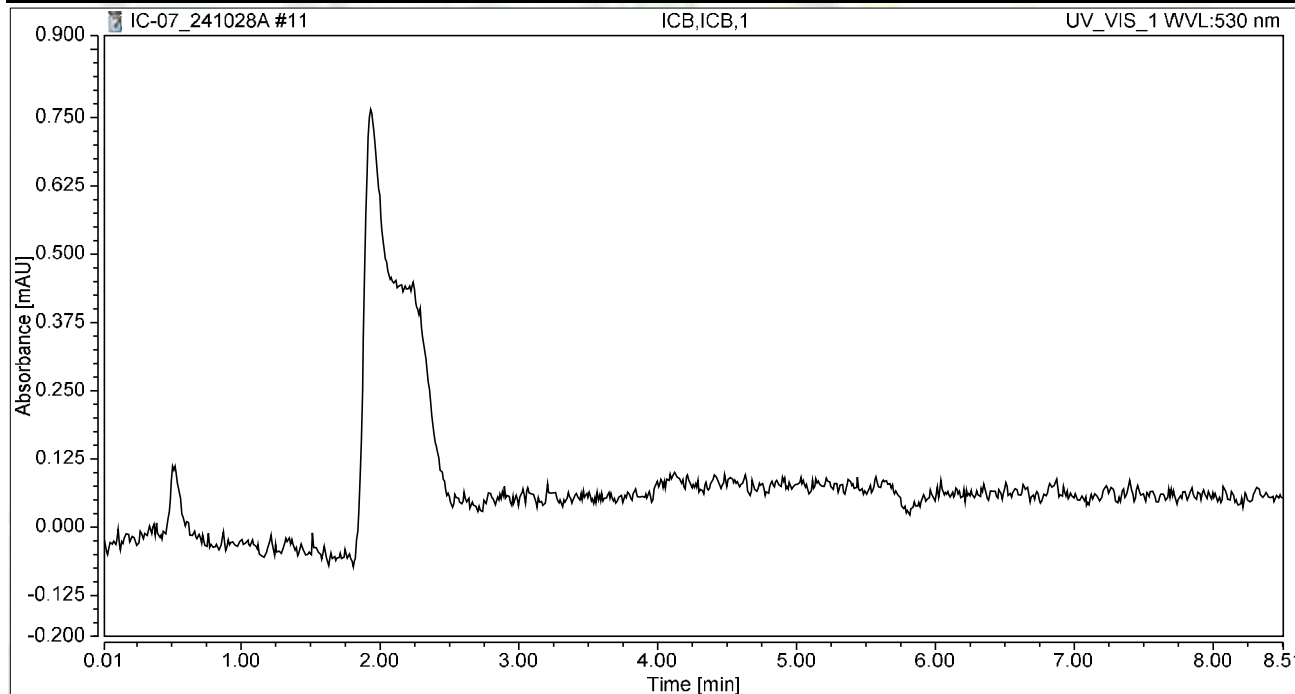
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.060	0.325	100.00	100.00	0.2110
Total:			0.060	0.325	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	ICB,ICB,1	Run Time (min):	8.49
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 11:08	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	



RAW DATA



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"Serving Clients with Passion and Professionalism"

INJECTION LOG: 241104A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	11/04/24 10:47 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	11/04/24 11:01 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	11/04/24 11:10 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	11/04/24 11:20 AM	Reported
13	MB-R195216	MBLK	1	Hexavalent Chromium	11/04/24 11:29 AM	Reported
14	LCS-R195216	LCS	1	Hexavalent Chromium	11/04/24 11:39 AM	Reported
15	N069263-003A	SAMP	1	Hexavalent Chromium	11/04/24 12:35 PM	Reported
16	N069263-003AMS	MS	1	Hexavalent Chromium	11/04/24 12:45 PM	Reported
17	N069263-003A	SAMP	5	Hexavalent Chromium	11/04/24 12:54 PM	Not Reported
18	N069263-003AMS	MS	5	Hexavalent Chromium	11/04/24 1:04 PM	Not Reported
19	N069638-001A	SAMP	5	Hexavalent Chromium	11/04/24 1:13 PM	Reported
20	N069638-001AMS	MS	5	Hexavalent Chromium	11/04/24 1:23 PM	Reported
21	N069638-002A	SAMP	5	Hexavalent Chromium	11/04/24 1:32 PM	Reported
22	N069638-002AMS	MS	5	Hexavalent Chromium	11/04/24 1:42 PM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	11/04/24 1:51 PM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	11/04/24 2:01 PM	Reported
25	N069638-001ADUP	DUP	5	Hexavalent Chromium	11/04/24 2:43 PM	Reported
26	N069638-001AMSD	MSD	5	Hexavalent Chromium	11/04/24 2:53 PM	Reported
27	N069638-007A	SAMP	1	Hexavalent Chromium	11/04/24 3:03 PM	Reported
28	N069638-007AMS	MS	1	Hexavalent Chromium	11/04/24 3:12 PM	Reported
29	N069638-008A	SAMP	1	Hexavalent Chromium	11/04/24 3:22 PM	Reported
30	N069638-008AMS	MS	1	Hexavalent Chromium	11/04/24 3:31 PM	Reported
31	N069631-015A	SAMP	1	Hexavalent Chromium	11/04/24 3:41 PM	Reported
32	N069631-015AMS	MS	1	Hexavalent Chromium	11/04/24 3:50 PM	Reported
33	N069638-003A	SAMP	1	Hexavalent Chromium	11/04/24 4:00 PM	Not Reported
34	N069638-003AMS	MS	1	Hexavalent Chromium	11/04/24 4:09 PM	Not Reported
35	CCV-3	CCV	1	Hexavalent Chromium	11/04/24 4:19 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	11/04/24 4:28 PM	Reported
37	N069638-003A	SAMP	5	Hexavalent Chromium	11/04/24 4:37 PM	Reported
38	N069638-003AMS	MS	5	Hexavalent Chromium	11/04/24 4:47 PM	Reported
39	N069638-009A	SAMP	1	Hexavalent Chromium	11/04/24 4:56 PM	Not Reported
40	N069638-009AMS	MS	1	Hexavalent Chromium	11/04/24 5:06 PM	Not Reported
41	N069638-009AMS	MS	5	Hexavalent Chromium	11/04/24 5:15 PM	Reported
42	N069638-009A	SAMP	5	Hexavalent Chromium	11/04/24 5:25 PM	Reported

INJECTION LOG: 241104A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069638-004A	SAMP	1	Hexavalent Chromium	11/04/24 5:34 PM	Reported
44	N069638-004AMS	MS	1	Hexavalent Chromium	11/04/24 5:44 PM	Reported
45	N069638-005A	SAMP	1	Hexavalent Chromium	11/04/24 5:53 PM	Reported
46	N069638-005AMS	MS	1	Hexavalent Chromium	11/04/24 6:03 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	11/04/24 6:12 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	11/04/24 6:22 PM	Reported
49	N069638-006A	SAMP	1	Hexavalent Chromium	11/04/24 6:31 PM	Reported
50	N069638-006AMS	MS	1	Hexavalent Chromium	11/04/24 6:40 PM	Reported
51	N069638-010A	SAMP	1	Hexavalent Chromium	11/04/24 6:50 PM	Reported
52	N069638-010AMS	MS	1	Hexavalent Chromium	11/04/24 6:59 PM	Reported
53	N069234-002A	SAMP	1	Hexavalent Chromium	11/04/24 7:11 PM	Not Reported
54	N069234-002AMS	MS	1	Hexavalent Chromium	11/04/24 7:21 PM	Not Reported
55	N069234-007A	SAMP	1	Hexavalent Chromium	11/04/24 7:30 PM	Not Reported
56	N069234-007AMS	MS	1	Hexavalent Chromium	11/04/24 7:40 PM	Not Reported
57	N069234-016A	SAMP	1	Hexavalent Chromium	11/04/24 7:49 PM	Not Reported
58	N069234-016AMS	MS	1	Hexavalent Chromium	11/04/24 7:59 PM	Not Reported
59	CCV-5	CCV	1	Hexavalent Chromium	11/04/24 8:08 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	11/04/24 8:18 PM	Reported
61	N069306-004A	SAMP	1	Hexavalent Chromium	11/04/24 8:27 PM	Not Reported
62	N069306-004AMS	MS	1	Hexavalent Chromium	11/04/24 8:37 PM	Not Reported
63	N069306-005A	SAMP	1	Hexavalent Chromium	11/04/24 8:46 PM	Not Reported
64	N069306-005AMS	MS	1	Hexavalent Chromium	11/04/24 8:55 PM	Not Reported
65	N069306-008A	SAMP	1	Hexavalent Chromium	11/04/24 9:05 PM	Not Reported
66	N069306-008AMS	MS	1	Hexavalent Chromium	11/04/24 9:14 PM	Not Reported
67	N069306-014A	SAMP	1	Hexavalent Chromium	11/04/24 9:24 PM	Reported
68	N069306-014AMS	MS	1	Hexavalent Chromium	11/04/24 9:33 PM	Reported
69	N069306-014AMSD	MSD	1	Hexavalent Chromium	11/04/24 9:43 PM	Reported
70	CCV-6	CCV1	1	Hexavalent Chromium	11/04/24 9:52 PM	Reported
71	CCB-6	CCB	1	Hexavalent Chromium	11/04/24 10:02 PM	Reported
72	BLANK	BLANK	1	Hexavalent Chromium	11/04/24 10:11 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241104A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	04/Nov/24 22:41:56
No. of Injections:	75	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	BLANK	1	1000	Unknown		11/04/2024 10:47	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		11/04/2024 11:01	Finished	CCV @5ppb, IWST-240729A
11	PQL @0.2ppb,CCV2,	3	1000	Unknown		11/04/2024 11:10	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		11/04/2024 11:20	Finished	CCB R241001A
13	MB-H2O,MBLK,1,	5	1000	Unknown		11/04/2024 11:29	Finished	MB R241001A
14	LCS-H2O,LCS,1,	6	1000	Unknown		11/04/2024 11:39	Finished	LCS @5ppb, IWST-240729B
15	N069263-003A,SAMP	2	1000	Unknown		11/04/2024 12:35	Finished	SAMP,10 mL
16	N069263-003AMS,M\$	3	1000	Unknown		11/04/2024 12:45	Finished	MS (1ppb), IWST-240729B,10r
17	N069263-003A,SAMP	4	1000	Unknown		11/04/2024 12:54	Finished	SAMP,2>10 mL
18	N069263-003AMS,M\$	5	1000	Unknown		11/04/2024 13:04	Finished	MS (1ppb), IWST-240729B,2>
19	N069638-001A,SAMP	6	1000	Unknown		11/04/2024 13:13	Finished	SAMP,2>10 mL
20	N069638-001AMS,M\$	7	1000	Unknown		11/04/2024 13:23	Finished	MS (5ppb), IWST-240729B,2>
21	N069638-002A,SAMP	8	1000	Unknown		11/04/2024 13:32	Finished	SAMP,2>10 mL
22	N069638-002AMS,M\$	9	1000	Unknown		11/04/2024 13:42	Finished	MS (5ppb), IWST-240729B,2>
23	CCV-2,CCV1,1,	10	1000	Unknown		11/04/2024 13:51	Finished	CCV @10ppb, IWST-240729A
24	CCB-2,CCB,1,	11	1000	Unknown		11/04/2024 14:01	Finished	CCB R241001A
25	N069638-001ADUP,D	1	1000	Unknown		11/04/2024 14:43	Finished	DUP,2>10 mL
26	N069638-001AMSD,I	2	1000	Unknown		11/04/2024 14:53	Finished	MSD (5ppb), IWST-240729B,2
27	N069638-007A,SAMP	3	1000	Unknown		11/04/2024 15:03	Finished	SAMP,10 mL
28	N069638-007AMS,M\$	4	1000	Unknown		11/04/2024 15:12	Finished	MS (1ppb), IWST-240729B,10r
29	N069638-008A,SAMP	5	1000	Unknown		11/04/2024 15:22	Finished	SAMP,10 mL
30	N069638-008AMS,M\$	6	1000	Unknown		11/04/2024 15:31	Finished	MS (1ppb), IWST-240729B,10r
31	N069631-015A,SAMP	7	1000	Unknown		11/04/2024 15:41	Finished	SAMP,10 mL
32	N069631-015AMS,M\$	8	1000	Unknown		11/04/2024 15:50	Finished	MS (1ppb), IWST-240729B,10r
33	N069638-003A,SAMP	9	1000	Unknown		11/04/2024 16:00	Finished	SAMP,10 mL
34	N069638-003AMS,M\$	10	1000	Unknown		11/04/2024 16:09	Finished	MS (1ppb), IWST-240729B,10r
35	CCV-3,CCV,1,	11	1000	Unknown		11/04/2024 16:19	Finished	CCV @5ppb, IWST-240729A
36	CCB-3,CCB,1,	12	1000	Unknown		11/04/2024 16:28	Finished	CCB R241001A
37	N069638-003A,SAMP	13	1000	Unknown		11/04/2024 16:37	Finished	SAMP,2>10 mL
38	N069638-003AMS,M\$	14	1000	Unknown		11/04/2024 16:47	Finished	MS (1ppb), IWST-240729B,2>
39	N069638-009A,SAMP	15	1000	Unknown		11/04/2024 16:56	Finished	SAMP,10 mL
40	N069638-009AMS,M\$	16	1000	Unknown		11/04/2024 17:06	Finished	MS (1ppb), IWST-240729B,10r
41	N069638-009A,SAMP	17	1000	Unknown		11/04/2024 17:15	Finished	SAMP,2>10 mL
42	N069638-009AMS,M\$	18	1000	Unknown		11/04/2024 17:25	Finished	MS (1ppb), IWST-240729B,2>
43	N069638-004A,SAMP	19	1000	Unknown		11/04/2024 17:34	Finished	SAMP,10 mL
44	N069638-004AMS,M\$	20	1000	Unknown		11/04/2024 17:44	Finished	MS (1ppb), IWST-240729B,10r
45	N069638-005A,SAMP	21	1000	Unknown		11/04/2024 17:53	Finished	SAMP,10 mL
46	N069638-005AMS,M\$	22	1000	Unknown		11/04/2024 18:03	Finished	MS (1ppb), IWST-240729B,10r
47	CCV-4,CCV1,1,	23	1000	Unknown		11/04/2024 18:12	Finished	CCV @10ppb, IWST-240729A
48	CCB-4,CCB,1,	24	1000	Unknown		11/04/2024 18:22	Finished	CCB R241001A
49	N069638-006A,SAMP	25	1000	Unknown		11/04/2024 18:31	Finished	SAMP,10 mL
50	N069638-006AMS,M\$	26	1000	Unknown		11/04/2024 18:40	Finished	MS (1ppb), IWST-240729B,10r
51	N069638-010A,SAMP	27	1000	Unknown		11/04/2024 18:50	Finished	SAMP,10 mL
52	N069638-010AMS,M\$	28	1000	Unknown		11/04/2024 18:59	Finished	MS (5ppb), IWST-240729B,10r
53	N069234-002A,SAMP	29	1000	Unknown		11/04/2024 19:11	Finished	SAMP,10 mL
54	N069234-002AMS,M\$	30	1000	Unknown		11/04/2024 19:21	Finished	MS (5ppb), IWST-240729B,10r
55	N069234-007A,SAMP	31	1000	Unknown		11/04/2024 19:30	Finished	SAMP,10 mL
56	N069234-007AMS,M\$	32	1000	Unknown		11/04/2024 19:40	Finished	MS (1ppb), IWST-240729B,10r
57	N069234-016A,SAMP	33	1000	Unknown		11/04/2024 19:49	Finished	SAMP,10 mL
58	N069234-016AMS,M\$	34	1000	Unknown		11/04/2024 19:59	Finished	MS (5ppb), IWST-240729B,10r
59	CCV-5,CCV,1,	35	1000	Unknown		11/04/2024 20:08	Finished	CCV @5ppb, IWST-240729A
60	CCB-5,CCB,1,	36	1000	Unknown		11/04/2024 20:18	Finished	CCB R241001A

61	N069306-004A,SAMF	37	1000	Unknown	11/04/2024 20:27	Finished	SAMP,10 mL
62	N069306-004AMS,M\$	38	1000	Unknown	11/04/2024 20:37	Finished	MS (5ppb), IWST-240729B,10r
63	N069306-005A,SAMF	39	1000	Unknown	11/04/2024 20:46	Finished	SAMP,10 mL
64	N069306-005AMS,M\$	40	1000	Unknown	11/04/2024 20:55	Finished	MS (5ppb), IWST-240729B,10r
65	N069306-008A,SAMF	41	1000	Unknown	11/04/2024 21:05	Finished	SAMP,10 mL
66	N069306-008AMS,M\$	42	1000	Unknown	11/04/2024 21:14	Finished	MS (1ppb), IWST-240729B,10r
67	N069306-014A,SAMF	43	1000	Unknown	11/04/2024 21:24	Finished	SAMP,10 mL
68	N069306-014AMS,M\$	44	1000	Unknown	11/04/2024 21:33	Finished	MS (1ppb), IWST-240729B,10r
69	N069306-014AMSD,N	45	1000	Unknown	11/04/2024 21:43	Finished	MSD (1ppb), IWST-240729B,11
70	CCV-6,CCV1,1,	46	1000	Unknown	11/04/2024 21:52	Finished	CCV @10ppb, IWST-240729A
71	CCB-6,CCB,1,	47	1000	Unknown	11/04/2024 22:02	Finished	CCB R241001A
72	BLANK	48	1000	Unknown	11/04/2024 22:11	Finished	BLANK
73	SHUTDOWN	49	1000	Unknown	11/04/2024 22:21	Finished	
74	Eluent: R241101A	50	1000	Unknown	n.a.	Finished	
75	PCR: R241101B	51	1000	Unknown	n.a.	Finished	

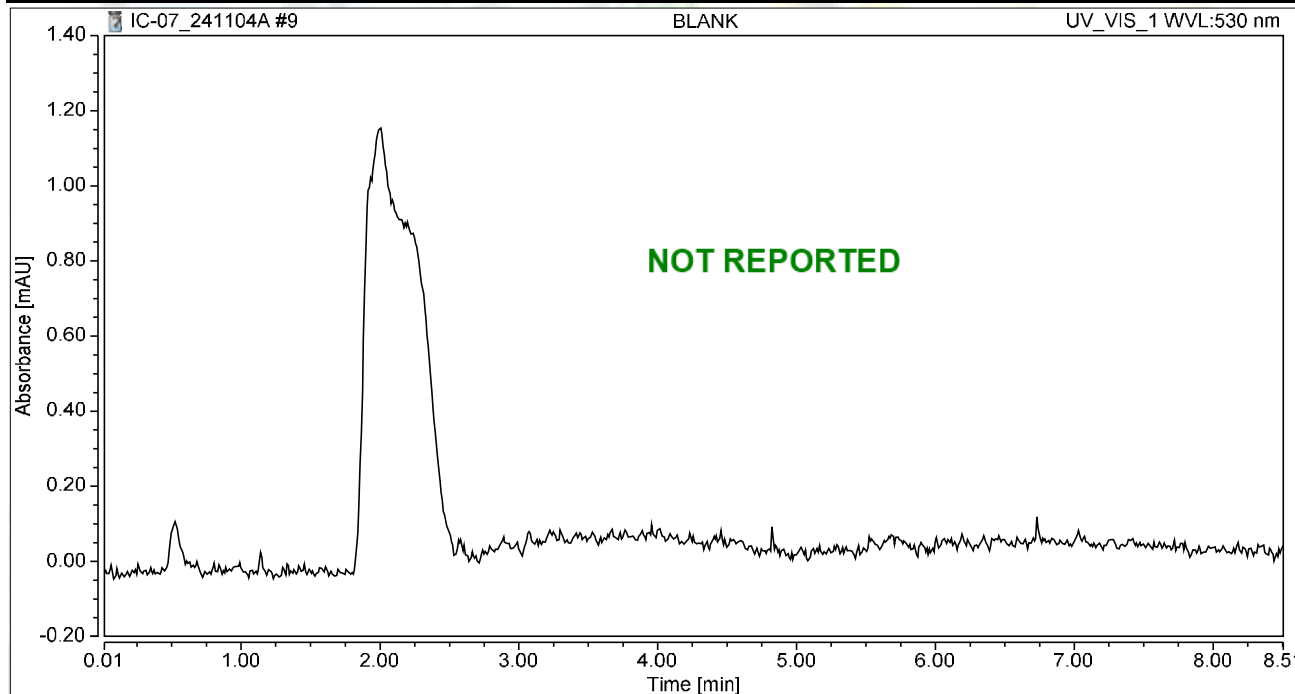


Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 10:47	Sample Weight:	1.0000

Chromatogram



Integration Results

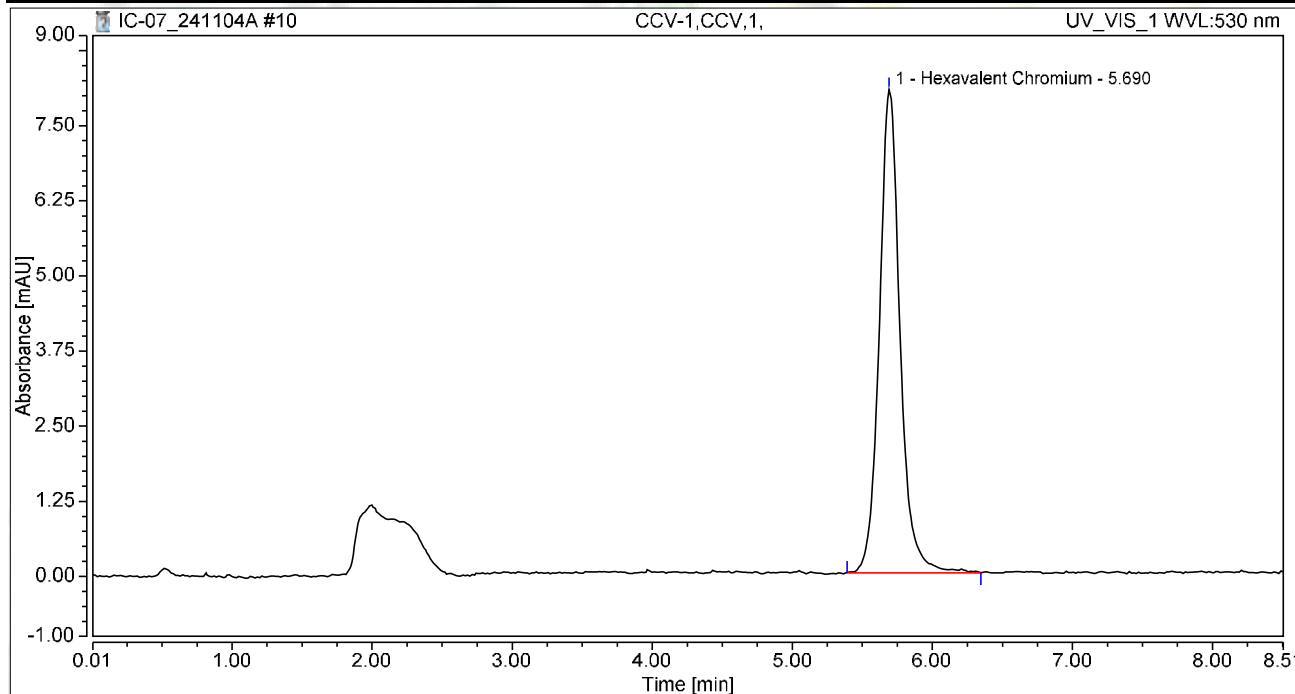
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-1,CCV,1,	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 11:01	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	1.382	8.043	100.00	100.00	4.8702
Total:			1.382	8.043	100.00	100.00	

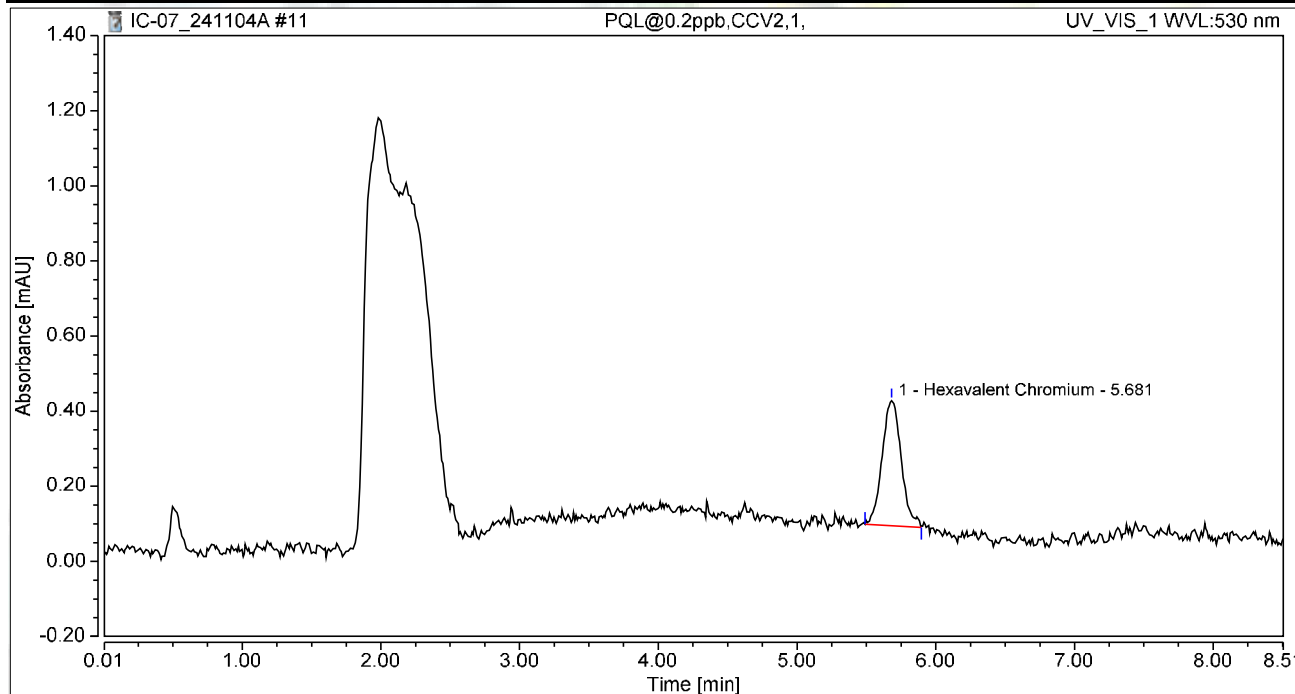
Nancy 11/05/2024

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 11:10	Sample Weight:	1.0000

Chromatogram



Integration Results

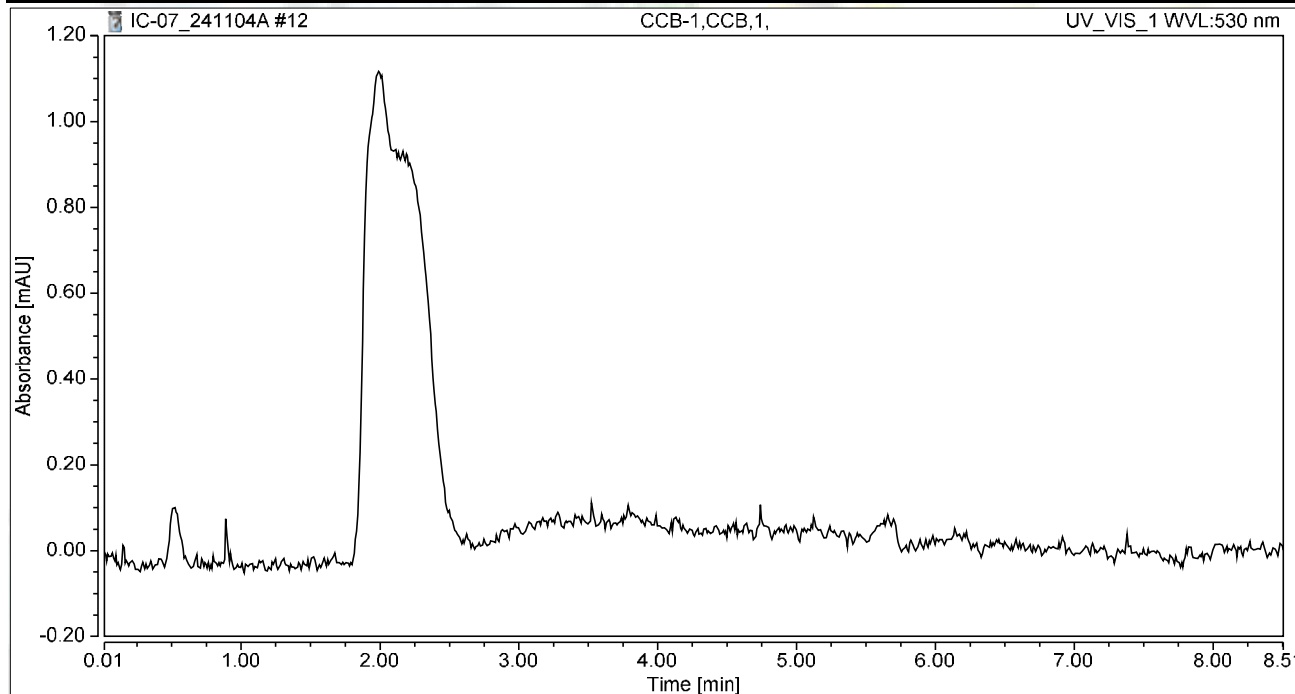
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.053	0.333	100.00	100.00	0.1884
Total:			0.053	0.333	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-1,CCB,1,	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 11:20	Sample Weight:	1.0000

Chromatogram



Integration Results

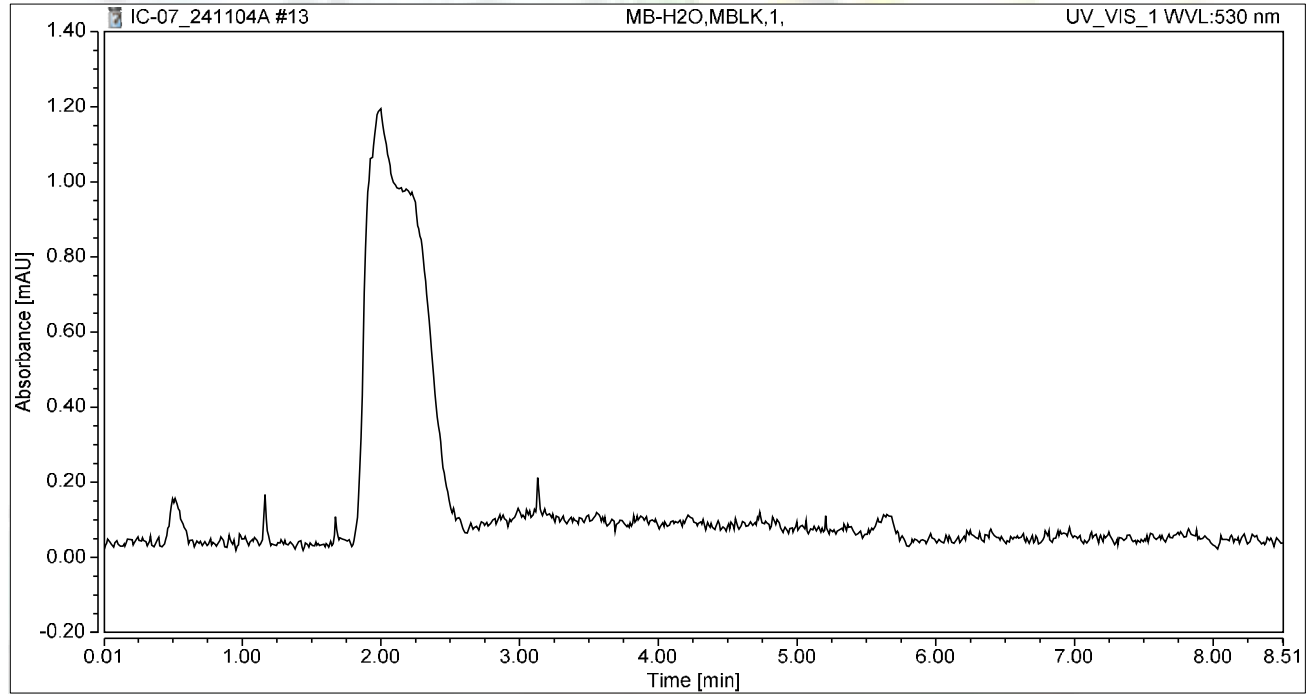
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 11:29	Sample Weight:	1.0000

Chromatogram



Integration Results

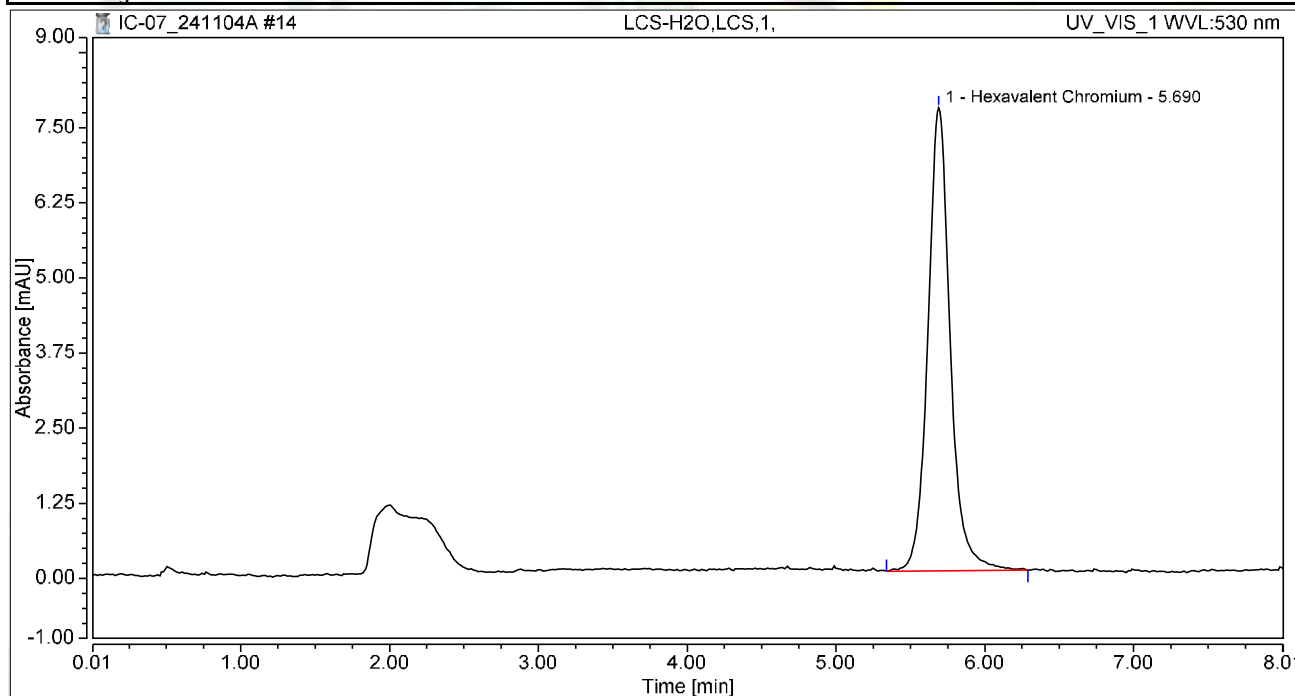
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-H2O,LCS,1,	Run Time (min):	8.00
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 11:39	Sample Weight:	1.0000

Chromatogram



Integration Results

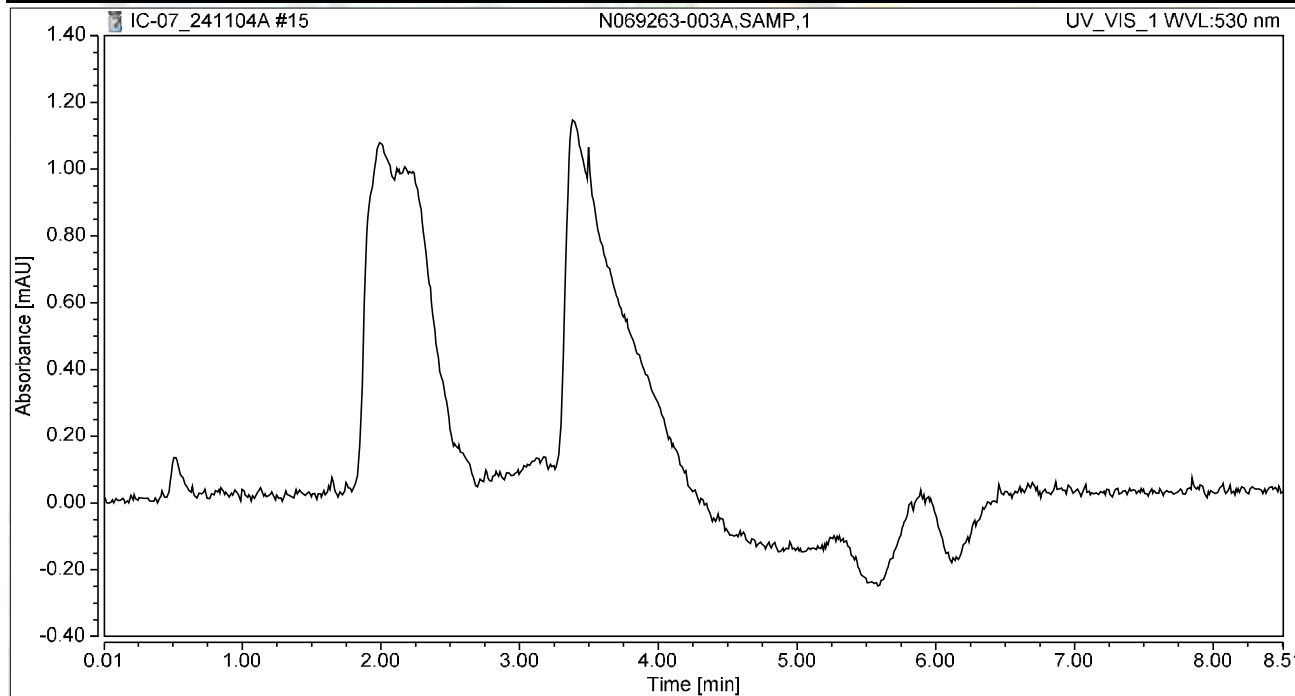
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	1.344	7.710	100.00	100.00	4.7353
Total:			1.344	7.710	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069263-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 12:35	Sample Weight:	1.0000

Chromatogram



Integration Results

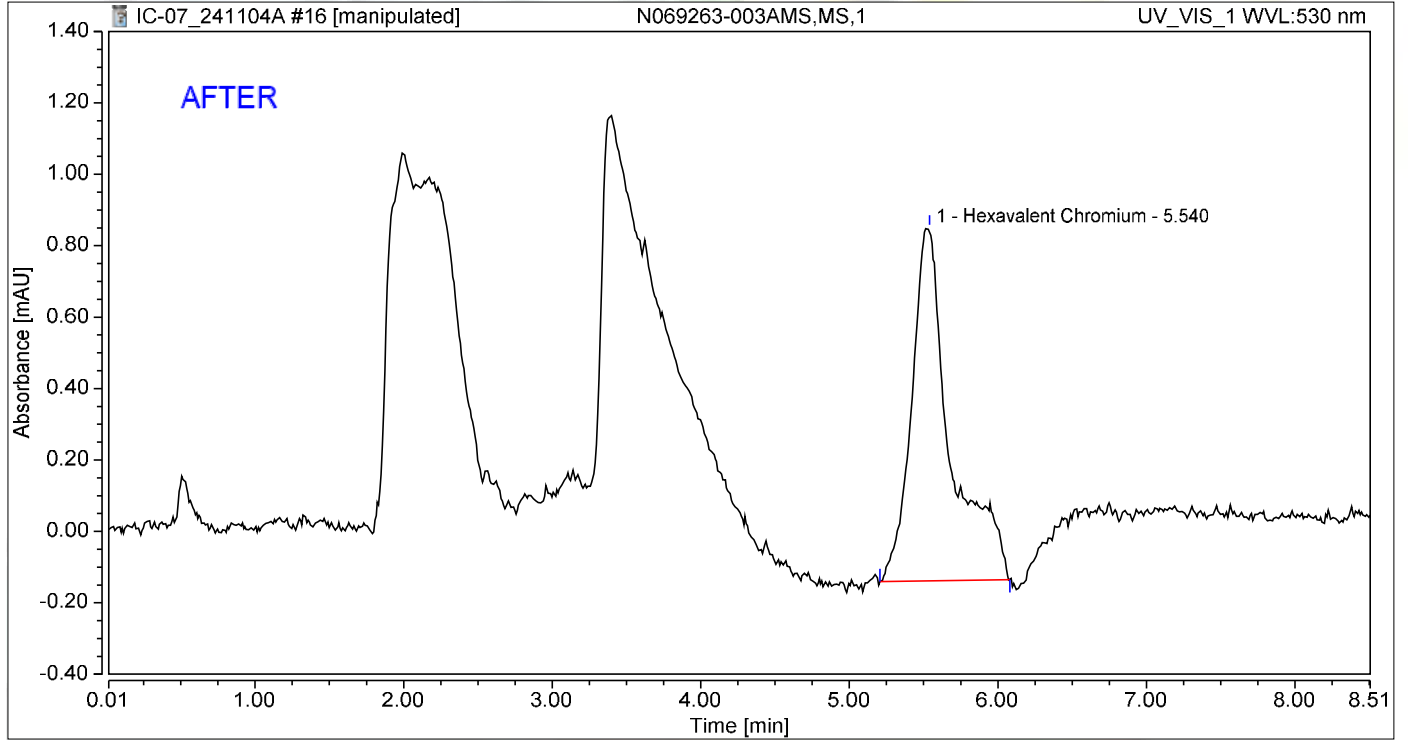
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069263-003AMS,MS,1	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 12:45	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.540	0.299	0.989	100.00	100.00	1.0542
Total:			0.299	0.989	100.00	100.00	

Reviewed by

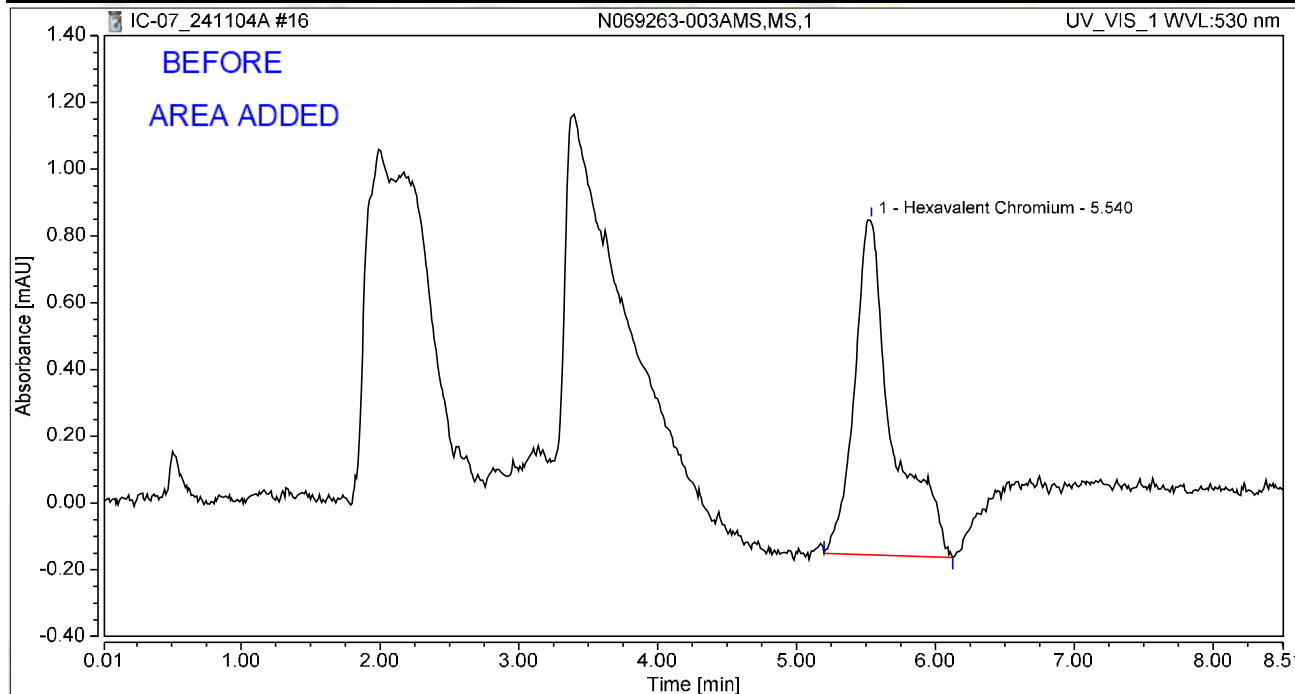
Nancy 11/05/2024

Chromatogram and Results

Injection Details

Injection Name:	N069263-003AMS,MS,1	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 12:45	Sample Weight:	1.0000

Chromatogram



Integration Results

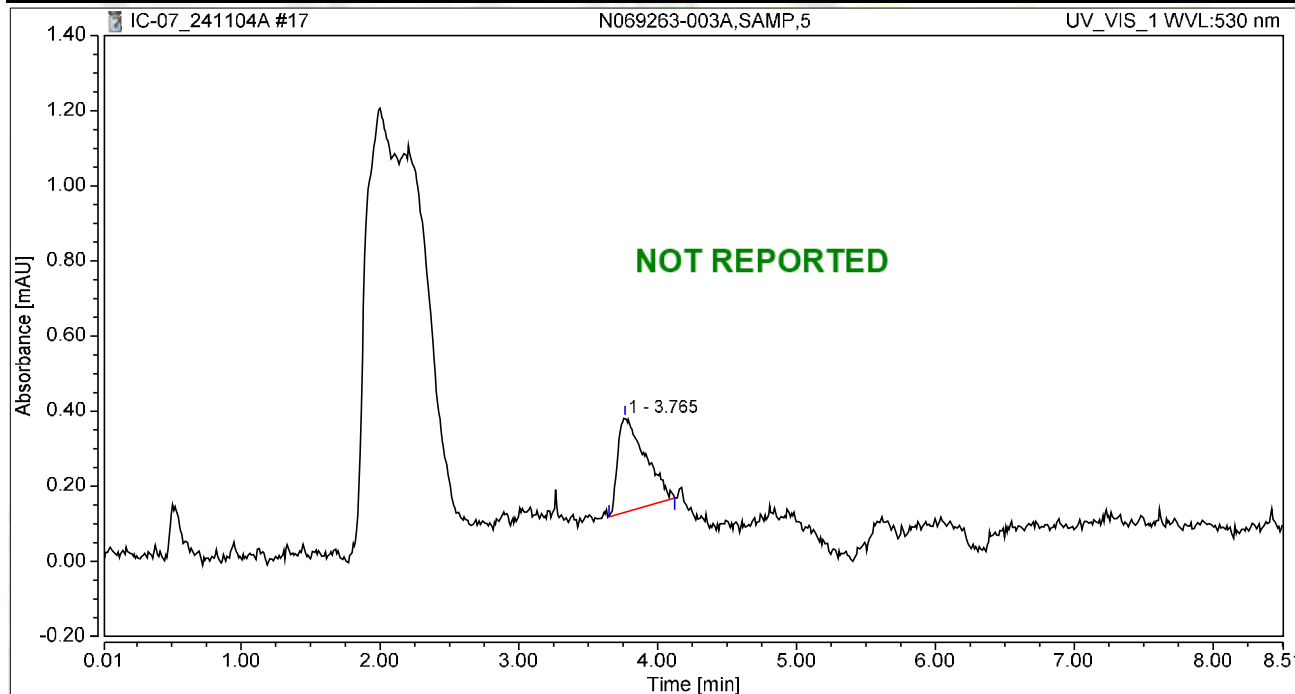
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.540	0.316	1.005	100.00	100.00	1.1135
Total:			0.316	1.005	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069263-003A,SAMP,5	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 12:54	Sample Weight:	1.0000

Chromatogram



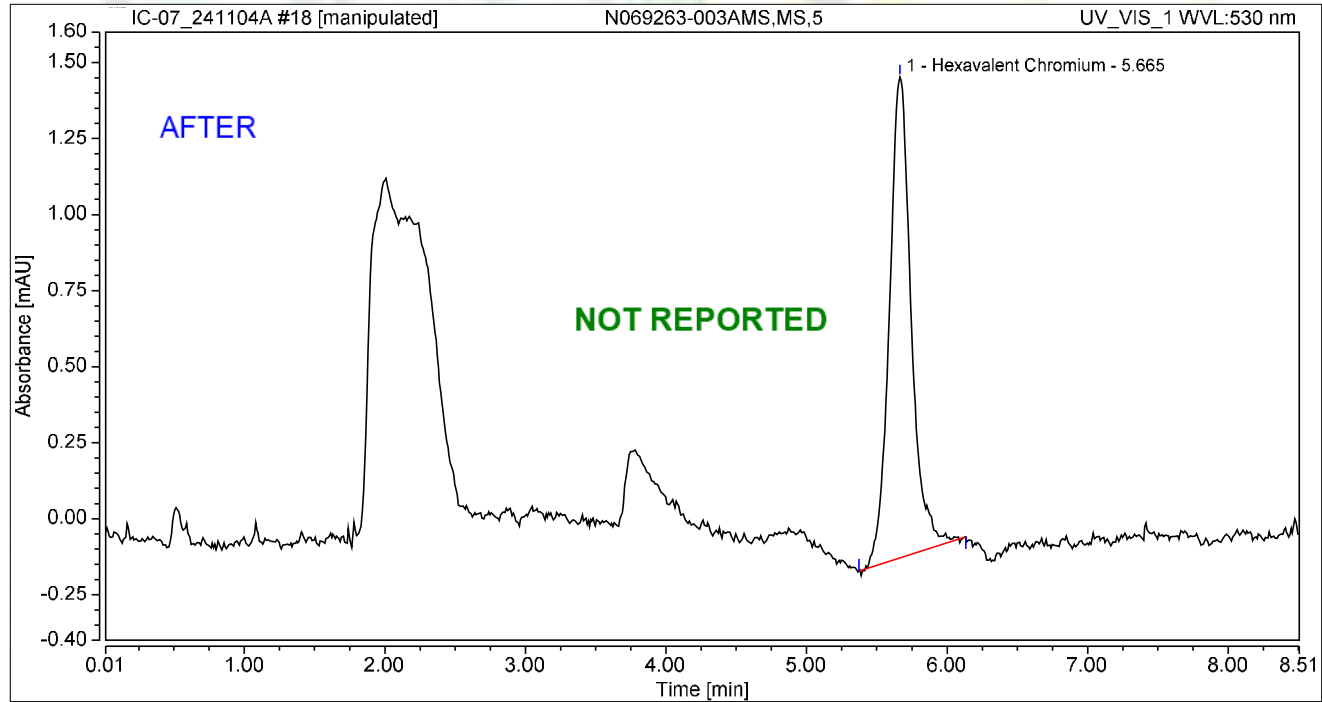
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.765	0.057	0.252	100.00	100.00	n.a.
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.057	0.252	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069263-003AMS,MS,5	Run Time (min): 8.49
Vial Number:	5	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	04/Nov/24 13:04	Sample Weight: 1.0000

Chromatogram



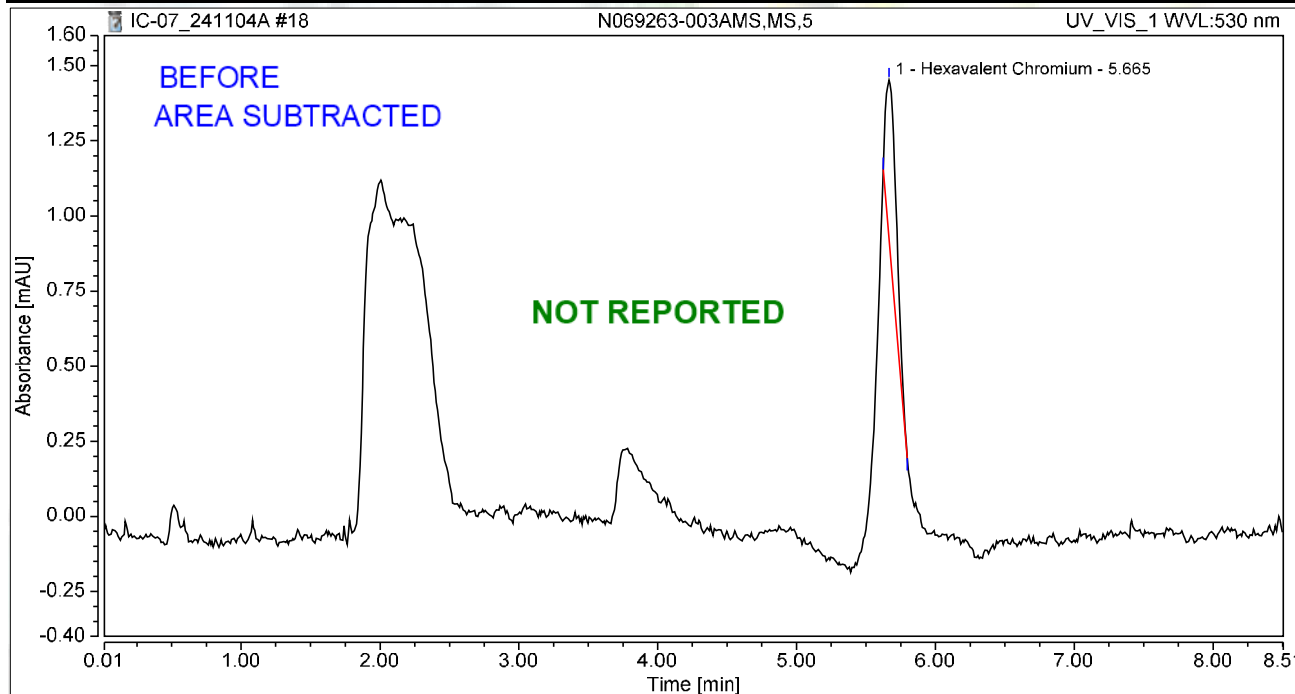
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.283	1.581	100.00	100.00	0.9989
Total:			0.283	1.581	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069263-003AMS,MS,5	Run Time (min):	8.49
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 13:04	Sample Weight:	1.0000

Chromatogram



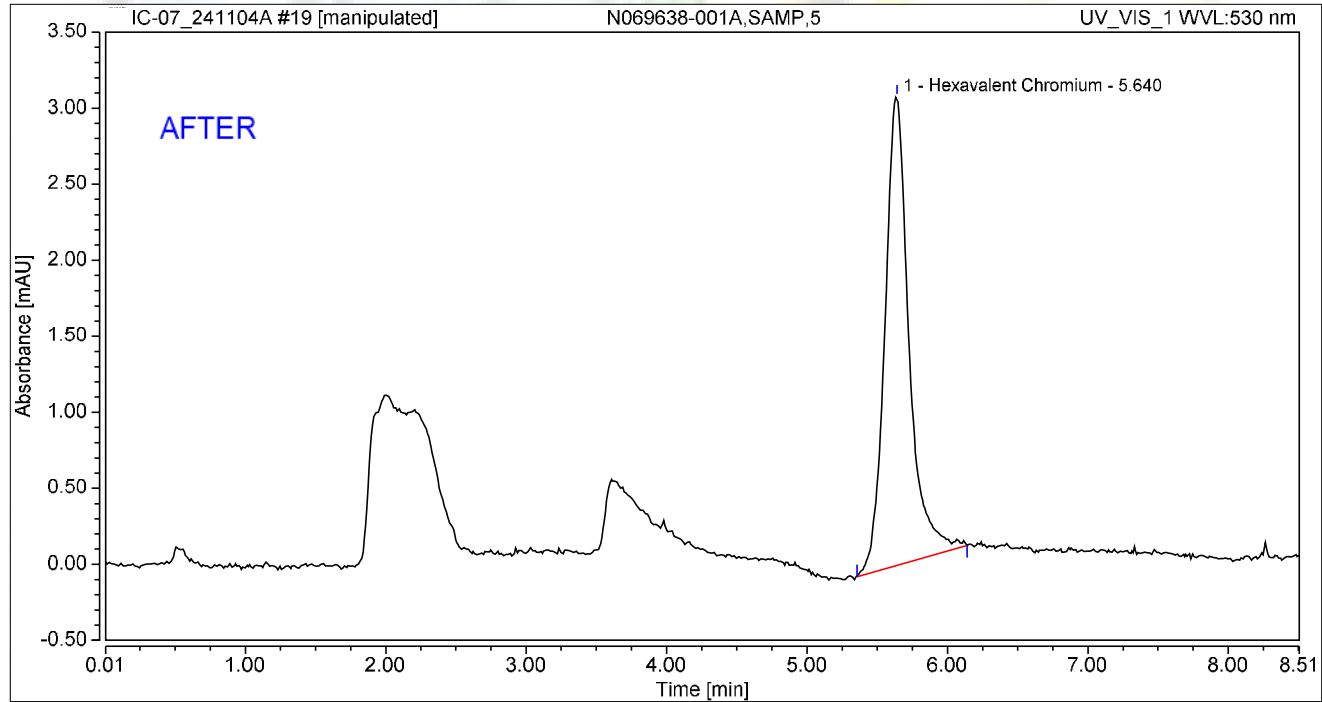
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.051	0.527	100.00	100.00	0.1792
Total:			0.051	0.527	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069638-001A,SAMP,5	Run Time (min): 8.50
Vial Number:	6	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	04/Nov/24 13:13	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.640	0.613	3.081	100.00	100.00	2.1600
Total:			0.613	3.081	100.00	100.00	

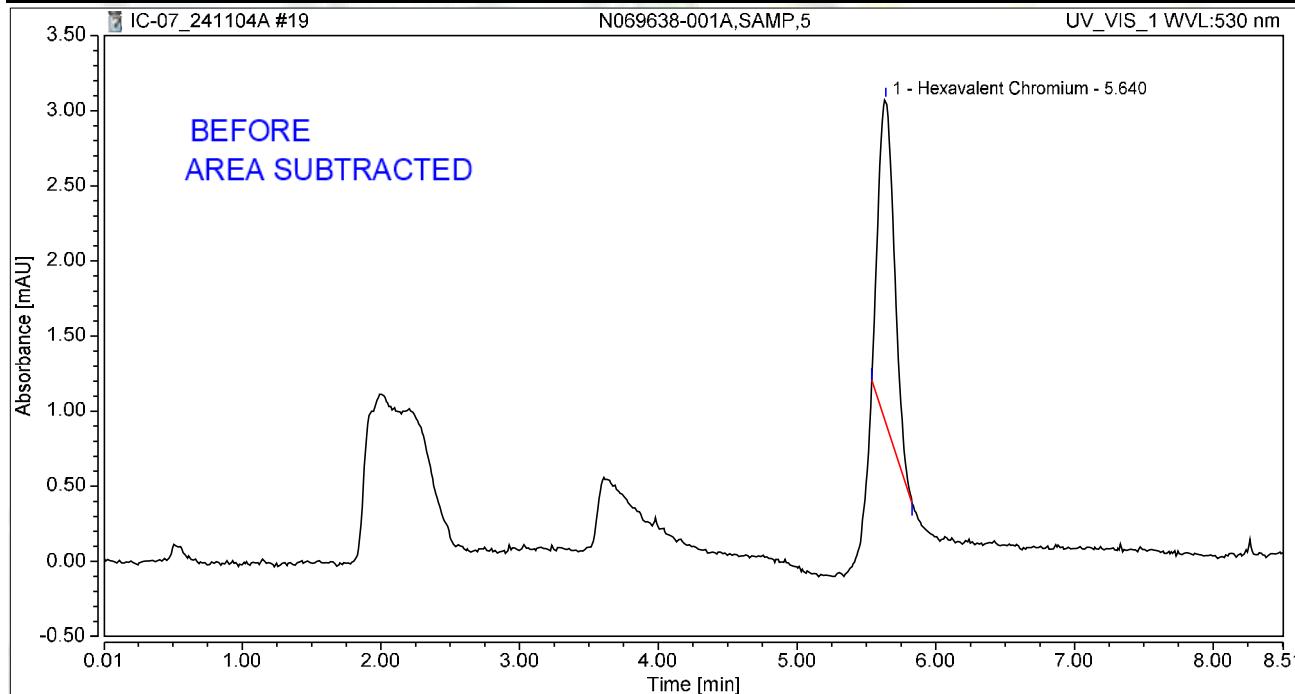
Reviewed by
Mony 11/05/2024

Chromatogram and Results

Injection Details

Injection Name:	N069638-001A,SAMP,5	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 13:13	Sample Weight:	1.0000

Chromatogram



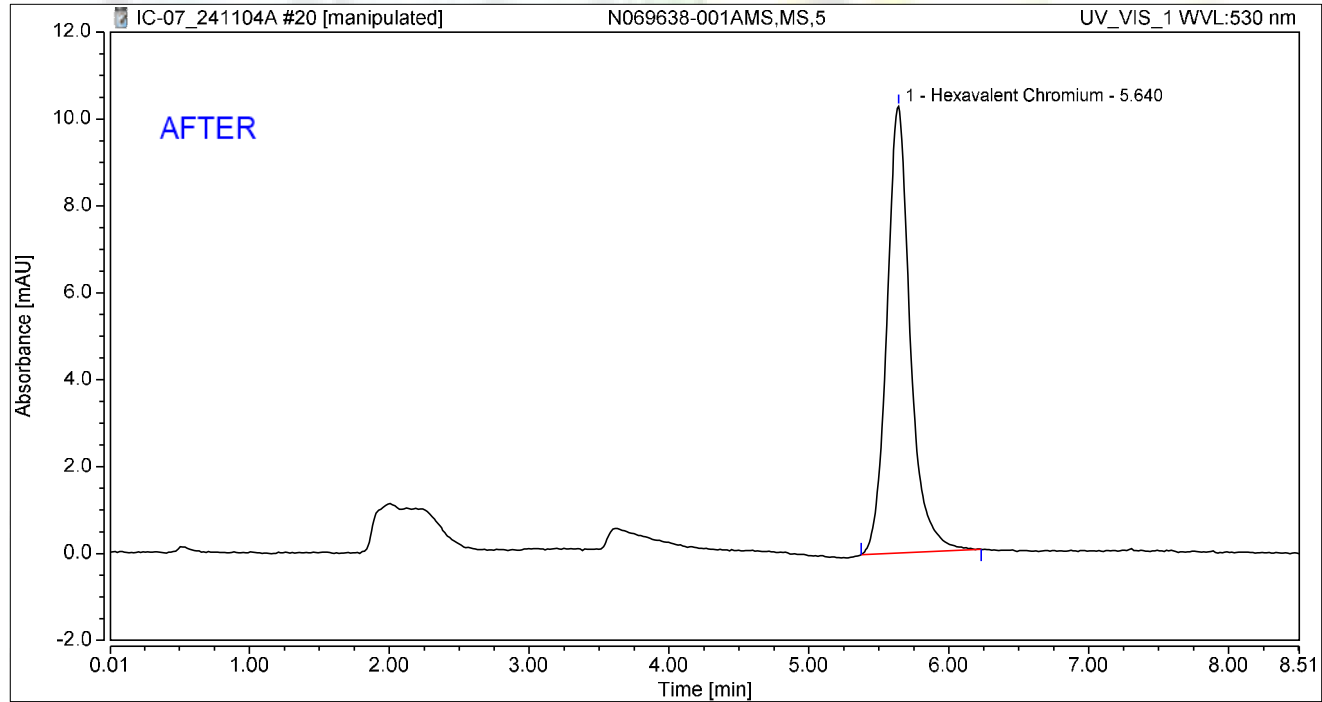
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.640	0.290	2.149	100.00	100.00	1.0204
Total:			0.290	2.149	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069638-001AMS,MS,5	Run Time (min): 8.50
Vial Number:	7	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	04/Nov/24 13:23	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.640	1.989	10.278	100.00	100.00	7.0110
Total:			1.989	10.278	100.00	100.00	

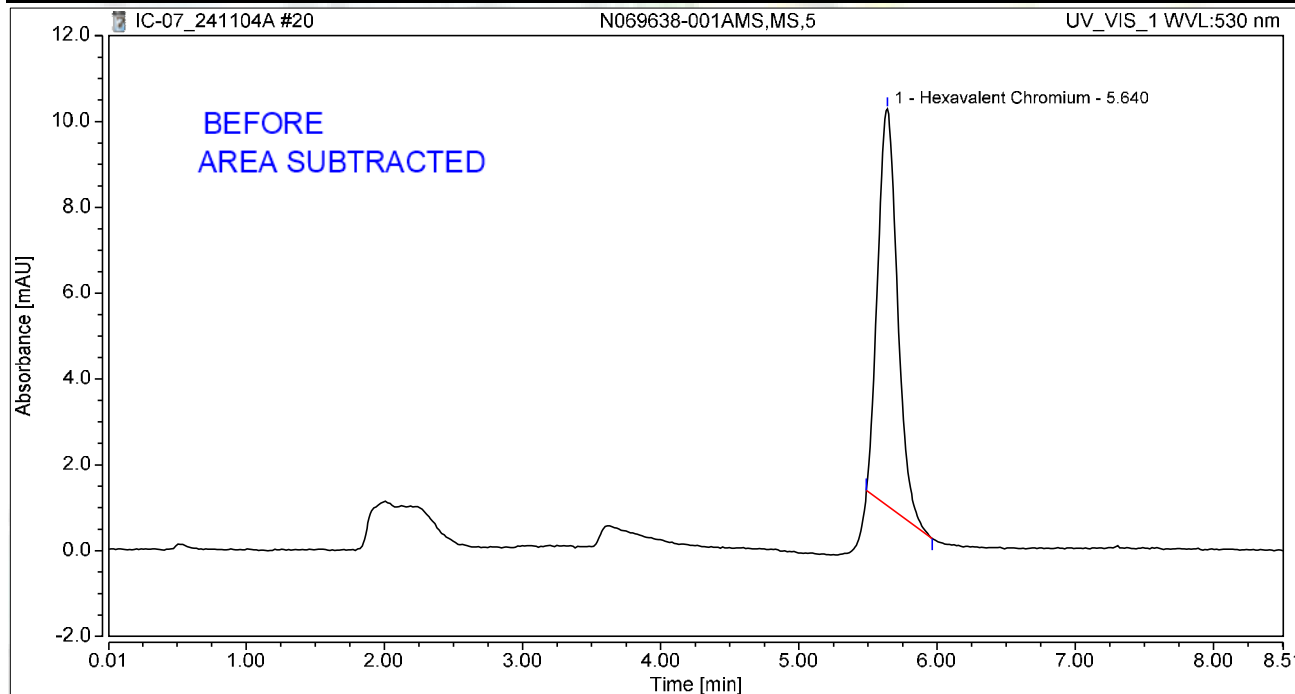
Reviewed by
 11/05/2024

Chromatogram and Results

Injection Details

Injection Name:	N069638-001AMS,MS,5	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 13:23	Sample Weight:	1.0000

Chromatogram



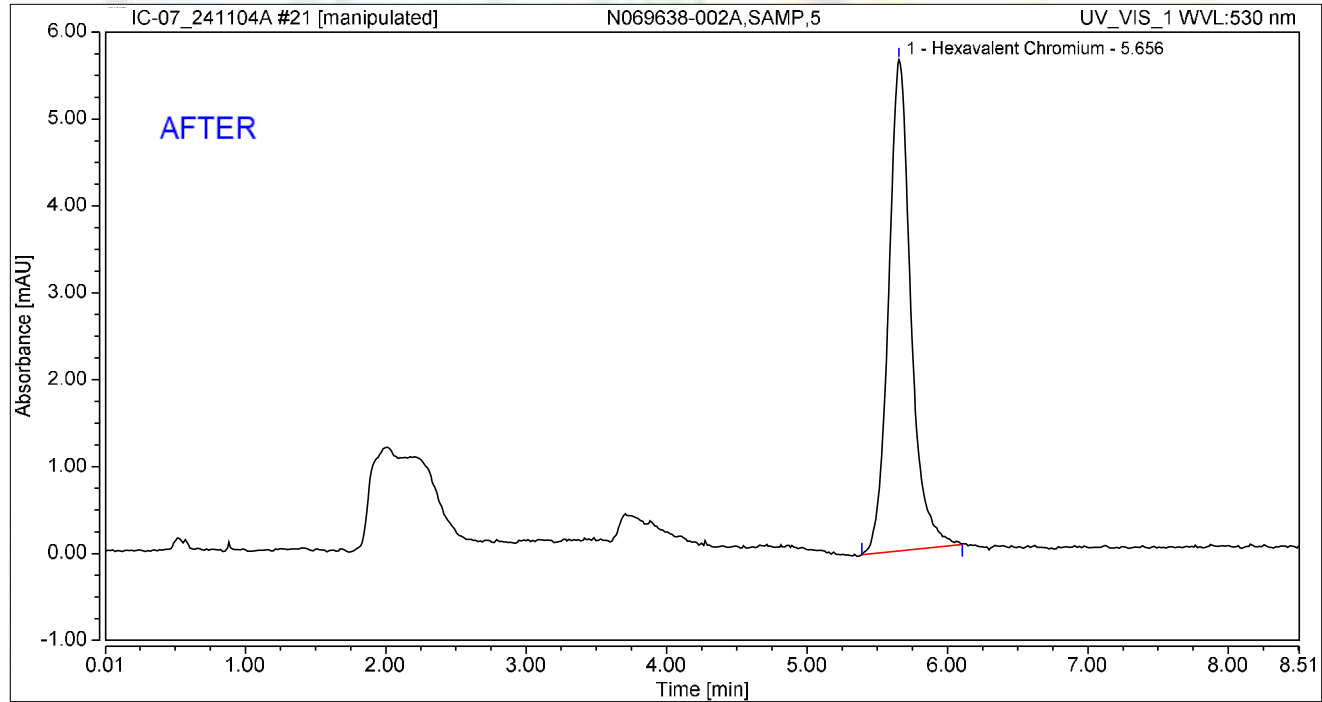
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.640	1.530	9.236	100.00	100.00	5.3918
Total:			1.530	9.236	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069638-002A,SAMP,5	Run Time (min): 8.50
Vial Number:	8	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	04/Nov/24 13:32	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.656	1.041	5.652	100.00	100.00	3.6702
Total:			1.041	5.652	100.00	100.00	

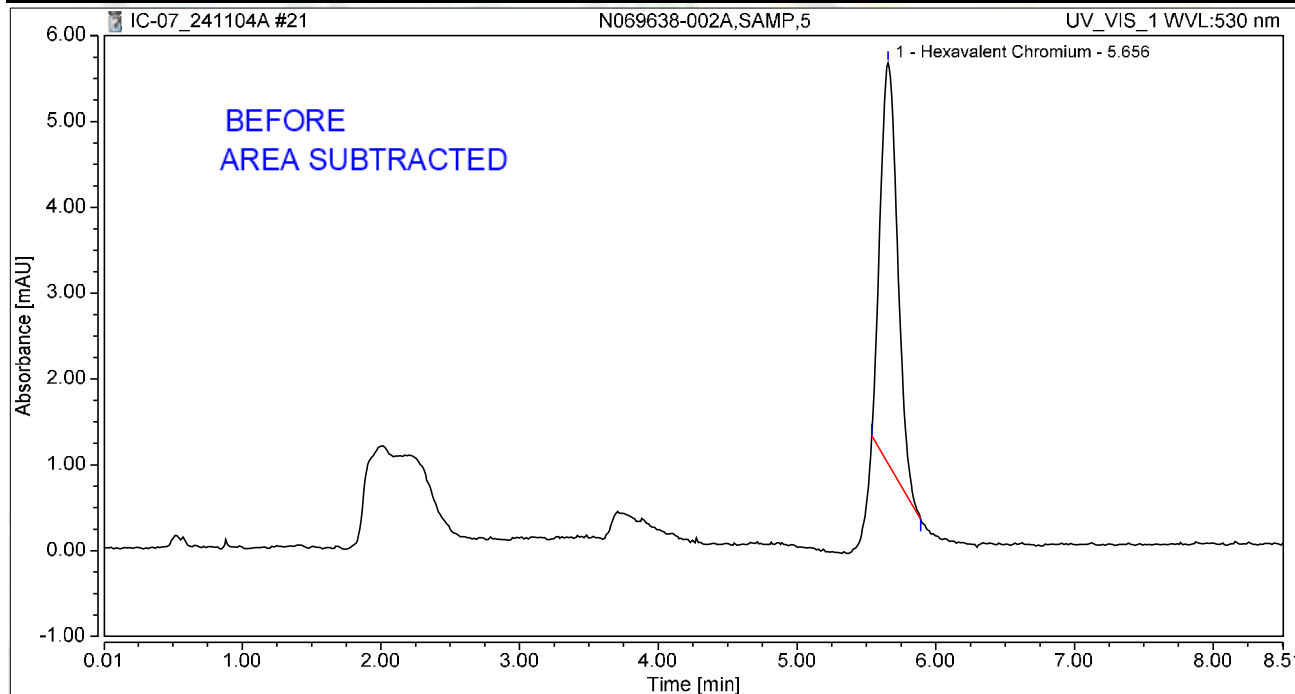
Reviewed by
 11/05/2024

Chromatogram and Results

Injection Details

Injection Name:	N069638-002A,SAMP,5	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 13:32	Sample Weight:	1.0000

Chromatogram



Integration Results

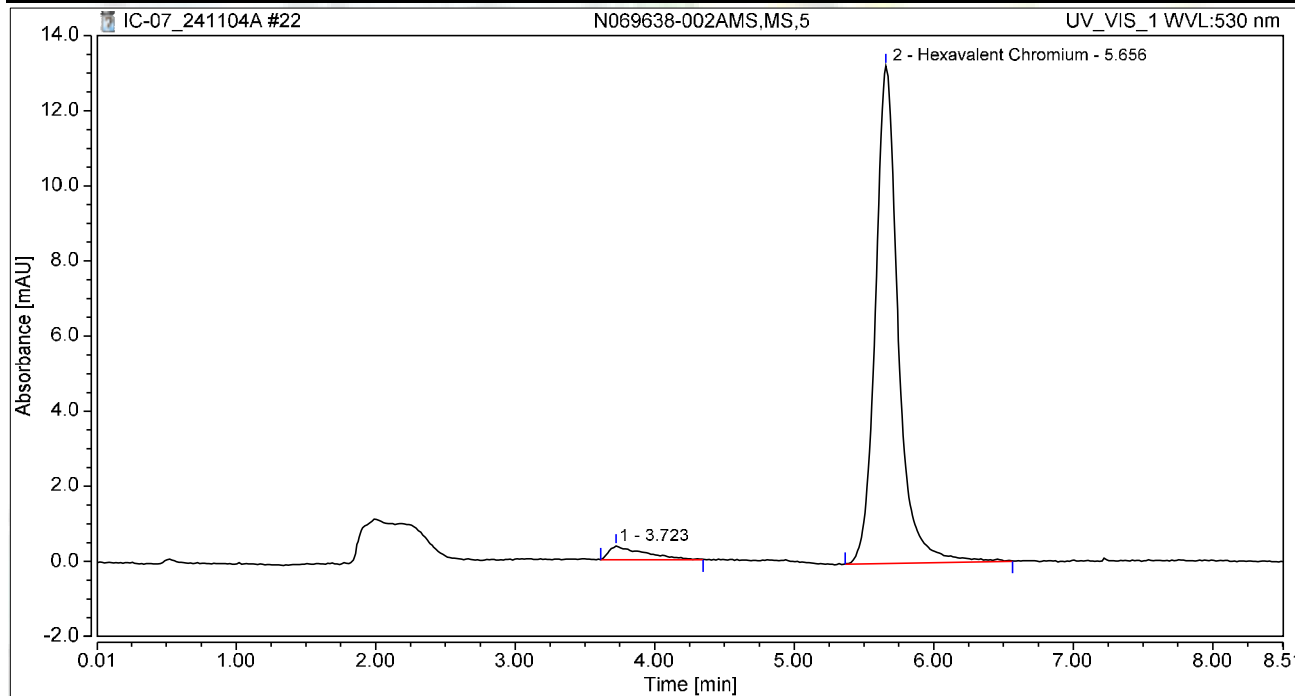
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.656	0.680	4.665	100.00	100.00	2.3976
Total:			0.680	4.665	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 13:42	Sample Weight:	1.0000

Chromatogram



Integration Results

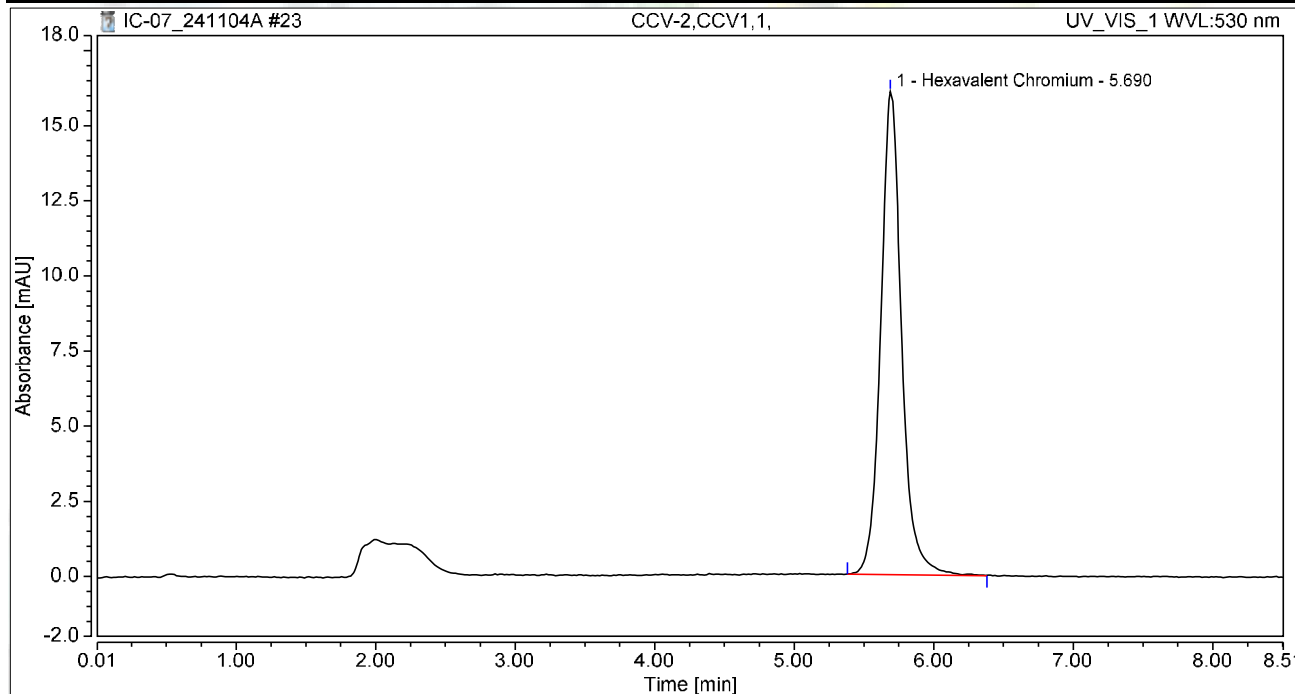
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.723	0.106	0.362	4.07	2.66	n.a.
2	Hexavalent Chromium	5.656	2.505	13.251	95.93	97.34	8.8287
Total:			2.611	13.614	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-2,CCV1,1,	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 13:51	Sample Weight:	1.0000

Chromatogram



Integration Results

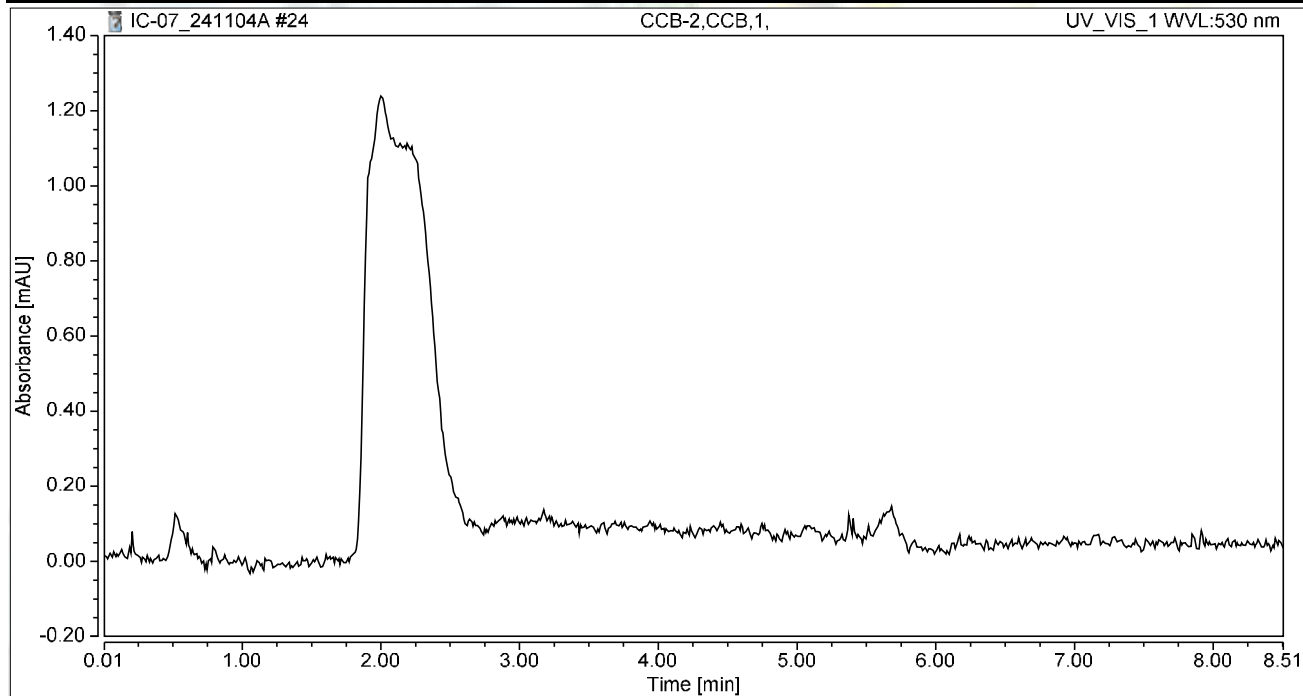
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	2.778	16.072	100.00	100.00	9.7899
Total:			2.778	16.072	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-2,CCB,1,	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 14:01	Sample Weight:	1.0000

Chromatogram



Integration Results

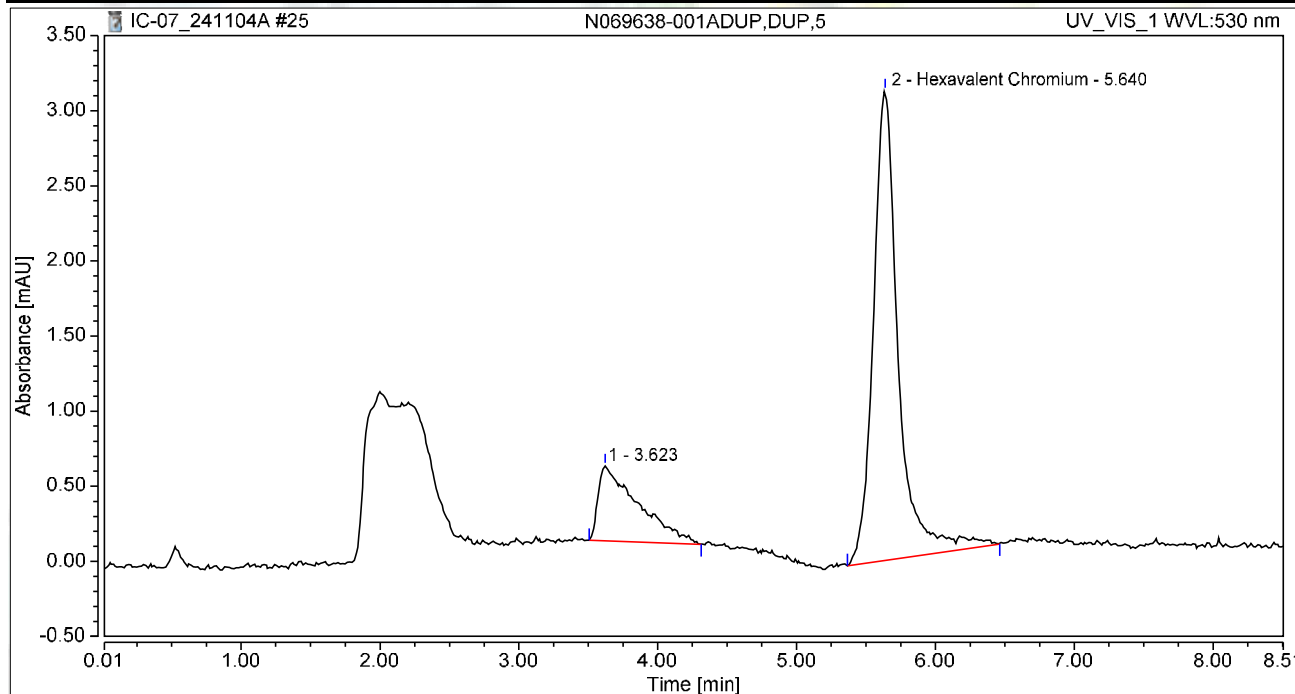
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-001ADUP,DUP,5	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 14:43	Sample Weight:	1.0000

Chromatogram



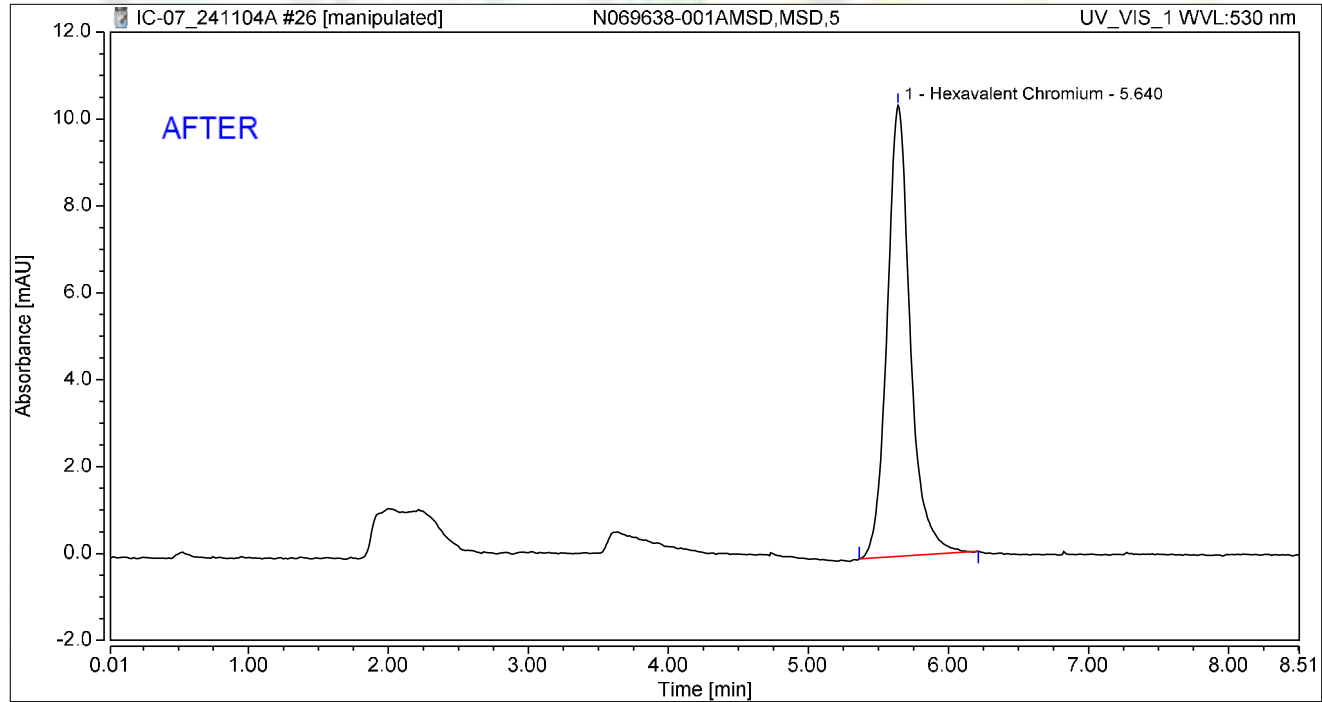
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.623	0.168	0.500	20.44	13.78	n.a.
2	Hexavalent Chromium	5.640	0.652	3.126	79.56	86.22	2.2981
Total:			0.820	3.626	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069638-001AMSD,MSD,5	Run Time (min): 8.49
Vial Number:	2	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	04/Nov/24 14:53	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.640	1.990	10.379	100.00	100.00	7.0121
Total:			1.990	10.379	100.00	100.00	

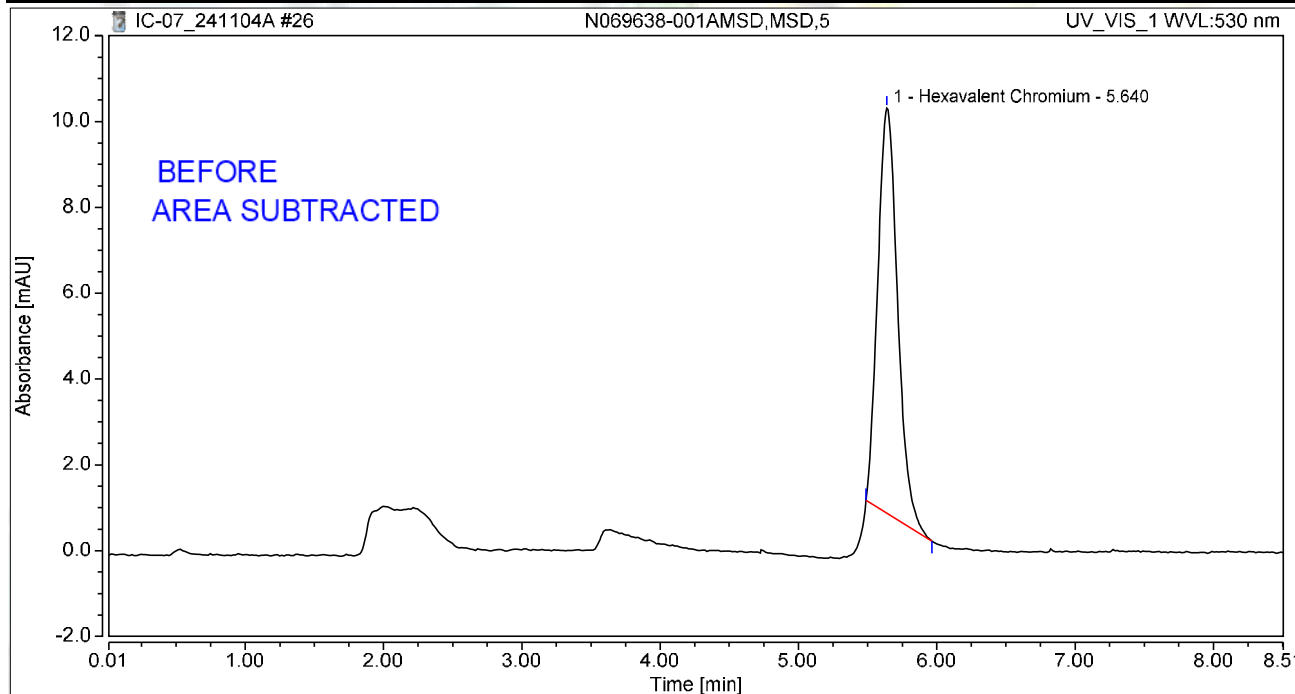
Reviewed by
Nancy 11/05/2024

Chromatogram and Results

Injection Details

Injection Name:	N069638-001AMSD,MSD,5	Run Time (min):	8.49
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 14:53	Sample Weight:	1.0000

Chromatogram



Integration Results

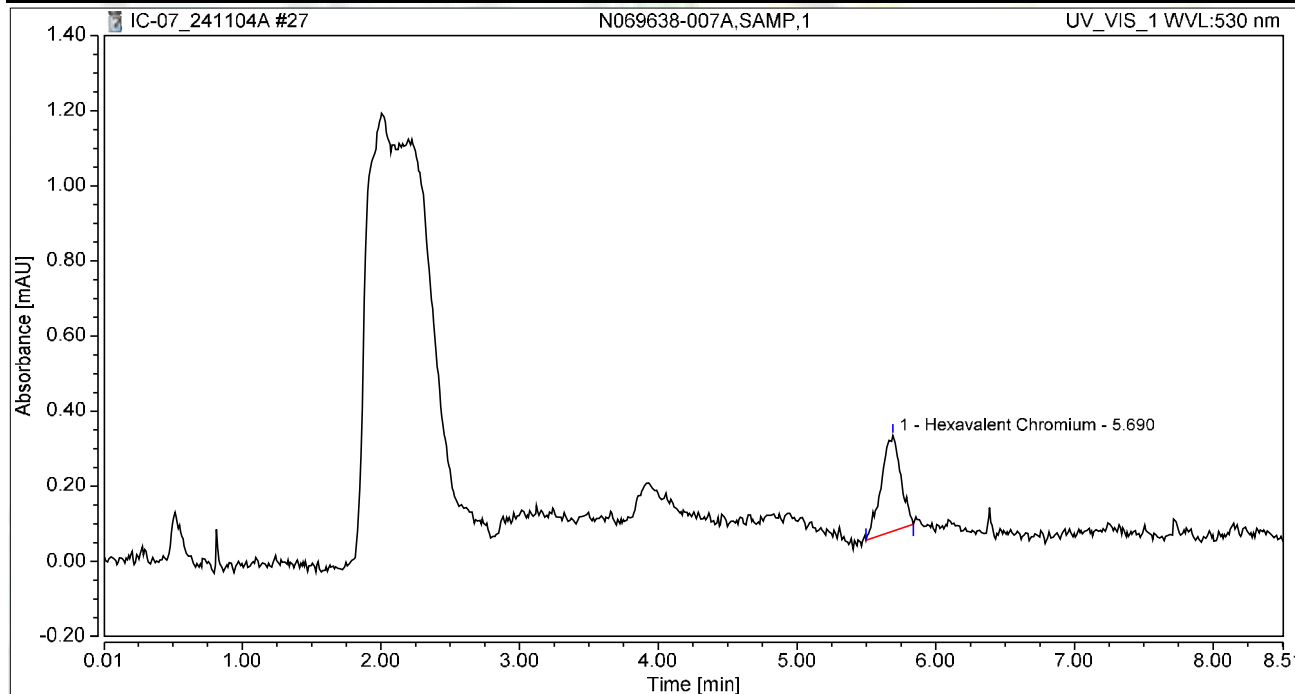
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.640	1.576	9.441	100.00	100.00	5.5557
Total:			1.576	9.441	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-007A,SAMP,1	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 15:03	Sample Weight:	1.0000

Chromatogram



Integration Results

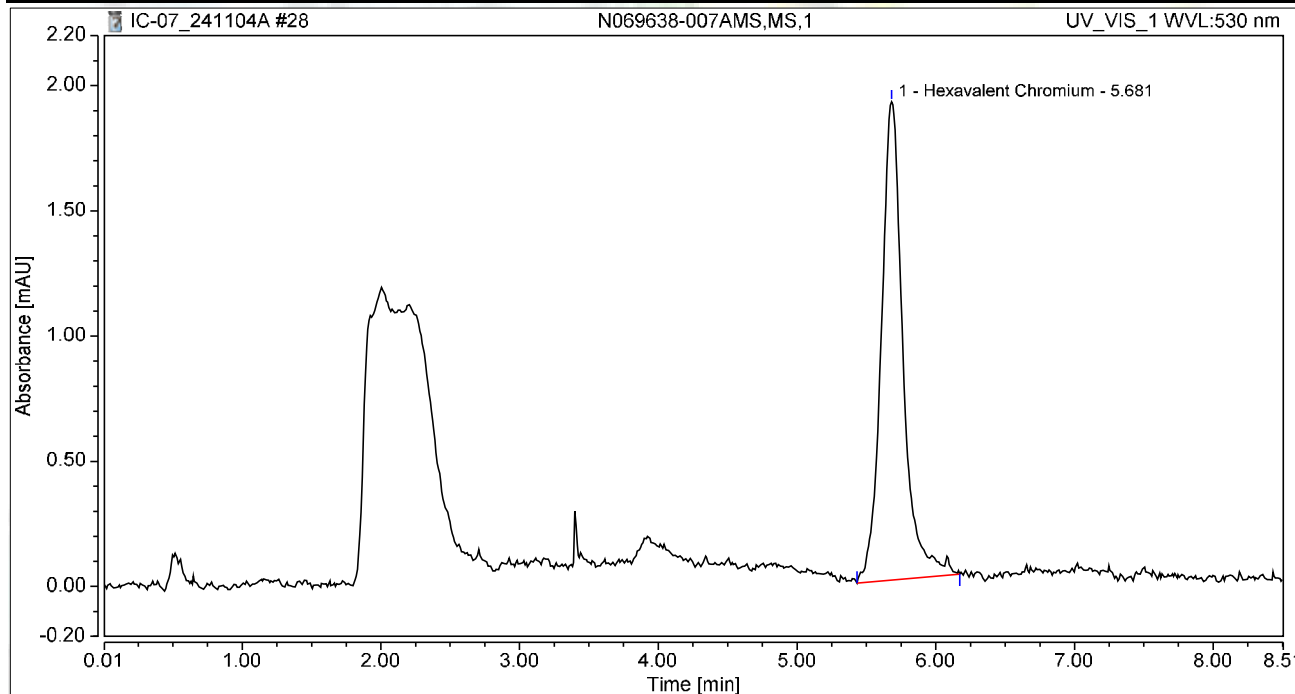
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.041	0.255	100.00	100.00	0.1455
Total:			0.041	0.255	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-007AMS,MS,1	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 15:12	Sample Weight:	1.0000

Chromatogram



Integration Results

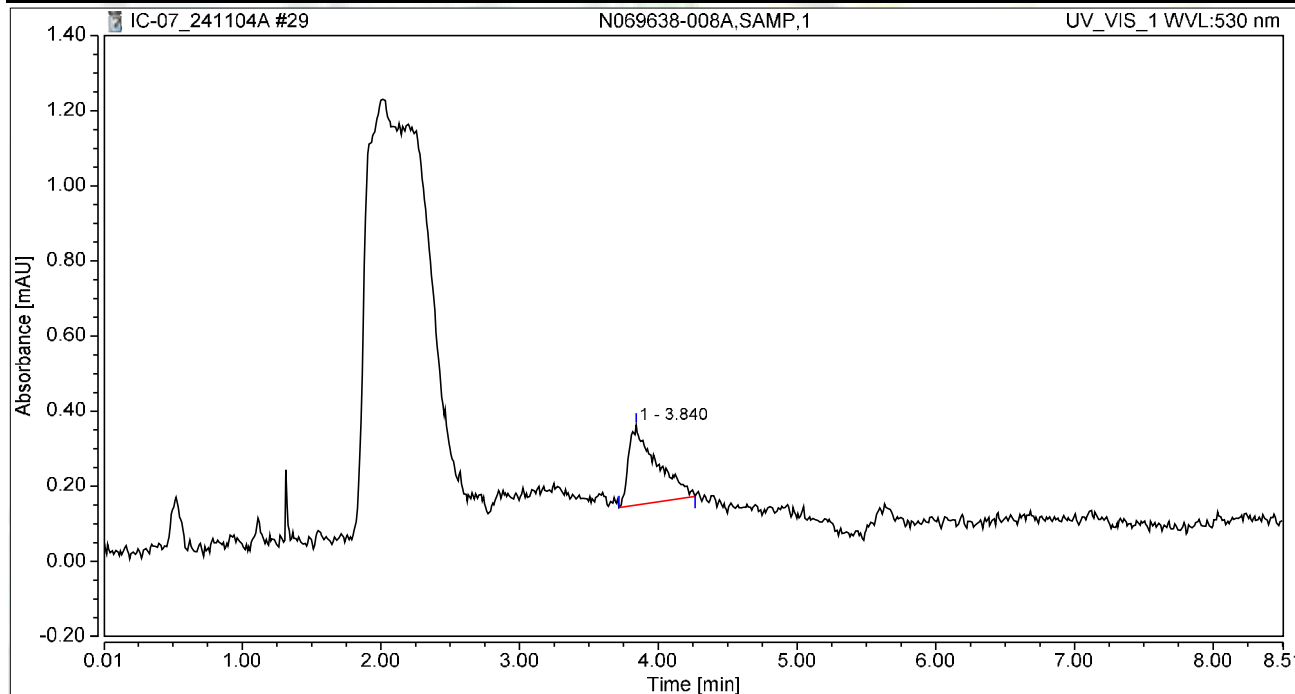
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.348	1.910	100.00	100.00	1.2275
Total:			0.348	1.910	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-008A,SAMP,1	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 15:22	Sample Weight:	1.0000

Chromatogram



Integration Results

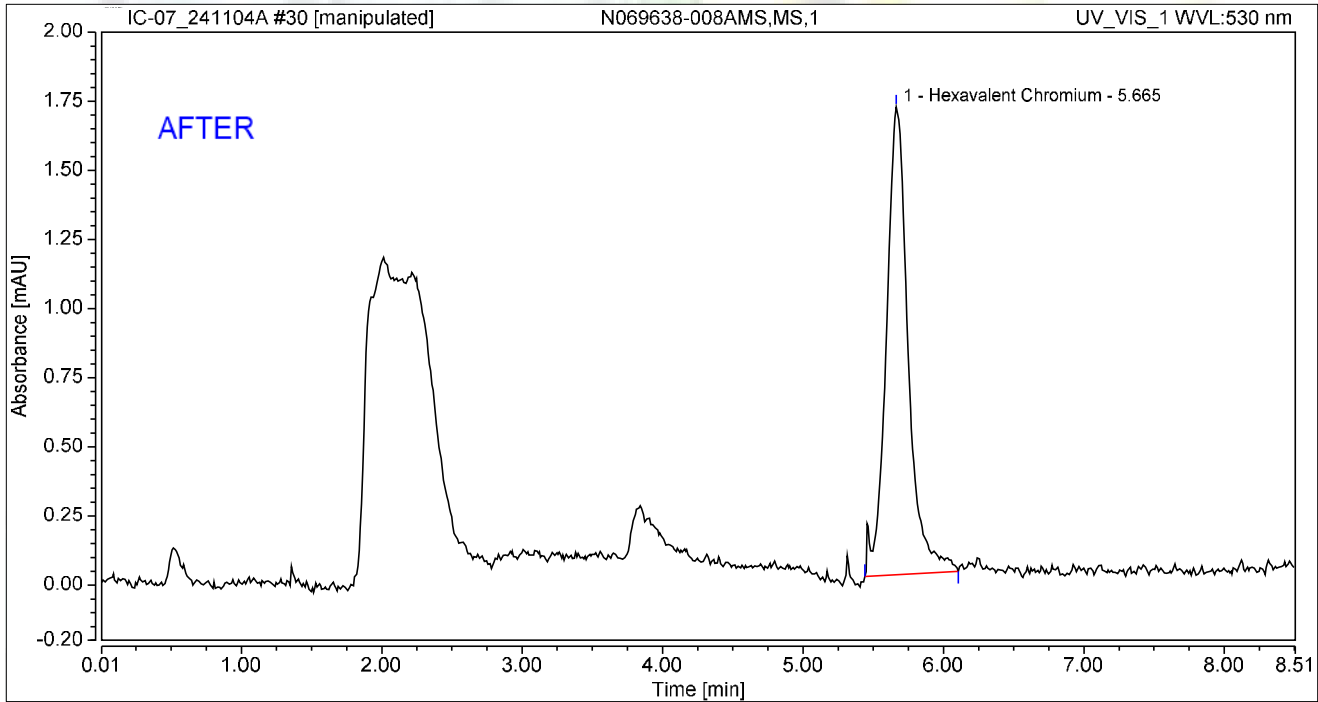
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.840	0.050	0.213	100.00	100.00	n.a.
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.050	0.213	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-008AMS,MS,1	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 15:31	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.306	1.692	100.00	100.00	1.0789
Total:			0.306	1.692	100.00	100.00	

Reviewed by

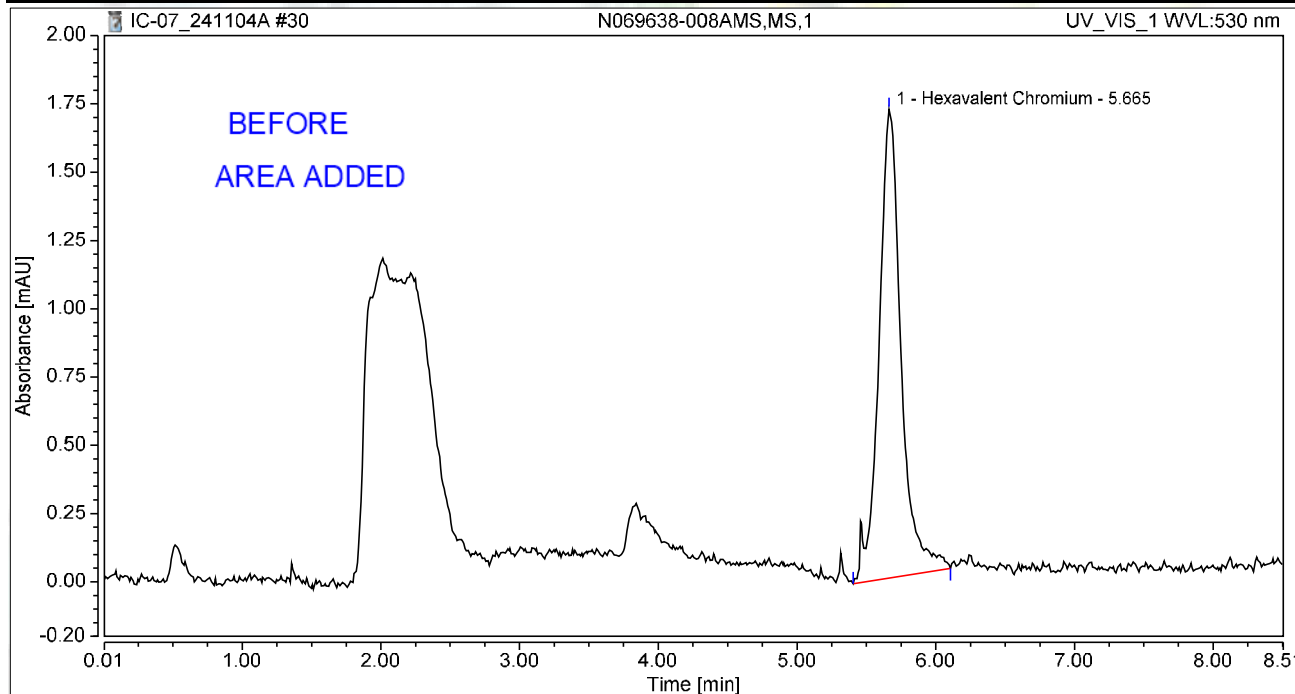
Nancy 11/05/2024

Chromatogram and Results

Injection Details

Injection Name:	N069638-008AMS,MS,1	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 15:31	Sample Weight:	1.0000

Chromatogram



Integration Results

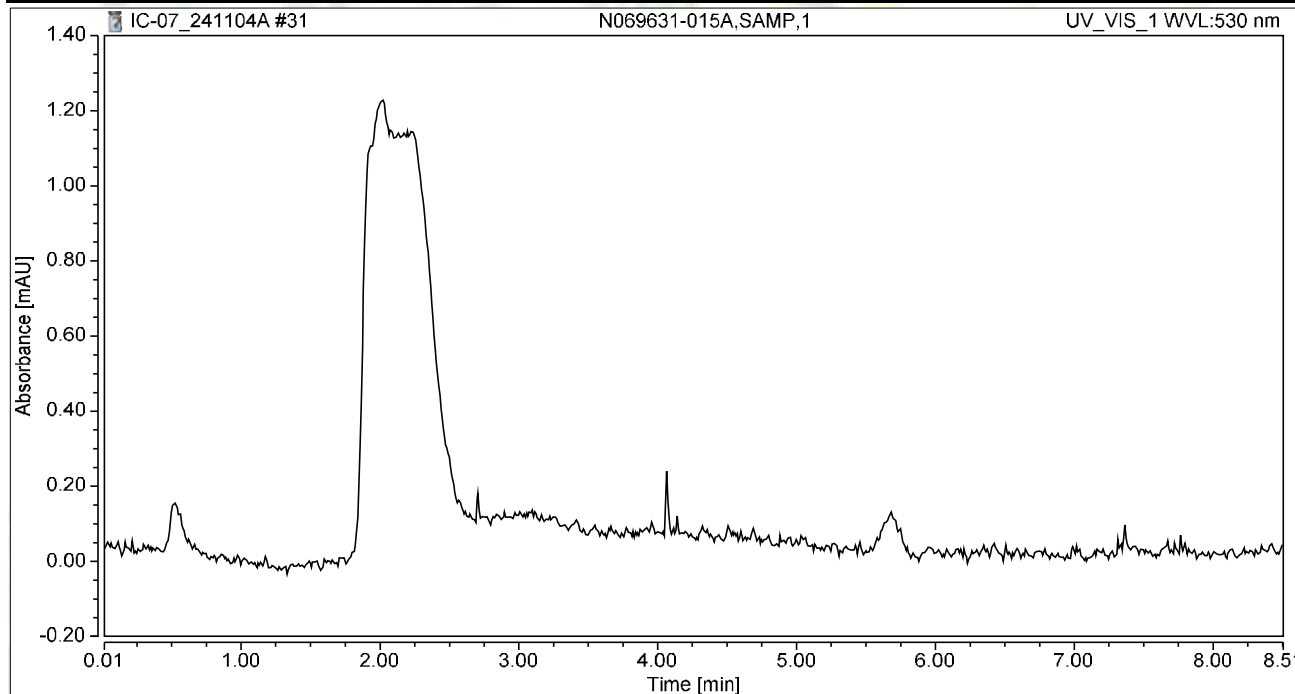
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.319	1.716	100.00	100.00	1.1233
Total:			0.319	1.716	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-015A,SAMP,1	Run Time (min):	8.49
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 15:41	Sample Weight:	1.0000

Chromatogram



Integration Results

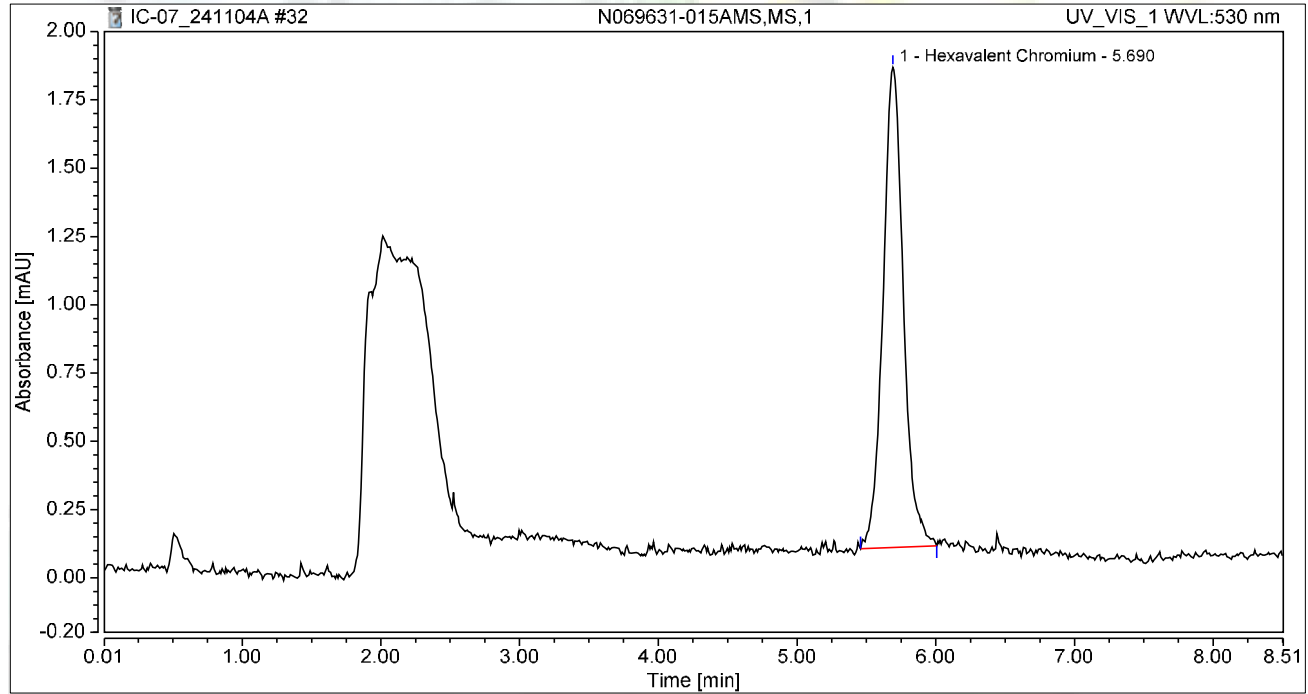
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069631-015AMS,MS,1	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 15:50	Sample Weight:	1.0000

Chromatogram



Integration Results

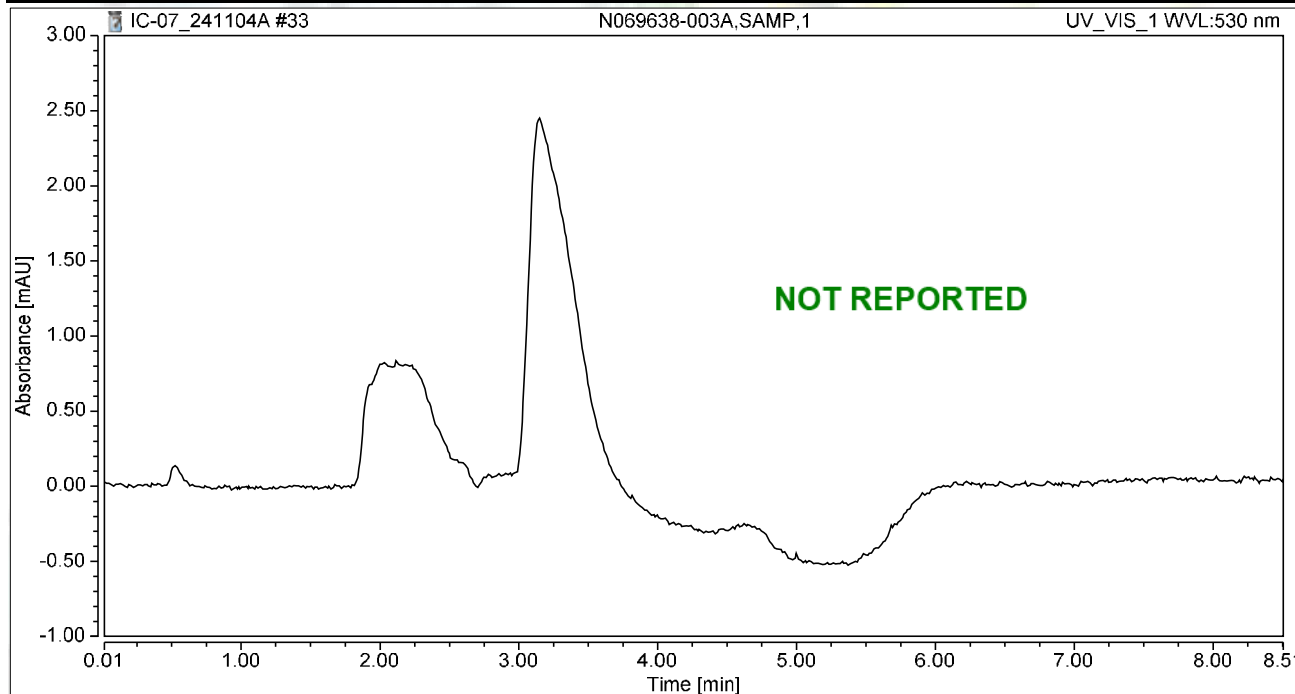
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.299	1.758	100.00	100.00	1.0529
Total:			0.299	1.758	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-003A,SAMP,1	Run Time (min):	8.49
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 16:00	Sample Weight:	1.0000

Chromatogram



Integration Results

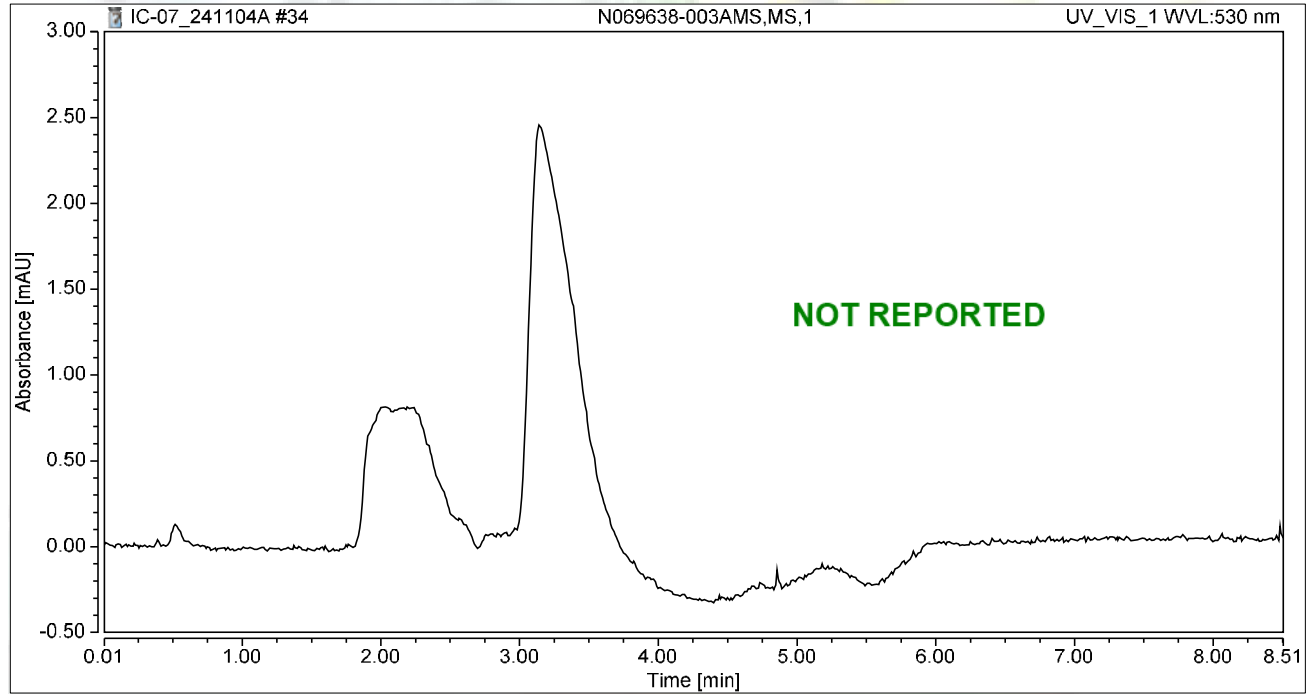
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-003AMS,MS,1	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 16:09	Sample Weight:	1.0000

Chromatogram



Integration Results

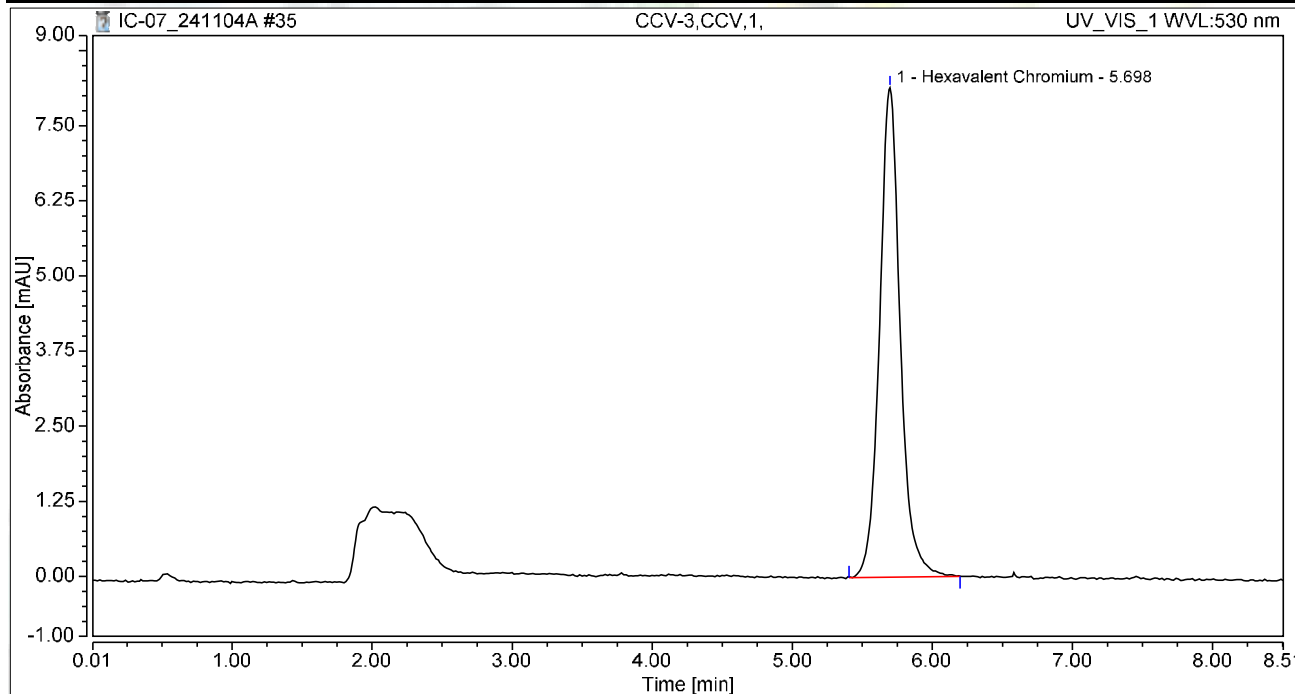
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-3,CCV,1,	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 16:19	Sample Weight:	1.0000

Chromatogram



Integration Results

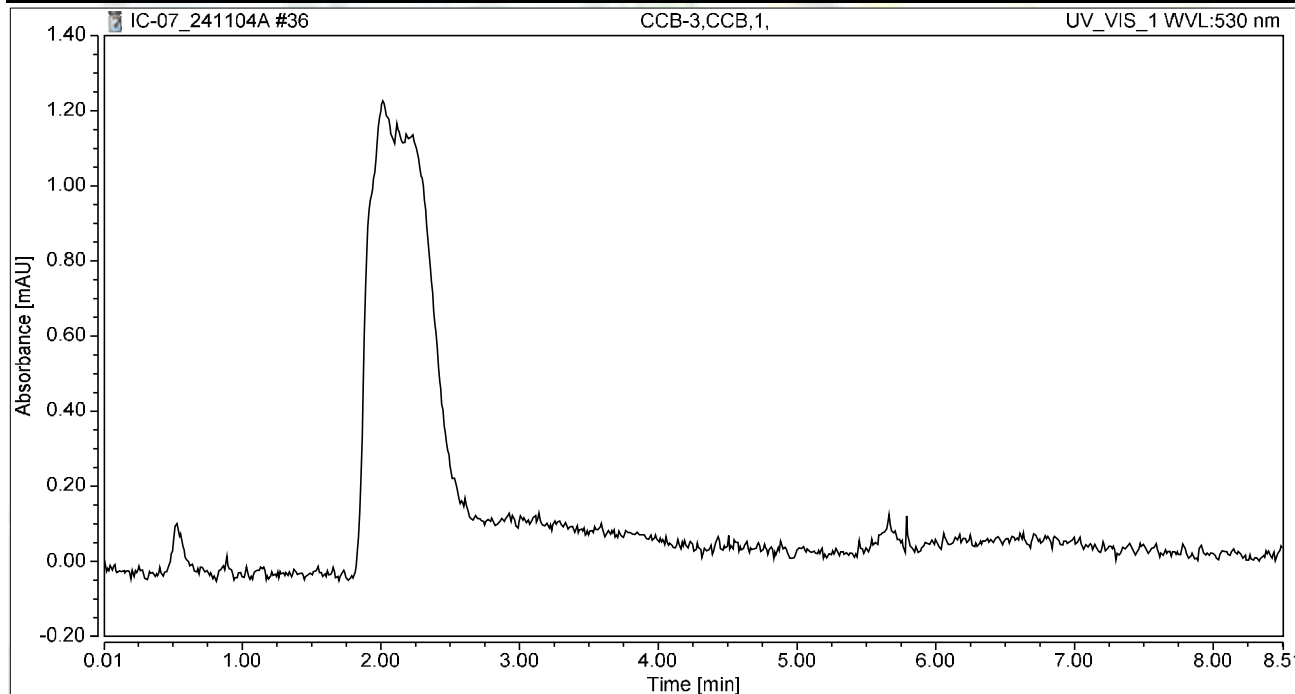
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	1.396	8.146	100.00	100.00	4.9195
Total:			1.396	8.146	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-3,CCB,1,	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 16:28	Sample Weight:	1.0000

Chromatogram



Integration Results

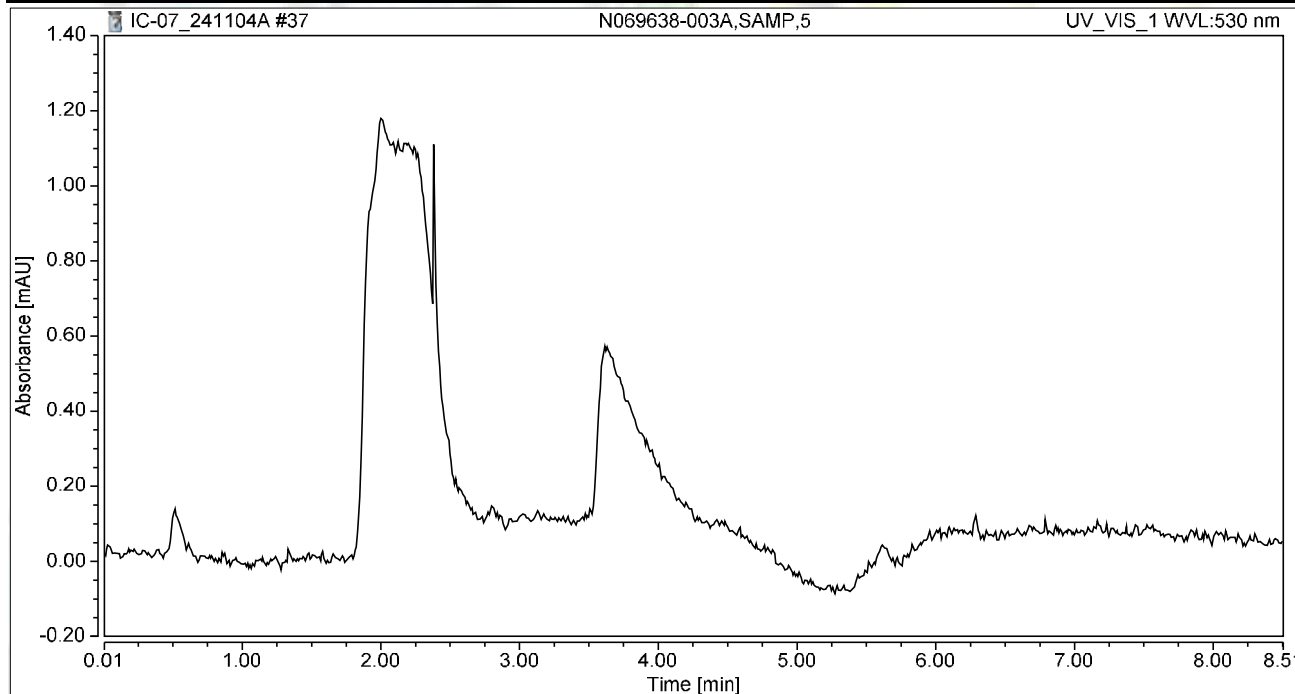
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-003A,SAMP,5	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 16:37	Sample Weight:	1.0000

Chromatogram



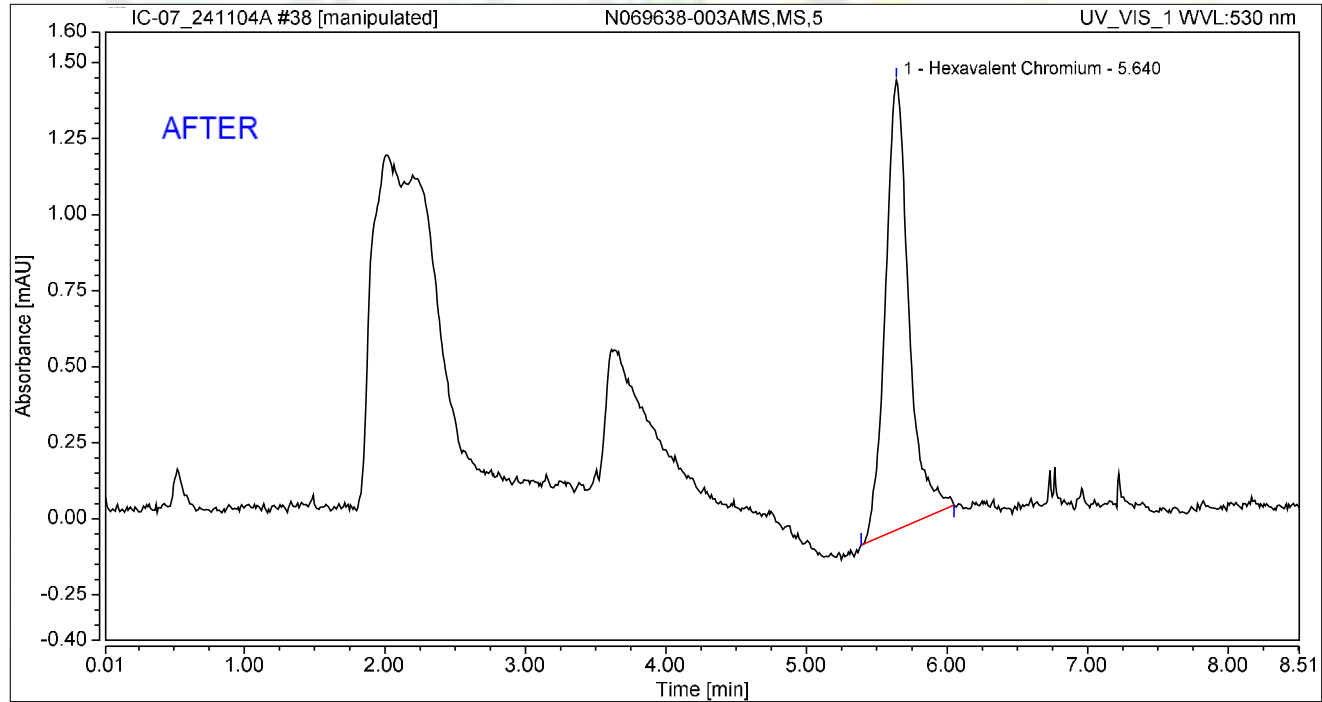
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069638-003AMS,MS,5	Run Time (min): 8.49
Vial Number:	14	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	04/Nov/24 16:47	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.640	0.286	1.480	100.00	100.00	1.0068
Total:			0.286	1.480	100.00	100.00	

Chromatogram

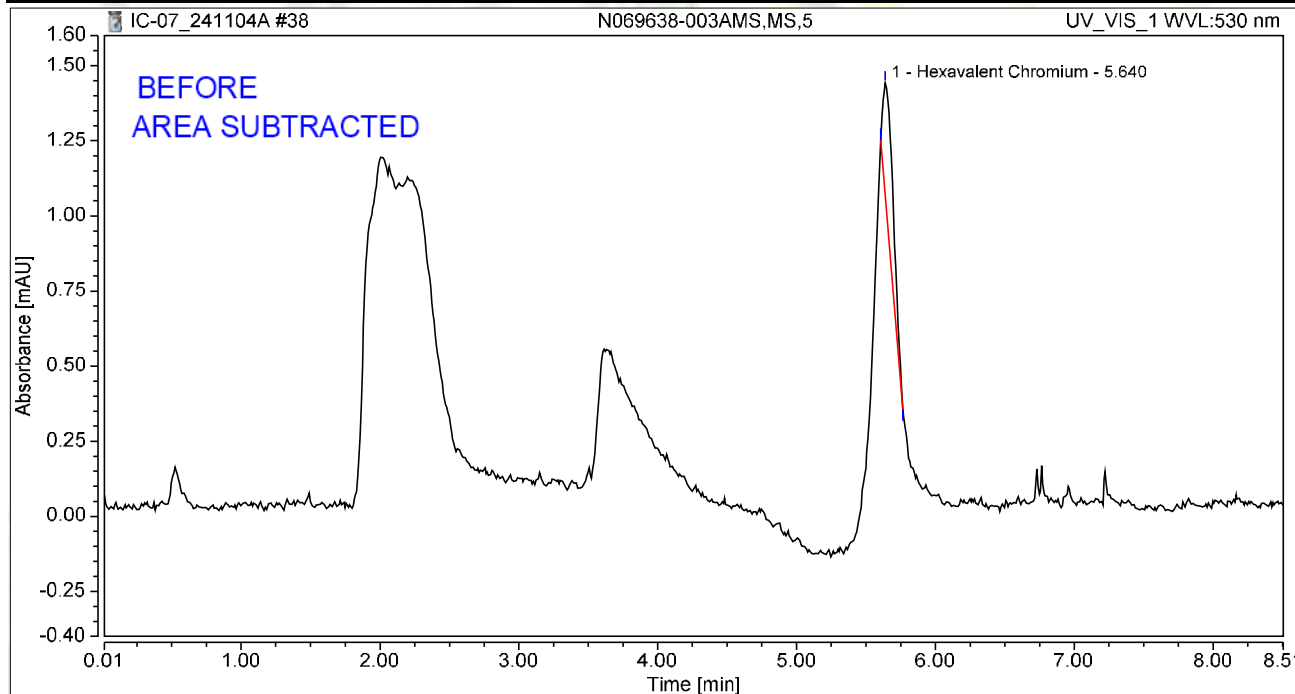
Reviewed by
Nancy 11/05/2024

Chromatogram and Results

Injection Details

Injection Name:	N069638-003AMS,MS,5	Run Time (min):	8.49
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 16:47	Sample Weight:	1.0000

Chromatogram



Integration Results

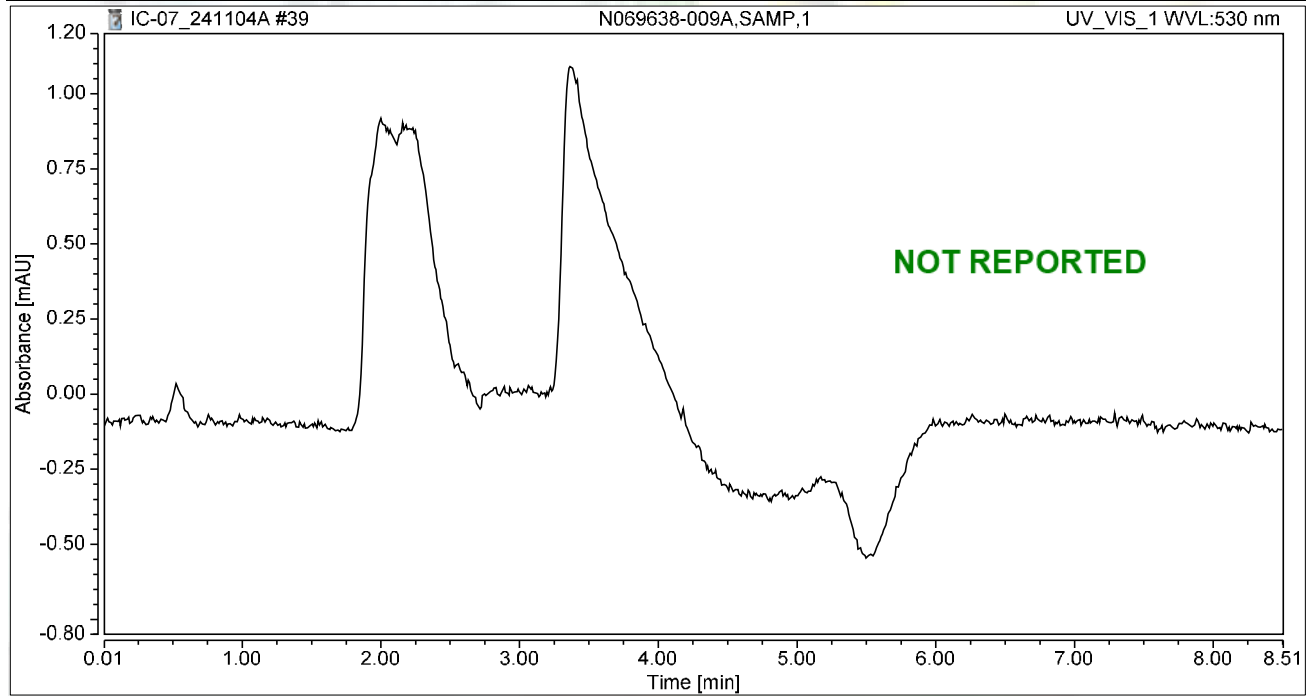
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.640	0.037	0.379	100.00	100.00	0.1306
Total:			0.037	0.379	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-009A,SAMP,1	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 16:56	Sample Weight:	1.0000

Chromatogram



Integration Results

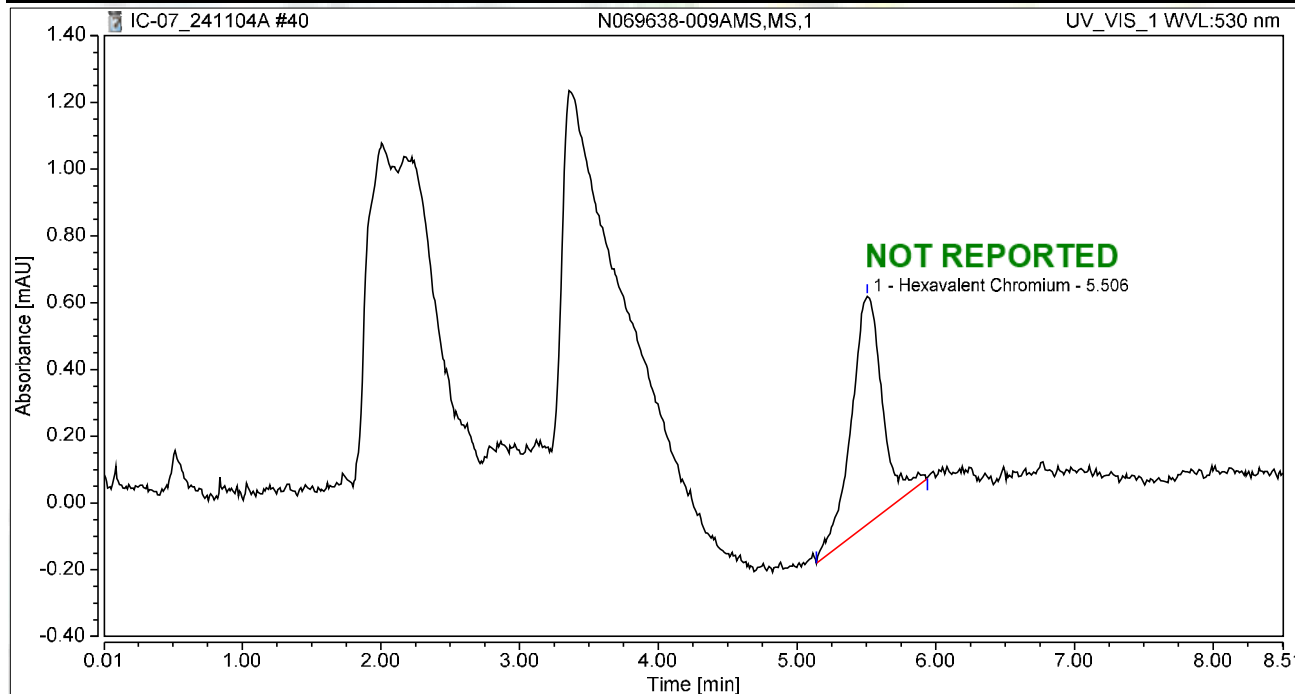
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-009AMS,MS,1	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 17:06	Sample Weight:	1.0000

Chromatogram



Integration Results

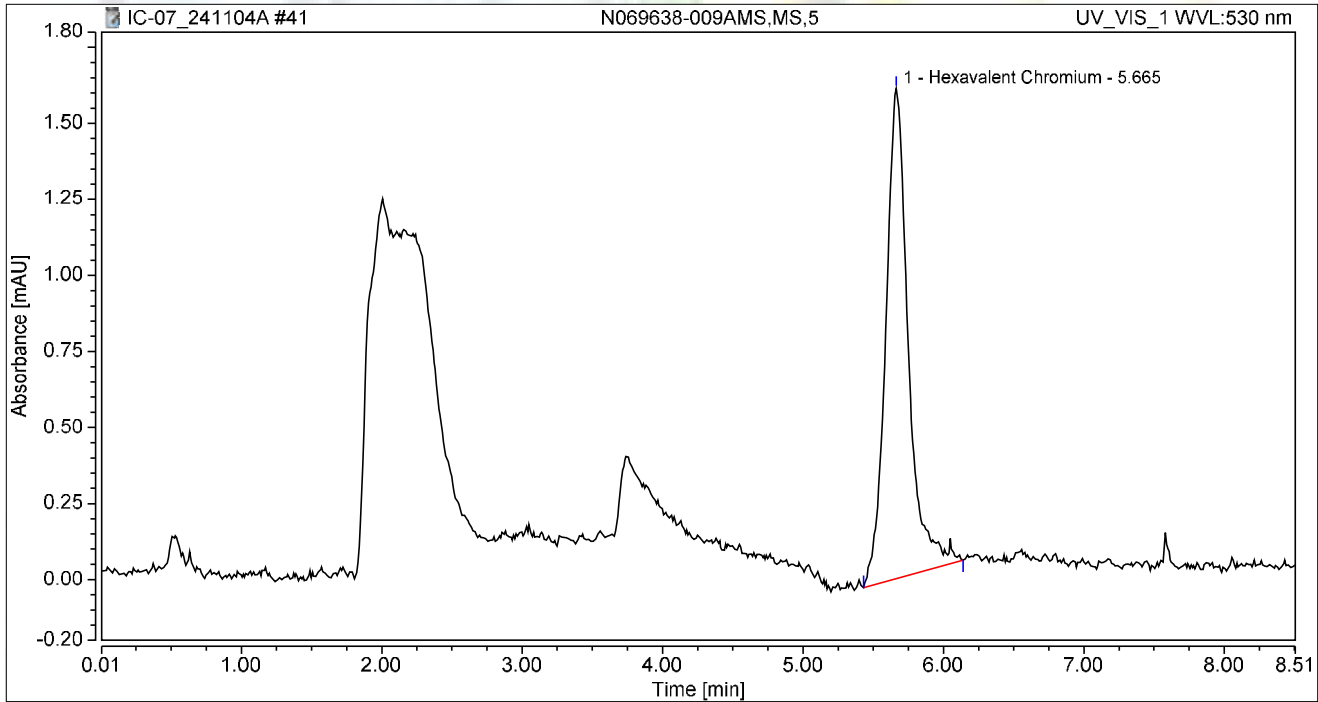
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.506	0.178	0.683	100.00	100.00	0.6275
Total:			0.178	0.683	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-009AMS,MS,5	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 17:15	Sample Weight:	1.0000

Chromatogram



Integration Results

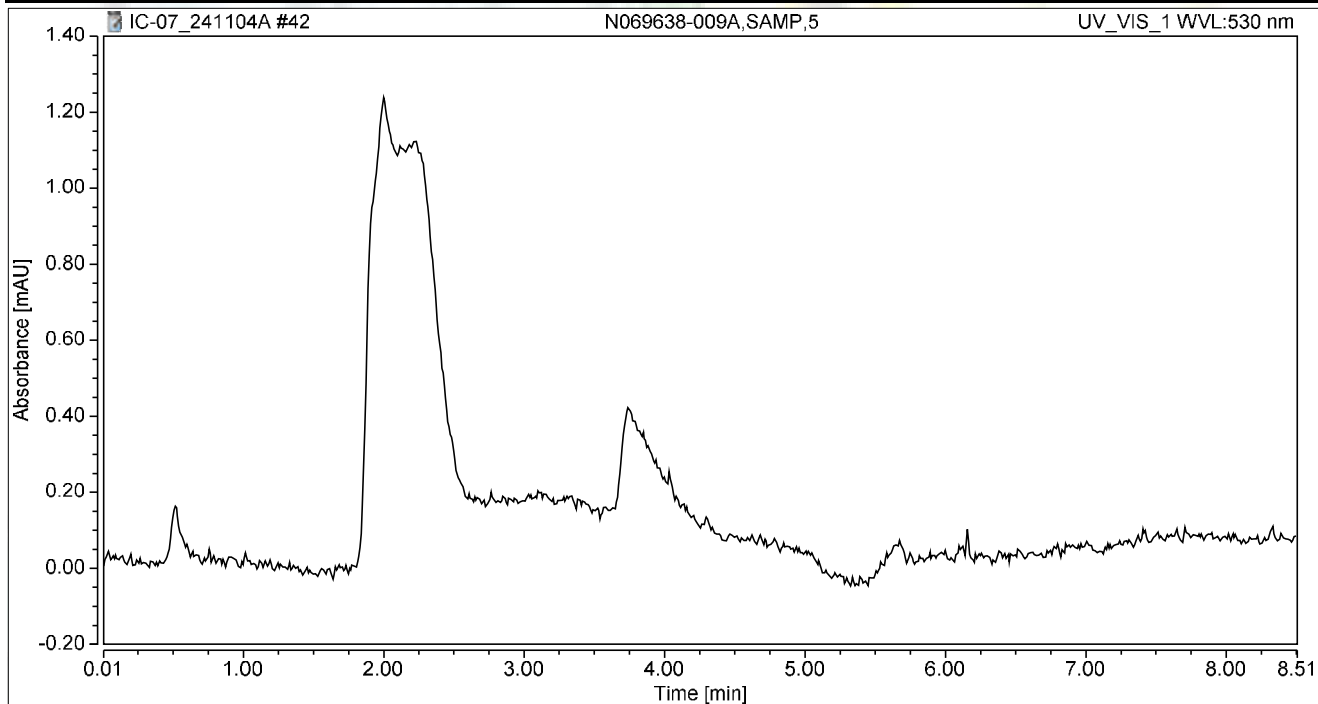
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.299	1.611	100.00	100.00	1.0549
Total:			0.299	1.611	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-009A,SAMP,5	Run Time (min):	8.50
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 17:25	Sample Weight:	1.0000

Chromatogram



Integration Results

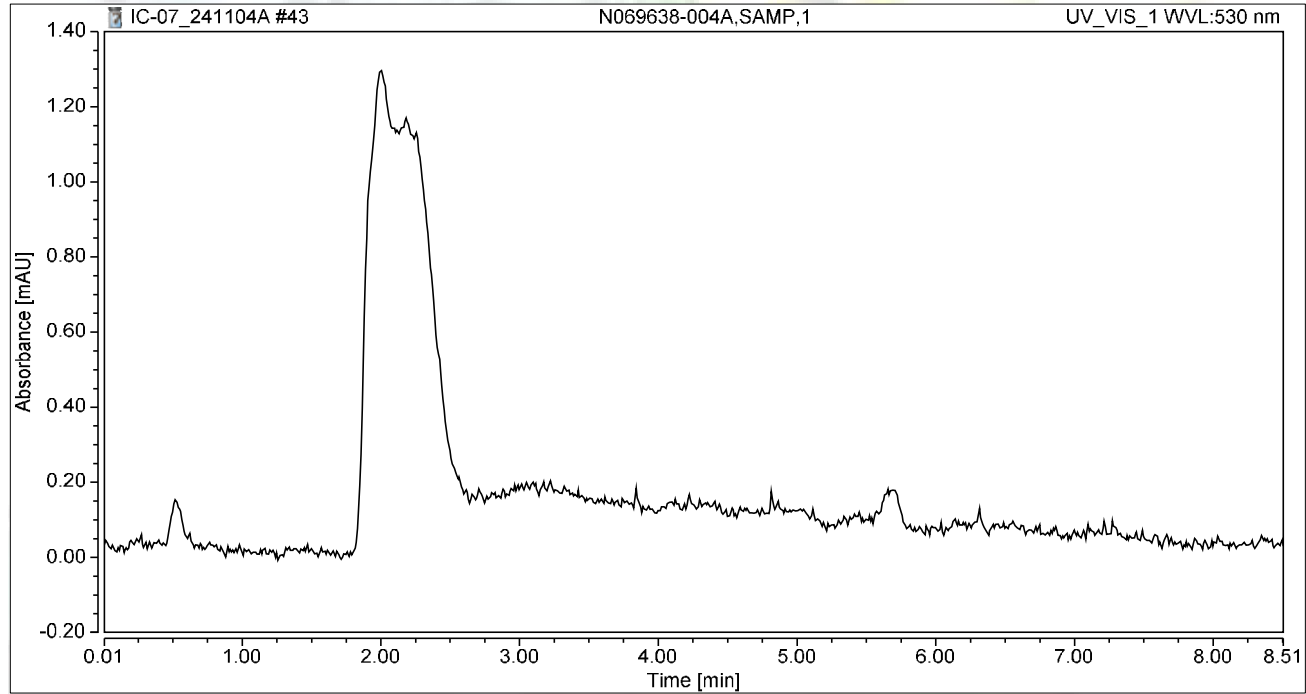
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-004A,SAMP,1	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 17:34	Sample Weight:	1.0000

Chromatogram



Integration Results

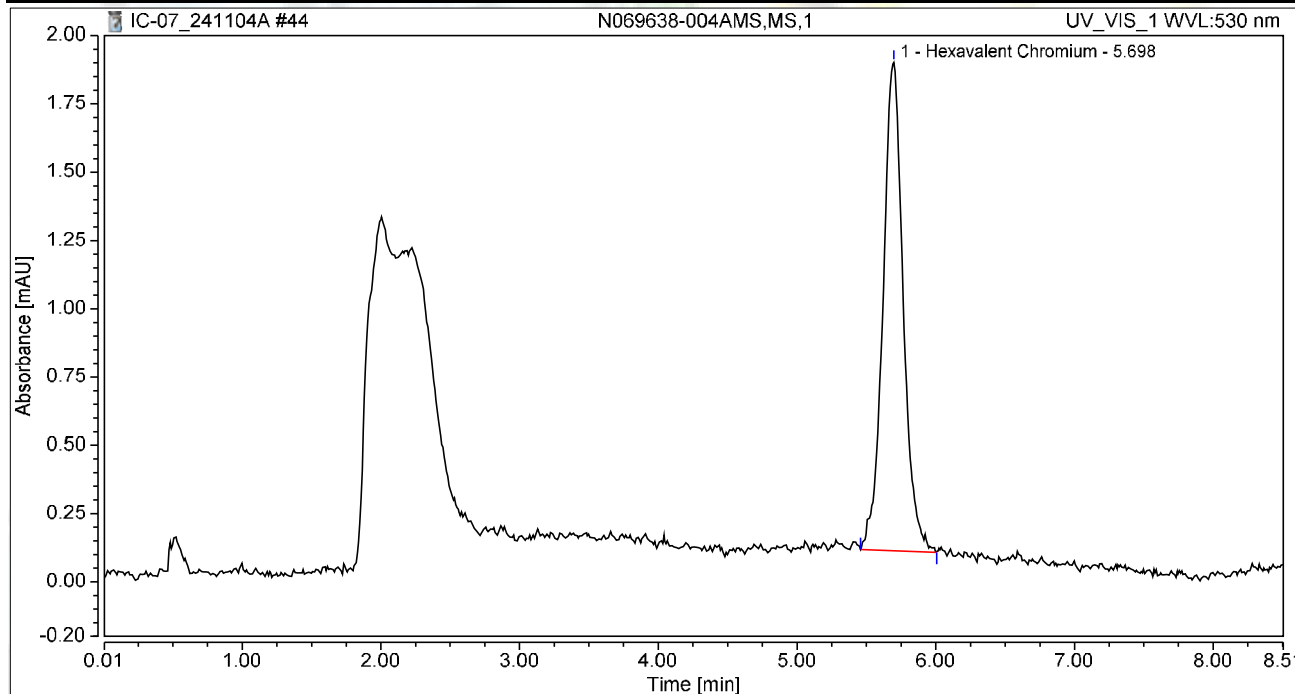
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-004AMS,MS,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 17:44	Sample Weight:	1.0000

Chromatogram



Integration Results

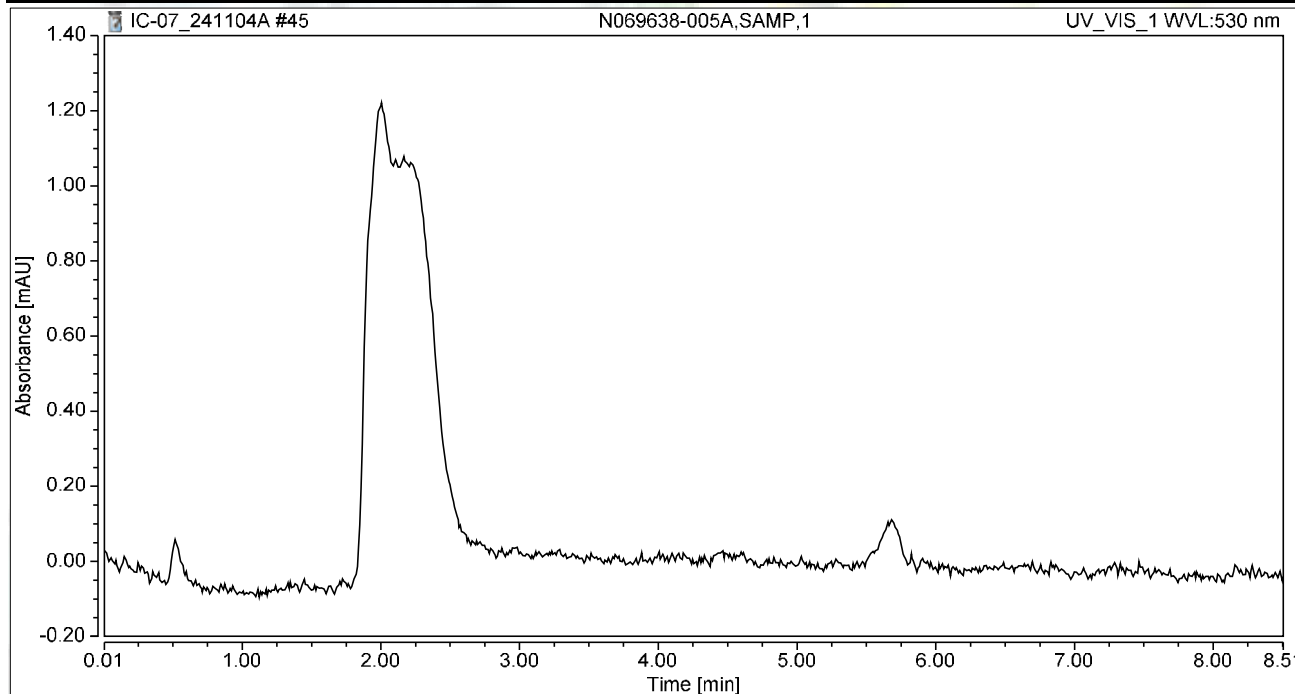
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	0.301	1.789	100.00	100.00	1.0618
Total:			0.301	1.789	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 17:53	Sample Weight:	1.0000

Chromatogram



Integration Results

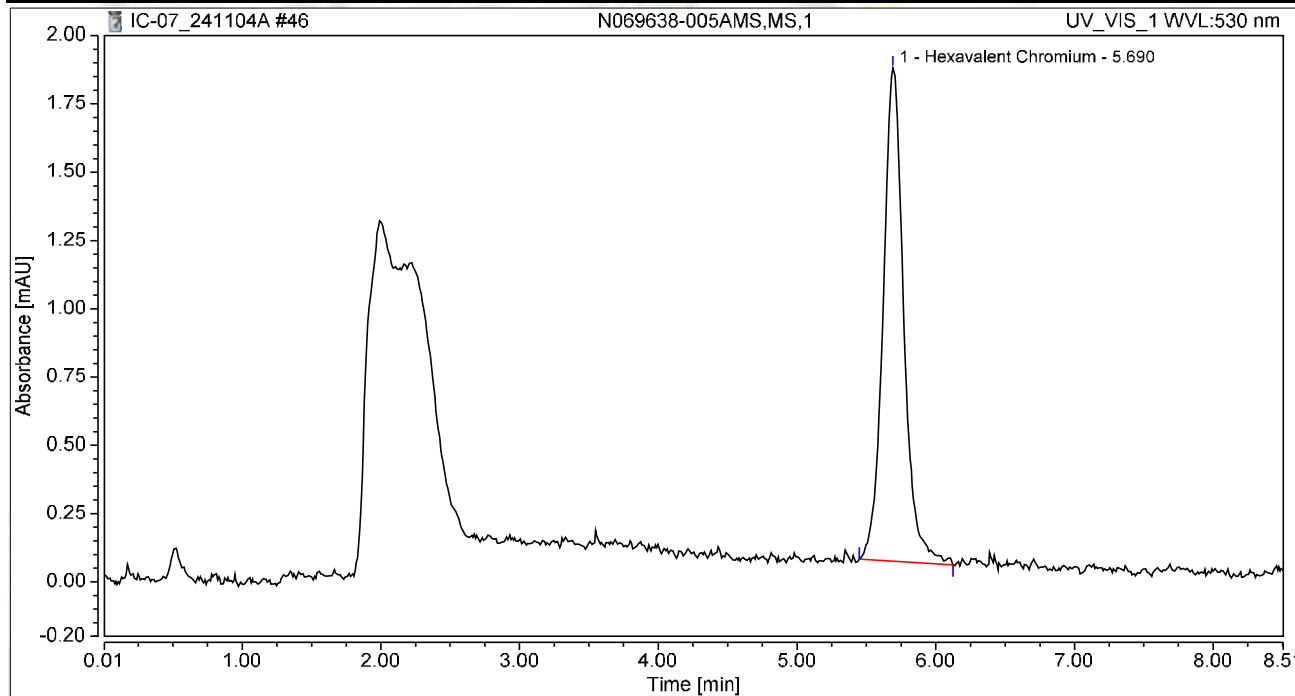
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-005AMS,MS,1	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 18:03	Sample Weight:	1.0000

Chromatogram



Integration Results

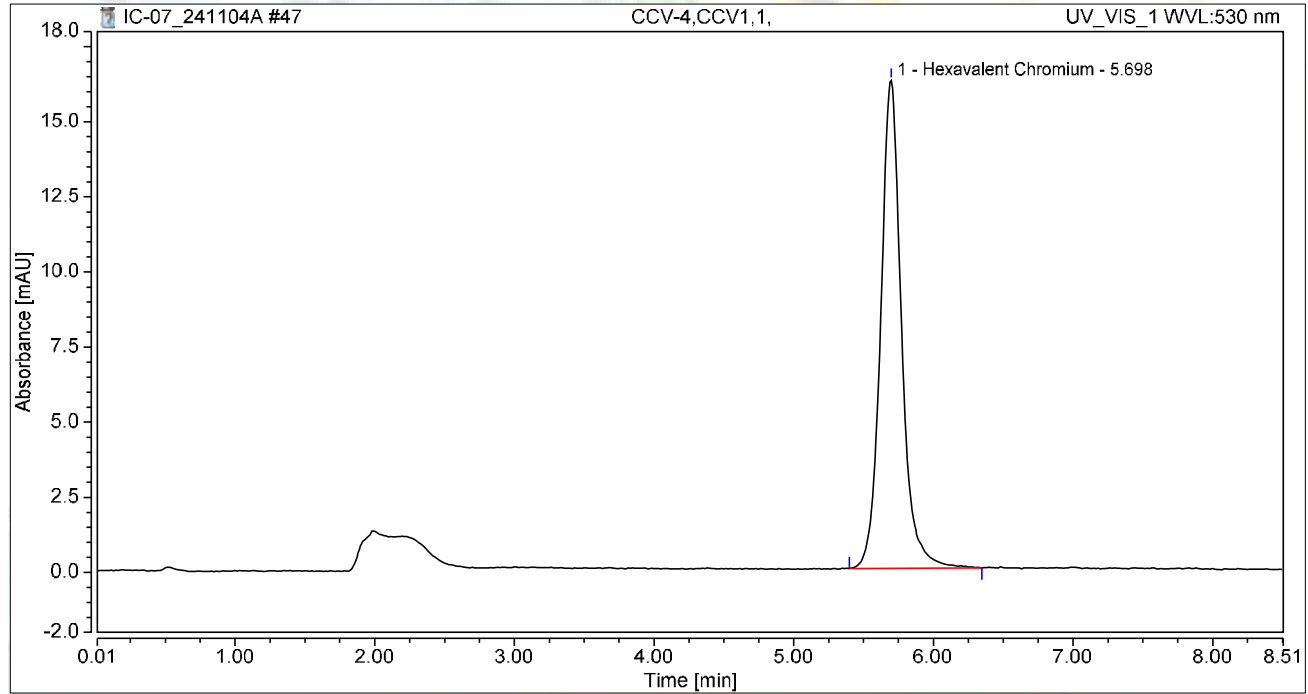
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.311	1.806	100.00	100.00	1.0954
Total:			0.311	1.806	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-4,CCV1,1,	Run Time (min):	8.49
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 18:12	Sample Weight:	1.0000

Chromatogram



Integration Results

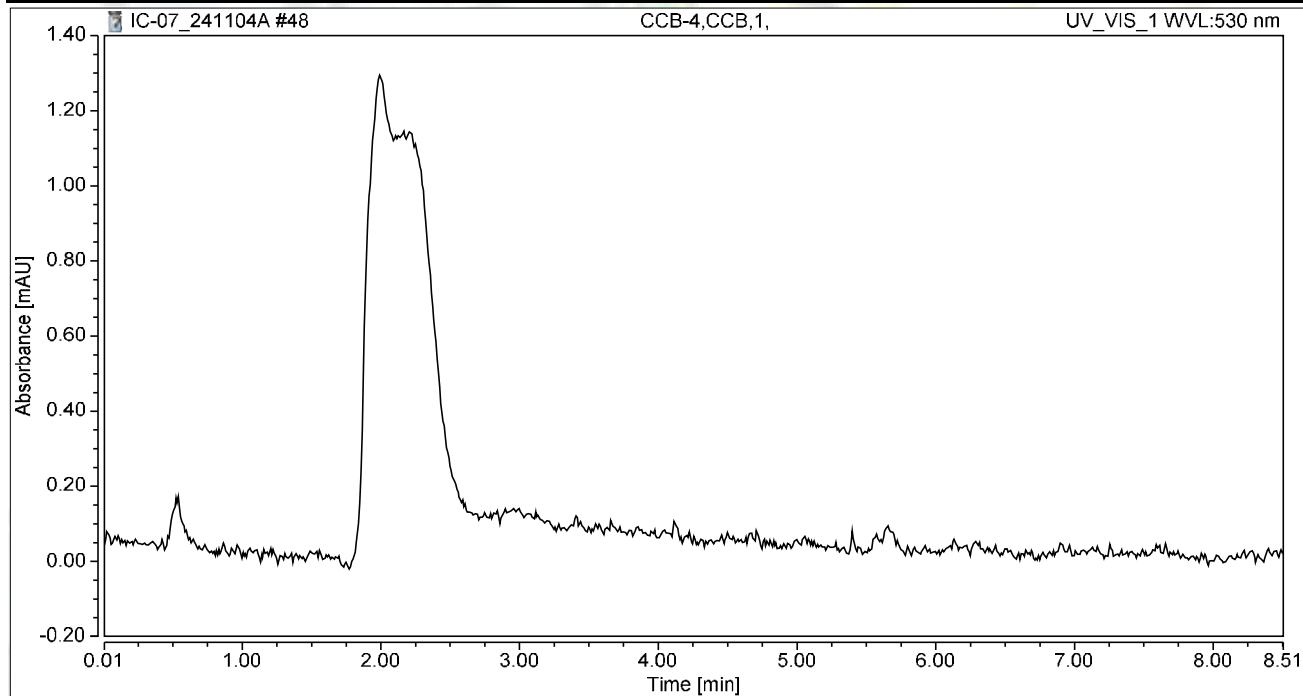
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	2.809	16.238	100.00	100.00	9.8987
Total:			2.809	16.238	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-4,CCB,1,	Run Time (min):	8.50
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 18:22	Sample Weight:	1.0000

Chromatogram



Integration Results

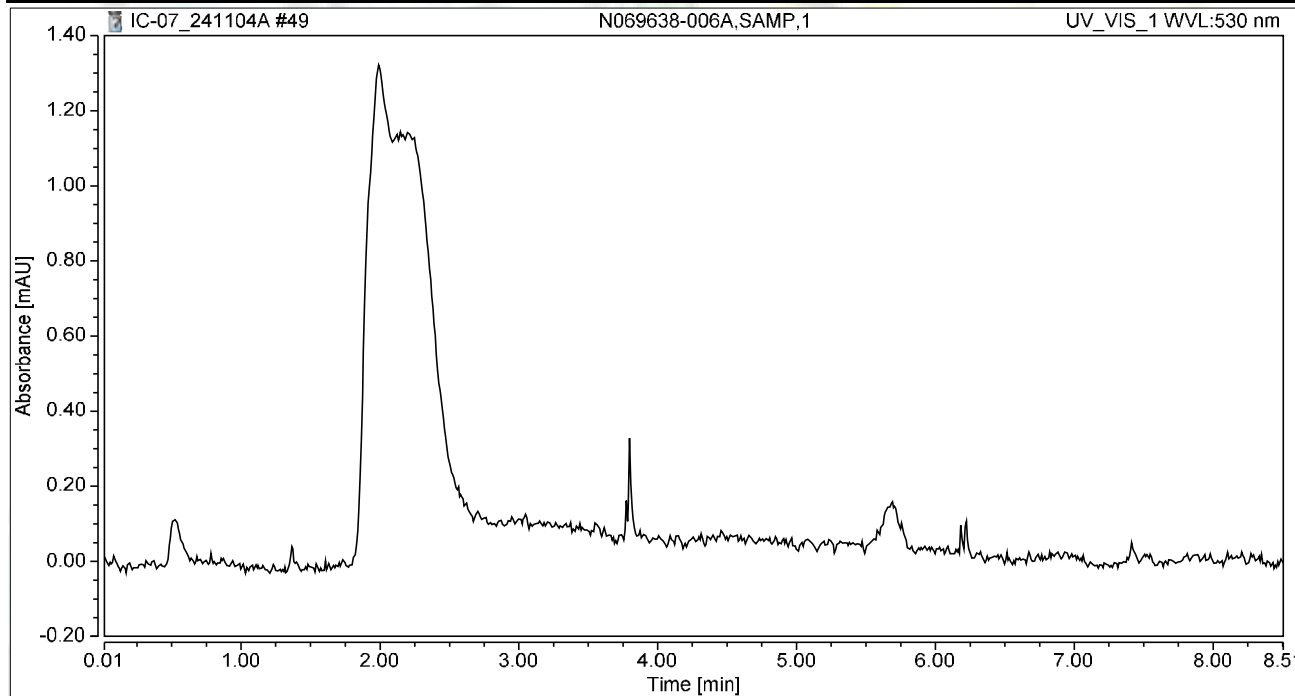
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-006A,SAMP,1	Run Time (min):	8.49
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 18:31	Sample Weight:	1.0000

Chromatogram



Integration Results

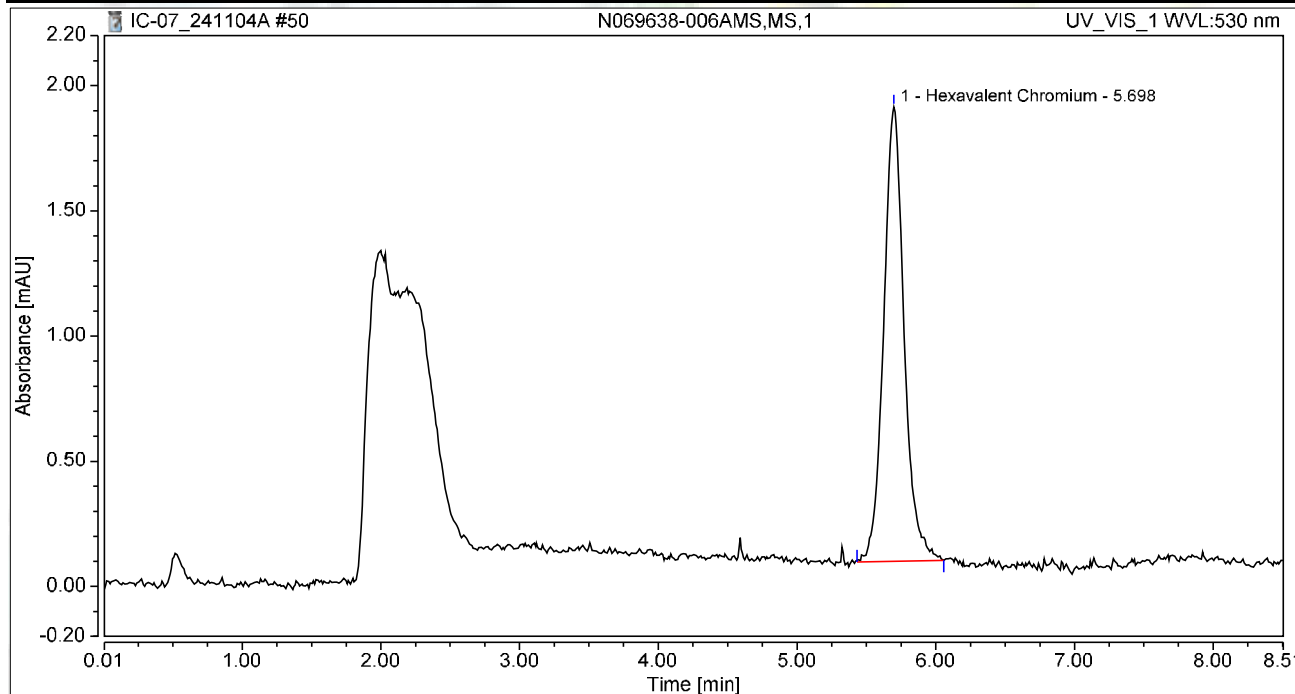
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-006AMS,MS,1	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 18:40	Sample Weight:	1.0000

Chromatogram



Integration Results

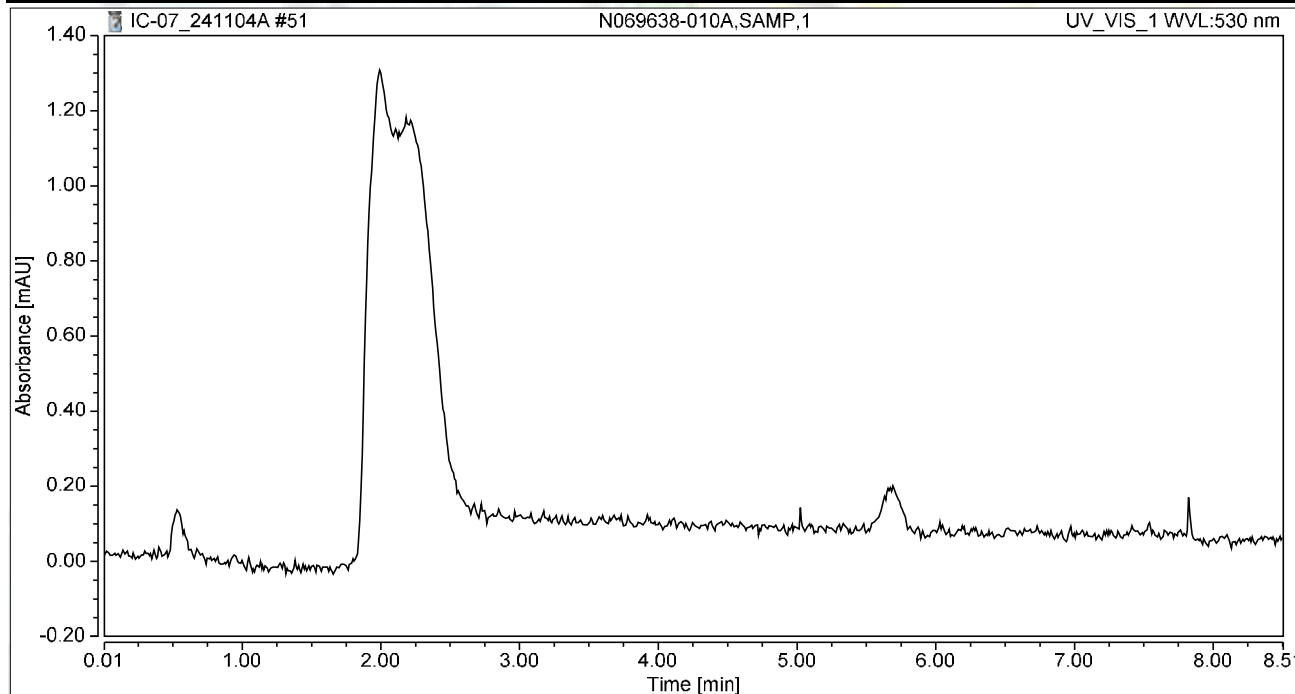
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	0.309	1.815	100.00	100.00	1.0907
Total:			0.309	1.815	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-010A,SAMP,1	Run Time (min):	8.50
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 18:50	Sample Weight:	1.0000

Chromatogram



Integration Results

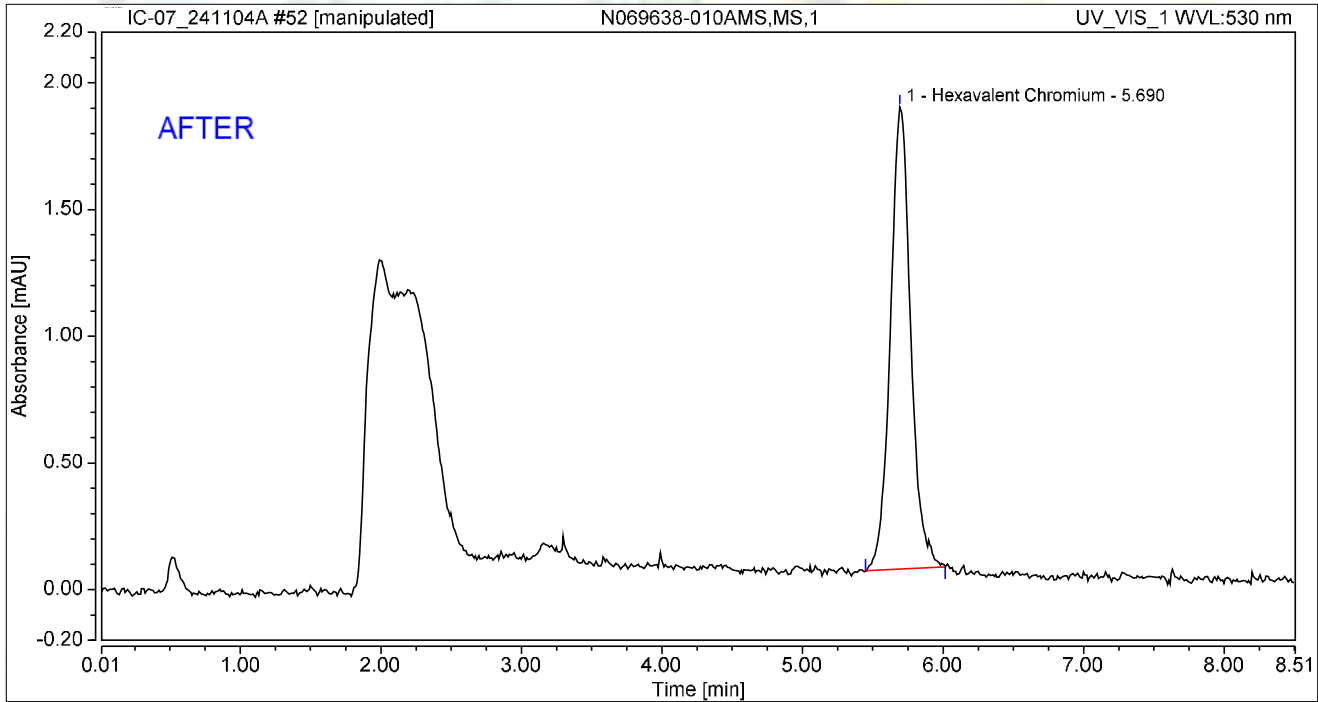
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069638-010AMS,MS,1	Run Time (min):	8.49
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 18:59	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.305	1.824	100.00	100.00	1.0755
Total:			0.305	1.824	100.00	100.00	

Reviewed by

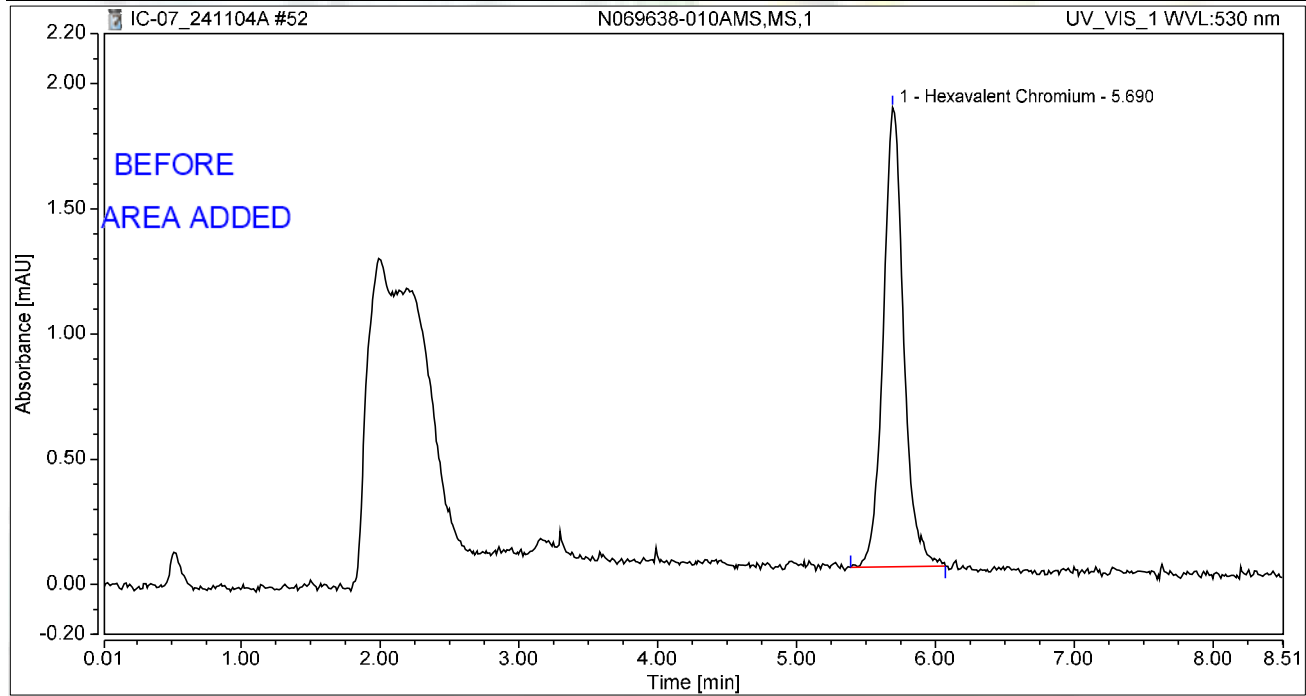
Nancy 11/05/2024

Chromatogram and Results

Injection Details

Injection Name:	N069638-010AMS,MS,1	Run Time (min):	8.49
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 18:59	Sample Weight:	1.0000

Chromatogram



Integration Results

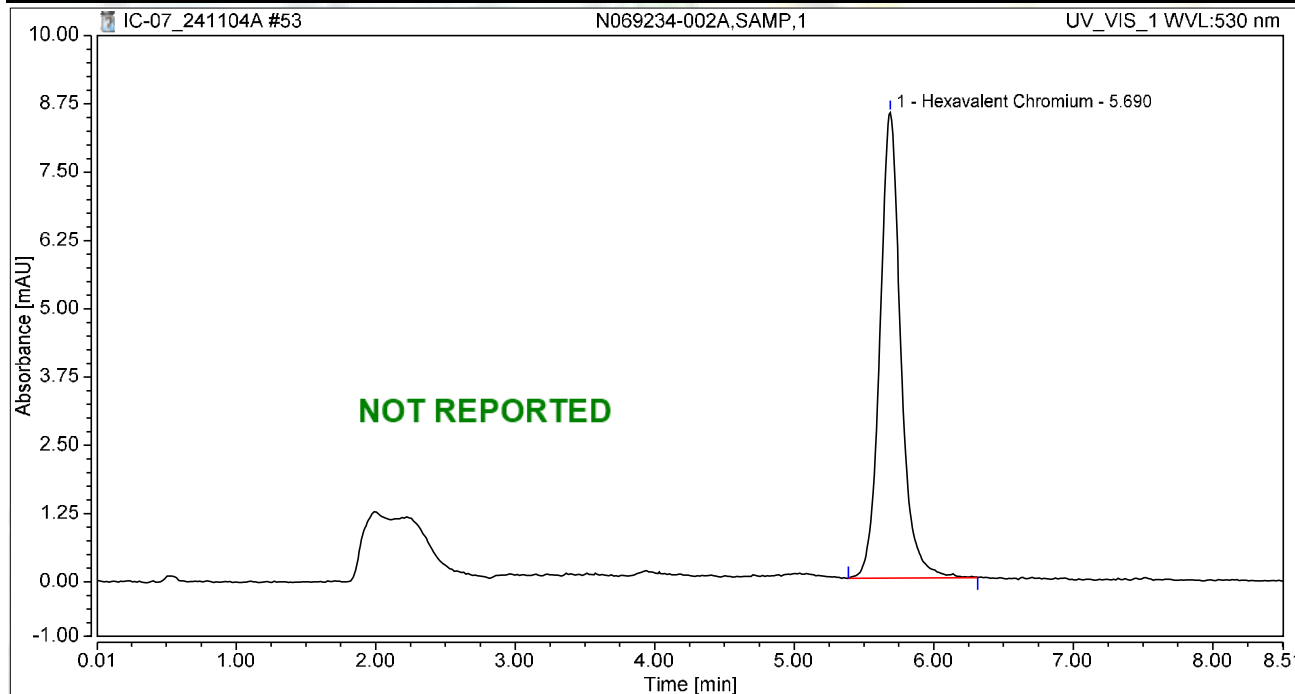
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.313	1.834	100.00	100.00	1.1039
Total:			0.313	1.834	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069234-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 19:11	Sample Weight:	1.0000

Chromatogram



Integration Results

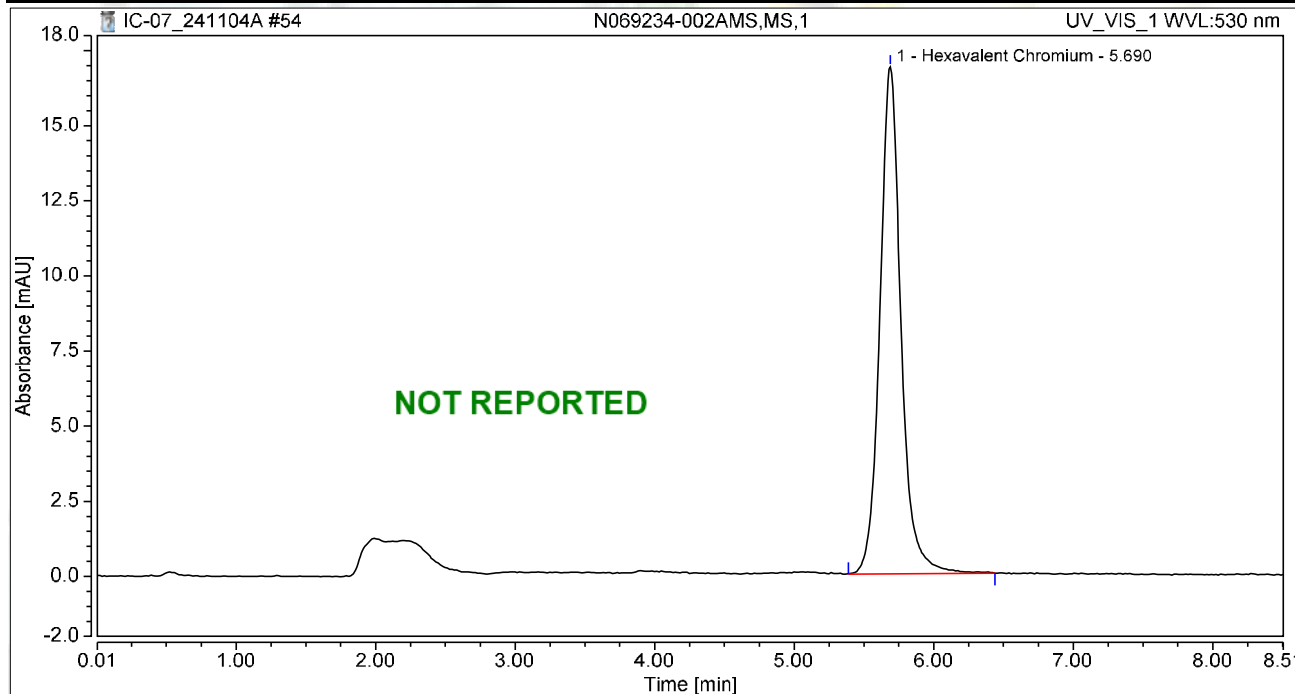
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	1.480	8.524	100.00	100.00	5.2174
Total:			1.480	8.524	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069234-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	30	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 19:21	Sample Weight:	1.0000

Chromatogram



Integration Results

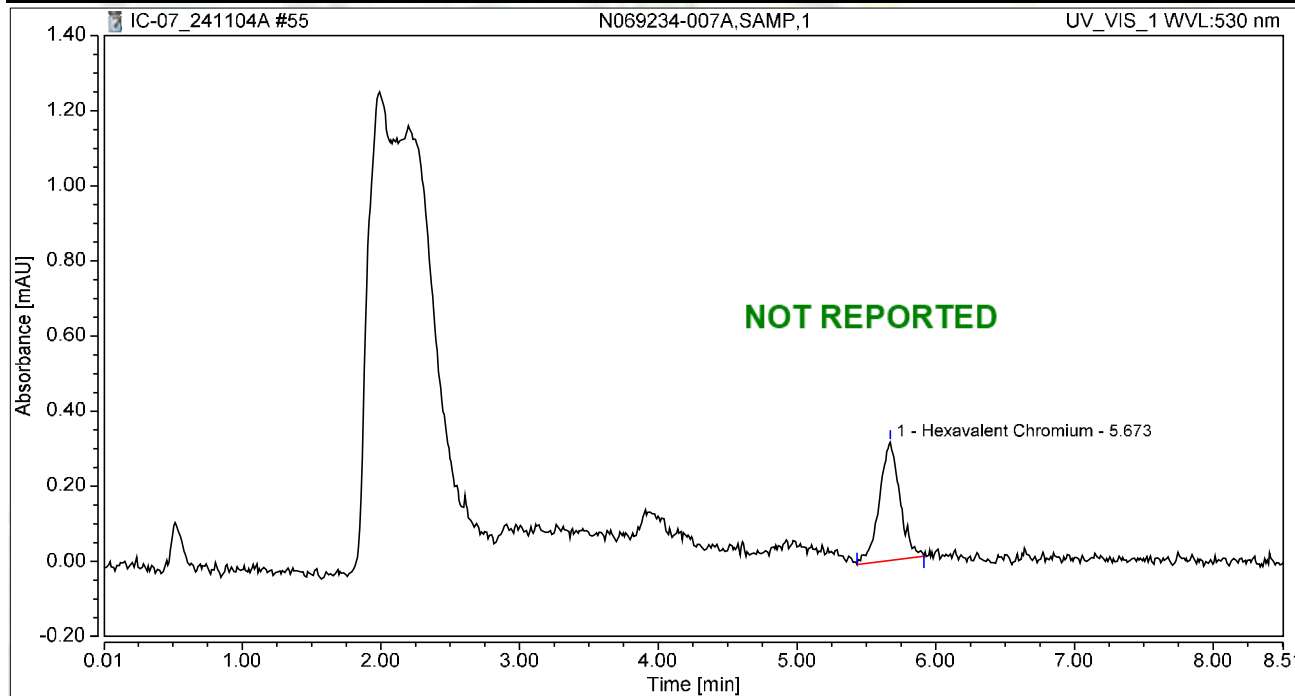
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	2.953	16.872	100.00	100.00	10.4064
Total:			2.953	16.872	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069234-007A,SAMP,1	Run Time (min):	8.50
Vial Number:	31	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 19:30	Sample Weight:	1.0000

Chromatogram



Integration Results

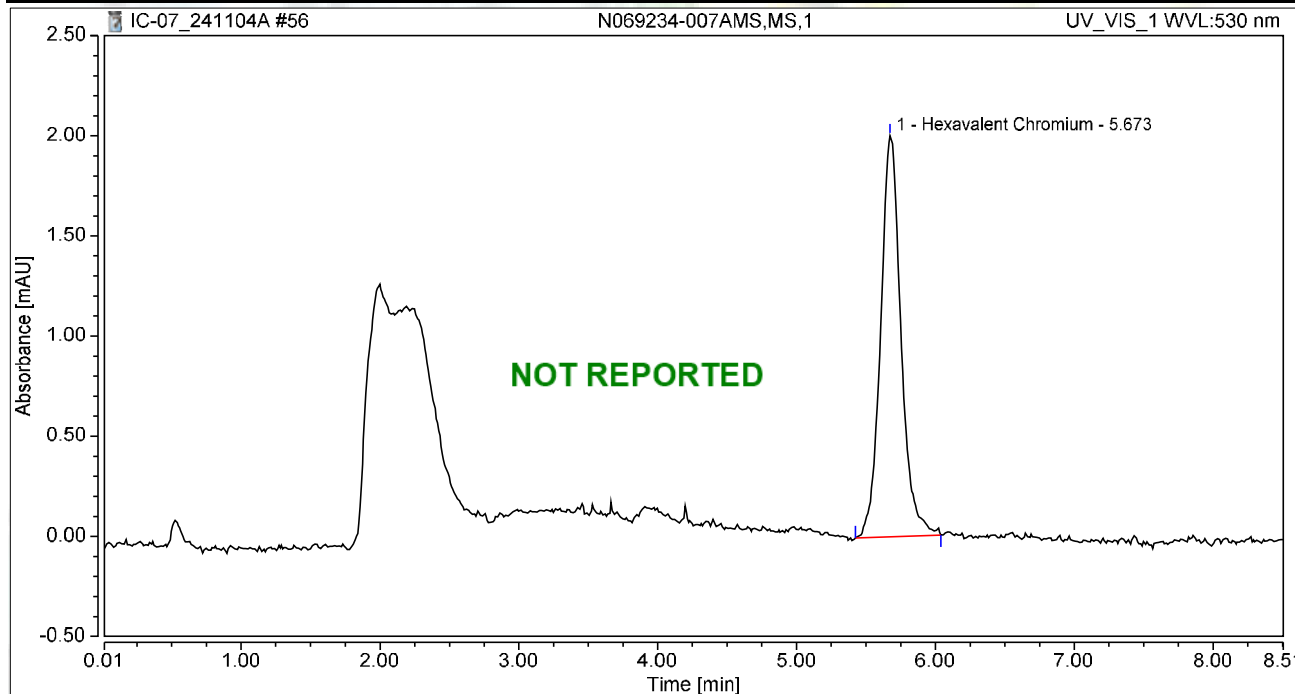
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.054	0.315	100.00	100.00	0.1894
Total:			0.054	0.315	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069234-007AMS,MS,1	Run Time (min):	8.49
Vial Number:	32	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 19:40	Sample Weight:	1.0000

Chromatogram



Integration Results

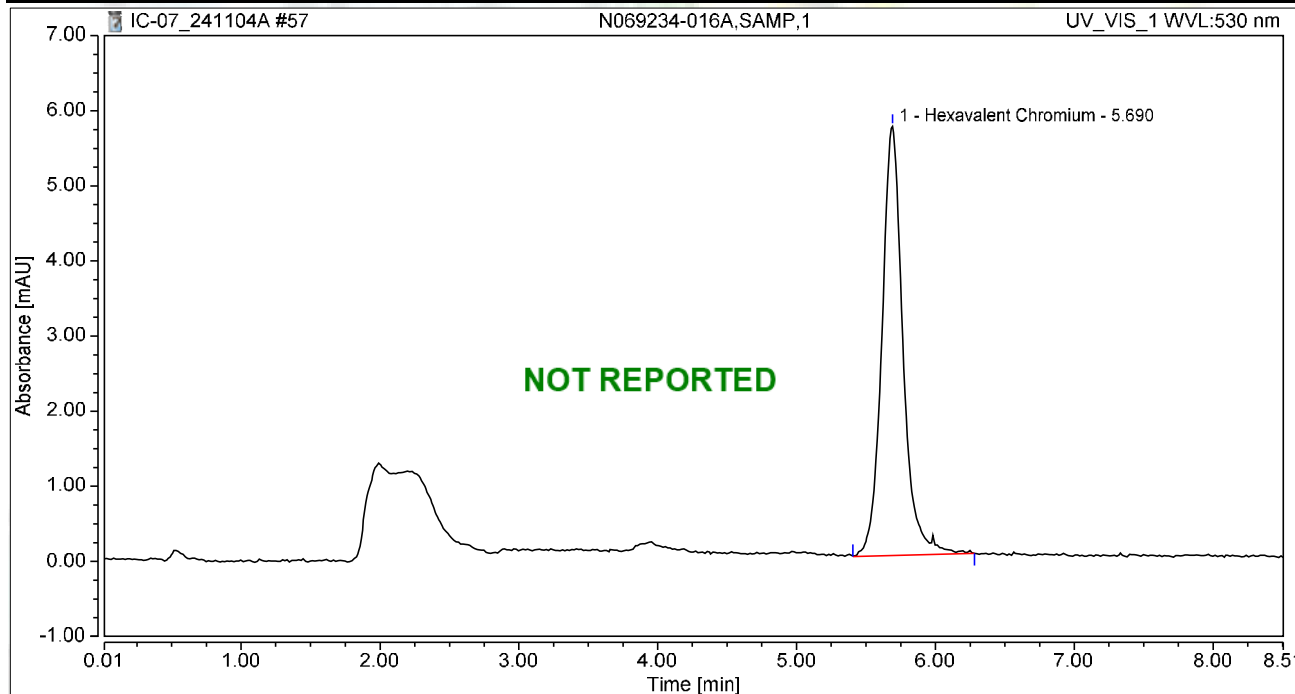
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	0.341	2.002	100.00	100.00	1.2019
Total:			0.341	2.002	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069234-016A,SAMP,1	Run Time (min):	8.49
Vial Number:	33	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 19:49	Sample Weight:	1.0000

Chromatogram



Integration Results

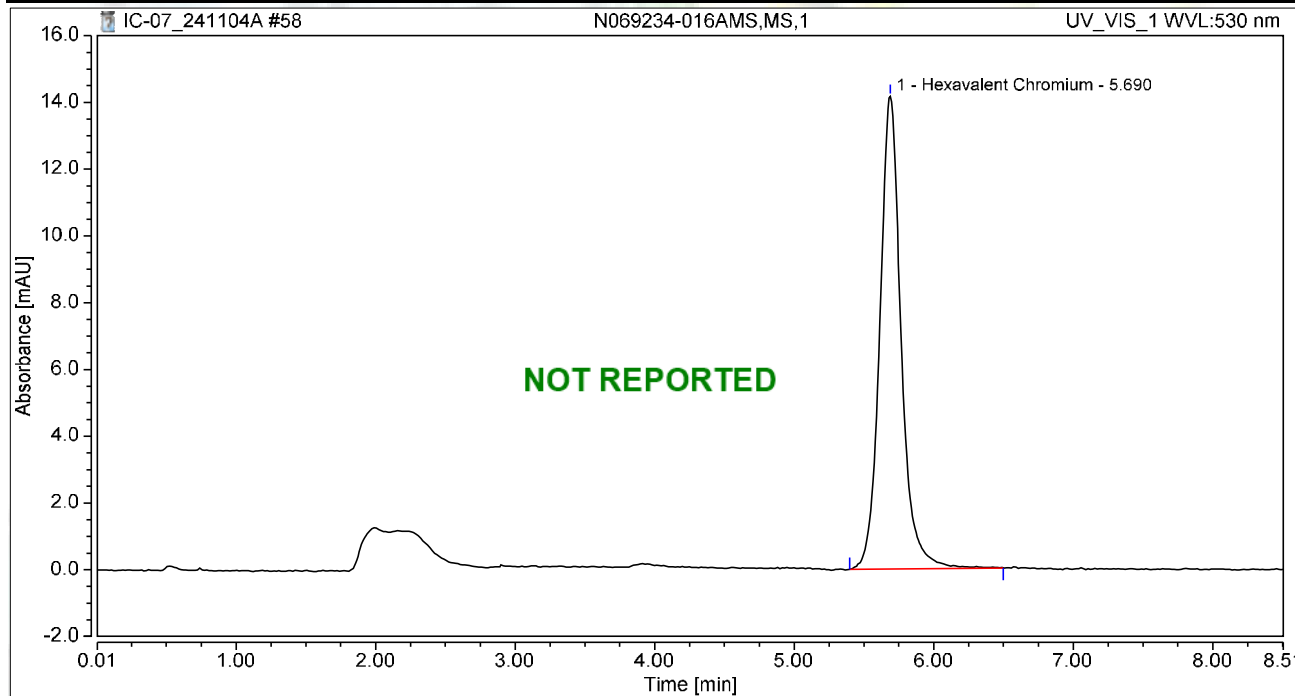
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	1.009	5.712	100.00	100.00	3.5554
Total:			1.009	5.712	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069234-016AMS,MS,1	Run Time (min):	8.50
Vial Number:	34	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 19:59	Sample Weight:	1.0000

Chromatogram



Integration Results

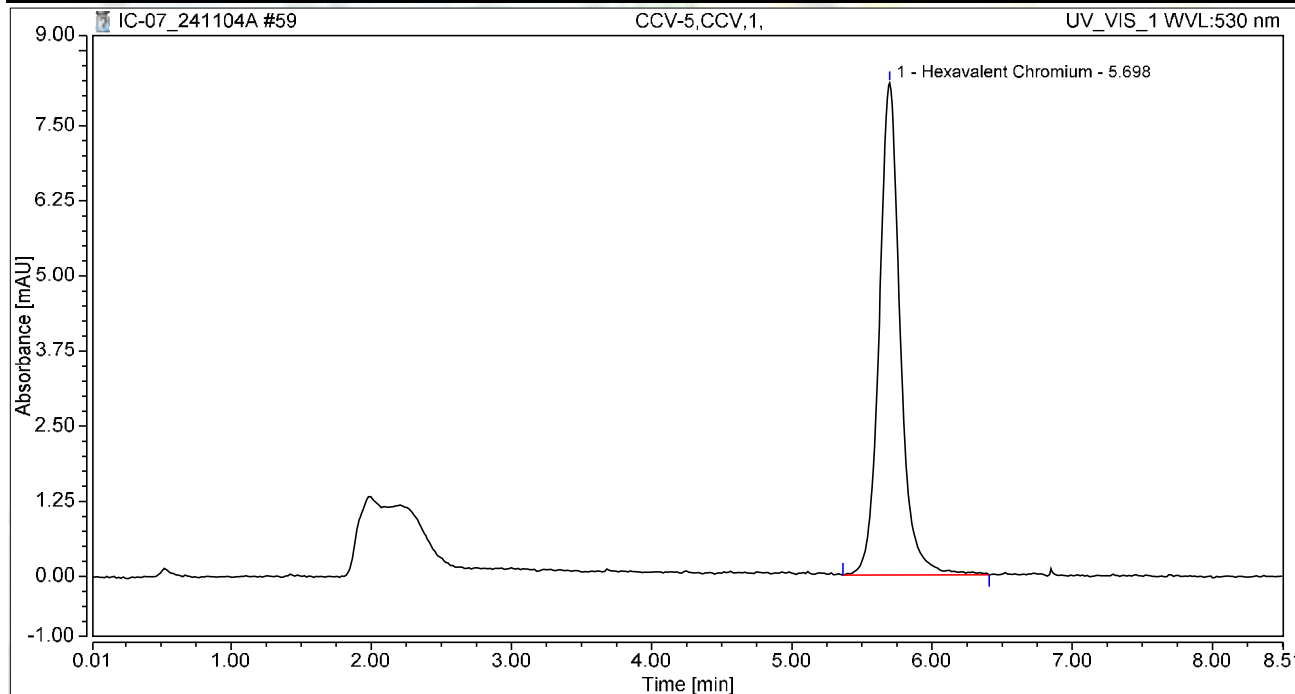
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	2.501	14.160	100.00	100.00	8.8129
Total:			2.501	14.160	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.49
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 20:08	Sample Weight:	1.0000

Chromatogram



Integration Results

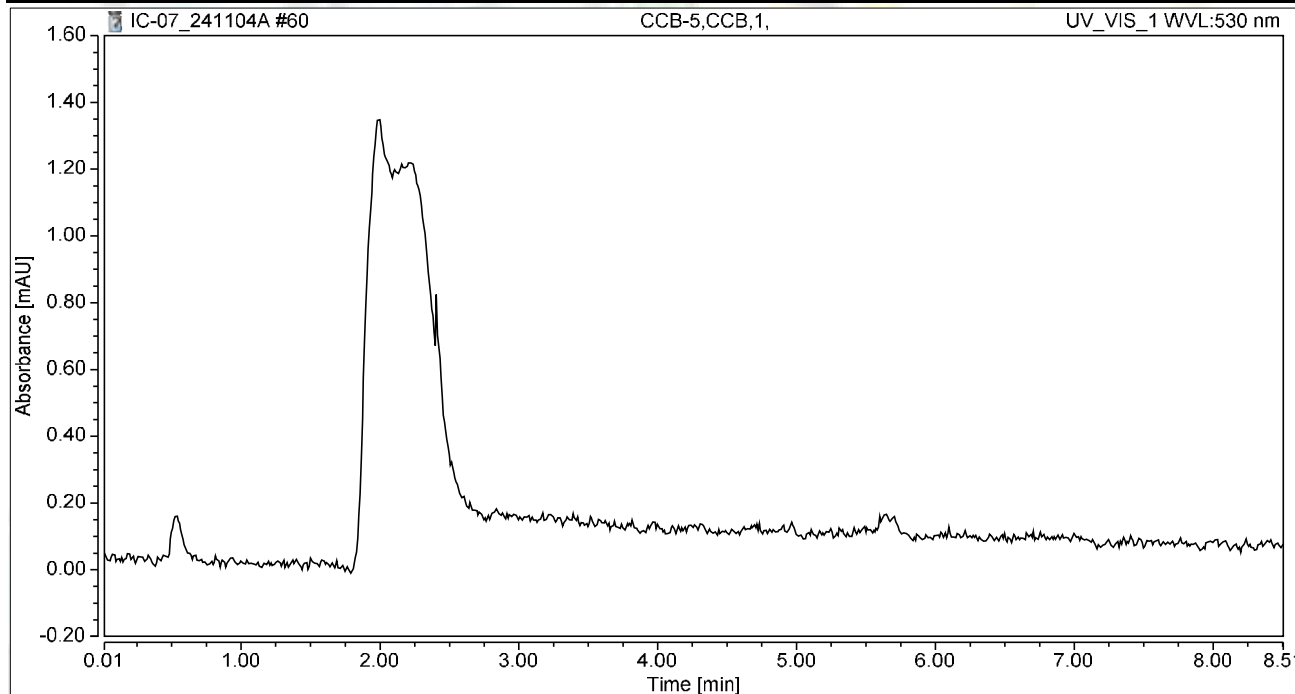
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	1.427	8.187	100.00	100.00	5.0277
Total:			1.427	8.187	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.49
Vial Number:	36	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 20:18	Sample Weight:	1.0000

Chromatogram



Integration Results

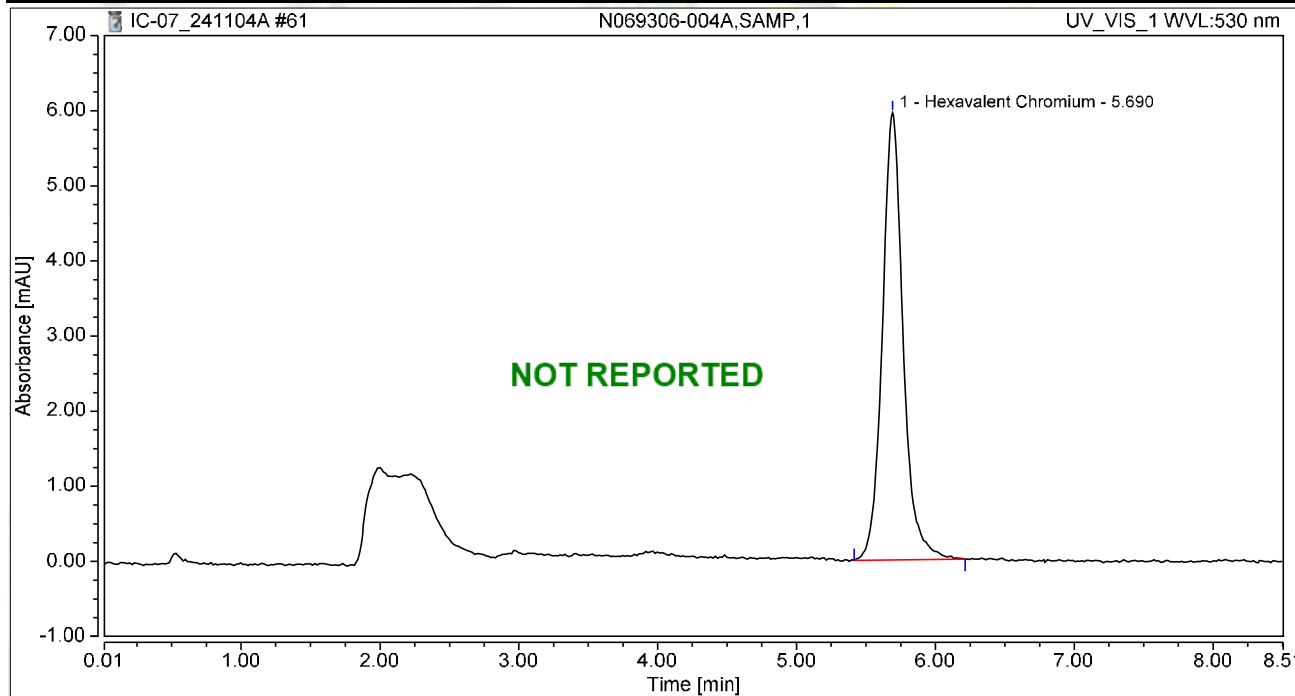
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069306-004A,SAMP,1	Run Time (min):	8.49
Vial Number:	37	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 20:27	Sample Weight:	1.0000

Chromatogram



Integration Results

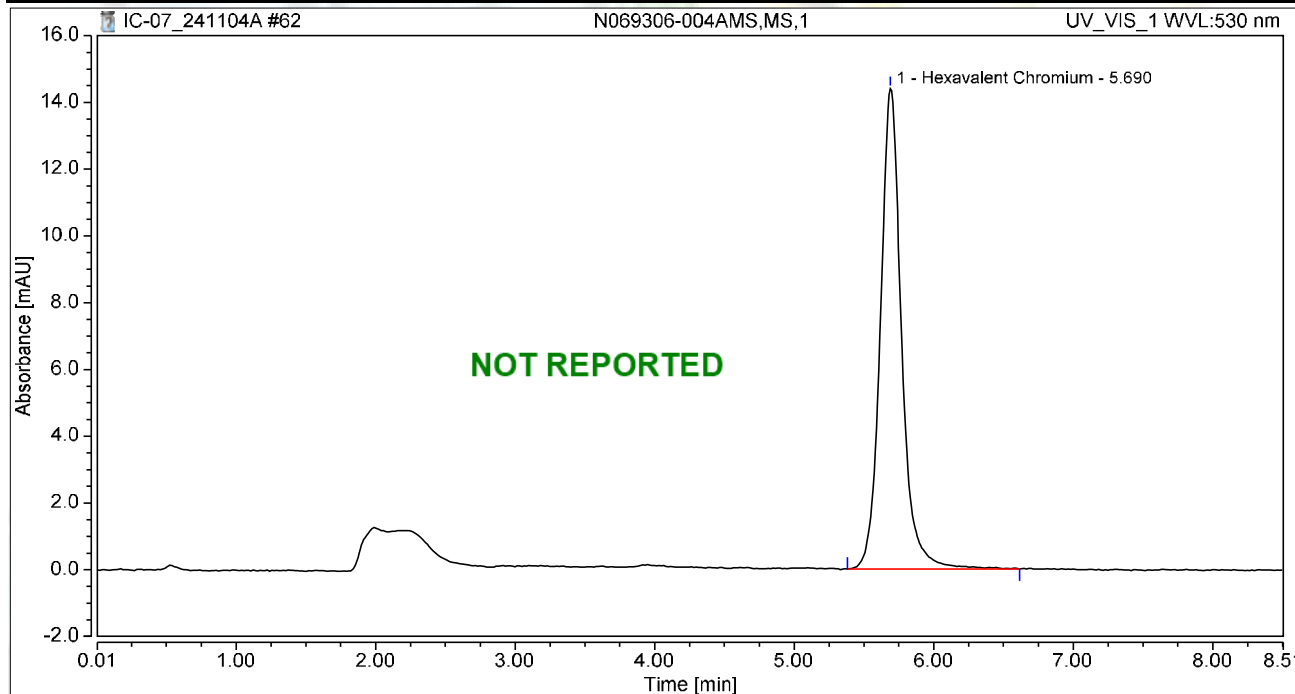
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	1.035	5.952	100.00	100.00	3.6459
Total:			1.035	5.952	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069306-004AMS,MS,1	Run Time (min):	8.50
Vial Number:	38	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 20:37	Sample Weight:	1.0000

Chromatogram



Integration Results

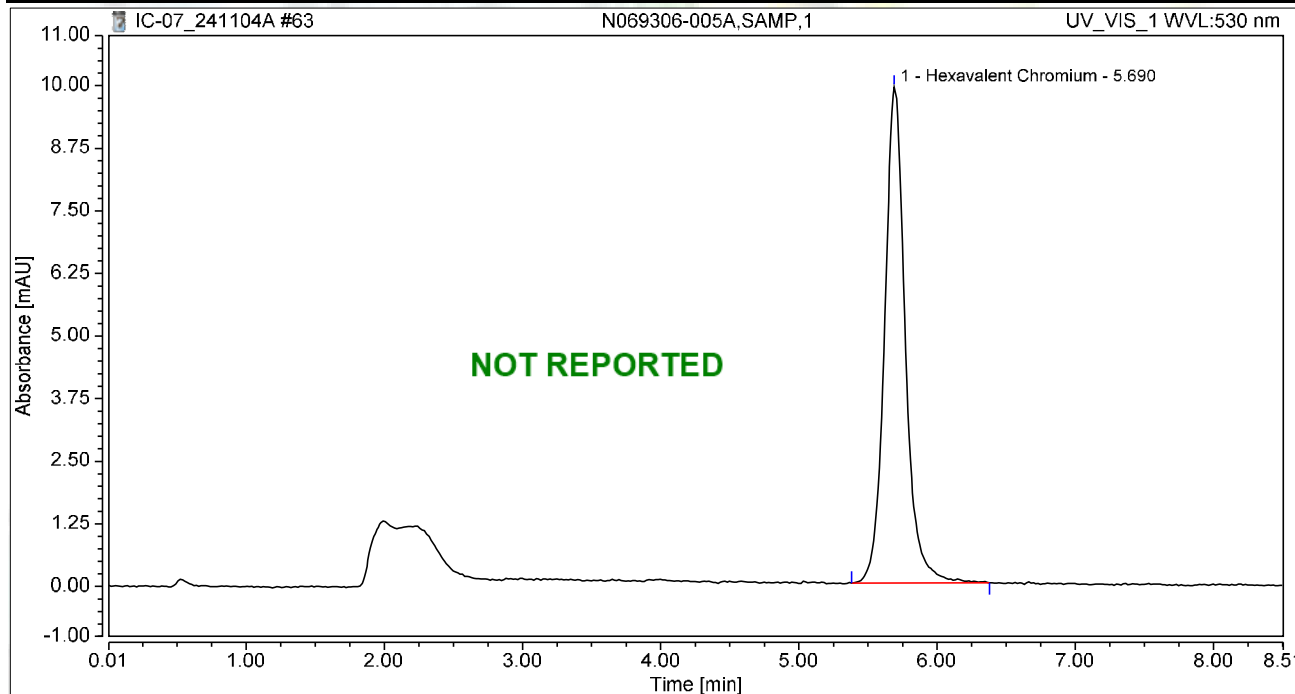
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	2.520	14.390	100.00	100.00	8.8815
Total:			2.520	14.390	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069306-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	39	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 20:46	Sample Weight:	1.0000

Chromatogram



Integration Results

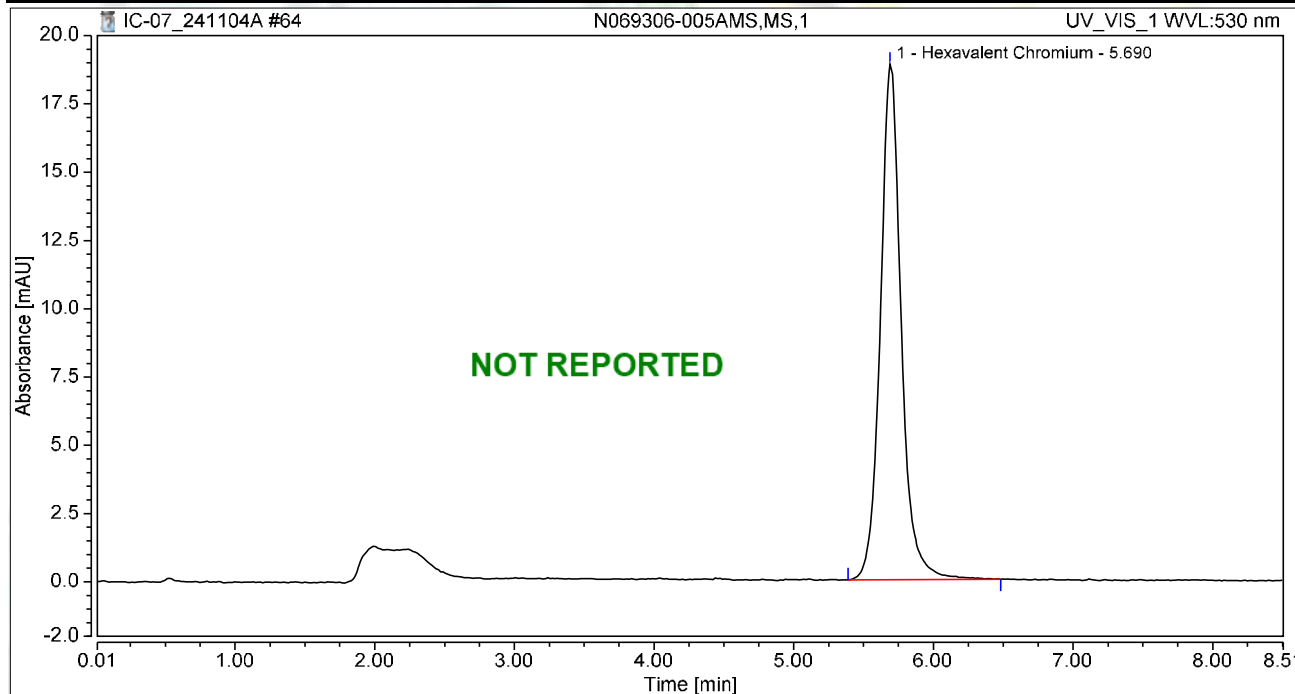
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	1.718	9.900	100.00	100.00	6.0548
Total:			1.718	9.900	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069306-005AMS,MS,1	Run Time (min):	8.49
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 20:55	Sample Weight:	1.0000

Chromatogram



Integration Results

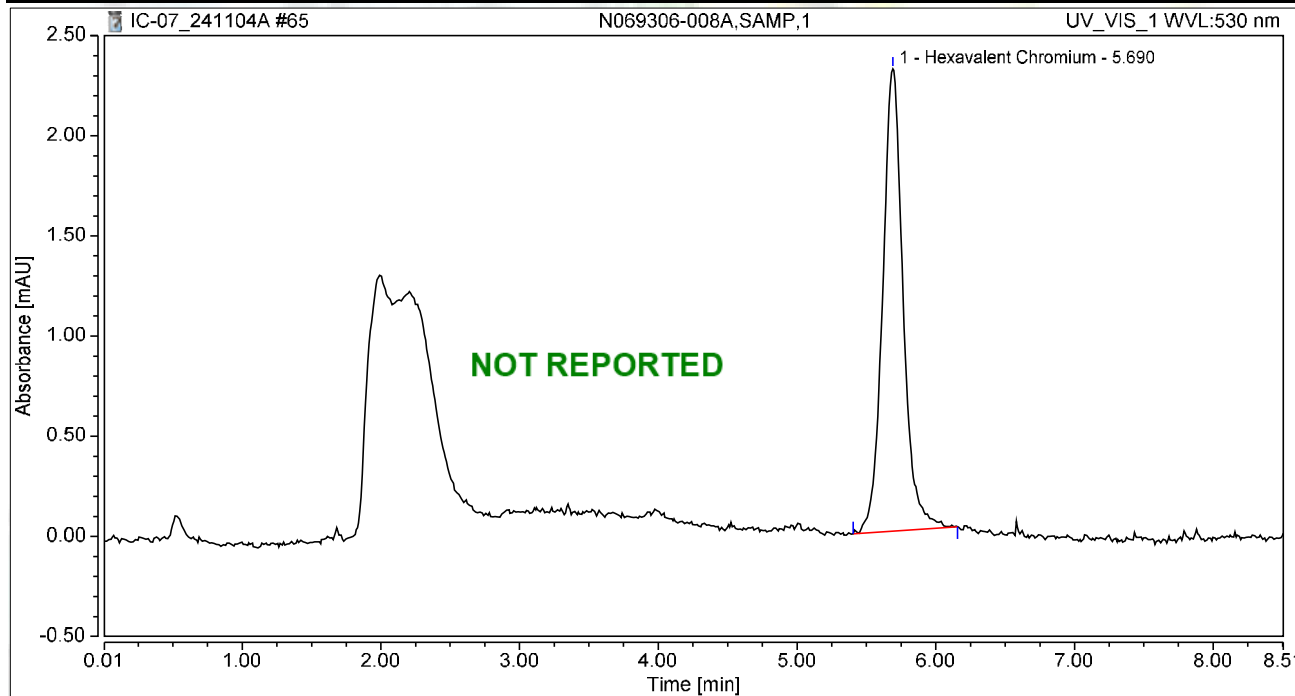
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	3.279	18.881	100.00	100.00	11.5546
Total:			3.279	18.881	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069306-008A,SAMP,1	Run Time (min):	8.50
Vial Number:	41	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 21:05	Sample Weight:	1.0000

Chromatogram



Integration Results

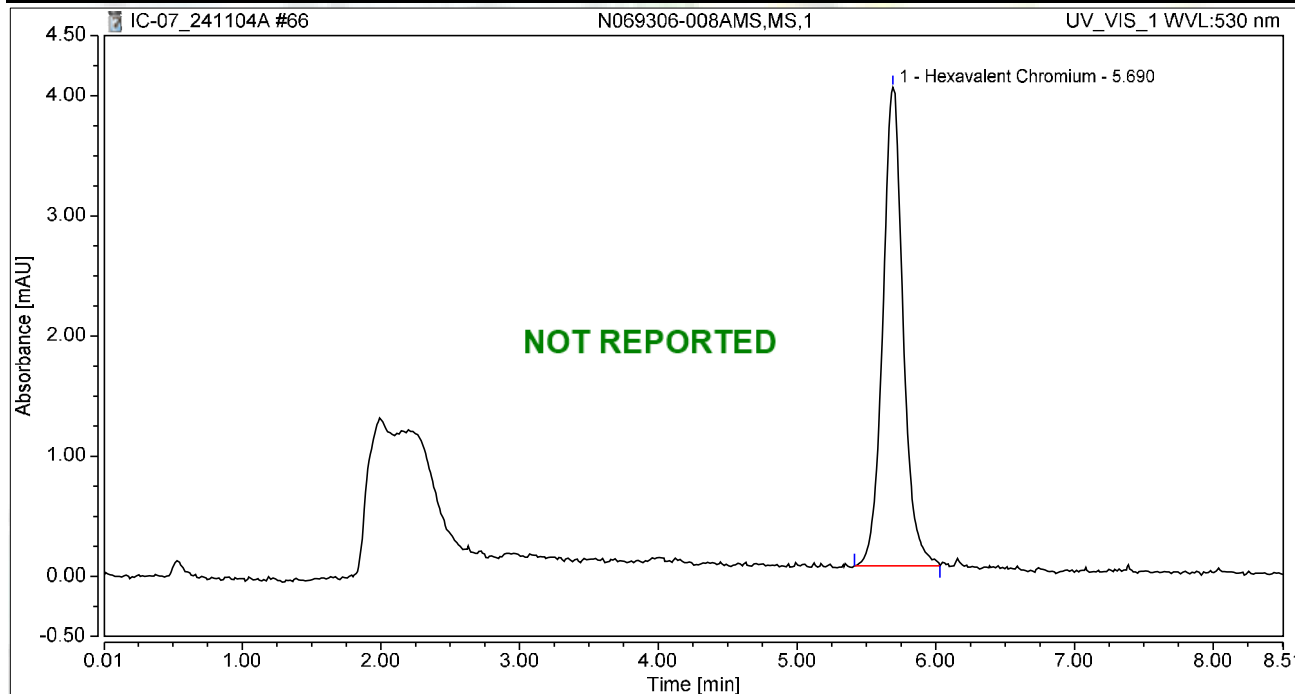
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.394	2.308	100.00	100.00	1.3871
Total:			0.394	2.308	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069306-008AMS,MS,1	Run Time (min):	8.50
Vial Number:	42	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 21:14	Sample Weight:	1.0000

Chromatogram



Integration Results

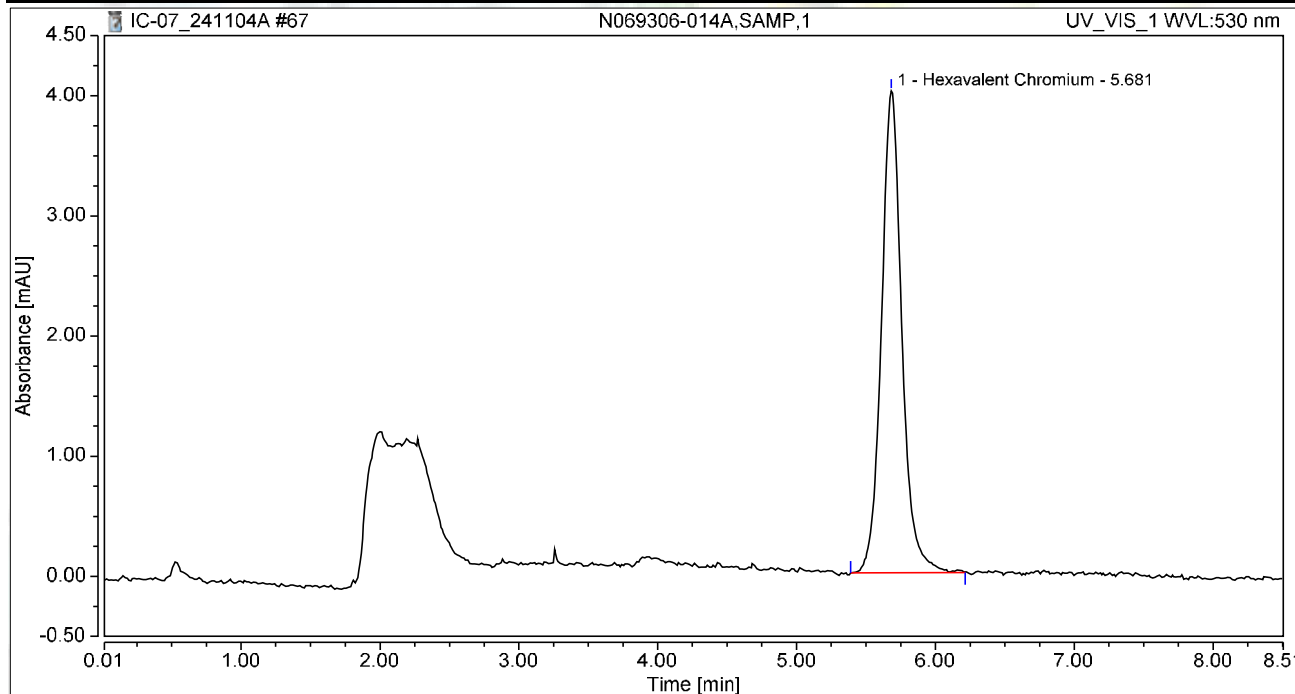
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.674	3.980	100.00	100.00	2.3765
Total:			0.674	3.980	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069306-014A,SAMP,1	Run Time (min):	8.49
Vial Number:	43	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 21:24	Sample Weight:	1.0000

Chromatogram



Integration Results

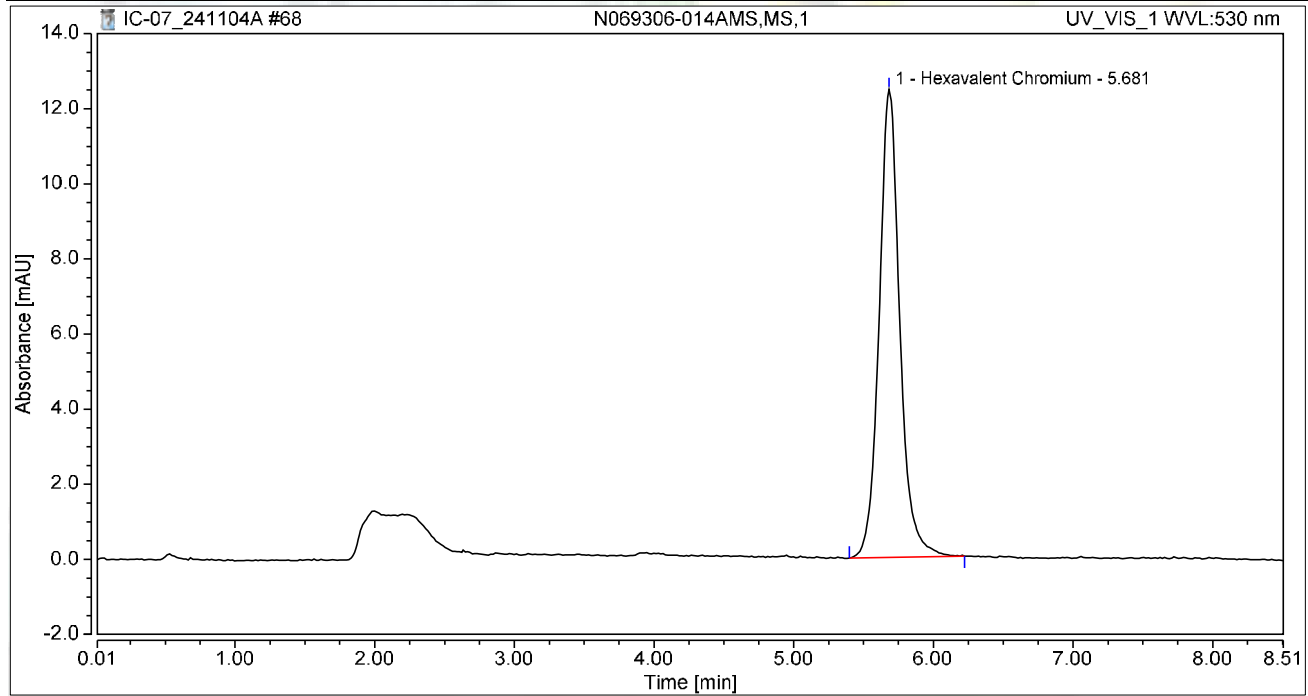
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.687	4.010	100.00	100.00	2.4197
Total:			0.687	4.010	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069306-014AMS,MS,1	Run Time (min):	8.49
Vial Number:	44	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 21:33	Sample Weight:	1.0000

Chromatogram



Integration Results

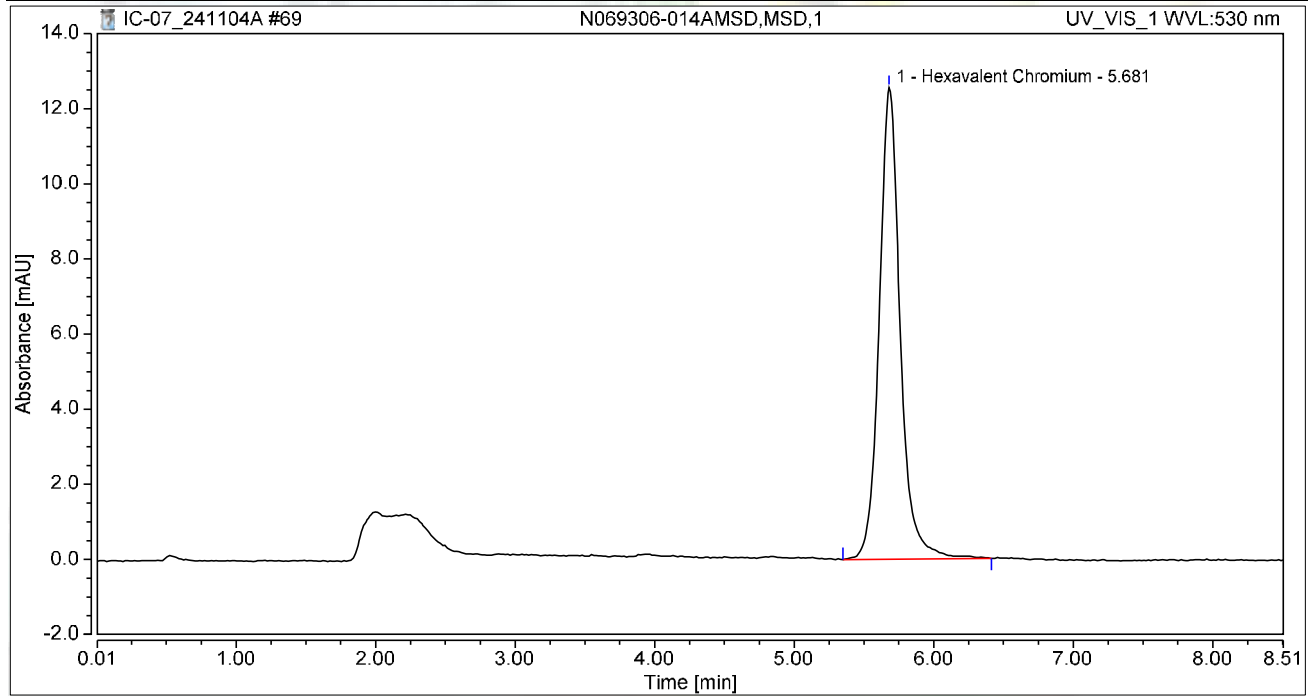
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	2.142	12.459	100.00	100.00	7.5502
Total:			2.142	12.459	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069306-014AMSD,MSD,1	Run Time (min):	8.50
Vial Number:	45	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 21:43	Sample Weight:	1.0000

Chromatogram



Integration Results

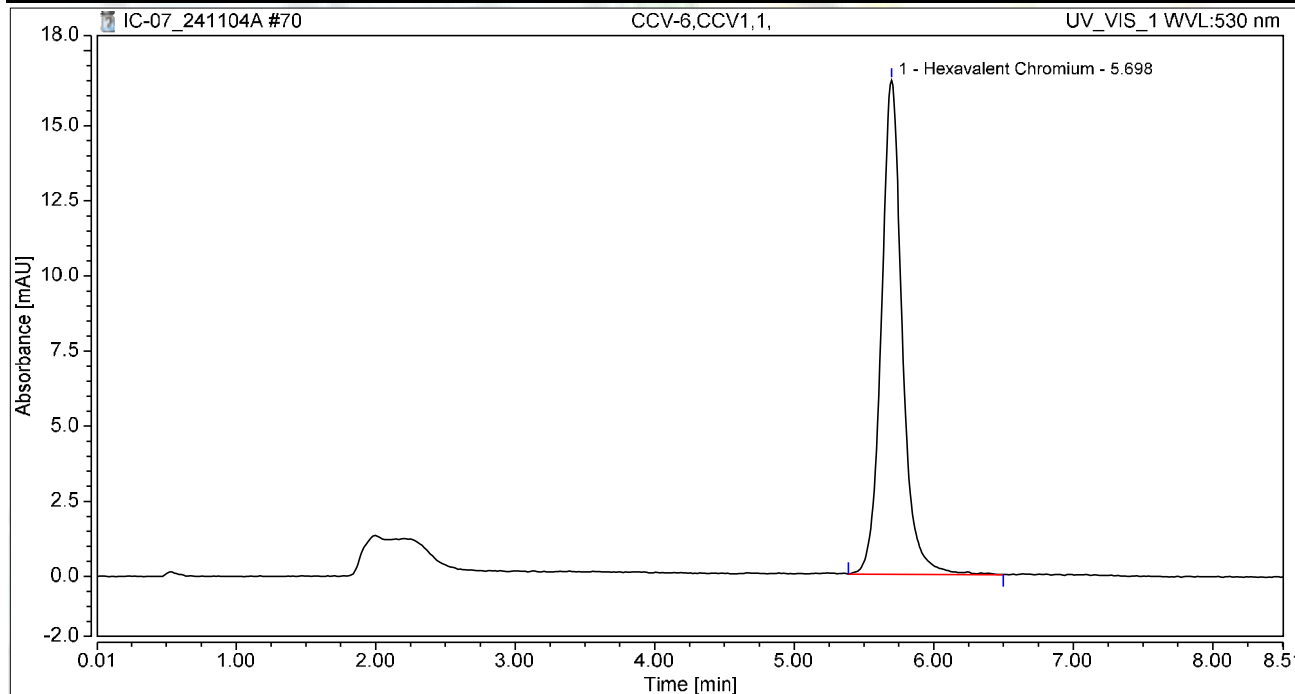
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	2.189	12.560	100.00	100.00	7.7157
Total:			2.189	12.560	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-6,CCV1,1,	Run Time (min):	8.50
Vial Number:	46	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 21:52	Sample Weight:	1.0000

Chromatogram



Integration Results

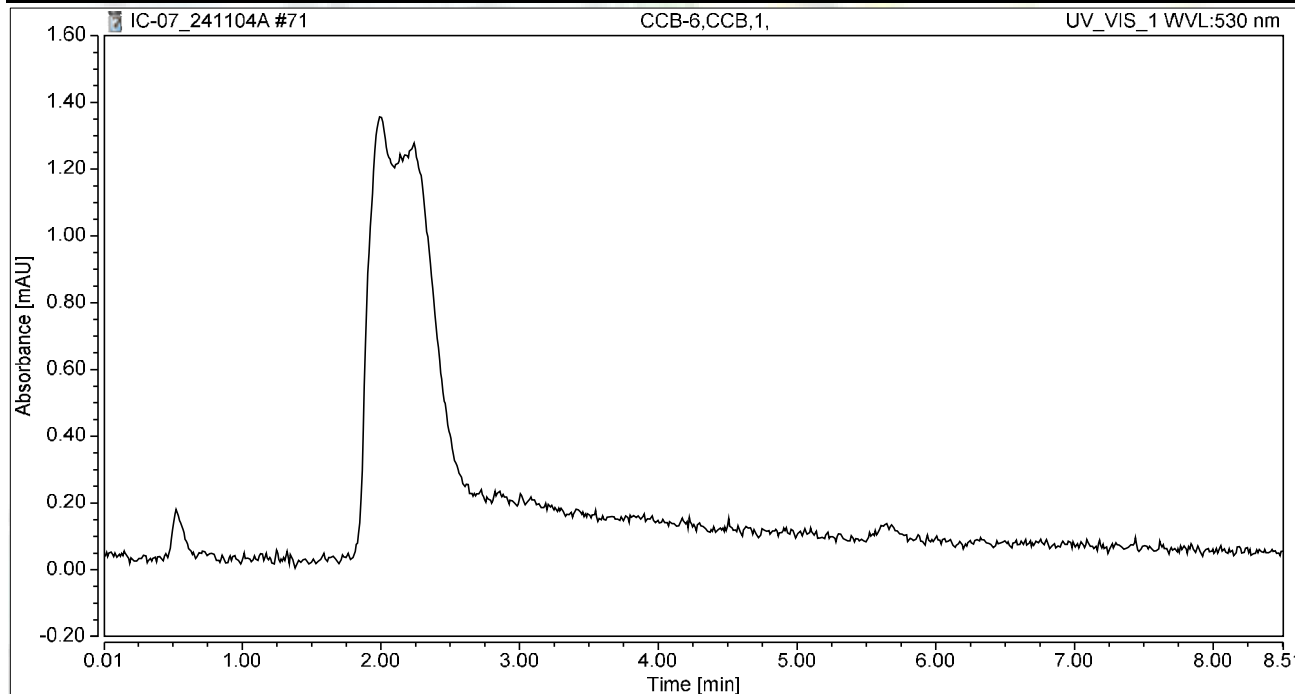
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	2.850	16.452	100.00	100.00	10.0438
Total:			2.850	16.452	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-6,CCB,1,	Run Time (min):	8.50
Vial Number:	47	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 22:02	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

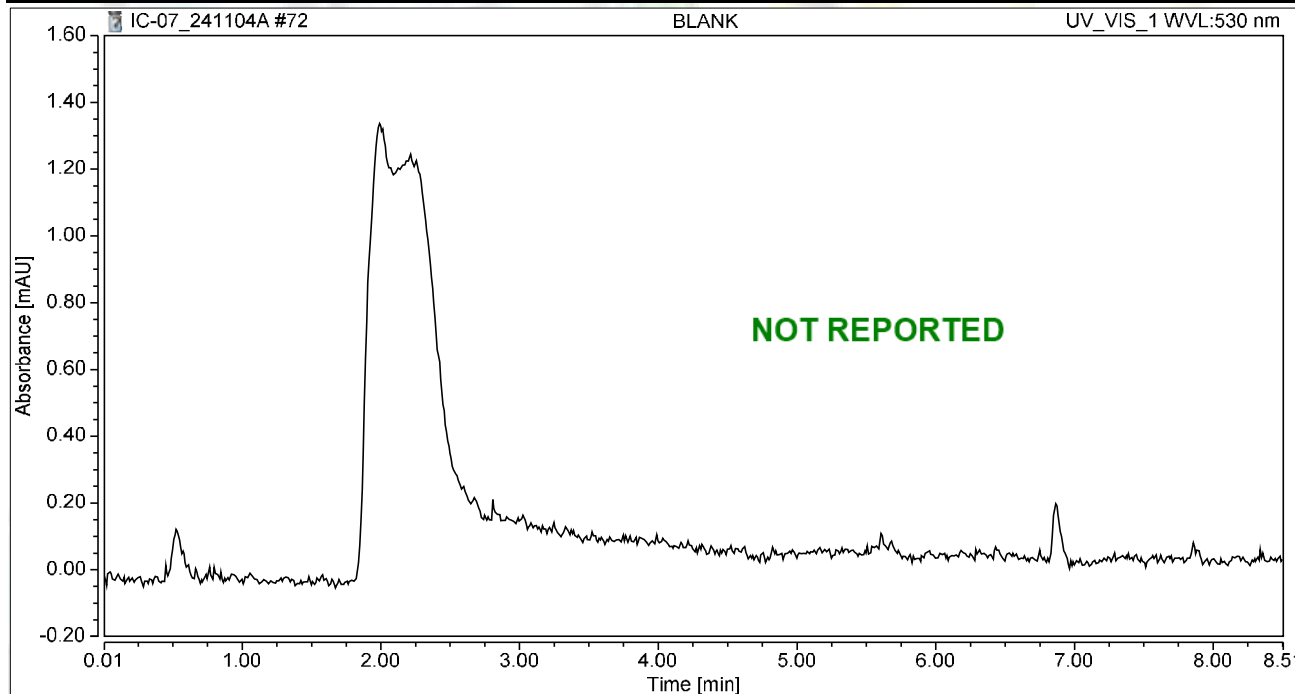


Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	48	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	04/Nov/24 22:11	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

EPA 300.0



ASSET LABORATORIES
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P: 702.307.2659 F: 702.307.2691

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IC Technical Batch Review Checklist (ARCUS02)

IC ARCUS
REV 2.0
011416

ASSET LABORATORIES - LAS VEGAS

QC Batch Number: R195096
ASSET #: N069629 / N069631 / N069638

Instrument ID: NV00922-IC8
Analyst: RBA
Date Analyzed: 11/1/2024

Method:

- EPA 300.0
- EPA 7199

- EPA 218.6/EPA 218.7
- EPA 218.6/EPA 218.7 LL
- Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria ?(r = 0.995, r =0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)			X			X
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X	X	
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?			X			X
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?			X			X
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
14. For Hinkley DOM samples, matrix spike protocol performed on all samples ? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed ?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)			X			X
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments: Detection of N03 in CCB4 is >1/2PQL. However, affected samples are >5x the calibration blank detection and below PQL

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed			
2. Matrix / units correct			
3. Is QC present and complete?			
4. Are analytical results correct? (dilutions, calculations)			
5. Is first level review correct and complete?			

1st Level Reviewer RBA
2nd Level Reviewer *Nancy* 11/08/2024

Date: 11/8/24
Date: —

SAMPLE CALCULATION



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL TECHNOLOGIES

CALIFORNIA
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P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

Sample Calculation

METHOD: EPA 300
TEST NAME: INORGANIC ANIONS BY IC
MATRIX: GROUNDWATER

FORMULA:

Calculate the Nitrate concentration, in mg/L, in the original sample as follows:

$$\text{Nitrate, mg/L} = A * DF$$

where:

A = mg/L, IC calculated concentration
DF = dilution factor

For **N069638-001C** concentration in mg/L is calculated as follows:

$$\begin{aligned} \text{Nitrate, mg/L} &= 0.1491 * 5 \\ &= 0.7455 \end{aligned}$$

Reporting result in two significant figures,

$$\text{Nitrate, mg/L} = \mathbf{0.75}$$

Reviewed by:

d/Rocha 12/19/2024

ANALYSIS RUN LOG



ASSET LABORATORIES
INTEGRATION • INNOVATION • IMPROVEMENT

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NEVADA
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P: 702.307.2659 F: 702.307.2691

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Sequence: IC-08_241023A
Operator: IC-05

Page 1 of 2
Printed: 10/23/2024 8:07:33 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 11

Created: 10/23/2024 10:37:40 AM by IC-05
Last Update: 10/23/2024 3:11:06 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions Default	EPA 300_0_241023	Finished
2	Std - 0	Standard	2	1000.0	Anions Default	EPA 300_0_241023	Finished
3	Std - 1	Standard	3	1000.0	Anions Default	EPA 300_0_241023	Finished
4	Std - 2	Standard	4	1000.0	Anions Default	EPA 300_0_241023	Finished
5	Std - 3	Standard	5	1000.0	Anions Default	EPA 300_0_241023	Finished
6	Std - 4	Unknown	6	1000.0	Anions Default	EPA 300_0_241023	Finished
7	Std - 5	Unknown	7	1000.0	Anions Default	EPA 300_0_241023	Finished
8	Std - 4	Standard	8	1000.0	Anions Default	EPA 300_0_241023	Finished
9	Std - 5	Standard	9	1000.0	Anions Default	EPA 300_0_241023	Finished
10	ICV,ICV,1	Unknown	11	1000.0	Anions Default	EPA 300_0_241023	Finished
11	ICB,ICB,1	Unknown	12	1000.0	Anions Default	EPA 300_0_241023	Finished

Processed by:



Sequence: IC-08_241023A
Operator: IC-05

Page 2 of 2
Printed: 10/23/2024 8:07:33 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 11

Created: 10/23/2024 10:37:40 AM by IC-05
Last Update: 10/23/2024 3:11:06 PM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	10/23/2024 10:53:18 AM	BLANK
2	Std - 0	10/23/2024 11:09:36 AM	IBLANK
3	Std - 1	10/23/2024 11:50:13 AM	STD-LOW
4	Std - 2	10/23/2024 12:06:31 PM	STD
5	Std - 3	10/23/2024 12:22:49 PM	STD
6	Std - 4	10/23/2024 12:39:07 PM	STD
7	Std - 5	10/23/2024 12:55:25 PM	STD-HIGH
8	Std - 4	10/23/2024 1:53:50 PM	STD
9	Std - 5	10/23/2024 2:10:09 PM	STD-HIGH
10	ICV,ICV,1	10/23/2024 2:43:53 PM	ICV, IWST-241023B
11	ICB,ICB,1	10/23/2024 3:11:09 PM	ICB

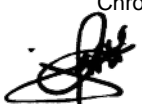
Sequence: IC-08_241101A
Operator: IC-05

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 45

Created: 10/31/2024 3:11:25 PM by IC-05
Last Update: 11/1/2024 4:13:05 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions Default	EPA 300_0_241023	Finished
2	Std - 0	Standard	2	1000.0	Anions Default	EPA 300_0_241023	Finished
3	Std - 1	Standard	3	1000.0	Anions Default	EPA 300_0_241023	Finished
4	Std - 2	Standard	4	1000.0	Anions Default	EPA 300_0_241023	Finished
5	Std - 3	Standard	5	1000.0	Anions Default	EPA 300_0_241023	Finished
6	Std - 4	Unknown	6	1000.0	Anions Default	EPA 300_0_241023	Finished
7	Std - 5	Unknown	7	1000.0	Anions Default	EPA 300_0_241023	Finished
8	Std - 4	Standard	8	1000.0	Anions Default	EPA 300_0_241023	Finished
9	Std - 5	Standard	9	1000.0	Anions Default	EPA 300_0_241023	Finished
10	BLANK	Unknown	1	1000.0	Anions Default	EPA 300_0_241023	Finished
11	CCV-1,CCV,1	Unknown	2	1000.0	Anions Default	EPA 300_0_241023	Finished
12	CCB-1,CCB,1	Unknown	3	1000.0	Anions Default	EPA 300_0_241023	Finished
13	MB-H2O,MBLK,1	Unknown	4	1000.0	Anions Default	EPA 300_0_241023	Finished
14	LCS-H2O,LCS,1	Unknown	5	1000.0	Anions Default	EPA 300_0_241023	Finished
15	N069629-001C,SAMP,5	Unknown	6	1000.0	Anions Default	EPA 300_0_241023	Finished
16	N069629-002C,SAMP,5	Unknown	7	1000.0	Anions Default	EPA 300_0_241023	Finished
17	N069631-008C,SAMP,10	Unknown	8	1000.0	Anions Default	EPA 300_0_241023	Finished
18	N069631-009C,SAMP,10	Unknown	9	1000.0	Anions Default	EPA 300_0_241023	Finished
19	N069631-010C,SAMP,10	Unknown	10	1000.0	Anions Default	EPA 300_0_241023	Finished
20	N069631-011C,SAMP,10	Unknown	11	1000.0	Anions Default	EPA 300_0_241023	Finished
21	N069631-012C,SAMP,10	Unknown	12	1000.0	Anions Default	EPA 300_0_241023	Finished
22	N069631-013C,SAMP,10	Unknown	13	1000.0	Anions Default	EPA 300_0_241023	Finished
23	CCV-2,CCV,1	Unknown	14	1000.0	Anions Default	EPA 300_0_241023	Finished
24	CCB-2,CCB,1	Unknown	15	1000.0	Anions Default	EPA 300_0_241023	Finished
25	N069631-014C,SAMP,10	Unknown	16	1000.0	Anions Default	EPA 300_0_241023	Finished
26	N069629-001CDUP,DUP,5	Unknown	17	1000.0	Anions Default	EPA 300_0_241023	Finished
27	N069631-008CMS,MS,10	Unknown	18	1000.0	Anions Default	EPA 300_0_241023	Finished
28	N069631-008CMSD,MSD,10	Unknown	19	1000.0	Anions Default	EPA 300_0_241023	Finished
29	N069629-001CMS,MS,5	Unknown	20	1000.0	Anions Default	EPA 300_0_241023	Finished
30	N069629-001CMSD,MSD,5	Unknown	21	1000.0	Anions Default	EPA 300_0_241023	Finished
31	N069606-001C,SAMP,5	Unknown	22	1000.0	Anions Default	EPA 300_0_241023	Finished
32	N069607-001C,SAMP,5	Unknown	23	1000.0	Anions Default	EPA 300_0_241023	Finished
33	N069610-001C,SAMP,5	Unknown	24	1000.0	Anions Default	EPA 300_0_241023	Finished
34	N069609-001C,SAMP,1	Unknown	25	1000.0	Anions Default	EPA 300_0_241023	Finished
35	CCV-3,CCV,1	Unknown	26	1000.0	Anions Default	EPA 300_0_241023	Finished
36	CCB-3,CCB,1	Unknown	27	1000.0	Anions Default	EPA 300_0_241023	Finished
37	N069631-013CMS,MS,10	Unknown	28	1000.0	Anions Default	EPA 300_0_241023	Finished
38	N069638-001C,SAMP,5	Unknown	29	1000.0	Anions Default	EPA 300_0_241023	Finished
39	N069638-002C,SAMP,5	Unknown	30	1000.0	Anions Default	EPA 300_0_241023	Finished
40	N069638-007C,SAMP,5	Unknown	31	1000.0	Anions Default	EPA 300_0_241023	Finished
41	N069638-008C,SAMP,5	Unknown	28	1000.0	Anions Default	EPA 300_0_241023	Finished

Processed by:



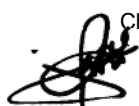
Sequence: IC-08_241101A
Operator: IC-05

Page 2 of 4
Printed: 11/1/2024 8:43:40 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 45

Created: 10/31/2024 3:11:25 PM by IC-05
Last Update: 11/1/2024 4:13:05 PM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	10/23/2024 10:53:18 AM	BLANK
2	Std - 0	10/23/2024 11:09:36 AM	IBLANK
3	Std - 1	10/23/2024 11:50:13 AM	STD-LOW
4	Std - 2	10/23/2024 12:06:31 PM	STD
5	Std - 3	10/23/2024 12:22:49 PM	STD
6	Std - 4	10/23/2024 12:39:07 PM	STD
7	Std - 5	10/23/2024 12:55:25 PM	STD-HIGH
8	Std - 4	10/23/2024 1:53:50 PM	STD
9	Std - 5	10/23/2024 2:10:09 PM	STD-HIGH
10	BLANK	11/1/2024 8:32:13 AM	BLANK
11	CCV-1,CCV,1	11/1/2024 8:48:31 AM	CCV, IWST-241031A
12	CCB-1,CCB,1	11/1/2024 9:04:50 AM	CCB
13	MB-H2O,MBLK,1	11/1/2024 9:21:07 AM	MB
14	LCS-H2O,LCS,1	11/1/2024 9:37:25 AM	LCS, IWST-241031B
15	N069629-001C,SAMP,5	11/1/2024 10:56:06 AM	SAMP,2>10mL,
16	N069629-002C,SAMP,5	11/1/2024 11:12:24 AM	SAMP,2>10mL,
17	N069631-008C,SAMP,10	11/1/2024 11:28:42 AM	SAMP,1>10mL,
18	N069631-009C,SAMP,10	11/1/2024 11:44:59 AM	SAMP,1>10mL,
19	N069631-010C,SAMP,10	11/1/2024 12:01:17 PM	SAMP,1>10mL,
20	N069631-011C,SAMP,10	11/1/2024 12:17:35 PM	SAMP,1>10mL,
21	N069631-012C,SAMP,10	11/1/2024 12:33:53 PM	SAMP,1>10mL,
22	N069631-013C,SAMP,10	11/1/2024 12:50:11 PM	SAMP,1>10mL,
23	CCV-2,CCV,1	11/1/2024 1:06:29 PM	CCV, IWST-241031A
24	CCB-2,CCB,1	11/1/2024 1:22:46 PM	CCB
25	N069631-014C,SAMP,10	11/1/2024 1:39:04 PM	SAMP,1>10mL,
26	N069629-001CDUP,DUP,5	11/1/2024 1:55:22 PM	DUP,2>10mL,
27	N069631-008CMS,MS,10	11/1/2024 2:11:41 PM	MS,1>10mL,
28	N069631-008CMSD,MSD,10	11/1/2024 2:27:59 PM	MSD,1>10mL,
29	N069629-001CMS,MS,5	11/1/2024 2:44:16 PM	MS,2>10mL,
30	N069629-001CMSD,MSD,5	11/1/2024 3:00:34 PM	MSD,2>10mL,
31	N069606-001C,SAMP,5	11/1/2024 3:16:53 PM	SAMP,2>10mL,
32	N069607-001C,SAMP,5	11/1/2024 3:33:11 PM	SAMP,2>10mL,
33	N069610-001C,SAMP,5	11/1/2024 3:49:28 PM	SAMP,2>10mL,
34	N069609-001C,SAMP,1	11/1/2024 4:05:46 PM	SAMP,10mL,
35	CCV-3,CCV,1	11/1/2024 4:22:05 PM	CCV, IWST-241031A
36	CCB-3,CCB,1	11/1/2024 4:38:23 PM	CCB
37	N069631-013CMS,MS,10	11/1/2024 4:54:41 PM	MS,1>10mL,
38	N069638-001C,SAMP,5	11/1/2024 5:10:59 PM	SAMP,2>10mL,
39	N069638-002C,SAMP,5	11/1/2024 5:27:18 PM	SAMP,2>10mL,
40	N069638-007C,SAMP,5	11/1/2024 5:43:35 PM	SAMP,2>10mL,
41	N069638-008C,SAMP,5	11/1/2024 5:59:53 PM	SAMP,2>10mL,



Sequence: IC-08_241101A
Operator: IC-05

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Printed: 11/1/2024 8:43:41 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 45

Created: 10/31/2024 3:11:25 PM by IC-05
Last Update: 11/1/2024 4:13:05 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
42	N069638-009C,SAMP,10	Unknown	29	1000.0	Anions Default	EPA 300_0_241023	Finished
43	CCV-4,CCV,1	Unknown	28	1000.0	Anions Default	EPA 300_0_241023	Finished
44	CCB-4,CCB,1	Unknown	29	1000.0	Anions Default	EPA 300_0_241023	Finished
45	BLANK	Unknown	30	1000.0	Anions Default	EPA 300_0_241023	Finished

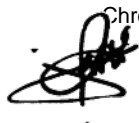
Sequence: IC-08_241101A
Operator: IC-05

Page 4 of 4
Printed: 11/1/2024 8:43:41 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 45

Created: 10/31/2024 3:11:25 PM by IC-05
Last Update: 11/1/2024 4:13:05 PM by IC-05

No.	Name	Inj. Date/Time	Comment
42	N069638-009C,SAMP,10	11/1/2024 6:16:11 PM	SAMP,1>10mL,
43	CCV-4,CCV,1	11/1/2024 6:32:29 PM	CCV, IWST-241031A
44	CCB-4,CCB,1	11/1/2024 6:48:47 PM	CCB
45	BLANK	11/1/2024 7:05:05 PM	BLANK



INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
INTEGRATION OF SURVEILLANCE, ANALYTICAL, & TESTING SERVICES

CALIFORNIA
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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

(EPA 300) - INITIAL CALIBRATION

Instrument ID: NV00922-IC8

Date Calibrated: 10/23/2024

Initial Calibration:

Nitrate	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in mg/L	0	0.05	0.25	0.5	1.25	2.5	R ²
Area,mAU*min	0.0000	0.0175	0.0867	0.1763	0.4446	0.9364	0.999
Measured, in mg/L	0.000000	0.070700	0.255200	0.494100	1.209500	2.520500	
Relative Error (%RE)		41.4%		-1.2%			

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST-240705D

Calibration Acceptance Criteria: > 0.995 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
INTEGRATION • INNOVATION • IMPROVEMENT • INSIGHT

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID ICV	SampType: ICV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195096						
Client ID: ICV	Batch ID: R195096	TestNo: EPA 300.0		Analysis Date: 10/23/2024	SeqNo: 6280736						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 1.217 0.050 1.250 0 97.3 90 110

Sample ID CCV-1	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195096						
Client ID: CCV	Batch ID: R195096	TestNo: EPA 300.0		Analysis Date: 11/1/2024	SeqNo: 6280738						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 1.176 0.050 1.250 0 94.1 90 110

Sample ID CCV-2	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195096						
Client ID: CCV	Batch ID: R195096	TestNo: EPA 300.0		Analysis Date: 11/1/2024	SeqNo: 6280750						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 1.222 0.050 1.250 0 97.8 90 110

Sample ID CCV-3	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195096						
Client ID: CCV	Batch ID: R195096	TestNo: EPA 300.0		Analysis Date: 11/1/2024	SeqNo: 6280756						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 1.182 0.050 1.250 0 94.6 90 110

Sample ID CCV-4	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195096						
Client ID: CCV	Batch ID: R195096	TestNo: EPA 300.0		Analysis Date: 11/1/2024	SeqNo: 6280764						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 1.211 0.050 1.250 0 96.9 90 110

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

SUMMARY OF INSTRUMENT BLANKS



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID ICB	SampType: ICB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195096						
Client ID: ICB	Batch ID: R195096	TestNo: EPA 300.0		Analysis Date: 10/23/2024	SeqNo: 6280737						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID CCB-1	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195096						
Client ID: CCB	Batch ID: R195096	TestNo: EPA 300.0		Analysis Date: 11/1/2024	SeqNo: 6280739						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID CCB-2	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195096						
Client ID: CCB	Batch ID: R195096	TestNo: EPA 300.0		Analysis Date: 11/1/2024	SeqNo: 6280751						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID CCB-3	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195096						
Client ID: CCB	Batch ID: R195096	TestNo: EPA 300.0		Analysis Date: 11/1/2024	SeqNo: 6280757						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID CCB-4	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195096						
Client ID: CCB	Batch ID: R195096	TestNo: EPA 300.0		Analysis Date: 11/1/2024	SeqNo: 6280765						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N 0.029 0.050

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

Detection of NO3 in CCB4 is >1/2 PQL. However, samples affected are >5X the calibration blank detection and non-detect.

Jm 11/26/24 **191**

RETENTION TIME SUMMARY



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RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC8

Analytical Sequence

Date Analyzed: 11/1/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Nitrate 6.617	
CCV-1	Nitrate 6.620	
CCV-2	Nitrate 6.620	
CCV-3	Nitrate 6.614	
CCV-4	Nitrate 6.640	

Average 6.624
Applied RT Window 6.424 - 6.824

MB-R195096_NO3	Nitrate	N.A.	N.A.
LCS-R195096_NO3	Nitrate	6.627	PASS
N069629-001CDUP	Nitrate	6.614	PASS
N069631-008CMS	Nitrate	6.620	PASS
N069631-008CMSD	Nitrate	6.620	PASS
N069631-013CMS	Nitrate	6.650	PASS
N069638-001C	Nitrate	6.654	PASS
N069638-002C	Nitrate	6.650	PASS
N069638-007C	Nitrate	6.644	PASS
N069638-008C	Nitrate	6.643	PASS
N069638-009C	Nitrate	6.644	PASS

Reviewed by:

d/Rocha 12/19/2024

MDL STUDY



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METHOD DETECTION LIMIT (Spiked)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): 10/5/2022, 12/14/2022, 3/22/2023, 7/10/2023; 10/3/2023 & 11/14/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: mg/L

Instrument Name: **IC-08 & IC-09**

Datafile IC-08 221005A #24 IC-08 221214A #30 IC-08 230322A #35 IC-08 230710A #13 IC-09 231003A #14 IC-08 231114A #24 IC-09 231114A #19

Analyte	#1	#2	#3	#4	#5	#6	#7	Spike Conc., mg/L	SD	t _(n-1) value	MDLs	MDL	PQL
Fluoride	0.100	0.103	0.108	0.118	0.110	0.098	0.126	0.10	0.0101	3.143	0.0318	0.0318	0.10
Chloride	0.480	0.418	0.472	0.653	0.624	0.587	0.622	0.50	0.0922	3.143	0.2898	0.2898	0.50
Nitrite	0.068	0.061	0.060	0.071	0.063	0.061	0.070	0.05	0.0047	3.143	0.0149	0.0149	0.05
Bromide	0.526	0.502	0.509	0.522	0.536	0.527	0.520	0.50	0.0116	3.143	0.0364	0.0364	0.50
Nitrate	0.073	0.058	0.059	0.073	0.074	0.068	0.073	0.05	0.0068	3.143	0.0215	0.0240	0.05
Phosphate	0.112	0.096	0.114	0.120	0.130	0.093	0.124	0.10	0.0138	3.143	0.0433	0.0433	0.10
Sulfate	0.501	0.609	0.638	0.401	0.704	0.620	0.697	0.50	0.1092	3.143	0.3432	0.3432	0.50

METHOD DETECTION LIMIT (Blanks)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Analyte	MDLb	# of Records
Fluoride	0	63
Chloride	0.1456	80
Nitrite	0.0147	64
Bromide	0	18
Nitrate	0.0240	132
Phosphate	0.0237	34
Sulfate	0.2579	107

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

EPA 6010B Dissolved



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

NV00922

QC Batch Number: 113806
ASSET #: N069638

Instrument ID: ICP-04
Analyst: DBJ

Method:
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 11/3/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MMS meet tune criteria? (ICP/MS only)			X			X
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X	X		X	X	
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

% Rec of CCV3 failed, high bias. However, IQCs that enclosed samples passed criteria.

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ

Date: _____

2nd Level Reviewer _____

Date: 11/7/2024

SAMPLE CALCULATION



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SAMPLE CALCULATION

METHOD: EPA 6010B
TEST NAME: Heavy Metals by ICP
MATRIX: Groundwater

FORMULA:

Calculate the Iron concentration, in ug/L, in the original sample as follows:

$$\text{Iron, ug/L} = A * DF * PF * CF$$

where:

A = mg/L, calculated concentration

DF = Dilution Factor

PF = Final Volume of Digestate, mL / Amount of Sample, mL

CF= Conversion Factor from mg/L to ug/L, 1000

For Sample **N069638-007B**, the concentration in ug/L is calculated as follows:

$$\text{Iron, ug/L} = 0.38975 * 1 * (25/25) * 1000$$

$$\text{Iron, ug/L} = 389.75$$

Reporting results in two significant figures,

$$\text{Iron, ug/L} = \mathbf{390}$$

Reviewed by:

d/rocha 12/19/2024

% RSD SUMMARY



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RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP4

PQL: 0.02 mg/L

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
Blank	BLK	1	Fe	0	-	15	PASS
Standard 1	ICAL	1	Fe	0.02	-	15	PASS
Standard 2	ICAL	1	Fe	0.05	-	15	PASS
Standard 3	ICAL	1	Fe	2	-	15	PASS
Standard 4	ICAL	1	Fe	5	-	15	PASS
Standard 5	ICAL	1	Fe	7.5	-	15	PASS
Standard 6	ICAL	1	Fe	10	-	15	PASS
Standard 7	ICAL	1	Fe	20	-	15	PASS
ICV	ICV	1	Fe	9.99754	0.07	15	PASS
ICB	ICB	1	Fe	0.00073	21.14	15	< PQL
LLCCV1	CCV1	1	Fe	0.02015	1.05	20	PASS
LLCCV2	CCV1	1	Fe	0.41492	0.18	20	PASS
ICSA1	ICSA	1	Fe	10.5341	0.74	15	PASS
ICSAB1	ICSAB	1	Fe	10.23196	0.07	15	PASS
LLCCV1	CCV1	1	Fe	0.0215	1.03	20	PASS
CCV1	CCV	1	Fe	9.84282	0.09	15	PASS
CCB1	CCB	1	Fe	0.00113	27.01	15	< PQL
CCV2	CCV	1	Fe	9.96297	0.14	15	PASS
CCB2	CCB	1	Fe	0.00547	40.02	15	< PQL
CCV3	CCV	1	Fe	11.3431	11.94	15	PASS
CCB3	CCB	1	Fe	0.00272	7.88	15	PASS
CCV4	CCV	1	Fe	10.03755	0.13	15	PASS
CCB4	CCB	1	Fe	0.00367	19.33	15	< PQL
ICSA2	ICSA	1	Fe	10.447	0.47	15	PASS
ICSAB2	ICSAB	1	Fe	10.18326	0.04	15	PASS
CCV5	CCV	1	Fe	9.99457	0.05	15	PASS
CCB5	CCB	1	Fe	0.00242	7.12	15	PASS
CCV6	CCV	1	Fe	9.95118	0.03	15	PASS
CCB6	CCB	1	Fe	0.00159	10.39	15	PASS
CCV7	CCV	1	Fe	9.91865	0.15	15	PASS
CCB7	CCB	1	Fe	0.00157	1.67	15	PASS
CCV8	CCV	1	Fe	9.89456	0.14	15	PASS
CCB8	CCB	1	Fe	0.00171	2.92	15	PASS
ICSA3	ICSA	1	Fe	10.4287	0.73	15	PASS
ICSAB3	ICSAB	1	Fe	10.11957	0.08	15	PASS
MB-113806	MBLK	1	Fe	0.00788	0.86	15	PASS
LCS-113806	LCS	1	Fe	0.10626	0.28	15	PASS
N069263-001B	SAMP	1	Fe	0.00724	1.12	15	PASS
N069263-002B	SAMP	1	Fe	0.22819	0.09	15	PASS
N069263-003B	SAMP	1	Fe	0.15424	0.15	15	PASS
N069444-001B	SAMP	1	Fe	0.01415	1.76	15	PASS

RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP4

PQL: 0.02 mg/L

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
N069444-001B	SAMP	5	Fe	0.00182	14.21	15	PASS
N069444-001B-PS	PS	1	Fe	0.12616	0.13	15	PASS
N069444-001B-MS	MS	1	Fe	0.13418	0.08	15	PASS
N069444-001B-MSD	MSD	1	Fe	0.12875	0.24	15	PASS
CCV9	CCV	1	Fe	9.95477	0.06	15	PASS
CCB9	CCB	1	Fe	0.00117	14.08	15	PASS
N069444-002B	SAMP	1	Fe	0.29149	0.08	15	PASS
N069444-003B	SAMP	1	Fe	0.1889	0.22	15	PASS
N069629-001B	SAMP	1	Fe	0.01434	1.92	15	PASS
N069629-002B	SAMP	1	Fe	0.00527	0.80	15	PASS
N069631-008B	SAMP	1	Fe	0.67798	0.11	15	PASS
N069631-009B	SAMP	1	Fe	0.95487	0.01	15	PASS
N069631-010B	SAMP	1	Fe	18.49706	0.50	15	PASS
N069631-011B	SAMP	1	Fe	0.35959	0.05	15	PASS
N069631-012B	SAMP	1	Fe	0.99981	0.03	15	PASS
N069631-013B	SAMP	1	Fe	3.8284	0.08	15	PASS
CCV10	CCV	1	Fe	9.96382	0.13	15	PASS
CCB10	CCB	1	Fe	0.00133	10.45	15	PASS
N069631-014B	SAMP	1	Fe	1.73863	0.09	15	PASS
N069638-007B	SAMP	1	Fe	0.38975	0.19	15	PASS
N069638-008B	SAMP	1	Fe	0.42789	0.16	15	PASS
N069638-009B	SAMP	1	Fe	0.22314	0.09	15	PASS
CCV11	CCV	1	Fe	9.96282	0.07	15	PASS
CCB11	CCB	1	Fe	0.0011	7.60	15	PASS
ICSA4	ICSA	1	Fe	10.40906	0.21	15	PASS
ICSAB4	ICSAB	1	Fe	10.13462	0.11	15	PASS
CCV12	CCV	1	Fe	9.96664	0.08	15	PASS
CCB12	CCB	1	Fe	0.00177	3.73	15	PASS
CCV13	CCV	1	Fe	9.97485	0.04	15	PASS
CCB13	CCB	1	Fe	0.00235	17.27	15	< PQL
CCV14	CCV	1	Fe	9.95749	0.10	15	PASS
CCB14	CCB	1	Fe	0.00249	18.37	15	< PQL
CCV15	CCV	1	Fe	9.96432	0.09	15	PASS
CCB15	CCB	1	Fe	0.00201	19.34	15	< PQL
CCV16	CCV	1	Fe	9.96705	0.08	15	PASS
CCB16	CCB	1	Fe	0.00248	13.27	15	PASS
CCV17	CCV	1	Fe	9.9352	0.05	15	PASS
CCB17	CCB	1	Fe	0.0017	25.36	15	< PQL
ICSA5	ICSA	1	Fe	10.39513	0.51	15	PASS
ICSAB5	ICSAB	1	Fe	10.10427	0.07	15	PASS
CCV18	CCV	1	Fe	9.95119	0.04	15	PASS

RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP4

PQL: 0.02 mg/L

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
CCB18	CCB	1	Fe	0.00243	10.99	15	PASS
CCV19	CCV	1	Fe	9.95327	0.02	15	PASS
CCB19	CCB	1	Fe	0.00187	26.19	15	< PQL
CCV20	CCV	1	Fe	9.95603	0.03	15	PASS
CCB20	CCB	1	Fe	0.00251	13.15	15	PASS
ICSA6	ICSA	1	Fe	10.38237	0.54	15	PASS
ICSAB6	ICSAB	1	Fe	10.12457	0.09	15	PASS
CCV21	CCV	1	Fe	10.00158	0.09	15	PASS
CCB21	CCB	1	Fe	0.00307	18.25	15	< PQL
CCV22	CCV	1	Fe	9.99557	0.05	15	PASS
CCB22	CCB	1	Fe	0.00246	16.71	15	< PQL
CCV23	CCV	1	Fe	9.96536	0.03	15	PASS
CCB23	CCB	1	Fe	0.00339	16.88	15	< PQL
CCV24	CCV	1	Fe	9.97504	0.14	15	PASS
CCB24	CCB	1	Fe	0.00265	24.37	15	< PQL
CCV25	CCV	1	Fe	9.95149	0.01	15	PASS
CCB25	CCB	1	Fe	0.00864	18.67	15	< PQL
ICSA7	ICSA	1	Fe	10.42278	0.23	15	PASS
ICSAB7	ICSAB	1	Fe	10.12494	0.08	15	PASS

ANALYSIS RUN LOG



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INJECTION LOG: 241103B

Instrument ID: NV00922-ICP4

STANDARD CODE	
Standard1	MWST-240820N, 0.5<50mL
Standard2	MWST-240820O
Standard3	MWST-240820P, 5<50mL
Standard4	MWST-240820P,12.5<50mL
Standard5	MWST-240820P, 15<40mL
Standard6	MWST-240820P, 25<50mL
Standard7	MWST-240820P
ICV	MWST-240820AG
CCV	MWST-240820P, 25<50mL
ICSA/ICSAB	MWST-240820Q / MWST-240820R
Int. Std	MSST-240801A/240801B
PS Spike	MWST-240820Y/Z/AA

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
1	Blank	BLK	1	11/3/2024	8:56:49 PM
2	Standard 1	ICAL	1	11/3/2024	8:59:07 PM
3	Standard 2	ICAL	1	11/3/2024	9:01:24 PM
4	Standard 3	ICAL	1	11/3/2024	9:03:41 PM
5	Standard 4	ICAL	1	11/3/2024	9:05:58 PM
6	Standard 5	ICAL	1	11/3/2024	9:08:15 PM
7	Standard 6	ICAL	1	11/3/2024	9:10:32 PM
8	Standard 7	ICAL	1	11/3/2024	9:12:49 PM
9	ICV	ICV	1	11/3/2024	9:31:57 PM
10	ICB	ICB	1	11/3/2024	9:34:14 PM
11	LLCCV1	CCV1	1	11/3/2024	9:36:32 PM
12	LLCCV2	CCV1	1	11/3/2024	9:38:49 PM
13	ICSA1	ICSA	1	11/3/2024	9:41:06 PM
14	ICSAB1	ICSAB	1	11/3/2024	9:47:07 PM
15	LLCCV1	CCV1	1	11/3/2024	9:49:24 PM
16	MB-113680	MBLK	1	11/3/2024	9:51:42 PM
17	LCS-113680	LCS	1	11/3/2024	9:58:32 PM
18	N069451-001A	SAMP	1	11/3/2024	10:06:18 PM
19	N069451-001A	SAMP	5	11/3/2024	10:08:35 PM
20	N069451-001A-PS	PS	1	11/3/2024	10:10:52 PM
21	N069451-001A-MS	MS	1	11/3/2024	10:13:09 PM
22	N069451-001A-MSD	MSD	1	11/3/2024	10:15:26 PM
23	N069511-001A	SAMP	1	11/3/2024	10:17:43 PM
24	N069526-001D	SAMP	1	11/3/2024	10:20:00 PM
25	CCV1	CCV	1	11/3/2024	10:22:17 PM
26	CCB1	CCB	1	11/3/2024	10:24:34 PM
27	MB-113816	MBLK	1	11/3/2024	10:26:51 PM
28	LCS-113816	LCS	1	11/3/2024	10:29:08 PM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
29	N069644-001A	SAMP	1	11/3/2024	10:31:25 PM
30	N069644-001A	SAMP	5	11/3/2024	10:33:42 PM
31	N069644-001A-PS	PS	1	11/3/2024	10:35:59 PM
32	N069644-001A-MS	MS	1	11/3/2024	10:38:15 PM
33	N069644-001A-MSD	MSD	1	11/3/2024	10:40:32 PM
34	N069644-002A	SAMP	1	11/3/2024	10:42:49 PM
35	N069645-001A	SAMP	1	11/3/2024	10:45:06 PM
36	N069645-002A	SAMP	1	11/3/2024	10:47:23 PM
37	CCV2	CCV	1	11/3/2024	10:49:40 PM
38	CCB2	CCB	1	11/3/2024	10:51:57 PM
39	N069645-003A	SAMP	1	11/3/2024	10:54:14 PM
40	N069645-004A	SAMP	1	11/3/2024	10:56:32 PM
41	N069645-005A	SAMP	1	11/3/2024	10:58:49 PM
42	N069646-001A	SAMP	1	11/3/2024	11:01:06 PM
43	N069646-002A	SAMP	1	11/3/2024	11:03:23 PM
44	N069647-001A	SAMP	1	11/3/2024	11:05:39 PM
45	N069648-001A	SAMP	1	11/3/2024	11:07:56 PM
46	N069650-001A	SAMP	1	11/3/2024	11:10:13 PM
47	N069651-001A	SAMP	1	11/3/2024	11:12:30 PM
48	N069652-001A	SAMP	1	11/3/2024	11:14:47 PM
49	CCV3	CCV	1	11/3/2024	11:20:09 PM
50	CCB3	CCB	1	11/3/2024	11:22:26 PM
51	N069651-001A	SAMP	5	11/3/2024	11:24:42 PM
52	CCV4	CCV	1	11/3/2024	11:26:59 PM
53	CCB4	CCB	1	11/3/2024	11:29:16 PM
54	ICSA2	ICSA	1	11/3/2024	11:31:33 PM
55	ICSAB2	ICSAB	1	11/3/2024	11:33:50 PM
56	MB-113825	MBLK	1	11/3/2024	11:36:07 PM
57	LCS-113825	LCS	1	11/3/2024	11:38:24 PM
58	N069649-001B	SAMP	5	11/3/2024	11:40:41 PM
59	N069649-001B	SAMP	25	11/3/2024	11:42:58 PM
60	N069649-001B-PS	PS	5	11/3/2024	11:45:15 PM
61	N069649-001B-MS	MS	5	11/3/2024	11:47:32 PM
62	N069649-001B-MSD	MSD	5	11/3/2024	11:49:49 PM
63	LCS-113825	LCS	1	11/3/2024	11:55:31 PM
64	N069649-001B-MSD	MSD	5	11/3/2024	11:57:49 PM
65	CCV5	CCV	1	11/4/2024	12:03:12 AM
66	CCB5	CCB	1	11/4/2024	12:05:29 AM
67	MB-113824	MBLK	1	11/4/2024	12:07:46 AM
68	MB-113784 TCLP	MBLK	1	11/4/2024	12:10:02 AM
69	LCS-113824	LCS	1	11/4/2024	12:12:19 AM
70	N069575-001A	SAMP	1	11/4/2024	12:14:36 AM
71	N069575-001A	SAMP	5	11/4/2024	12:16:53 AM
72	N069575-001A-PS	PS	1	11/4/2024	12:19:10 AM
73	N069575-001A-MS	MS	1	11/4/2024	12:21:27 AM
74	N069575-001A-MSD	MSD	1	11/4/2024	12:23:44 AM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
75	N069575-002A	SAMP	1	11/4/2024	12:26:00 AM
76	N069575-003A	SAMP	1	11/4/2024	12:28:17 AM
77	CCV6	CCV	1	11/4/2024	12:30:34 AM
78	CCB6	CCB	1	11/4/2024	12:32:51 AM
79	N069575-004A	SAMP	1	11/4/2024	12:35:08 AM
80	N069575-005A	SAMP	1	11/4/2024	12:37:25 AM
81	N069575-006A	SAMP	1	11/4/2024	12:39:42 AM
82	N069575-007A	SAMP	1	11/4/2024	12:41:59 AM
83	N069575-008A	SAMP	1	11/4/2024	12:44:16 AM
84	N069575-009A	SAMP	1	11/4/2024	12:46:32 AM
85	N069577-001A	SAMP	1	11/4/2024	12:48:49 AM
86	N069612-002A	SAMP	1	11/4/2024	12:51:06 AM
87	N069612-002A-DUP	DUP	1	11/4/2024	12:53:23 AM
88	N069612-011A	SAMP	1	11/4/2024	12:55:40 AM
89	CCV7	CCV	1	11/4/2024	12:57:57 AM
90	CCB7	CCB	1	11/4/2024	1:00:13 AM
91	N069623-001A	SAMP	1	11/4/2024	1:02:30 AM
92	N069624-001A	SAMP	1	11/4/2024	1:04:47 AM
93	N069625-001A	SAMP	1	11/4/2024	1:07:05 AM
94	N069626-001A	SAMP	1	11/4/2024	1:09:23 AM
95	CCV8	CCV	1	11/4/2024	1:11:39 AM
96	CCB8	CCB	1	11/4/2024	1:13:56 AM
97	ICSA3	ICSA	1	11/4/2024	1:16:13 AM
98	ICSAB3	ICSAB	1	11/4/2024	1:18:30 AM
99	MB-113806	MBLK	1	11/4/2024	1:21:39 AM
100	LCS-113806	LCS	1	11/4/2024	1:27:34 AM
101	N069263-001B	SAMP	1	11/4/2024	1:29:52 AM
102	N069263-002B	SAMP	1	11/4/2024	1:32:10 AM
103	N069263-003B	SAMP	1	11/4/2024	1:34:27 AM
104	N069444-001B	SAMP	1	11/4/2024	1:36:45 AM
105	N069444-001B	SAMP	5	11/4/2024	1:39:03 AM
106	N069444-001B-PS	PS	1	11/4/2024	1:41:21 AM
107	N069444-001B-MS	MS	1	11/4/2024	1:43:38 AM
108	N069444-001B-MSD	MSD	1	11/4/2024	1:45:56 AM
109	CCV9	CCV	1	11/4/2024	1:48:13 AM
110	CCB9	CCB	1	11/4/2024	1:50:30 AM
111	N069444-002B	SAMP	1	11/4/2024	1:52:48 AM
112	N069444-003B	SAMP	1	11/4/2024	1:55:05 AM
113	N069629-001B	SAMP	1	11/4/2024	1:57:23 AM
114	N069629-002B	SAMP	1	11/4/2024	1:59:41 AM
115	N069631-008B	SAMP	1	11/4/2024	2:01:59 AM
116	N069631-009B	SAMP	1	11/4/2024	2:04:16 AM
117	N069631-010B	SAMP	1	11/4/2024	2:06:34 AM
118	N069631-011B	SAMP	1	11/4/2024	2:08:52 AM
119	N069631-012B	SAMP	1	11/4/2024	2:11:09 AM
120	N069631-013B	SAMP	1	11/4/2024	2:13:26 AM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
121	CCV10	CCV	1	11/4/2024	2:15:43 AM
122	CCB10	CCB	1	11/4/2024	2:18:00 AM
123	N069631-014B	SAMP	1	11/4/2024	2:20:18 AM
124	N069638-007B	SAMP	1	11/4/2024	2:22:35 AM
125	N069638-008B	SAMP	1	11/4/2024	2:24:53 AM
126	N069638-009B	SAMP	1	11/4/2024	2:27:11 AM
127	CCV11	CCV	1	11/4/2024	2:29:28 AM
128	CCB11	CCB	1	11/4/2024	2:31:45 AM
129	ICSA4	ICSA	1	11/4/2024	2:34:02 AM
130	ICSAB4	ICSAB	1	11/4/2024	2:36:19 AM
131	MB-113826	MBLK	1	11/4/2024	2:41:04 AM
132	MB-113743 STLC	MBLK	5	11/4/2024	2:43:22 AM
133	LCS-113826	LCS	1	11/4/2024	2:45:40 AM
134	N069757-001A	SAMP	5	11/4/2024	2:47:58 AM
135	N069757-001A	SAMP	25	11/4/2024	2:50:16 AM
136	N069757-001A-PS	PS	5	11/4/2024	2:52:34 AM
137	N069757-001A-MS	MS	5	11/4/2024	2:54:52 AM
138	N069757-001A-MSD	MSD	5	11/4/2024	2:57:10 AM
139	N069757-002A	SAMP	5	11/4/2024	2:59:28 AM
140	N069757-003A	SAMP	5	11/4/2024	3:01:46 AM
141	CCV12	CCV	1	11/4/2024	3:04:03 AM
142	CCB12	CCB	1	11/4/2024	3:06:20 AM
143	N069757-004A	SAMP	5	11/4/2024	3:08:38 AM
144	N069757-005A	SAMP	5	11/4/2024	3:10:56 AM
145	N069757-006A	SAMP	5	11/4/2024	3:13:14 AM
146	N069757-007A	SAMP	5	11/4/2024	3:15:32 AM
147	N069757-008A	SAMP	5	11/4/2024	3:17:51 AM
148	N069757-008A	SAMP	5	11/4/2024	3:20:08 AM
149	N069576-001A	SAMP	5	11/4/2024	3:22:26 AM
150	N069576-002A	SAMP	5	11/4/2024	3:24:44 AM
151	N069574-001A	SAMP	5	11/4/2024	3:27:02 AM
152	N069574-002A	SAMP	5	11/4/2024	3:29:20 AM
153	CCV13	CCV	1	11/4/2024	3:31:37 AM
154	CCB13	CCB	1	11/4/2024	3:33:54 AM
155	N069577-001A	SAMP	5	11/4/2024	3:36:12 AM
156	N069578-001A	SAMP	5	11/4/2024	3:38:30 AM
157	N069578-002A	SAMP	5	11/4/2024	3:40:48 AM
158	N069579-001A	SAMP	5	11/4/2024	3:43:06 AM
159	CCV14	CCV	1	11/4/2024	3:45:23 AM
160	CCB14	CCB	1	11/4/2024	3:47:39 AM
161	MB-113773	MBLK	1	11/4/2024	3:49:58 AM
162	MB-113711 TCLP	MBLK	1	11/4/2024	3:52:16 AM
163	MB-113762 TCLP	MBLK	1	11/4/2024	3:54:34 AM
164	MB-113710 STLC	MBLK	1	11/4/2024	3:56:52 AM
165	LCS-113773	LCS	1	11/4/2024	3:59:10 AM
166	N069536-001A	SAMP	5	11/4/2024	4:01:28 AM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
167	N069536-002A	SAMP	5	11/4/2024	4:03:46 AM
168	N069536-003A	SAMP	5	11/4/2024	4:06:04 AM
169	N069537-001A	SAMP	5	11/4/2024	4:08:21 AM
170	N069538-001A	SAMP	5	11/4/2024	4:10:39 AM
171	CCV15	CCV	1	11/4/2024	4:12:56 AM
172	CCB15	CCB	1	11/4/2024	4:15:13 AM
173	N069540-001A	SAMP	5	11/4/2024	4:17:31 AM
174	N069541-001A	SAMP	1	11/4/2024	4:19:48 AM
175	N069541-002A	SAMP	1	11/4/2024	4:22:07 AM
176	N069541-003A	SAMP	1	11/4/2024	4:24:25 AM
177	N069541-001A ST	SAMP	5	11/4/2024	4:26:43 AM
178	N069541-002A ST	SAMP	5	11/4/2024	4:29:01 AM
179	N069541-003A ST	SAMP	5	11/4/2024	4:31:19 AM
180	N069591-001A	SAMP	1	11/4/2024	4:33:37 AM
181	N069591-001A	SAMP	5	11/4/2024	4:35:54 AM
182	N069591-001A-PS	PS	1	11/4/2024	4:38:13 AM
183	CCV16	CCV	1	11/4/2024	4:40:30 AM
184	CCB16	CCB	1	11/4/2024	4:42:46 AM
185	N069591-001A-MS	MS	1	11/4/2024	4:45:04 AM
186	N069591-001A-MSD	MSD	1	11/4/2024	4:47:22 AM
187	N069591-002A	SAMP	1	11/4/2024	4:49:40 AM
188	N069591-003A	SAMP	1	11/4/2024	4:51:57 AM
189	N069591-003A-DUP	DUP	1	11/4/2024	4:54:15 AM
190	CCV17	CCV	1	11/4/2024	4:56:32 AM
191	CCB17	CCB	1	11/4/2024	4:58:49 AM
192	ICSA5	ICSA	1	11/4/2024	5:01:06 AM
193	ICSAB5	ICSAB	1	11/4/2024	5:03:24 AM
194	MB-113771	MBLK	1	11/4/2024	5:05:42 AM
195	MB-113314 STLC	MBLK	5	11/4/2024	5:08:00 AM
196	MB-113709 STLC	MBLK	5	11/4/2024	5:10:19 AM
197	LCS-113771	LCS	1	11/4/2024	5:12:37 AM
198	N069193-001C	SAMP	5	11/4/2024	5:14:55 AM
199	N069528-001B	SAMP	5	11/4/2024	5:17:13 AM
200	N069528-002A	SAMP	5	11/4/2024	5:19:31 AM
201	N069531-001A	SAMP	5	11/4/2024	5:21:48 AM
202	N069531-001A	SAMP	25	11/4/2024	5:24:06 AM
203	N069531-001A-PS	PS	5	11/4/2024	5:26:24 AM
204	CCV18	CCV	1	11/4/2024	5:28:41 AM
205	CCB18	CCB	1	11/4/2024	5:30:58 AM
206	N069531-001A-MS	MS	5	11/4/2024	5:33:15 AM
207	N069531-001A-MSD	MSD	5	11/4/2024	5:35:34 AM
208	N069532-001A	SAMP	5	11/4/2024	5:37:52 AM
209	N069532-002A	SAMP	5	11/4/2024	5:40:10 AM
210	N069533-001A	SAMP	5	11/4/2024	5:42:28 AM
211	N069533-002A	SAMP	5	11/4/2024	5:44:46 AM
212	N069534-001A	SAMP	5	11/4/2024	5:47:04 AM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
213	N069534-002A	SAMP	5	11/4/2024	5:49:22 AM
214	N069534-003A	SAMP	5	11/4/2024	5:51:40 AM
215	N069534-004A	SAMP	5	11/4/2024	5:53:58 AM
216	CCV19	CCV	1	11/4/2024	5:56:15 AM
217	CCB19	CCB	1	11/4/2024	5:58:32 AM
218	N069534-005A	SAMP	5	11/4/2024	6:00:50 AM
219	N069534-006A	SAMP	5	11/4/2024	6:03:08 AM
220	N069535-001A	SAMP	5	11/4/2024	6:05:26 AM
221	N069535-002A	SAMP	5	11/4/2024	6:07:44 AM
222	N069535-003A	SAMP	5	11/4/2024	6:10:02 AM
223	N069535-004A	SAMP	5	11/4/2024	6:12:20 AM
224	N069535-005A	SAMP	5	11/4/2024	6:14:38 AM
225	N069535-006A	SAMP	5	11/4/2024	6:16:57 AM
226	N069535-007A	SAMP	5	11/4/2024	6:19:15 AM
227	CCV20	CCV	1	11/4/2024	6:21:31 AM
228	CCB20	CCB	1	11/4/2024	6:23:48 AM
229	ICSA6	ICSA	1	11/4/2024	6:26:05 AM
230	ICSAB6	ICSAB	1	11/4/2024	6:28:23 AM
231	MB-113823	MBLK	1	11/4/2024	6:30:40 AM
232	MB-113779 STLC	MBLK	5	11/4/2024	6:32:58 AM
233	LCS-113823	LCS	1	11/4/2024	6:35:15 AM
234	N069618-002A	SAMP	5	11/4/2024	6:37:32 AM
235	N069618-003A	SAMP	5	11/4/2024	6:39:49 AM
236	N069618-004A	SAMP	5	11/4/2024	6:42:07 AM
237	N069618-005A	SAMP	5	11/4/2024	6:44:24 AM
238	N069619-001A	SAMP	5	11/4/2024	6:46:41 AM
239	N069619-002A	SAMP	5	11/4/2024	6:48:59 AM
240	N069619-003A	SAMP	5	11/4/2024	6:51:17 AM
241	CCV21	CCV	1	11/4/2024	6:53:33 AM
242	CCB21	CCB	1	11/4/2024	6:55:50 AM
243	N069619-004A	SAMP	5	11/4/2024	6:58:08 AM
244	N069619-005A	SAMP	5	11/4/2024	7:00:26 AM
245	N069619-006A	SAMP	5	11/4/2024	7:02:43 AM
246	N069620-001A	SAMP	5	11/4/2024	7:05:00 AM
247	N069620-002A	SAMP	5	11/4/2024	7:07:17 AM
248	N069620-003A	SAMP	5	11/4/2024	7:09:34 AM
249	N069620-004A	SAMP	5	11/4/2024	7:11:51 AM
250	N069620-005A	SAMP	5	11/4/2024	7:14:08 AM
251	N069621-001A	SAMP	5	11/4/2024	7:16:26 AM
252	N069621-001A	SAMP	25	11/4/2024	7:18:43 AM
253	CCV22	CCV	1	11/4/2024	7:21:00 AM
254	CCB22	CCB	1	11/4/2024	7:23:17 AM
255	N069621-001A-PS	PS	5	11/4/2024	7:25:34 AM
256	N069621-001A-MS	MS	5	11/4/2024	7:27:51 AM
257	N069621-001A-MSD	MSD	5	11/4/2024	7:30:09 AM
258	N069621-002A	SAMP	5	11/4/2024	7:32:27 AM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
259	N069622-001A	SAMP	5	11/4/2024	7:34:44 AM
260	N069623-001A	SAMP	5	11/4/2024	7:37:01 AM
261	N069624-001A	SAMP	5	11/4/2024	7:39:18 AM
262	CCV23	CCV	1	11/4/2024	7:41:35 AM
263	CCB23	CCB	1	11/4/2024	7:43:52 AM
264	MB-113842	MBLK	1	11/4/2024	7:46:09 AM
265	MB-113818 TCLP	MBLK	1	11/4/2024	7:48:26 AM
266	MB-113780 STLC	MBLK	5	11/4/2024	7:50:43 AM
267	LCS-113842	LCS	1	11/4/2024	7:53:01 AM
268	N069621-001A	SAMP	1	11/4/2024	7:55:18 AM
269	N069621-001A	SAMP	5	11/4/2024	7:57:35 AM
270	N069621-001A-PS	PS	1	11/4/2024	7:59:52 AM
271	N069621-001A-MS	MS	1	11/4/2024	8:02:09 AM
272	N069621-001A-MSD	MSD	1	11/4/2024	8:04:26 AM
273	N069621-002A	SAMP	1	11/4/2024	8:06:43 AM
274	CCV24	CCV	1	11/4/2024	8:09:00 AM
275	CCB24	CCB	1	11/4/2024	8:11:18 AM
276	N069646-001A	SAMP	1	11/4/2024	8:13:35 AM
277	N069646-002A	SAMP	1	11/4/2024	8:15:53 AM
278	N069650-001A	SAMP	1	11/4/2024	8:18:10 AM
279	N069651-001A	SAMP	1	11/4/2024	8:20:27 AM
280	N069652-001A	SAMP	1	11/4/2024	8:22:43 AM
281	N069625-001A ST	SAMP	5	11/4/2024	8:25:01 AM
282	N069626-001A ST	SAMP	5	11/4/2024	8:27:18 AM
283	N069535-007A	SAMP	5	11/4/2024	8:29:36 AM
284	CCV25	CCV	1	11/4/2024	8:31:53 AM
285	CCB25	CCB	1	11/4/2024	8:34:10 AM
286	ICSA7	ICSA	1	11/4/2024	8:36:27 AM
287	ICSAB7	ICSAB	1	11/4/2024	8:38:44 AM

SAMPLE PREPARATION LOG



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 11/1/2024 8:00:00 PM
 Prep End Date: 11/1/2024 11:50:00 PM

Reviewed/ Date: KDG / 11/6/2024

Prep Batch 113806 Prep Code:3010_W DISS

Initials/ Date: _____

Prep Factor Units: Temp. (°C): Location:
 mL / mL 95.2 DB-4-39

Technician: **Diane Jetajobe**

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-113806 50ML LOT # MP3971	Aqueous		25	<input type="checkbox"/>	25	1.000		
LCS2-113806	Aqueous	<2	25	<input type="checkbox"/>	25	1.000		
MB-113806 THERMOMETER ID: DIGESTION 7	Aqueous		25	<input type="checkbox"/>	25	1.000		
N069263-001B REDIGEST	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069263-002B REDIGEST	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069263-003B REDIGEST	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069444-001B REDIGEST	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069444-001B-MS REDIGEST	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069444-001B-MSD REDIGEST	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069444-002B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17140	NITRIC ACID
17147	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
MSST-231025E	Sodium	LCS,MS,MSD	0.025
MSST-231025F	Potassium	LCS,MS,MSD	0.025
MWST-240820AA	ICP Solution C	LCS,MS,MSD	0.5
MWST-240820Y	ICP Solution A	LCS,MS,MSD	0.5
MWST-240820Z	ICP Solution B	LCS,MS,MSD	0.5

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 11/1/2024 8:00:00 PM
 Prep End Date: 11/1/2024 11:50:00 PM

Reviewed/ Date: KDG / 11/6/2024

Prep Batch 113806 Prep Code:3010_W_DISS

Initials/ Date: _____

Prep Factor Units: Temp. (°C): Location:
 mL / mL 95.2 DB-4-39

Technician: **Diane Jetajobe**

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N069444-003B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069629-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069629-001B-MS2	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069629-001B-MSD2	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069629-002B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069631-008B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069631-009B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069631-010B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069631-011B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069631-012B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069631-013B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069631-014B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069638-007B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069638-008B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17140	NITRIC ACID
17147	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
MSST-231025E	Sodium	LCS,MS,MSD	0.025
MSST-231025F	Potassium	LCS,MS,MSD	0.025
MWST-240820AA	ICP Solution C	LCS,MS,MSD	0.5
MWST-240820Y	ICP Solution A	LCS,MS,MSD	0.5
MWST-240820Z	ICP Solution B	LCS,MS,MSD	0.5

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: **11/1/2024 8:00:00 PM**
 Prep End Date: **11/1/2024 11:50:00 PM**

Reviewed/ Date: **KDG / 11/6/2024**

Prep Batch **113806** Prep Code: **3010_W_DISS**

Initials/ Date: _____

Prep Factor Units: Temp. (°C): Location:
 mL / mL **95.2 DB-4-39**

Technician: **Diane Jetajobe**

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N069638-009B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17140	NITRIC ACID
17147	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
MSST-231025E	Sodium	LCS,MS,MSD	0.025
MSST-231025F	Potassium	LCS,MS,MSD	0.025
MWST-240820AA	ICP Solution C	LCS,MS,MSD	0.5
MWST-240820Y	ICP Solution A	LCS,MS,MSD	0.5
MWST-240820Z	ICP Solution B	LCS,MS,MSD	0.5

INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

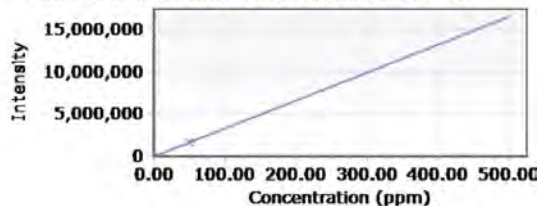
CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
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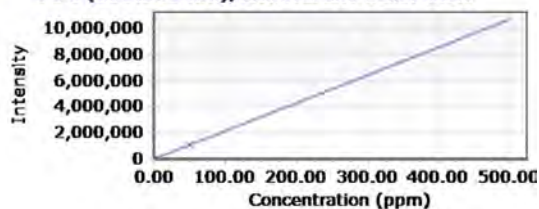
Cu I (324.754 nm), Interferent Calibration



Intensity = 33101.85948620 * Concentration + 684.20878678
 Correlation coefficient: 1.00000
 %RSE:N/A

Standards	Intensity	Method Conc	Calculated Conc	% Error
IEC Blank	684.20879	0.00000	0.00000	N/A
Interferent 09 (Cu)	1655777.18310	50.00000	50.00000	0.00000

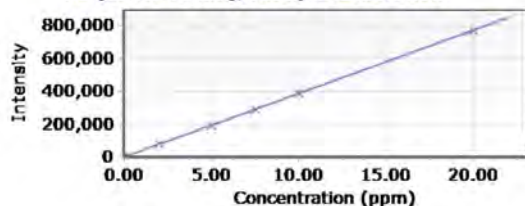
Fe I (239.563 nm), Interferent Calibration



Intensity = 21449.83771380 * Concentration + 29.10415739
 Correlation coefficient: 1.00000
 %RSE:N/A

Standards	Intensity	Method Conc	Calculated Conc	% Error
IEC Blank	29.10416	0.00000	0.00000	N/A
Interferent 10 (Fe)	1072520.98985	50.00000	50.00000	0.00000

Fe (259.940 nm), Analyte Calibration

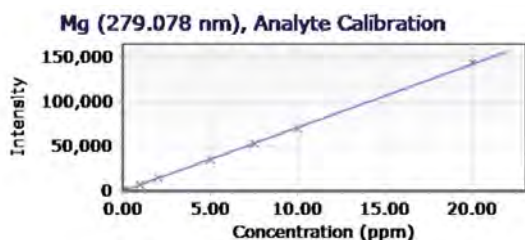


Intensity = 38655.70515879 * Concentration + 77.34197281
 Correlation coefficient: 1.00000
 %RSE:10.33194662

Standards	Intensity	Method Conc	Calculated Conc	% Error
Blank	58.55178	0.00000	-0.00049	N/A

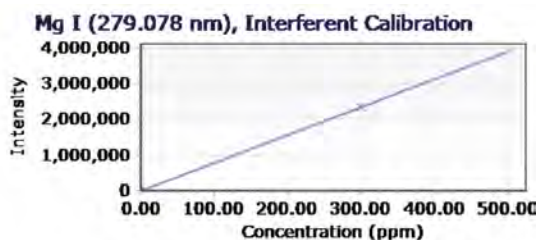


Standards	Intensity	Method Conc	Calculated Conc	% Error
Standard 1	865.09515	0.02000	0.02038	1.89352
Standard 2	2454.74594	0.05000	0.06150	23.00404
Standard 3	78039.27706	2.00000	2.01683	0.84143
Standard 4	193452.40085	5.00000	5.00250	0.04995
Standard 5	288913.29178	7.50000	7.47201	0.37315
Standard 6	385371.75923	10.00000	9.96734	0.32664
Standard 7	772158.65917	20.00000	19.97328	0.13359



Intensity = 7143.19935422 * Concentration + 64.36091118
 Correlation coefficient: 0.99995
 %RSE:1.33701321

Standards	Intensity	Method Conc	Calculated Conc	% Error
Blank	35.16732	0.00000	-0.00409	N/A
Standard 1	777.54694	0.10000	0.09984	0.15874
Standard 2	7358.31853	1.00000	1.02111	2.11051
Standard 3	14270.48348	2.00000	1.98876	0.56191
Standard 4	35283.73305	5.00000	4.93048	1.39048
Standard 5	53076.03316	7.50000	7.42128	1.04962
Standard 6	70981.23430	10.00000	9.92789	0.72113
Standard 7	144023.50807	20.00000	20.15332	0.76658



Intensity = 7830.79440384 * Concentration + 25.13274543

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICV	SampType: ICV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: ICV	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/3/2024	SeqNo: 6285011						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	9997.540	20	10000	0	100	90	110				

Sample ID: LLCCV1	SampType: CCV1	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: ZZZZZ	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/3/2024	SeqNo: 6285013						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	20.150	20	20.00	0	101	80	120				

Sample ID: CCV1	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCV	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/3/2024	SeqNo: 6285027						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	9842.820	20	10000	0	98.4	90	110				


Sample ID: CCV2	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCV	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/3/2024	SeqNo: 6285039						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	9962.970	20	10000	0	99.6	90	110				

Sample ID: CCV3	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCV	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/3/2024	SeqNo: 6285051						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	11343.100	20	10000	0	113	90	110				S

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

% Rec of Fe in CCV3 failed, high bias. However, IQCS that enclosed sample passed criteria.

 11/19/2024

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: CCV4	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCV	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/3/2024	SeqNo: 6285054						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10037.550	20	10000	0	100	90	110
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Sample ID: CCV5	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCV	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/4/2024	SeqNo: 6285067						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9994.570	20	10000	0	99.9	90	110
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Sample ID: CCV6	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCV	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/4/2024	SeqNo: 6285079						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9951.180	20	10000	0	99.5	90	110
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Sample ID: CCV7	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCV	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/4/2024	SeqNo: 6285091						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9918.650	20	10000	0	99.2	90	110
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Sample ID: CCV8	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCV	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/4/2024	SeqNo: 6285097						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9894.560	20	10000	0	98.9	90	110
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: CCV9	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCV	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/4/2024	SeqNo: 6285111						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9954.770	20	10000	0	99.5	90	110				
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Sample ID: CCV10	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCV	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/4/2024	SeqNo: 6285123						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9963.820	20	10000	0	99.6	90	110				
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Sample ID: CCV11	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCV	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/4/2024	SeqNo: 6285129						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9962.820	20	10000	0	99.6	90	110				
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICB	SampType: ICB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: ICB	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/3/2024	SeqNo: 6285012						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 0.730 20

Sample ID: CCB1	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCB	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/3/2024	SeqNo: 6285028						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 1.130 20

Sample ID: CCB2	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCB	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/3/2024	SeqNo: 6285040						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 5.470 20

Sample ID: CCB3	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCB	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/3/2024	SeqNo: 6285052						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 2.720 20

Sample ID: CCB4	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCB	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/3/2024	SeqNo: 6285055						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 3.670 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPB

Sample ID: CCB5	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCB	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/4/2024	SeqNo: 6285088						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	2.420	20
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Sample ID: CCB6	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCB	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/4/2024	SeqNo: 6285080						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	1.590	20
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Sample ID: CCB7	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCB	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/4/2024	SeqNo: 6285092						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	1.570	20
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Sample ID: CCB8	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCB	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/4/2024	SeqNo: 6285098						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	1.710	20
------	-------	----

Sample ID: CCB9	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCB	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/4/2024	SeqNo: 6285112						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	1.170	20
------	-------	----

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPB

Sample ID: CCB10	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCB	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/4/2024	SeqNo: 6285124						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	1.330	20
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Sample ID: CCB11	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: CCB	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/4/2024	SeqNo: 6285130						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	1.100	20
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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NEVADA
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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPB

Sample ID: ICSA1	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: ICSA	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/3/2024	SeqNo: 6285015						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10363.410	50	10000	0	104	80	120				
Calcium	10134.490	500	10000	0	101	80	120				
Iron	10534.100	20	10000	0	105	80	120				
Magnesium	10168.650	100	10000	0	102	80	120				

Sample ID: ICSA1	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: ICSA	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/3/2024	SeqNo: 6285016						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10316.720	50	10000	0	103	80	120				
Calcium	9981.690	500	10000	0	99.8	80	120				
Iron	10231.960	20	10000	0	102	80	120				
Magnesium	10041.210	100	10000	0	100	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: ICSA	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/3/2024	SeqNo: 6285056						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10354.080	50	10000	0	104	80	120				
Calcium	9965.260	500	10000	0	99.7	80	120				
Iron	10447.000	20	10000	0	104	80	120				
Magnesium	10014.230	100	10000	0	100	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: ICSA	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/3/2024	SeqNo: 6285057						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10273.280	50	10000	0	103	80	120				
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGPPB

Sample ID: ICSAB2		SampType: ICSAB		TestCode: 6010_WDPG		Units: µg/L		Prep Date:		RunNo: 195160		
Client ID: ICSAB		Batch ID: R195160		TestNo: EPA 6010B				Analysis Date: 11/3/2024		SeqNo: 6285057		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Calcium	9857.680	500	10000	0	98.6	80	120					
Iron	10183.260	20	10000	0	102	80	120					
Magnesium	9888.760	100	10000	0	98.9	80	120					

Sample ID: ICSA3		SampType: ICSA		TestCode: 6010_WDPG		Units: µg/L		Prep Date:		RunNo: 195160		
Client ID: ICSA		Batch ID: R195160		TestNo: EPA 6010B				Analysis Date: 11/4/2024		SeqNo: 6285099		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	10365.950	50	10000	0	104	80	120					
Calcium	9978.150	500	10000	0	99.8	80	120					
Iron	10428.700	20	10000	0	104	80	120					
Magnesium	9995.130	100	10000	0	100	80	120					

Sample ID: ICSAB3		SampType: ICSAB		TestCode: 6010_WDPG		Units: µg/L		Prep Date:		RunNo: 195160		
Client ID: ICSAB		Batch ID: R195160		TestNo: EPA 6010B				Analysis Date: 11/4/2024		SeqNo: 6285100		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	10295.440	50	10000	0	103	80	120					
Calcium	9839.360	500	10000	0	98.4	80	120					
Iron	10119.570	20	10000	0	101	80	120					
Magnesium	9835.990	100	10000	0	98.4	80	120					

Sample ID: ICSA4		SampType: ICSA		TestCode: 6010_WDPG		Units: µg/L		Prep Date:		RunNo: 195160		
Client ID: ICSA		Batch ID: R195160		TestNo: EPA 6010B				Analysis Date: 11/4/2024		SeqNo: 6285131		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Aluminum	10375.220	50	10000	0	104	80	120					
Calcium	9958.940	500	10000	0	99.6	80	120					
Iron	10409.060	20	10000	0	104	80	120					

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICSA4	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: ICSA	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/4/2024	SeqNo: 6285131						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Magnesium	10030.930	100	10000	0	100	80	120				

Sample ID: ICSA4	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: ICSA	Batch ID: R195160	TestNo: EPA 6010B		Analysis Date: 11/4/2024	SeqNo: 6285132						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	10310.260	50	10000	0	103	80	120				
Calcium	9884.920	500	10000	0	98.8	80	120				
Iron	10134.620	20	10000	0	101	80	120				
Magnesium	9949.860	100	10000	0	99.5	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
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INTERNAL STANDARD SUMMARY



ASSET LABORATORIES
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INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP4

Sample Name	Type	DF	Yttrium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
Blank	BLK	1	1	100	65-125	PASS
Standard 1	ICAL	1	1.01	101	65-125	PASS
Standard 2	ICAL	1	1.02	102	65-125	PASS
Standard 3	ICAL	1	1.03	103	65-125	PASS
Standard 4	ICAL	1	1.02	102	65-125	PASS
Standard 5	ICAL	1	1.02	102	65-125	PASS
Standard 6	ICAL	1	1.03	103	65-125	PASS
Standard 7	ICAL	1	1.01	101	65-125	PASS
ICV	ICV	1	1.01	101	65-125	PASS
ICB	ICB	1	1.01	101	65-125	PASS
LLCCV1	CCV1	1	1.02	102	65-125	PASS
LLCCV2	CCV1	1	1.02	102	65-125	PASS
ICSA1	ICSA	1	1.06	106	65-125	PASS
ICSAB1	ICSAB	1	1.06	106	65-125	PASS
LLCCV1	CCV1	1	1.03	103	65-125	PASS
CCV1	CCV	1	1.06	106	65-125	PASS
CCB1	CCB	1	1.06	106	65-125	PASS
CCV2	CCV	1	1.06	106	65-125	PASS
CCB2	CCB	1	1.06	106	65-125	PASS
CCV3	CCV	1	1.04	104	65-125	PASS
CCB3	CCB	1	1.06	106	65-125	PASS
CCV4	CCV	1	1.06	106	65-125	PASS
CCB4	CCB	1	1.06	106	65-125	PASS
ICSA2	ICSA	1	1.1	110	65-125	PASS
ICSAB2	ICSAB	1	1.1	110	65-125	PASS
CCV5	CCV	1	1.06	106	65-125	PASS
CCB5	CCB	1	1.06	106	65-125	PASS
CCV6	CCV	1	1.06	106	65-125	PASS
CCB6	CCB	1	1.06	106	65-125	PASS
CCV7	CCV	1	1.07	107	65-125	PASS
CCB7	CCB	1	1.06	106	65-125	PASS
CCV8	CCV	1	1.07	107	65-125	PASS
CCB8	CCB	1	1.06	106	65-125	PASS
ICSA3	ICSA	1	1.1	110	65-125	PASS
ICSAB3	ICSAB	1	1.1	110	65-125	PASS
MB-113806	MBLK	1	1.03	103	65-125	PASS
LCS-113806	LCS	1	1.01	101	65-125	PASS
N069263-001B	SAMP	1	1	100	65-125	PASS
N069263-002B	SAMP	1	1.01	101	65-125	PASS
N069263-003B	SAMP	1	1.02	102	65-125	PASS
N069444-001B	SAMP	1	1	100	65-125	PASS

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP4

Sample Name	Type	DF	Yttrium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
N069444-001B	SAMP	5	1.04	104	65-125	PASS
N069444-001B-PS	PS	1	0.95	95	65-125	PASS
N069444-001B-MS	MS	1	1.01	101	65-125	PASS
N069444-001B-MSD	MSD	1	1.01	101	65-125	PASS
CCV9	CCV	1	1.07	107	65-125	PASS
CCB9	CCB	1	1.06	106	65-125	PASS
N069444-002B	SAMP	1	1.03	103	65-125	PASS
N069444-003B	SAMP	1	1.02	102	65-125	PASS
N069629-001B	SAMP	1	1.02	102	65-125	PASS
N069629-002B	SAMP	1	1.03	103	65-125	PASS
N069631-008B	SAMP	1	0.99	99	65-125	PASS
N069631-009B	SAMP	1	0.99	99	65-125	PASS
N069631-010B	SAMP	1	0.97	97	65-125	PASS
N069631-011B	SAMP	1	0.97	97	65-125	PASS
N069631-012B	SAMP	1	1	100	65-125	PASS
N069631-013B	SAMP	1	1.01	101	65-125	PASS
CCV10	CCV	1	1.07	107	65-125	PASS
CCB10	CCB	1	1.06	106	65-125	PASS
N069631-014B	SAMP	1	0.99	99	65-125	PASS
N069638-007B	SAMP	1	1.07	107	65-125	PASS
N069638-008B	SAMP	1	1.05	105	65-125	PASS
N069638-009B	SAMP	1	1.01	101	65-125	PASS
CCV11	CCV	1	1.07	107	65-125	PASS
CCB11	CCB	1	1.06	106	65-125	PASS
ICSA4	ICSA	1	1.1	110	65-125	PASS
ICSAB4	ICSAB	1	1.1	110	65-125	PASS
CCV12	CCV	1	1.06	106	65-125	PASS
CCB12	CCB	1	1.06	106	65-125	PASS
CCV13	CCV	1	1.06	106	65-125	PASS
CCB13	CCB	1	1.06	106	65-125	PASS
CCV14	CCV	1	1.07	107	65-125	PASS
CCB14	CCB	1	1.06	106	65-125	PASS
CCV15	CCV	1	1.06	106	65-125	PASS
CCB15	CCB	1	1.06	106	65-125	PASS
CCV16	CCV	1	1.06	106	65-125	PASS
CCB16	CCB	1	1.07	107	65-125	PASS
CCV17	CCV	1	1.06	106	65-125	PASS
CCB17	CCB	1	1.06	106	65-125	PASS
ICSA5	ICSA	1	1.07	107	65-125	PASS
ICSAB5	ICSAB	1	1.09	109	65-125	PASS
CCV18	CCV	1	1.06	106	65-125	PASS

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP4

Sample Name	Type	DF	Yttrium, 1.0 mg/L			
			Reported Conc	%REC	Criteria	Comment
CCB18	CCB	1	1.06	106	65-125	PASS
CCV19	CCV	1	1.06	106	65-125	PASS
CCB19	CCB	1	1.06	106	65-125	PASS
CCV20	CCV	1	1.05	105	65-125	PASS
CCB20	CCB	1	1.05	105	65-125	PASS
ICSA6	ICSA	1	1.06	106	65-125	PASS
ICSAB6	ICSAB	1	1.08	108	65-125	PASS
CCV21	CCV	1	1.04	104	65-125	PASS
CCB21	CCB	1	1.05	105	65-125	PASS
CCV22	CCV	1	1.05	105	65-125	PASS
CCB22	CCB	1	1.05	105	65-125	PASS
CCV23	CCV	1	1.05	105	65-125	PASS
CCB23	CCB	1	1.05	105	65-125	PASS
CCV24	CCV	1	1.05	105	65-125	PASS
CCB24	CCB	1	1.06	106	65-125	PASS
CCV25	CCV	1	1.05	105	65-125	PASS
CCB25	CCB	1	1.06	106	65-125	PASS
ICSA7	ICSA	1	1.07	107	65-125	PASS
ICSAB7	ICSAB	1	1.09	109	65-125	PASS

SERIAL DILUTION/ POST DIGESTION SPIKE



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ASSET Laboratories

ICP-Metals in Water

Work Order No.: N069638
Test Method: EPA 6010B
Analysis Date: 11/4/2024

Dilution Test Summary

Matrix: Groundwater
Batch No.: 113806

Instrument ID: NV00922-ICP4
Instrument Description: Agilent 5800VDV

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Fe. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069444-001B DT 5x	Iron	Fe	µg/L	0	NA	14.15	100.00%	10

Reviewed by:

d/Rocha 12/19/2024

Note: NA - Not Applicable

11/19/24 22:23

N069638_6010B_113806_DT

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPB

Sample ID: N069444-001B-PS	SampType: PS	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195160						
Client ID: ZZZZZZ	Batch ID: 113806	TestNo: EPA 6010B EPA 3010A	Analysis Date: 11/4/2024	SeqNo: 6285108							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	126.160	20	100.0	14.15	112	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

MDL STUDY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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Method Detection Limits

Analytical Method: EPA 6010B
Digestion Method: 3010_W
Digestion Date: 1/31/2024-2/16/24
Instrument Name: ICP2/ ICP3
Analyst/Technician: DJ

Matrix: WATER
Unit: mg/L

Analyte	1	2	3	4	5	6	7	SD	AMT SPIKED (ppm)	MDLs	PQL	MDL
Beryllium	0.0010	0.0010	0.0010	0.0012	0.0012	0.0009	0.0009	0.00013	0.0010	0.00042	0.0010	0.0004
Boron	0.1015	0.0996	0.0981	0.0955	0.0962	0.0921	0.0811	0.00679	0.1000	0.02134	0.1000	0.0519
Magnesium	0.1018	0.1005	0.1004	0.1023	0.1006	0.0924	0.0926	0.00426	0.1000	0.01340	0.1000	0.0134
Silicon	0.0175	0.0205	0.0214	0.0114	0.0100	0.0210	0.0211	0.00489	0.0200	0.01537	0.0200	0.0154
Chromium	0.0009	0.0009	0.0009	0.0011	0.0009	0.0009	0.0010	0.00007	0.0010	0.00023	0.0010	0.0002
Manganese	0.0096	0.0095	0.0093	0.0101	0.0102	0.0102	0.0104	0.00042	0.0100	0.00133	0.0100	0.0013
Iron	0.0219	0.0207	0.0210	0.0226	0.0224	0.0193	0.0175	0.00184	0.0200	0.00577	0.0200	0.0058
Cobalt	0.0020	0.0018	0.0019	0.0019	0.0018	0.0021	0.0020	0.00013	0.0025	0.00039	0.0025	0.0004
Nickel	0.0055	0.0055	0.0052	0.0028	0.0033	0.0048	0.0047	0.00109	0.0050	0.00342	0.0050	0.0034
Copper	0.0056	0.0058	0.0054	0.0063	0.0058	0.0050	0.0053	0.00041	0.0050	0.00128	0.0050	0.0014
Zinc	0.0110	0.0103	0.0100	0.0106	0.0108	0.0092	0.0088	0.00086	0.0100	0.00269	0.0100	0.0027
Arsenic	0.0100	0.0080	0.0060	0.0084	0.0112	0.0132	0.0065	0.00256	0.0100	0.00805	0.0100	0.0081
Selenium	0.0110	0.0126	0.0120	0.0079	0.0137	0.0079	0.0072	0.00264	0.0100	0.00829	0.0100	0.0083
Molybdenum	0.0056	0.0053	0.0057	0.0044	0.0045	0.0051	0.0044	0.00056	0.0050	0.00177	0.0050	0.0018
Silver	0.0025	0.0025	0.0024	0.0019	0.0018	0.0033	0.0031	0.00056	0.0025	0.00175	0.0025	0.0018
Cadmium	0.0027	0.0026	0.0026	0.0016	0.0018	0.0023	0.0025	0.00043	0.0025	0.00136	0.0025	0.0014
Tin	0.0104	0.0095	0.0097	0.0114	0.0111	0.0087	0.0089	0.00104	0.0100	0.00328	0.0100	0.0033
Antimony	0.0090	0.0093	0.0110	0.0136	0.0122	0.0112	0.0087	0.00180	0.0100	0.00565	0.0100	0.0056
Barium	0.0026	0.0026	0.0026	0.0028	0.0028	0.0024	0.0024	0.00016	0.0025	0.00051	0.0025	0.0005
Thallium	0.0172	0.0169	0.0170	0.0165	0.0144	0.0131	0.0130	0.00188	0.0150	0.00592	0.0150	0.0059
Lead	0.0058	0.0060	0.0061	0.0046	0.0083	0.0049	0.0048	0.00125	0.0050	0.00393	0.0050	0.0039
Calcium	0.2188	0.2125	0.2073	0.2186	0.2230	0.1767	0.1699	0.02155	0.2000	0.06772	0.2000	0.0677
Vanadium	0.0026	0.0025	0.0027	0.0030	0.0029	0.0024	0.0023	0.00026	0.0025	0.00081	0.0025	0.0008
Aluminum	0.0523	0.0513	0.0508	0.0490	0.0501	0.0509	0.0482	0.00140	0.0500	0.00439	0.0500	0.0044
Titanium	0.0119	0.0116	0.0108	0.0100	0.0103	0.0105	0.0107	0.00069	0.0100	0.00216	0.0100	0.0022

Method Detection Limits (Blanks)

Analyte	1	2	3	4	5	6	7	SD	Average	MDLb
Beryllium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00006	0.0000	0.00019
Boron	0.000	0.000	-0.001	-0.005	-0.006	-0.045	-0.047	0.02126	-0.0149	0.05194
Magnesium	-0.001	-0.001	-0.001	0.000	0.001	0.000	-0.001	0.00074	-0.0004	0.00192
Silicon	-0.001	-0.004	-0.004	-0.002	-0.001	-0.012	-0.011	0.00477	-0.0049	0.01013
Chromium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00004	-0.0001	0.00008
Manganese	-0.001	-0.001	-0.001	0.000	0.000	0.000	0.000	0.00044	-0.0005	0.00090
Iron	0.000	0.000	0.000	-0.001	-0.001	-0.003	-0.003	0.00140	-0.0010	0.00337
Cobalt	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00012	-0.0001	0.00029
Nickel	0.000	0.000	0.000	-0.002	-0.002	0.000	0.000	0.00089	-0.0006	0.00224
Copper	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.00033	0.0003	0.00138
Zinc	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.00033	0.0000	0.00102
Arsenic	-0.001	-0.003	0.000	0.000	0.000	0.000	0.000	0.00091	-0.0007	0.00221
Selenium	0.004	0.000	0.002	0.001	0.003	-0.001	0.002	0.00153	0.0017	0.00649
Molybdenum	0.000	0.000	0.000	-0.001	-0.001	0.000	0.000	0.00032	-0.0003	0.00074
Silver	-0.001	-0.001	-0.001	-0.001	-0.001	0.000	0.000	0.00049	-0.0007	0.00083
Cadmium	0.000	0.000	0.000	-0.001	0.000	0.000	0.000	0.00029	-0.0001	0.00081
Tin	-0.001	-0.001	-0.001	0.001	0.000	0.000	-0.001	0.00063	-0.0005	0.00150
Antimony	0.000	-0.001	0.000	0.000	-0.001	0.004	0.000	0.00161	0.0002	0.00524
Barium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00008	0.0000	0.00025
Thallium	0.001	0.000	0.002	0.001	0.000	-0.001	-0.001	0.00104	0.0002	0.00343
Lead	0.000	-0.001	-0.001	-0.001	0.000	0.001	-0.001	0.00068	-0.0004	0.00173
Calcium	0.001	0.001	0.001	-0.003	-0.005	-0.003	-0.017	0.00638	-0.0036	0.01650
Vanadium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00012	0.0000	0.00038
Aluminum	0.000	0.001	0.001	-0.001	-0.001	-0.001	-0.002	0.00105	-0.0003	0.00300
Titanium	0.001	0.000	0.001	-0.001	-0.001	-.00003	0.000	0.00064	0.0000	0.00199

Note: Higher value between MDLs and MDLb will be used.

Method Detection Limits

Analytical Method: EPA 6010B
Digestion Method: EPA 3010A
Digestion Date: 2/8-2/12/2024
Analysis Date: 2/16-2/23/2024
Instrument Name: ICP-04
Analyst/Technician: NS/DBJ

Matrix: WATER
Unit: mg/L

Analyte	1	2	3	4	5	6	7	SD	AMT SPIKED (ppm)	MDLs	PQL	MDL
Beryllium	0.00096	0.00098	0.00096	0.00094	0.00114	0.00100	0.00093	0.00007	0.0010	0.00022	0.0010	0.0004
Boron	0.09627	0.09657	0.09643	0.09117	0.09044	0.09475	0.09499	0.00255	0.1000	0.00800	0.1000	0.0080
Magnesium	0.10052	0.10036	0.09959	0.10705	0.10731	0.09987	0.10054	0.00344	0.1000	0.01079	0.1000	0.0153
Silicon	0.01997	0.01949	0.01947	0.02053	0.02103	0.02063	0.02079	0.00063	0.0200	0.00198	0.0200	0.0020
Chromium	0.00100	0.00096	0.00096	0.00116	0.00117	0.00109	0.00115	0.00009	0.0010	0.00030	0.0010	0.0005
Manganese	0.00965	0.00966	0.00962	0.00727	0.00736	0.00964	0.00963	0.00113	0.0100	0.00356	0.0100	0.0037
Iron	0.01670	0.01666	0.01669	0.01930	0.01911	0.01418	0.01399	0.00209	0.0200	0.00657	0.0200	0.0066
Cobalt	0.00276	0.00227	0.00246	0.00248	0.00246	0.00188	0.00221	0.00028	0.0025	0.00087	0.0025	0.0009
Nickel	0.00479	0.00493	0.00510	0.00476	0.00489	0.00457	0.00453	0.00020	0.0050	0.00063	0.0050	0.0006
Copper	0.00508	0.00506	0.00488	0.00503	0.00521	0.00474	0.00486	0.00016	0.0050	0.00050	0.0050	0.0005
Zinc	0.01247	0.01227	0.01233	0.01015	0.01017	0.00939	0.00952	0.00139	0.0100	0.00438	0.0100	0.0044
Arsenic	0.00990	0.00949	0.00882	0.01052	0.01052	0.01070	0.01000	0.00067	0.0100	0.00210	0.0100	0.0021
Selenium	0.00898	0.00986	0.01063	0.01176	0.01126	0.01021	0.01046	0.00091	0.0100	0.00286	0.0100	0.0032
Molybdenum	0.00546	0.00537	0.00512	0.00602	0.00529	0.00458	0.00502	0.00044	0.0050	0.00139	0.0050	0.0021
Silver	0.00245	0.00240	0.00249	0.00200	0.00194	0.00221	0.00211	0.00022	0.0025	0.00070	0.0025	0.0010
Cadmium	0.00248	0.00248	0.00244	0.00239	0.00240	0.00219	0.00224	0.00012	0.0025	0.00036	0.0025	0.0004
Tin	0.00982	0.01010	0.00968	0.01041	0.01050	0.00990	0.00999	0.00030	0.0100	0.00095	0.0100	0.0010
Antimony	0.01076	0.01056	0.00998	0.01034	0.01208	0.00938	0.00979	0.00087	0.0100	0.00274	0.0100	0.0027
Barium	0.00266	0.00257	0.00258	0.00258	0.00257	0.00249	0.00254	0.00005	0.0025	0.00016	0.0025	0.0008
Thallium	0.01580	0.01557	0.01597	0.01222	0.01292	0.01486	0.01560	0.00151	0.0150	0.00475	0.0150	0.0048
Lead	0.00431	0.00500	0.00446	0.00447	0.00503	0.00422	0.00371	0.00046	0.0050	0.00144	0.0050	0.0014
Calcium	0.20228	0.20108	0.20096	0.20023	0.20038	0.19290	0.19351	0.00386	0.2000	0.01211	0.2000	0.0121
Vanadium	0.00265	0.00253	0.00241	0.00232	0.00229	0.00240	0.00246	0.00012	0.0025	0.00039	0.0025	0.0006
Aluminum	0.05361	0.05332	0.05336	0.05134	0.05238	0.05032	0.04987	0.00153	0.0500	0.00482	0.0500	0.0075
Titanium	0.01017	0.01017	0.01014	0.01005	0.01003	0.01004	0.01004	0.00007	0.0100	0.00020	0.0100	0.0012
Sodium	0.10464	0.10886	0.11103	0.10060	0.10108	0.10829	0.10960	0.00421	0.1000	0.01321	0.1000	0.0132
Strontium	0.02468	0.02576	0.02592	0.02543	0.02579	0.02513	0.02569	0.00044	0.0250	0.00139	0.0250	0.0014

BLANK

Analyte	1	2	3	4	5	6	7	SD	Average	MDL	PQL
Beryllium	-0.00048	-0.00014	-0.00014	0.00001	0.00001	-0.00003	-0.00002	0.00017	-0.00011	0.00043	0.0010
Boron	-0.00209	-0.00259	-0.00248	-0.00694	-0.00772	-0.00175	-0.00221	0.00252	-0.00368	0.00423	0.1000
Magnesium	0.00244	0.00147	0.00205	0.00943	0.00934	0.00459	0.00401	0.00334	0.00476	0.01526	0.1000
Silicon	-0.00009	-0.00039	-0.00061	-0.00016	-0.00044	-0.00044	-0.00071	0.00022	-0.00041	0.00029	0.0200
Chromium	0.00017	0.00009	0.00006	0.00027	0.00032	0.00008	0.00012	0.00010	0.00016	0.00047	0.0010
Manganese	-0.00054	-0.00051	-0.00054	-0.00311	-0.00312	0.00037	0.00037	0.00149	-0.00101	0.00368	0.0100
Iron	-0.00361	-0.00368	-0.00350	-0.00126	-0.00121	0.00037	-0.00627	0.00219	-0.00274	0.00416	0.0200
Cobalt	-0.00033	0.00009	-0.00016	-0.00021	-0.00058	-0.00032	-0.00036	0.00021	-0.00027	0.00038	0.0025
Nickel	-0.00036	-0.00009	-0.00024	-0.00021	-0.00033	-0.00022	-0.00023	0.00009	-0.00024	0.00004	0.0050
Copper	0.00005	0.00002	0.00000	0.00019	0.00028	-0.00001	0.00000	0.00011	0.00008	0.00043	0.0050
Zinc	0.00056	-0.00003	-0.00006	-0.00024	-0.00022	-0.00079	-0.00081	0.00047	-0.00023	0.00126	0.0100
Arsenic	-0.00003	-0.00086	-0.00030	-0.00052	0.00012	0.00051	0.00034	0.00049	-0.00011	0.00142	0.0100
Selenium	-0.00105	-0.00101	0.00003	-0.00013	-0.00033	0.00092	0.00175	0.00101	0.00003	0.00321	0.0100
Molybdenum	0.00035	0.00064	-0.00012	0.00102	0.00080	-0.00015	-0.00059	0.00059	0.00028	0.00212	0.0050
Silver	-0.00021	-0.00023	-0.00022	-0.00146	-0.00143	-0.00071	-0.00064	0.00055	-0.00070	0.00102	0.0025
Cadmium	-0.00003	-0.00002	-0.00003	-0.00008	-0.00009	-0.00026	-0.00030	0.00012	-0.00012	0.00025	0.0025
Tin	-0.00048	-0.00035	0.00010	-0.00014	0.00016	-0.00005	-0.00008	0.00023	-0.00012	0.00060	0.0100
Antimony	0.00008	0.00020	0.00049	-0.00016	0.00141	0.00021	0.00121	0.00059	0.00049	0.00236	0.0100
Barium	0.00006	0.00062	0.00005	0.00003	-0.00010	-0.00003	-0.00006	0.00024	0.00008	0.00085	0.0025
Thallium	0.00113	0.00056	0.00015	0.00095	0.00031	0.00135	0.00088	0.00044	0.00076	0.00214	0.0150
Lead	-0.00006	-0.00093	-0.00022	-0.00025	-0.00031	-0.00180	-0.00134	0.00067	-0.00070	0.00139	0.0050
Calcium	-0.00505	0.00006	0.00001	-0.00038	-0.00024	-0.00119	-0.00204	0.00183	-0.00126	0.00450	0.2000
Vanadium	0.00027	0.00033	0.00044	0.00022	0.00016	0.00010	0.00011	0.00012	0.00023	0.00062	0.0025
Aluminum	0.00375	0.00381	0.00445	0.00041	0.00100	0.00108	0.00110	0.00169	0.00223	0.00754	0.0500
Titanium	0.00001	0.00001	-0.00001	-0.00006	-0.00010	0.00000	0.00088	0.00034	0.00010	0.00119	0.0100
Sodium	0.00136	0.00379	0.00132	-0.00038	-0.00214	-0.00015	0.00331	0.00210	0.00102	0.00761	0.1000
Strontium	-0.00115	-0.00166	-0.00116	-0.00120	-0.00012	-0.00045	-0.00044	0.00055	-0.00088	0.00085	0.0200

Note: ICP-04 is an additional instrument, MDL is within 0.5 to 2.0 of existing MDL. Retain existing MDL.

EPA 6020 Dissolved



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
 REV 2.1
 072018

FIRST LEVEL REVIEW:

QC Batch Number: 113831
 ASSET #: N069638

Instrument ID: NV00922-ICP8
 Analyst: DBJ

Method:

EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 11/3/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.		X			X	
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)		X			X	
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?	X		X	X		X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?	X		X	X		X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented	X			X		
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

% Rec of Ba and Mo in N069629-001B-PS failed. However, LCS passed criteria.
 % RSD of As in N069629-001B (sample ref)/ N069631-009B/010B/012B, failed. For rerun.
 Mn is OLR in N069638-001B/008B/009B. For dilution.
 % RSD of As in N069629-001B (sample ref). Please see CAR # 8175.

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer KDG 11/7/2024

Date: _____
 Date: _____



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 113831
ASSET #: N069638

Instrument ID: NV00922-ICP8
Analyst: DBJ

Method:

EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 11/5/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.		X			X	
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.			X			X
24. LCS compounds within control limits.			X			X
25. MS/MSD, RPD's are within control limits			X			X
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented	X			X		
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

As rerun.
Mn dilution.
% RSD of As in N069629-001B (sample ref), failed, several times. Please see CAR #8175

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
2nd Level Reviewer NS 11/6/2024

Date: _____
Date: _____

SAMPLE CALCULATION



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SAMPLE CALCULATION

METHOD: EPA 6020
TEST NAME: Heavy Metals by ICP-MS
MATRIX: Groundwater

FORMULA:

Calculate the Barium concentration, in ug/L in the original sample as follows:

$$\text{Barium, ug/L} = A * DF * PF$$

where:

A = ug/L, calculated concentration
DF = Dilution Factor
PF = Final Volume of Digestate, mL / Amount of Sample, mL

For Sample **N069638-007B**, the concentration in ug/L is calculated as follows:


$$\text{Barium, ug/L} = 144.608 * 1 * (25 / 25)$$

$$\text{Barium, ug/L} = 144.6076$$

Reporting results in two significant figures,

$$\text{Barium, ug/L} = 140$$

Reviewed by:

 12/20/2024

% RSD SUMMARY



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PERCENT RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	137 Ba [3]				52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.1	11.141	15	PASS	0.1	2.746	15	PASS
Std2-0.5/5 ppb	ICAL	1	0.45	9.056	15	PASS	0.48	3.48	15	PASS
Std3-5/50 ppb	ICAL	1	4.72	4.848	15	PASS	4.73	2.948	15	PASS
Std4-10/100 ppb	ICAL	1	9.35	1.592	15	PASS	9.49	1.571	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	18.68	1.73	15	PASS	18.91	2.242	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	37.95	1.055	15	PASS	38.49	0.946	15	PASS
Std7-100/1000 ppb	ICAL	1	98.06	1.813	15	PASS	97.48	1.076	15	PASS
Std8-200/2000 ppb	ICAL	1	201.55	0.478	15	PASS	201.7	2.211	15	PASS
ICV	ICV	1	9.3	1.902	15	PASS	9.77	1.476	15	PASS
ICB	ICB	1	0	1979.074	15	<PQL	<0.000	N/A	15	<PQL
LLCCV1	CCV1	1	0.1	19.747	20	PASS	0.07	24.333	20	<PQL
LLCCV2	CCV1	1	0.98	4.946	20	PASS	0.98	3.403	20	PASS
MLCCV1	CCV	1	18.69	1.653	15	PASS	19.22	1.057	15	PASS
ICSA1	ICSA	1	0.01	118.643	15	<PQL	<0.000	N/A	15	<PQL
ICSA1	ICSA	1	0.01	17.568	15	<PQL	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	19.06	0.391	15	PASS	19.5	3.261	15	PASS
CCV1	CCV	1	18.86	1.011	15	PASS	19.38	1.356	15	PASS
CCB1	CCB	1	0.01	71.719	15	<PQL	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	0	95.356	15	<PQL	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	19.64	0.691	15	PASS	19.36	1.169	15	PASS
CCV2	CCV	1	20.37	0.611	15	PASS	18.61	1.401	15	PASS
CCB2	CCB	1	0	146.178	15	<PQL	<0.000	N/A	15	<PQL
CCV3	CCV	1	20.23	0.702	15	PASS	18.5	1.936	15	PASS
CCB3	CCB	1	0	1226.985	15	<PQL	<0.000	N/A	15	<PQL
CCV4	CCV	1	20.63	1.234	15	PASS	18.54	0.977	15	PASS
CCB4	CCB	1	0	84.972	15	<PQL	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	0	141.516	15	<PQL	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	20.37	2.356	15	PASS	18.57	1.492	15	PASS
CCV4	CCV	1	20.19	1.149	15	PASS	19.12	1.362	15	PASS
CCB4	CCB	1	0	183.951	15	<PQL	0.01	167.893	15	<PQL
CCV5	CCV	1	19.93	2.092	15	PASS	18.91	1.153	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV6	CCV	1	19.96	1.818	15	PASS	19.01	2.242	15	PASS
CCB6	CCB	1	<0.000	N/A	15	<PQL	0	8628.481	15	<PQL
CCV7	CCV	1	20.38	0.728	15	PASS	19.22	2.191	15	PASS
CCB7	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA4	ICSA	1	0.01	47.89	15	<PQL	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	20.1	0.641	15	PASS	18.6	1.753	15	PASS
MB-113831	MBLK	1	0	92.403	15	<PQL	<0.000	N/A	15	<PQL
LCS-113831	LCS	1	9.83	1.782	15	PASS	9.7	0.579	15	PASS

PERCENT RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	137 Ba [3]				52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N069629-001B	SAMP	1	85.48	1.527	15	PASS	2.8	2.731	15	PASS
N069629-001B	SAMP	5	17.17	1.249	15	PASS	0.54	9.75	15	PASS
N069629-001B-PS	PS	1	99.73	0.829	15	PASS	12.43	2.319	15	PASS
N069629-001B-MS	MS	1	96.02	1.02	15	PASS	11.96	1.959	15	PASS
N069629-001B-MSD	MSD	1	94.12	1.547	15	PASS	11.87	1.227	15	PASS
N069629-002B	SAMP	1	84.59	0.371	15	PASS	2.83	0.331	15	PASS
N069631-008B	SAMP	1	34.07	2.049	15	PASS	0.05	9.985	15	PASS
CCV8	CCV	1	20.38	0.357	15	PASS	19.14	0.962	15	PASS
CCB8	CCB	1	0	285.06	15	<PQL	<0.000	N/A	15	<PQL
N069631-009B	SAMP	1	53.3	1.87	15	PASS	0.01	85.22	15	<PQL
N069631-010B	SAMP	1	105.55	1.372	15	PASS	0.38	14.921	15	PASS
N069631-011B	SAMP	1	42.05	1.196	15	PASS	0.07	34.218	15	<PQL
N069631-012B	SAMP	1	75.07	0.765	15	PASS	0.07	12.436	15	PASS
N069631-013B	SAMP	1	68.01	1.269	15	PASS	0.06	19.74	15	<PQL
N069631-014B	SAMP	1	59.6	0.618	15	PASS	0.18	10.97	15	PASS
N069638-001B	SAMP	1	105.06	1.168	15	PASS	11.43	2.505	15	PASS
N069638-002B	SAMP	1	72.5	1.502	15	PASS	19.37	1.386	15	PASS
N069638-003B	SAMP	1	65.84	0.175	15	PASS	0.08	32.058	15	<PQL
CCV9	CCV	1	21.1	1.867	15	PASS	18.39	1.827	15	PASS
CCB9	CCB	1	0	383.356	15	<PQL	<0.000	N/A	15	<PQL
N069638-007B	SAMP	1	144.61	0.885	15	PASS	0.04	27.897	15	<PQL
N069638-008B	SAMP	1	200.73	0.98	15	PASS	0.19	8.058	15	PASS
N069638-009B	SAMP	1	88.16	1.074	15	PASS	0.09	8.942	15	PASS
CCV10	CCV	1	20.48	0.829	15	PASS	19.14	1.887	15	PASS
CCB10	CCB	1	0	177.546	15	<PQL	<0.000	N/A	15	<PQL
CCV11	CCV	1	20.48	0.986	15	PASS	18.69	2.273	15	PASS
CCB11	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA5	ICSA	1	0.01	21.123	15	<PQL	<0.000	N/A	15	<PQL
ICSAB5	ICSAB	1	19.6	0.51	15	PASS	18.87	0.732	15	PASS

PERCENT RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.09	3.422	15	PASS	0.13	42.953	15	FAIL
Std2-0.5/5 ppb	ICAL	1	0.48	14.645	15	PASS	0.54	10.145	15	PASS
Std3-5/50 ppb	ICAL	1	4.76	1.641	15	PASS	4.51	6.574	15	PASS
Std4-10/100 ppb	ICAL	1	9.52	2.342	15	PASS	9.64	2.92	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.74	1.78	15	PASS	18.81	0.85	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	38.39	0.737	15	PASS	38.2	4.623	15	PASS
Std7-100/1000 ppb	ICAL	1	97.85	0.305	15	PASS	98.44	4.1	15	PASS
Std8-200/2000 ppb	ICAL	1	201.45	1.92	15	PASS	201.29	1.784	15	PASS
ICV	ICV	1	95.76	0.747	15	PASS	9.65	4.812	15	PASS
ICB	ICB	1	0	351.948	15	<PQL	0.01	326.628	15	<PQL
LLCCV1	CCV1	1	0.09	33.007	20	<PQL	0.08	49.159	20	<PQL
LLCCV2	CCV1	1	0.52	9.662	20	PASS	0.12	51.25	20	FAIL
MLCCV1	CCV	1	20.18	3.505	15	PASS	18.69	3.354	15	PASS
ICSA1	ICSA	1	0.02	38.28	15	<PQL	0.02	86.414	15	<PQL
ICSA1	ICSA	1	0.02	30.041	15	<PQL	0.02	42.121	15	<PQL
ICSAB1	ICSAB	1	19.79	0.776	15	PASS	19.26	5.434	15	PASS
CCV1	CCV	1	19.68	1.792	15	PASS	18.22	3.511	15	PASS
CCB1	CCB	1	0.01	35.568	15	<PQL	0.01	149.398	15	<PQL
ICSA2	ICSA	1	0.02	20.226	15	<PQL	0.02	42.695	15	<PQL
ICSAB2	ICSAB	1	19.17	1.605	15	PASS	19.19	2.139	15	PASS
CCV2	CCV	1	19.36	1.558	15	PASS	18.56	3.978	15	PASS
CCB2	CCB	1	0	259.076	15	<PQL	0.01	159.22	15	<PQL
CCV3	CCV	1	19.12	1.333	15	PASS	18.43	4.538	15	PASS
CCB3	CCB	1	0	113.839	15	<PQL	0.04	112.271	15	<PQL
CCV4	CCV	1	18.98	2.542	15	PASS	19.23	2.918	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL	0.01	159.18	15	<PQL
ICSA3	ICSA	1	0.01	56.927	15	<PQL	0.02	158.939	15	<PQL
ICSAB3	ICSAB	1	19.03	1.617	15	PASS	17.98	3.367	15	PASS
CCV4	CCV	1	19.54	0.874	15	PASS	19.12	3.351	15	PASS
CCB4	CCB	1	0.01	171.83	15	<PQL	0.03	162.345	15	<PQL
CCV5	CCV	1	19.3	0.897	15	PASS	18.71	5.814	15	PASS
CCB5	CCB	1	0.01	194.264	15	<PQL	0	46824.375	15	<PQL
CCV6	CCV	1	19.24	2.756	15	PASS	19.26	2.211	15	PASS
CCB6	CCB	1	0	306.035	15	<PQL	0.03	73.995	15	<PQL
CCV7	CCV	1	19.35	2.895	15	PASS	18.84	2.852	15	PASS
CCB7	CCB	1	0.01	59.704	15	<PQL	0.01	151.109	15	<PQL
ICSA4	ICSA	1	0.02	69.269	15	<PQL	0.04	67.415	15	<PQL
ICSAB4	ICSAB	1	19.1	0.382	15	PASS	18.65	3.86	15	PASS
MB-113831	MBLK	1	0.01	157.781	15	<PQL	0.02	151.505	15	<PQL
LCS-113831	LCS	1	97.59	1.807	15	PASS	9.57	5.025	15	PASS

PERCENT RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N069629-001B	SAMP	1	18.04	2.912	15	PASS	0.14	28.261	15	NR!
N069629-001B	SAMP	5	3.54	5.761	15	PASS	0.05	74.419	15	<PQL
N069629-001B-PS	PS	1	111.55	1.386	15	PASS	10.08	4.576	15	PASS
N069629-001B-MS	MS	1	108.96	1.22	15	PASS	9.46	2.893	15	PASS
N069629-001B-MSD	MSD	1	109.31	1.44	15	PASS	9.67	4.618	15	PASS
N069629-002B	SAMP	1	18.66	1.7	15	PASS	0.08	11.531	15	PASS
N069631-008B	SAMP	1	220.37	0.875	15	PASS	1.34	9.182	15	PASS
CCV8	CCV	1	19.33	1.501	15	PASS	19.62	1.057	15	PASS
CCB8	CCB	1	0	4.568	15	PASS	0.03	106.449	15	<PQL
N069631-009B	SAMP	1	159.19	1.981	15	PASS	0.52	33.25	15	NR!
N069631-010B	SAMP	1	869.94	1.239	15	PASS	0.9	17.563	15	NR!
N069631-011B	SAMP	1	1000.46	0.165	15	PASS	1.51	5.802	15	PASS
N069631-012B	SAMP	1	486.45	0.221	15	PASS	0.37	15.986	15	NR!
N069631-013B	SAMP	1	511.71	0.251	15	PASS	11.81	5.082	15	PASS
N069631-014B	SAMP	1	586.16	0.171	15	PASS	3.36	1.275	15	PASS
N069638-001B	SAMP	1	286.95	0.611	15	PASS	9.68	3.89	15	PASS
N069638-002B	SAMP	1	22.77	1.415	15	PASS	1.87	14.015	15	PASS
N069638-003B	SAMP	1	101.71	0.62	15	PASS	12.62	7.157	15	PASS
CCV9	CCV	1	18.95	1.826	15	PASS	19.46	0.822	15	PASS
CCB9	CCB	1	0	415.712	15	<PQL	0.03	125.315	15	<PQL
N069638-007B	SAMP	1	89.46	1.39	15	PASS	1.96	15.492	15	NR!
N069638-008B	SAMP	1	272.2	1.435	15	PASS	14.09	1.864	15	PASS
N069638-009B	SAMP	1	2177.09	0.895	15	PASS	2.17	0.976	15	PASS
CCV10	CCV	1	19.2	2.069	15	PASS	18.78	1.152	15	PASS
CCB10	CCB	1	0.01	124.17	15	<PQL	0.02	60.37	15	<PQL
CCV11	CCV	1	18.87	0.182	15	PASS	18.2	2.781	15	PASS
CCB11	CCB	1	0	228.524	15	<PQL	0.01	171.917	15	<PQL
ICSA5	ICSA	1	0.02	2.342	15	PASS	0.01	146.87	15	<PQL
ICSAB5	ICSAB	1	19.37	2.196	15	PASS	18.73	4.101	15	PASS

PERCENT RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	78 Se [1]				95 Mo [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.11	68.579	15	<PQL	0.09	13.596	15	PASS
Std2-0.5/5 ppb	ICAL	1	0.5	8.352	15	PASS	0.46	5.929	15	PASS
Std3-5/50 ppb	ICAL	1	4.79	6.677	15	PASS	4.57	3.889	15	PASS
Std4-10/100 ppb	ICAL	1	9.33	7.346	15	PASS	9.16	2.626	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	18.43	1.905	15	PASS	18.61	0.724	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	38.34	1.105	15	PASS	38	1.621	15	PASS
Std7-100/1000 ppb	ICAL	1	96.14	1.504	15	PASS	96.08	0.106	15	PASS
Std8-200/2000 ppb	ICAL	1	202.46	1.198	15	PASS	202.55	0.68	15	PASS
ICV	ICV	1	9.68	2.456	15	PASS	9.51	0.133	15	PASS
ICB	ICB	1	0.02	173.205	15	<PQL	0.03	54.388	15	<PQL
LLCCV1	CCV1	1	0.13	71.188	20	<PQL	0.12	13.395	20	PASS
LLCCV2	CCV1	1	0.53	32.46	20	FAIL	0.47	1.395	20	PASS
MLCCV1	CCV	1	18.78	3.912	15	PASS	18.48	1.343	15	PASS
ICSA1	ICSA	1	0.01	173.205	15	<PQL	0.04	17.951	15	<PQL
ICSA1	ICSA	1	0.01	173.205	15	<PQL	0.02	79.675	15	<PQL
ICSAB1	ICSAB	1	18.98	0.502	15	PASS	19.06	2.437	15	PASS
CCV1	CCV	1	18.79	2.414	15	PASS	18.39	1.75	15	PASS
CCB1	CCB	1	0.04	91.329	15	<PQL	0.04	12.375	15	PASS
ICSA2	ICSA	1	0.04	92.053	15	<PQL	0.02	51.498	15	<PQL
ICSAB2	ICSAB	1	18.99	3.292	15	PASS	19.16	1.523	15	PASS
CCV2	CCV	1	19.05	4.52	15	PASS	19.36	0.659	15	PASS
CCB2	CCB	1	0.01	173.205	15	<PQL	0.06	29.207	15	<PQL
CCV3	CCV	1	18.01	3.075	15	PASS	19.18	0.889	15	PASS
CCB3	CCB	1	0	N/A	15	<PQL	0.05	14.129	15	PASS
CCV4	CCV	1	18.28	4.138	15	PASS	19.43	1.956	15	PASS
CCB4	CCB	1	0.03	115.342	15	<PQL	0.06	13.5	15	PASS
ICSA3	ICSA	1	0.02	99.399	15	<PQL	0.02	65.406	15	<PQL
ICSAB3	ICSAB	1	18.43	1.617	15	PASS	19.08	0.782	15	PASS
CCV4	CCV	1	18.29	2.82	15	PASS	19.4	0.361	15	PASS
CCB4	CCB	1	0	N/A	15	<PQL	0.05	10.921	15	PASS
CCV5	CCV	1	19.35	2.551	15	PASS	19.47	1.19	15	PASS
CCB5	CCB	1	0.02	100.254	15	<PQL	0.04	21.572	15	<PQL
CCV6	CCV	1	18.44	1.185	15	PASS	19.18	0.483	15	PASS
CCB6	CCB	1	0.02	173.205	15	<PQL	0.04	35.245	15	<PQL
CCV7	CCV	1	19.05	3.495	15	PASS	19.43	0.931	15	PASS
CCB7	CCB	1	0.02	100.758	15	<PQL	0.06	45.167	15	<PQL
ICSA4	ICSA	1	0.02	86.623	15	<PQL	0.02	76.941	15	<PQL
ICSAB4	ICSAB	1	18.37	3.681	15	PASS	18.92	0.329	15	PASS
MB-113831	MBLK	1	0	N/A	15	<PQL	0.04	9.644	15	PASS
LCS-113831	LCS	1	9.28	3.778	15	PASS	9.64	3.083	15	PASS

PERCENT RSD SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	78 Se [1]				95 Mo [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N069629-001B	SAMP	1	4.93	9.838	15	PASS	79.48	0.77	15	PASS
N069629-001B	SAMP	5	1.02	7.985	15	PASS	15.24	1.5	15	PASS
N069629-001B-PS	PS	1	14.51	8.345	15	PASS	93.85	0.462	15	PASS
N069629-001B-MS	MS	1	13.98	3.289	15	PASS	89.94	1.056	15	PASS
N069629-001B-MSD	MSD	1	14.18	2.745	15	PASS	90.35	0.726	15	PASS
N069629-002B	SAMP	1	4.32	9.949	15	PASS	79.78	0.876	15	PASS
N069631-008B	SAMP	1	0.06	33.53	15	<PQL	57.67	0.932	15	PASS
CCV8	CCV	1	18.78	3.906	15	PASS	19.36	2.051	15	PASS
CCB8	CCB	1	0.02	86.615	15	<PQL	0.05	22.771	15	<PQL
N069631-009B	SAMP	1	0.03	100.206	15	<PQL	32.26	0.082	15	PASS
N069631-010B	SAMP	1	0.91	8.785	15	PASS	24.45	2.183	15	PASS
N069631-011B	SAMP	1	0.04	100.805	15	<PQL	138.96	0.834	15	PASS
N069631-012B	SAMP	1	0.06	34.913	15	<PQL	47.11	1.103	15	PASS
N069631-013B	SAMP	1	0.11	45.986	15	<PQL	17.95	1.35	15	PASS
N069631-014B	SAMP	1	0.09	79.666	15	<PQL	28.64	1.001	15	PASS
N069638-001B	SAMP	1	1.31	4.759	15	PASS	86.4	0.499	15	PASS
N069638-002B	SAMP	1	2.49	6.102	15	PASS	38.26	0.639	15	PASS
N069638-003B	SAMP	1	0.02	173.205	15	<PQL	71.16	0.473	15	PASS
CCV9	CCV	1	18.59	2.96	15	PASS	19.62	1.035	15	PASS
CCB9	CCB	1	0.02	86.627	15	<PQL	0.05	21.241	15	<PQL
N069638-007B	SAMP	1	0.1	41.977	15	<PQL	4.93	0.915	15	PASS
N069638-008B	SAMP	1	0.04	114.554	15	<PQL	4.75	5.629	15	PASS
N069638-009B	SAMP	1	0.25	31.912	15	<PQL	14.52	0.547	15	PASS
CCV10	CCV	1	19.42	3.947	15	PASS	19.53	1.439	15	PASS
CCB10	CCB	1	0.03	42.921	15	<PQL	0.05	12.541	15	PASS
CCV11	CCV	1	19.08	2.878	15	PASS	19.44	1.974	15	PASS
CCB11	CCB	1	0.02	173.205	15	<PQL	0.03	54.129	15	<PQL
ICSA5	ICSA	1	0.02	86.604	15	<PQL	0.01	53.778	15	<PQL
ICSAB5	ICSAB	1	19.51	1.622	15	PASS	19.01	1.671	15	PASS

PERCENT RSD SUMMARY: 241105B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.11	26.147	15	<PQL	0.06	73.782	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.43	7.831	15	PASS	0.46	18.784	15	FAIL
Std3-5/50 ppb	ICAL	1	4.69	2.106	15	PASS	4.88	2.548	15	PASS
Std4-10/100 ppb	ICAL	1	9.11	1.089	15	PASS	9.38	5.875	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.54	1.346	15	PASS	20.16	0.849	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	37.35	1.939	15	PASS	39.04	2.941	15	PASS
Std7-100/1000 ppb	ICAL	1	98.31	1.573	15	PASS	98.47	2.217	15	PASS
Std8-200/2000 ppb	ICAL	1	201.47	0.678	15	PASS	200.98	2.799	15	PASS
ICV	ICV	1	97.56	0.741	15	PASS	9.9	4.718	15	PASS
ICB	ICB	1	0.01	88.663	15	<PQL	0.05	49.366	15	<PQL
LLCCV1	CCV1	1	0.08	13.074	20	PASS	0.07	49.079	20	<PQL
LLCCV2	CCV1	1	0.53	6.557	20	PASS	0.09	33.099	20	<PQL
MLCCV1	CCV	1	19.46	2.236	15	PASS	19.47	4.523	15	PASS
ICSA1	ICSA	1	0.01	125.158	15	<PQL	0.03	57.68	15	<PQL
ICSAB1	ICSAB	1	19.81	1.891	15	PASS	19.51	2.889	15	PASS
CCV1	CCV	1	19.44	0.85	15	PASS	19.27	1.81	15	PASS
CCB1	CCB	1	0.01	151.082	15	<PQL	0.01	363.462	15	<PQL
ICSA2	ICSA	1	0.01	48.012	15	<PQL	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	19.72	2.497	15	PASS	19.2	2.624	15	PASS
CCV2	CCV	1	19.18	0.232	15	PASS	20.05	4.527	15	PASS
CCB2	CCB	1	0.01	84.996	15	<PQL	<0.000	N/A	15	<PQL
CCV3	CCV	1	19.36	0.123	15	PASS	19.61	1.135	15	PASS
CCB3	CCB	1	0.01	73.703	15	<PQL	0.01	244.122	15	<PQL
CCV4	CCV	1	19.4	1.649	15	PASS	19.36	3.637	15	PASS
CCB4	CCB	1	<0.000	N/A	15	<PQL	0.03	116.713	15	<PQL
CCV5	CCV	1	19.33	0.964	15	PASS	19.36	8.309	15	PASS
CCB5	CCB	1	0	486.338	15	<PQL	<0.000	N/A	15	<PQL
CCV6	CCV	1	20.09	1.924	15	PASS	19.56	2.656	15	PASS
CCB6	CCB	1	0.01	68.441	15	<PQL	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	0.02	91.219	15	<PQL	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	19.96	0.617	15	PASS	20.4	2.403	15	PASS
CCV7	CCV	1	18.96	0.631	15	PASS	19.54	0.574	15	PASS
CCB7	CCB	1	0.01	7.876	15	PASS	0.02	152.548	15	<PQL
N069629-001B	SAMP	1	17.57	0.452	15	PASS	0.19	51.612	15	NR!
N069631-008B	SAMP	10	22.37	1.489	15	PASS	0.13	62.953	15	NR!
N069631-009B	SAMP	1	159.81	1.372	15	PASS	0.65	13.453	15	PASS
N069631-010B	SAMP	1	884.47	0.695	15	PASS	0.88	7.72	15	PASS
N069631-010B	SAMP	10	90.99	1.443	15	PASS	0.08	30.851	15	<PQL
N069631-011B	SAMP	10	103.92	1.196	15	PASS	0.19	36.503	15	NR!
N069631-012B	SAMP	10	51.48	1.435	15	PASS	0.06	96.765	15	<PQL

PERCENT RSD SUMMARY: 241105B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N069631-013B	SAMP	10	52.26	2.486	15	PASS	1.11	7.577	15	PASS
N069631-014B	SAMP	10	62.11	1.236	15	PASS	0.35	27.659	15	NR!
N069638-001B	SAMP	10	29.61	2.213	15	PASS	0.95	8.002	15	PASS
CCV8	CCV	1	19.18	0.947	15	PASS	19.6	2.322	15	PASS
CCB8	CCB	1	0	1876.496	15	<PQL	<0.000	N/A	15	<PQL
N069638-007B	SAMP	1	91.37	0.836	15	PASS	1.92	4.893	15	PASS
N069629-001B	SAMP	1	18.22	2.746	15	PASS	0.12	59.122	15	NR!
N069631-009B	SAMP	1	161.79	1.707	15	PASS	0.67	12.252	15	PASS
N069631-010B	SAMP	1	883.02	0.817	15	PASS	0.8	20.982	15	NR!
N069629-001B	SAMP	1	17.52	1.601	15	PASS	0.1	33.245	15	<PQL
N069631-009B	SAMP	1	160.21	1.982	15	PASS	0.57	14.88	15	PASS
N069631-010B	SAMP	1	877.71	1.602	15	PASS	0.88	9.37	15	PASS
N069638-007B	SAMP	1	90.98	1.687	15	PASS	2.22	7.374	15	PASS
N069638-008B	SAMP	10	28.17	1.306	15	PASS	1.39	3.231	15	PASS
N069638-009B	SAMP	100	23.29	1.961	15	PASS	0.02	223.951	15	<PQL
CCV9	CCV	1	19.54	2.028	15	PASS	18.83	4.194	15	PASS
CCB9	CCB	1	0.01	162.894	15	<PQL	<0.000	N/A	15	<PQL
ICSA4	ICSA	1	0.01	32.619	15	<PQL	0.04	28.68	15	<PQL
ICSAB4	ICSAB	1	19.95	3.245	15	PASS	18.84	3.808	15	PASS

ANALYSIS RUN LOG



ASSET LABORATORIES
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INJECTION LOG: 241103B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1103001.d	RINSE	ICAL	1	11/03/24 10:21 PM
A1103002.d	RINSE	ICAL	1	11/03/24 10:27 PM
A1103003.d	RINSE	ICAL	1	11/03/24 10:33 PM
A1103004.d	Cal Blk	IBLK	1	11/03/24 10:39 PM
A1103005.d	Std1-0.1/1 ppb	ICAL	1	11/03/24 10:45 PM
A1103006.d	Std2-0.5/5 ppb	ICAL	1	11/03/24 10:51 PM
A1103007.d	Std3-5/50 ppb	ICAL	1	11/03/24 10:57 PM
A1103008.d	Std4-10/100 ppb	ICAL	1	11/03/24 11:03 PM
A1103009.d	Std5-4.0/20/200 ppb	ICAL	1	11/03/24 11:09 PM
A1103010.d	Std6-8.0/40/400 ppb	ICAL	1	11/03/24 11:15 PM
A1103011.d	Std7-100/1000 ppb	ICAL	1	11/03/24 11:21 PM
A1103012.d	Std8-200/2000 ppb	ICAL	1	11/03/24 11:27 PM
A1103013.d	ICV	ICV	1	11/03/24 11:53 PM
A1103014.d	ICB	ICB	1	11/03/24 11:59 PM
A1103015.d	LLCCV1	CCV1	1	11/04/24 12:05 AM
A1103016.d	LLCCV2	CCV1	1	11/04/24 12:11 AM
A1103017.d	MLCCV1	CCV	1	11/04/24 12:17 AM
A1103018.d	ICSA1	ICSA	1	11/04/24 12:22 AM
A1103019.d	ICSA1	ICSA	1	11/04/24 12:28 AM
A1103020.d	ICSAB1	ICSAB	1	11/04/24 12:34 AM
A1103021.d	N069306-004A	SAMP	1	11/04/24 12:40 AM
A1103022.d	N069306-004D	SAMP	1	11/04/24 12:46 AM
A1103023.d	N069306-005A	SAMP	1	11/04/24 12:52 AM
A1103024.d	N069306-005D	SAMP	1	11/04/24 12:57 AM
A1103025.d	N069306-008A	SAMP	1	11/04/24 1:03 AM
A1103026.d	N069306-008D	SAMP	1	11/04/24 1:09 AM
A1103027.d	RINSE	ICAL	1	11/04/24 1:15 AM
A1103028.d	CCV1	CCV	1	11/04/24 1:21 AM
A1103029.d	CCB1	CCB	1	11/04/24 1:27 AM
A1103030.d	ICSA2	ICSA	1	11/04/24 1:33 AM
A1103031.d	ICSAB2	ICSAB	1	11/04/24 1:39 AM
A1103032.d	MB-113718	MBLK	1	11/04/24 1:44 AM
A1103033.d	LCS-113718	LCS	1	11/04/24 1:50 AM
A1103034.d	N069543-001B	SAMP	1	11/04/24 1:56 AM
A1103035.d	N069543-002B	SAMP	1	11/04/24 2:02 AM
A1103036.d	N069543-002B	SAMP	5	11/04/24 2:08 AM
A1103037.d	N069543-002B-PS	PS	1	11/04/24 2:14 AM
A1103038.d	N069543-002B-MS	MS	1	11/04/24 2:20 AM
A1103039.d	N069543-002B-MSD	MSD	1	11/04/24 2:26 AM
A1103040.d	N069543-003B	SAMP	1	11/04/24 2:32 AM
A1103041.d	RINSE	ICAL	1	11/04/24 2:38 AM
A1103042.d	CCV2	CCV	1	11/04/24 2:44 AM

INJECTION LOG: 241103B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1103043.d	CCB2	CCB	1	11/04/24 2:50 AM
A1103044.d	N069543-004B	SAMP	1	11/04/24 2:55 AM
A1103045.d	N069543-005B	SAMP	1	11/04/24 3:01 AM
A1103046.d	N069543-006B	SAMP	1	11/04/24 3:07 AM
A1103047.d	N069543-007B	SAMP	1	11/04/24 3:13 AM
A1103048.d	N069543-008B	SAMP	1	11/04/24 3:19 AM
A1103049.d	N069543-009B	SAMP	1	11/04/24 3:25 AM
A1103050.d	N069543-010B	SAMP	1	11/04/24 3:31 AM
A1103051.d	N069543-011B	SAMP	1	11/04/24 3:37 AM
A1103052.d	N069543-012B	SAMP	1	11/04/24 3:43 AM
A1103053.d	RINSE	ICAL	1	11/04/24 3:49 AM
A1103054.d	CCV3	CCV	1	11/04/24 3:55 AM
A1103055.d	CCB3	CCB	1	11/04/24 4:01 AM
A1103056.d	N069543-013B	SAMP	1	11/04/24 4:07 AM
A1103057.d	N069543-014B	SAMP	1	11/04/24 4:13 AM
A1103058.d	N069543-015B	SAMP	1	11/04/24 4:19 AM
A1103059.d	N069543-016B	SAMP	1	11/04/24 4:25 AM
A1103060.d	N069543-017B	SAMP	1	11/04/24 4:30 AM
A1103061.d	N069543-019B	SAMP	1	11/04/24 4:36 AM
A1103062.d	N069543-020B	SAMP	1	11/04/24 4:42 AM
A1103063.d	N069543-005B	SAMP	1	11/04/24 4:48 AM
A1103064.d	N069543-006B	SAMP	1	11/04/24 4:54 AM
A1103065.d	N069543-005B	SAMP	1	11/04/24 5:00 AM
A1103066.d	CCV4	CCV	1	11/04/24 5:09 AM
A1103067.d	CCB4	CCB	1	11/04/24 5:15 AM
A1103068.d	ICSA3	ICSA	1	11/04/24 5:21 AM
A1103069.d	ICSAB3	ICSAB	1	11/04/24 5:27 AM
A1103070.d	MB-113746	MBLK	1	11/04/24 5:32 AM
A1103071.d	LCS-113746	LCS	1	11/04/24 5:38 AM
A1103072.d	N069542-001B	SAMP	10	11/04/24 5:44 AM
A1103073.d	N069542-002B	SAMP	10	11/04/24 5:50 AM
A1103074.d	N069542-003B	SAMP	10	11/04/24 5:56 AM
A1103075.d	N069582-002B	SAMP	1	11/04/24 6:02 AM
A1103076.d	N069582-003B	SAMP	1	11/04/24 6:08 AM
A1103077.d	N069582-004B	SAMP	1	11/04/24 6:14 AM
A1103078.d	N069582-005B	SAMP	1	11/04/24 6:19 AM
A1103079.d	RINSE	ICAL	1	11/04/24 6:25 AM
A1103080.d	CCV4	CCV	1	11/04/24 6:31 AM
A1103081.d	CCB4	CCB	1	11/04/24 6:37 AM
A1103082.d	N069582-006B	SAMP	1	11/04/24 6:43 AM
A1103083.d	N069583-001B	SAMP	1	11/04/24 6:49 AM
A1103084.d	N069583-001B	SAMP	10	11/04/24 6:55 AM

INJECTION LOG: 241103B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1103085.d	N069583-002B	SAMP	1	11/04/24 7:01 AM
A1103086.d	N069583-002B	SAMP	10	11/04/24 7:07 AM
A1103087.d	N069583-003B	SAMP	1	11/04/24 7:12 AM
A1103088.d	N069583-003B	SAMP	5	11/04/24 7:18 AM
A1103089.d	N069583-003B	SAMP	10	11/04/24 7:24 AM
A1103090.d	N069583-003B	SAMP	50	11/04/24 7:30 AM
A1103091.d	CCV5	CCV	1	11/04/24 7:36 AM
A1103092.d	CCB5	CCB	1	11/04/24 7:42 AM
A1103093.d	N069583-003B-PS	PS	1	11/04/24 7:48 AM
A1103094.d	N069583-003B-PS	PS	10	11/04/24 7:54 AM
A1103095.d	N069583-003BMS	MS	1	11/04/24 8:00 AM
A1103096.d	N069583-003BMS	MS	10	11/04/24 8:05 AM
A1103097.d	N069583-003BMSD	MSD	1	11/04/24 8:11 AM
A1103098.d	N069583-003BMSD	MSD	10	11/04/24 8:17 AM
A1103099.d	N069583-004B	SAMP	1	11/04/24 8:23 AM
A1103100.d	N069583-004B	SAMP	10	11/04/24 8:29 AM
A1103101.d	N069583-006B	SAMP	1	11/04/24 8:35 AM
A1103102.d	RINSE	ICAL	1	11/04/24 8:41 AM
A1103103.d	CCV6	CCV	1	11/04/24 8:47 AM
A1103104.d	CCB6	CCB	1	11/04/24 8:53 AM
A1103105.d	N069583-008B	SAMP	1	11/04/24 8:58 AM
A1103106.d	N069583-008B	SAMP	10	11/04/24 9:04 AM
A1103107.d	N069583-009B	SAMP	1	11/04/24 9:10 AM
A1103108.d	N069583-009B	SAMP	10	11/04/24 9:16 AM
A1103109.d	N069583-010B	SAMP	1	11/04/24 9:22 AM
A1103110.d	N069583-010B	SAMP	100	11/04/24 9:28 AM
A1103111.d	N069585-001B	SAMP	1	11/04/24 9:34 AM
A1103112.d	RINSE	ICAL	1	11/04/24 9:40 AM
A1103113.d	CCV7	CCV	1	11/04/24 9:46 AM
A1103114.d	CCB7	CCB	1	11/04/24 9:52 AM
A1103115.d	ICSA4	ICSA	1	11/04/24 9:57 AM
A1103116.d	ICSAB4	ICSAB	1	11/04/24 10:03 AM
A1103117.d	MB-113831	MBLK	1	11/04/24 10:09 AM
A1103118.d	LCS-113831	LCS	1	11/04/24 10:15 AM
A1103119.d	N069629-001B	SAMP	1	11/04/24 10:21 AM
A1103120.d	N069629-001B	SAMP	5	11/04/24 10:27 AM
A1103121.d	N069629-001B-PS	PS	1	11/04/24 10:33 AM
A1103122.d	N069629-001B-MS	MS	1	11/04/24 10:39 AM
A1103123.d	N069629-001B-MSD	MSD	1	11/04/24 10:45 AM
A1103124.d	N069629-002B	SAMP	1	11/04/24 10:50 AM
A1103125.d	N069631-008B	SAMP	1	11/04/24 10:56 AM
A1103126.d	RINSE	ICAL	1	11/04/24 11:02 AM

INJECTION LOG: 241103B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1103127.d	CCV8	CCV	1	11/04/24 11:08 AM
A1103128.d	CCB8	CCB	1	11/04/24 11:14 AM
A1103129.d	N069631-009B	SAMP	1	11/04/24 11:20 AM
A1103130.d	N069631-010B	SAMP	1	11/04/24 11:26 AM
A1103131.d	N069631-011B	SAMP	1	11/04/24 11:32 AM
A1103132.d	N069631-012B	SAMP	1	11/04/24 11:38 AM
A1103133.d	N069631-013B	SAMP	1	11/04/24 11:44 AM
A1103134.d	N069631-014B	SAMP	1	11/04/24 11:50 AM
A1103135.d	N069638-001B	SAMP	1	11/04/24 11:56 AM
A1103136.d	N069638-002B	SAMP	1	11/04/24 12:02 PM
A1103137.d	N069638-003B	SAMP	1	11/04/24 12:08 PM
A1103138.d	RINSE	ICAL	1	11/04/24 12:14 PM
A1103139.d	CCV9	CCV	1	11/04/24 12:20 PM
A1103140.d	CCB9	CCB	1	11/04/24 12:25 PM
A1103141.d	N069638-007B	SAMP	1	11/04/24 12:31 PM
A1103142.d	N069638-008B	SAMP	1	11/04/24 12:37 PM
A1103143.d	N069638-009B	SAMP	1	11/04/24 12:43 PM
A1103144.d	RINSE	ICAL	1	11/04/24 12:49 PM
A1103145.d	CCV10	CCV	1	11/04/24 12:55 PM
A1103146.d	CCB10	CCB	1	11/04/24 1:01 PM
A1103147.d	MB-113832	MBLK	1	11/04/24 1:07 PM
A1103148.d	LCS-113832	LCS	1	11/04/24 1:12 PM
A1103149.d	N069542-001C	SAMP	1	11/04/24 1:18 PM
A1103150.d	N069542-001C	SAMP	5	11/04/24 1:24 PM
A1103151.d	N069542-001C-PS	PS	1	11/04/24 1:30 PM
A1103152.d	N069542-001C-MS	MS	1	11/04/24 1:36 PM
A1103153.d	N069542-001C-MSD	MSD	1	11/04/24 1:42 PM
A1103154.d	N069542-002C	SAMP	1	11/04/24 1:48 PM
A1103155.d	N069542-003C	SAMP	1	11/04/24 1:54 PM
A1103156.d	RINSE	ICAL	1	11/04/24 2:00 PM
A1103157.d	CCV11	CCV	1	11/04/24 2:06 PM
A1103158.d	CCB11	CCB	1	11/04/24 2:12 PM
A1103159.d	ICSA5	ICSA	1	11/04/24 2:17 PM
A1103160.d	ICSAB5	ICSAB	1	11/04/24 2:23 PM
A1103161.d	RINSE	ICAL	1	11/04/24 2:29 PM
A1103162.d	RINSE	ICAL	1	11/04/24 2:35 PM

INJECTION LOG: 241105B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1105001.d	RINSE	ICAL	1	11/05/24 4:12 PM
B1105002.d	RINSE	ICAL	1	11/05/24 4:18 PM
B1105003.d	Cal Blk	IBLK	1	11/05/24 4:24 PM
B1105004.d	Std1-0.1/1 ppb	ICAL	1	11/05/24 4:30 PM
B1105005.d	Std2-0.5/5 ppb	ICAL	1	11/05/24 4:36 PM
B1105006.d	Std3-5/50 ppb	ICAL	1	11/05/24 4:42 PM
B1105007.d	Std4-10/100 ppb	ICAL	1	11/05/24 4:48 PM
B1105008.d	Std5-4.0/20/200 ppb	ICAL	1	11/05/24 4:54 PM
B1105009.d	Std6-8.0/40/400 ppb	ICAL	1	11/05/24 5:00 PM
B1105010.d	Std7-100/1000 ppb	ICAL	1	11/05/24 5:06 PM
B1105011.d	Std8-200/2000 ppb	ICAL	1	11/05/24 5:12 PM
B1105012.d	ICV	ICV	1	11/05/24 5:20 PM
B1105013.d	ICB	ICB	1	11/05/24 5:26 PM
B1105014.d	LLCCV1	CCV1	1	11/05/24 5:32 PM
B1105015.d	LLCCV2	CCV1	1	11/05/24 5:38 PM
B1105016.d	MLCCV1	CCV	1	11/05/24 5:44 PM
B1105017.d	ICSA1	ICSA	1	11/05/24 5:50 PM
B1105018.d	ICSAB1	ICSAB	1	11/05/24 5:56 PM
B1105019.d	MB-113875	MBLK	1	11/05/24 6:01 PM
B1105020.d	LCS-113875	LCS	1	11/05/24 6:07 PM
B1105021.d	N069694-003B	SAMP	1	11/05/24 6:13 PM
B1105022.d	N069694-003B	SAMP	5	11/05/24 6:19 PM
B1105023.d	N069694-003B-PS	PS	1	11/05/24 6:25 PM
B1105024.d	N069694-003B-MS	MS	1	11/05/24 6:31 PM
B1105025.d	N069694-003B-MSD	MSD	1	11/05/24 6:37 PM
B1105026.d	RINSE	ICAL	1	11/05/24 6:43 PM
B1105027.d	CCV1	CCV	1	11/05/24 6:48 PM
B1105028.d	CCB1	CCB	1	11/05/24 6:54 PM
B1105029.d	ICSA2	ICSA	1	11/05/24 7:00 PM
B1105030.d	ICSAB2	ICSAB	1	11/05/24 7:06 PM
B1105031.d	MB-113874	MBLK	1	11/05/24 7:12 PM
B1105032.d	LCS-113874	LCS	1	11/05/24 7:18 PM
B1105033.d	N069234-016D	SAMP	1	11/05/24 7:23 PM
B1105034.d	N069234-016D	SAMP	5	11/05/24 7:29 PM
B1105035.d	N069234-016D-PS	PS	1	11/05/24 7:35 PM
B1105036.d	N069234-016D-MS	MS	1	11/05/24 7:41 PM
B1105037.d	N069234-016D-MSD	MSD	1	11/05/24 7:47 PM
B1105038.d	RINSE	ICAL	1	11/05/24 7:53 PM
B1105039.d	CCV2	CCV	1	11/05/24 7:59 PM
B1105040.d	CCB2	CCB	1	11/05/24 8:04 PM
B1105041.d	MB-113864	MBLK	1	11/05/24 8:10 PM
B1105042.d	LCS-113864	LCS	1	11/05/24 8:16 PM

INJECTION LOG: 241105B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1105043.d	N069694-001B	SAMP	1	11/05/24 8:22 PM
B1105044.d	N069694-002B	SAMP	1	11/05/24 8:28 PM
B1105045.d	N069694-003B	SAMP	1	11/05/24 8:34 PM
B1105046.d	N069694-004B	SAMP	1	11/05/24 8:40 PM
B1105047.d	N069695-001B	SAMP	1	11/05/24 8:45 PM
B1105048.d	N069695-001B	SAMP	5	11/05/24 8:51 PM
B1105049.d	N069695-001B-PS	PS	1	11/05/24 8:57 PM
B1105050.d	RINSE	ICAL	1	11/05/24 9:03 PM
B1105051.d	CCV3	CCV	1	11/05/24 9:09 PM
B1105052.d	CCB3	CCB	1	11/05/24 9:15 PM
B1105053.d	N069695-001BMS	MS	1	11/05/24 9:21 PM
B1105054.d	N069695-001BMSD	MSD	1	11/05/24 9:26 PM
B1105055.d	N069695-002B	SAMP	1	11/05/24 9:32 PM
B1105056.d	N069695-003B	SAMP	1	11/05/24 9:38 PM
B1105057.d	N069695-003B	SAMP	5	11/05/24 9:44 PM
B1105058.d	N069695-003B-PS	PS	1	11/05/24 9:50 PM
B1105059.d	N069695-003BMS	MS	1	11/05/24 9:56 PM
B1105060.d	N069695-003BMSD	MSD	1	11/05/24 10:02 PM
B1105061.d	N069697-001B	SAMP	1	11/05/24 10:08 PM
B1105062.d	RINSE	ICAL	1	11/05/24 10:13 PM
B1105063.d	CCV4	CCV	1	11/05/24 10:19 PM
B1105064.d	CCB4	CCB	1	11/05/24 10:25 PM
B1105065.d	N069697-002B	SAMP	1	11/05/24 10:31 PM
B1105066.d	N069697-003B	SAMP	1	11/05/24 10:37 PM
B1105067.d	N069697-004B	SAMP	1	11/05/24 10:43 PM
B1105068.d	N069697-005B	SAMP	1	11/05/24 10:49 PM
B1105069.d	N069697-006B	SAMP	1	11/05/24 10:54 PM
B1105070.d	N069697-007B	SAMP	1	11/05/24 11:00 PM
B1105071.d	N069697-008B	SAMP	1	11/05/24 11:06 PM
B1105072.d	N069697-009B	SAMP	1	11/05/24 11:12 PM
B1105073.d	N069697-010D	SAMP	1	11/05/24 11:18 PM
B1105074.d	RINSE	ICAL	1	11/05/24 11:24 PM
B1105075.d	CCV5	CCV	1	11/05/24 11:30 PM
B1105076.d	CCB5	CCB	1	11/05/24 11:36 PM
B1105077.d	N069697-011D	SAMP	1	11/05/24 11:41 PM
B1105078.d	N069697-012D	SAMP	1	11/05/24 11:48 PM
B1105079.d	N069697-013D	SAMP	1	11/05/24 11:54 PM
B1105080.d	RINSE	ICAL	1	11/06/24 12:00 AM
B1105081.d	CCV6	CCV	1	11/06/24 12:06 AM
B1105082.d	CCB6	CCB	1	11/06/24 12:11 AM
B1105083.d	ICSA3	ICSA	1	11/06/24 12:17 AM
B1105084.d	ICSAB3	ICSAB	1	11/06/24 12:23 AM

INJECTION LOG: 241105B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1105085.d	N069582-002B	SAMP	1	11/06/24 12:29 AM
B1105086.d	N069582-002B	SAMP	1	11/06/24 12:35 AM
B1105087.d	N069582-002B	SAMP	1	11/06/24 12:41 AM
B1105088.d	N069582-004B	SAMP	10	11/06/24 12:47 AM
B1105089.d	N069582-005B	SAMP	10	11/06/24 12:53 AM
B1105090.d	N069582-006B	SAMP	10	11/06/24 12:59 AM
B1105091.d	N069583-003B	SAMP	1	11/06/24 1:05 AM
B1105092.d	N069583-003B	SAMP	1	11/06/24 1:10 AM
B1105093.d	N069583-003B	SAMP	1	11/06/24 1:16 AM
B1105094.d	RINSE	ICAL	1	11/06/24 1:22 AM
B1105095.d	CCV7	CCV	1	11/06/24 1:28 AM
B1105096.d	CCB7	CCB	1	11/06/24 1:34 AM
B1105097.d	N069629-001B	SAMP	1	11/06/24 1:40 AM
B1105098.d	N069631-008B	SAMP	10	11/06/24 1:46 AM
B1105099.d	N069631-009B	SAMP	1	11/06/24 1:52 AM
B1105100.d	N069631-010B	SAMP	1	11/06/24 1:58 AM
B1105101.d	N069631-010B	SAMP	10	11/06/24 2:04 AM
B1105102.d	N069631-011B	SAMP	10	11/06/24 2:10 AM
B1105103.d	N069631-012B	SAMP	10	11/06/24 2:16 AM
B1105104.d	N069631-013B	SAMP	10	11/06/24 2:22 AM
B1105105.d	N069631-014B	SAMP	10	11/06/24 2:28 AM
B1105106.d	N069638-001B	SAMP	10	11/06/24 2:33 AM
B1105107.d	CCV8	CCV	1	11/06/24 2:39 AM
B1105108.d	CCB8	CCB	1	11/06/24 2:45 AM
B1105109.d	N069638-007B	SAMP	1	11/06/24 2:51 AM
B1105110.d	N069629-001B	SAMP	1	11/06/24 2:57 AM
B1105111.d	N069631-009B	SAMP	1	11/06/24 3:03 AM
B1105112.d	N069631-010B	SAMP	1	11/06/24 3:09 AM
B1105113.d	N069629-001B	SAMP	1	11/06/24 3:15 AM
B1105114.d	N069631-009B	SAMP	1	11/06/24 3:21 AM
B1105115.d	N069631-010B	SAMP	1	11/06/24 3:27 AM
B1105116.d	N069638-007B	SAMP	1	11/06/24 3:33 AM
B1105117.d	N069638-008B	SAMP	10	11/06/24 3:39 AM
B1105118.d	N069638-009B	SAMP	100	11/06/24 3:45 AM
B1105119.d	CCV9	CCV	1	11/06/24 3:50 AM
B1105120.d	CCB9	CCB	1	11/06/24 3:56 AM
B1105121.d	ICSA4	ICSA	1	11/06/24 4:02 AM
B1105122.d	ICSAB4	ICSAB	1	11/06/24 4:08 AM
B1105123.d	RINSE	ICAL	1	11/06/24 4:14 AM
B1105124.d	RINSE	ICAL	1	11/06/24 4:20 AM
B1105125.d	RINSE	ICAL	1	11/06/24 4:26 AM

SAMPLE PREPARATION LOG



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 11/3/2024 7:30:00 PM
 Prep End Date: 11/3/2024 11:30:00 PM

Reviewed/ Date: JRB 11/15/2024

Page: 1 of 2

Prep Batch 113831 Prep Code:3010_W_MSDISS_TPK

Initials/ Date: for _____
 Technician: Diane Jetajobe

Prep Factor Units
 mL / mL

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-113831	Aqueous		25	<input type="checkbox"/>	25	1.000		
MB-113831	Aqueous		25	<input type="checkbox"/>	25	1.000		
N069629-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069629-001B-MS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069629-001B-MSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069629-002B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069631-008B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069631-009B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069631-010B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069631-011B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069631-012B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069631-013B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069631-014B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069638-001B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17140	NITRIC ACID
17147	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-240815C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-240815D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-240815E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-240815F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 11/3/2024 7:30:00 PM
 Prep End Date: 11/3/2024 11:30:00 PM

Reviewed/ Date: *JRB* 11/15/2024

Page 2 of 2

Prep Batch 113831 Prep Code:3010_W_MSDISS_TPK

Initials/ Date: for _____
 Technician: Diane Jetajobe

Prep Factor Units
 mL / mL

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N069638-002B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069638-003B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069638-007B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069638-008B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069638-009B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17140	NITRIC ACID
17147	HYDROCHLORIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-240815C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-240815D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-240815E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-240815F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

INSTRUMENT TUNING CHECK



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\241101C.b
Acq. Date-Time 2024-11-03 22:07:00
Report Comment —
Instrument Name G8421A SG19193757

[No Gas]

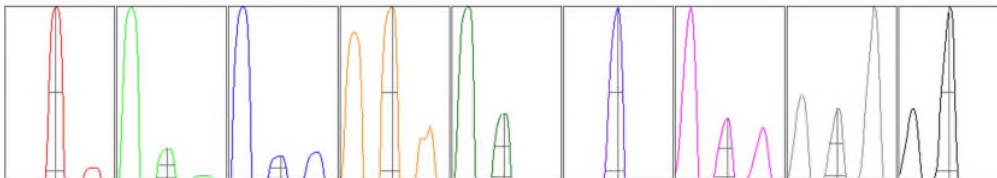
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	5417	54171.13	500.00		3.895	5.000
24	10.00	18113	181134.68	500.00		3.162	5.000
25	10.00	2399	23988.24	500.00		3.991	5.000
26	10.00	2740	27402.98	500.00		3.005	5.000
59	10.00	27813	278128.90	500.00		2.762	5.000
115	10.00	37760	377603.09	500.00		2.136	5.000
206	10.00	7957	79573.41	500.00		2.578	5.000
207	10.00	6230	62297.19	500.00		2.171	5.000
208	10.00	15627	156271.60	500.00		1.981	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.488 %
Doubly Charged 70 / 140 0.858 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	5382.53	8.90	8.90 - 9.10	
24	18039.81	23.90	23.90 - 24.10	
25	2372.48	24.95	24.90 - 25.10	
26	2782.62	25.95	25.90 - 26.10	
59	27056.27	58.95	58.90 - 59.10	
115	37443.11	115.00	114.90 - 115.10	
206	8208.37	205.95	205.90 - 206.10	
207	6843.19	206.90	206.90 - 207.10	
208	16836.48	207.90	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.38	0.490	0.900	
24	0.45	0.541	0.900	
25	0.45	0.548	0.900	
26	0.44	0.542	0.900	
59	0.42	0.538	0.900	
115	0.39	0.531	0.900	
206	0.37	0.582	0.900	
207	0.36	0.606	0.900	
208	0.38	0.594	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.00000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.1 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2640 V Pulse HV 1872 V

[H2]

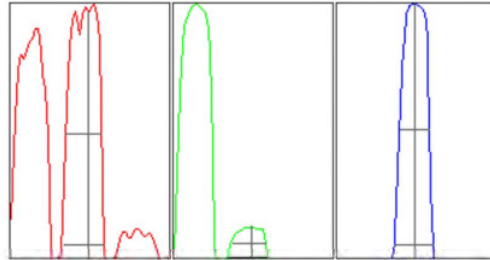
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		161	1614.68			6.992	
59		2324	23240.02			3.102	
115		32900	328995.40			2.512	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.408 %
 Doubly Charged 70 / 140 0.277 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	161.26	26.00	25.90 - 26.10	
59	2408.83	59.00	58.90 - 59.10	
115	34382.52	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.68	0.792	0.900	
59	0.65	0.743	0.900	
115	0.57	0.732	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	--	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	—	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	132	Axis Gain	1.0001	QP Bias	-15.0 V
Mass Offset	126	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.1 mm
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EM

Discriminator	4.5 mV	Analog HV	2640 V	Pulse HV	1872 V
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[He]

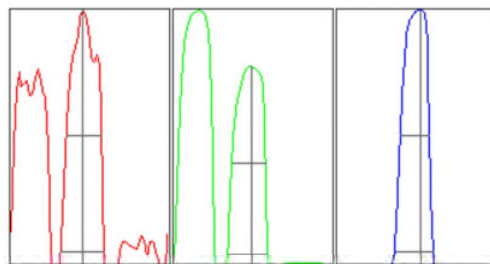
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		70	703.81			10.429	
59		6107	61071.23			1.630	
115		5125	51248.17			1.987	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.177 %
Doubly Charged	70 / 140 1.101 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	73.25	25.90	25.90 - 26.10	
59	6259.21	59.00	58.90 - 59.10	
115	5150.25	115.10	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.67	0.821	0.900	
59	0.64	0.742	0.900	
115	0.56	0.729	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	132	Axis Gain	1.0001	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.1 mm
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EM

Discriminator	4.5 mV	Analog HV	2640 V	Pulse HV	1872 V
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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\241103A.b
Acq. Date-Time 2024-11-05 11:29:09
Report Comment —
Instrument Name G8421A SG19193757

[No Gas]

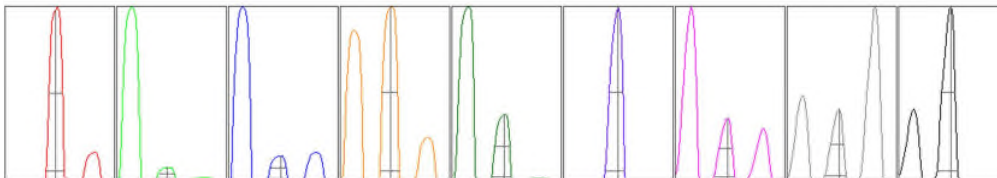
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	4888	48879.00	500.00		3.959	5.000
24	10.00	19646	196455.35	500.00		3.227	5.000
25	10.00	2583	25831.32	500.00		3.555	5.000
26	10.00	2951	29510.30	500.00		3.669	5.000
59	10.00	27289	272887.21	500.00		3.534	5.000
115	10.00	39232	392321.11	500.00		2.442	5.000
206	10.00	8820	88200.38	500.00		2.327	5.000
207	10.00	6890	68901.30	500.00		2.386	5.000
208	10.00	17379	173789.93	500.00		1.774	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.544 %
Doubly Charged 70 / 140 0.797 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	4794.02	8.90	8.90 - 9.10	
24	19543.03	23.90	23.90 - 24.10	
25	2564.02	24.95	24.90 - 25.10	
26	2983.95	25.90	25.90 - 26.10	
59	26620.55	58.95	58.90 - 59.10	
115	38574.62	115.00	114.90 - 115.10	
206	8742.39	205.95	205.90 - 206.10	
207	7306.93	206.95	206.90 - 207.10	
208	18171.35	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.38	0.489	0.900	
24	0.44	0.541	0.900	
25	0.44	0.543	0.900	
26	0.43	0.540	0.900	
59	0.41	0.536	0.900	
115	0.38	0.527	0.900	
206	0.37	0.580	0.900	
207	0.36	0.598	0.900	
208	0.37	0.582	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.00000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	12.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.2 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2642 V Pulse HV 1876 V

[H2]

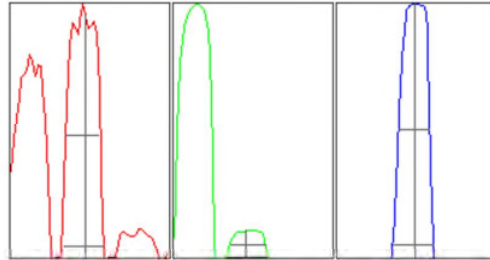
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		159	1586.87			8.791	
59		1988	19877.87			3.412	
115		32511	325106.03			2.213	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.449 %
 Doubly Charged 70 / 140 0.256 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	167.51	25.95	25.90 - 26.10	
59	2044.08	58.90	58.90 - 59.10	
115	33309.86	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.65	0.788	0.900	
59	0.66	0.782	0.900	
115	0.59	0.767	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	--	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	-0.8 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	—	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0004	QP Bias	-15.0 V
Mass Offset	126	Axis Offset	-0.04		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2642 V	Pulse HV	1876 V
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[He]

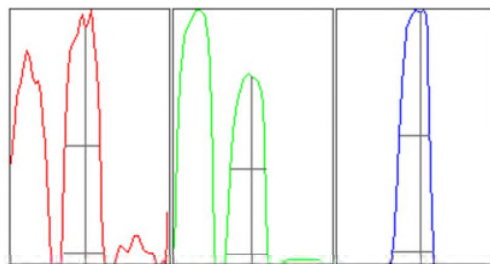
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		74	743.02			13.233	
59		5859	58589.96			2.236	
115		4989	49891.29			2.303	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.178 %
 Doubly Charged 70 / 140 1.034 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	73.50	25.95	25.90 - 26.10	
59	5880.57	59.00	58.90 - 59.10	
115	5058.67	115.10	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.65	0.787	0.900	
59	0.65	0.785	0.900	
115	0.58	0.764	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.2 V	Deflect	0.4 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	131	Axis Gain	1.0004	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	-0.04		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2642 V	Pulse HV	1876 V
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INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

INITIAL CALIBRATION SUMMARY: 241103B

Instrument ID: NV00922-ICP8

Analyte	Data File	A1103004.d	A1103005.d	A1103006.d	A1103007.d	A1103008.d	A1103009.d	A1103010.d	A1103011.d	A1103012.d	R
	Acq. Date-Time	11/03/2024 10:39 PM	11/03/2024 10:45 PM	11/03/2024 10:51 PM	11/03/2024 10:57 PM	11/03/2024 11:03 PM	11/03/2024 11:09 PM	11/03/2024 11:15 PM	11/03/2024 11:21 PM	11/03/2024 11:27 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L		
45 Sc (ISTD) [2]	CPS	26765.9		26996.3	27130.9	26916.1	27340.1	26553.3	25875.6	25225.7	
55 Mn [2]	CPS	8.9		493.3	4865.2	9641.7	20284.7	38317.5	95170.5	190903.8	0.9999
52 Cr [2]	CPS	157.8		1127.8	9755.1	19275.7	38840.8	76616.9	188873.7	380687.2	0.9999
72 Ge (ISTD) [1]	CPS	53422.4		53060.1	52838.3	53216.2	53129.2	52707.8	51282.2	49004.1	
78 Se [1]	CPS	0		71.1	674.5	1323.4	2610.2	5387.6	13143.1	26450.4	0.9997
72 Ge (ISTD) [2]	CPS	16330.4	16444.9	16499.4	16386	16102.4	16486.1	15896.7	15498.5	15186	
75 As [2]	CPS	1.1	30	123.3	1025.6	2151.3	4301.7	8412.2	21140.4	42362.5	0.9999
103 Rh (ISTD) [2]	CPS	450632.3		449318.8	447984.4	448018.9	446463.1	440120.1	429038	412572.8	
95 Mo [2]	CPS	15.6		535.6	5203.1	10419	21078.3	42419.1	104525.1	211899.5	0.9997
159 Tb (ISTD) [3]	CPS	1440059.4		1454342.2	1448589.3	1449230.7	1450435.7	1439544.6	1380000.8	1358444.7	
137 Ba [3]	CPS	20		1336.7	13752.9	27250.8	54482	109852.1	271992.9	550430.7	0.9999

Standard Code
ICAL: 2MSST-240311B
ICAL: 2MSST-240311C
ICAL: 2MWST-240815K
ICV: 2MWST-240815G
LLICV: 2MWST-240815J
IS Mix: 2MWST-240815A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION SUMMARY: 241105B

Instrument ID: NV00922-ICP8

Analyte	Data File	B1105003.d	B1105004.d	B1105005.d	B1105006.d	B1105007.d	B1105008.d	B1105009.d	B1105010.d	B1105011.d	R
	Acq. Date-Time	11/05/2024 04:24 PM	11/05/2024 04:30 PM	11/05/2024 04:36 PM	11/05/2024 04:42 PM	11/05/2024 04:48 PM	11/05/2024 04:54 PM	11/05/2024 05:00 PM	11/05/2024 05:06 PM	11/05/2024 05:12 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
	Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	
45 Sc (ISTD) [2]	CPS	25659.7		25364.8	25241.3	25394.8	25467.2	25517.3	24560.3	23953.9	
55 Mn [2]	CPS	11.1		413.3	4409.5	8610	18509.2	35438.9	89752.5	179401.5	0.9999
72 Ge (ISTD) [2]	CPS	15888.9	15710.9	15716.5	15534.1	15756.5	15703.1	15547.4	15260.5	15210.4	
75 As [2]	CPS	4.4	17.8	102.2	1018.9	1984.6	4246.1	8139.8	20142.4	40958.9	0.9999

Standard Code
ICAL: 2MSST-240311B
ICAL: 2MSST-240311C
ICAL: 2MWST-240815K
ICV: 2MWST-240815G
LLICV: 2MWST-240815J
IS Mix: 2MWST-240815A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/3/2024	SeqNo: 6285974							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.646	0.10	10.00	0	96.5	90	110				
Barium	9.298	1.0	10.00	0	93.0	90	110				
Manganese	95.762	0.50	100.0	0	95.8	90	110				
Molybdenum	9.511	0.50	10.00	0	95.1	90	110				
Selenium	9.675	0.50	10.00	0	96.8	90	110				

Sample ID LLCCV2	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ZZZZZZ	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285977							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.118	0.10	0.1000	0	118	80	120				
Barium	0.982	1.0	1.000	0	98.2	80	120				
Manganese	0.521	0.50	0.5000	0	104	80	120				
Molybdenum	0.474	0.50	0.5000	0	94.8	80	120				
Selenium	0.532	0.50	0.5000	0	106	80	120				

Sample ID MLCCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285978							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.692	0.10	20.00	0	93.5	90	110				
Barium	18.689	1.0	20.00	0	93.4	90	110				
Manganese	20.181	0.50	20.00	0	101	90	110				
Molybdenum	18.482	0.50	20.00	0	92.4	90	110				
Selenium	18.785	0.50	20.00	0	93.9	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6285988						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	18.225	0.10	20.00	0	91.1	90	110				
Barium	18.859	1.0	20.00	0	94.3	90	110				
Manganese	19.677	0.50	20.00	0	98.4	90	110				
Molybdenum	18.394	0.50	20.00	0	92.0	90	110				
Selenium	18.785	0.50	20.00	0	93.9	90	110				

Sample ID CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286001						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	18.563	0.10	20.00	0	92.8	90	110				
Barium	20.368	1.0	20.00	0	102	90	110				
Manganese	19.361	0.50	20.00	0	96.8	90	110				
Molybdenum	19.358	0.50	20.00	0	96.8	90	110				
Selenium	19.054	0.50	20.00	0	95.3	90	110				

Sample ID CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286012						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	18.431	0.10	20.00	0	92.2	90	110				
Barium	20.230	1.0	20.00	0	101	90	110				
Manganese	19.116	0.50	20.00	0	95.6	90	110				
Molybdenum	19.177	0.50	20.00	0	95.9	90	110				
Selenium	18.005	0.50	20.00	0	90.0	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286024							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.233	0.10	20.00	0	96.2	90	110				
Barium	20.628	1.0	20.00	0	103	90	110				
Manganese	18.981	0.50	20.00	0	94.9	90	110				
Molybdenum	19.434	0.50	20.00	0	97.2	90	110				
Selenium	18.278	0.50	20.00	0	91.4	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286037							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.118	0.10	20.00	0	95.6	90	110				
Barium	20.193	1.0	20.00	0	101	90	110				
Manganese	19.540	0.50	20.00	0	97.7	90	110				
Molybdenum	19.403	0.50	20.00	0	97.0	90	110				
Selenium	18.290	0.50	20.00	0	91.4	90	110				

Sample ID CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286048							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.712	0.10	20.00	0	93.6	90	110				
Barium	19.928	1.0	20.00	0	99.6	90	110				
Manganese	19.301	0.50	20.00	0	96.5	90	110				
Molybdenum	19.474	0.50	20.00	0	97.4	90	110				
Selenium	19.351	0.50	20.00	0	96.8	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286059							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.263	0.10	20.00	0	96.3	90	110				
Barium	19.960	1.0	20.00	0	99.8	90	110				
Manganese	19.240	0.50	20.00	0	96.2	90	110				
Molybdenum	19.180	0.50	20.00	0	95.9	90	110				
Selenium	18.437	0.50	20.00	0	92.2	90	110				

Sample ID CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286068							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.836	0.10	20.00	0	94.2	90	110				
Barium	20.381	1.0	20.00	0	102	90	110				
Manganese	19.354	0.50	20.00	0	96.8	90	110				
Molybdenum	19.434	0.50	20.00	0	97.2	90	110				
Selenium	19.051	0.50	20.00	0	95.3	90	110				

Sample ID CCV8	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286081							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.621	0.10	20.00	0	98.1	90	110				
Barium	20.375	1.0	20.00	0	102	90	110				
Manganese	19.331	0.50	20.00	0	96.7	90	110				
Molybdenum	19.364	0.50	20.00	0	96.8	90	110				
Selenium	18.775	0.50	20.00	0	93.9	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV9	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286092							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.463	0.10	20.00	0	97.3	90	110				
Barium	21.099	1.0	20.00	0	105	90	110				
Manganese	18.952	0.50	20.00	0	94.8	90	110				
Molybdenum	19.617	0.50	20.00	0	98.1	90	110				
Selenium	18.590	0.50	20.00	0	93.0	90	110				

Sample ID CCV10	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286097							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.781	0.10	20.00	0	93.9	90	110				
Barium	20.477	1.0	20.00	0	102	90	110				
Manganese	19.204	0.50	20.00	0	96.0	90	110				
Molybdenum	19.533	0.50	20.00	0	97.7	90	110				
Selenium	19.420	0.50	20.00	0	97.1	90	110				

Sample ID CCV11	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCV	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286108							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.199	0.10	20.00	0	91.0	90	110				
Barium	20.476	1.0	20.00	0	102	90	110				
Manganese	18.873	0.50	20.00	0	94.4	90	110				
Molybdenum	19.438	0.50	20.00	0	97.2	90	110				
Selenium	19.082	0.50	20.00	0	95.4	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ICV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293418							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9.899	0.10	10.00	0	99.0	90	110				
Manganese	97.561	0.50	100.0	0	97.6	90	110				

Sample ID LLCCV2	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ZZZZZ	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293421							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.086	0.10	0.1000	0	86.5	80	120				
Manganese	0.533	0.50	0.5000	0	107	80	120				

Sample ID MLCCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293422							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.468	0.10	20.00	0	97.3	90	110				
Manganese	19.463	0.50	20.00	0	97.3	90	110				

Sample ID CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293432							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.267	0.10	20.00	0	96.3	90	110				
Manganese	19.436	0.50	20.00	0	97.2	90	110				

Sample ID CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293443							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	20.047	0.10	20.00	0	100	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293443							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	19.182	0.50	20.00	0	95.9	90	110				
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Sample ID CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293454							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.611	0.10	20.00	0	98.1	90	110				
Manganese	19.356	0.50	20.00	0	96.8	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293465							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.357	0.10	20.00	0	96.8	90	110				
Manganese	19.396	0.50	20.00	0	97.0	90	110				

Sample ID CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/5/2024	SeqNo: 6293476							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.359	0.10	20.00	0	96.8	90	110				
Manganese	19.330	0.50	20.00	0	96.6	90	110				

Sample ID CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293481							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.564	0.10	20.00	0	97.8	90	110				
Manganese	20.089	0.50	20.00	0	100	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293494							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.544	0.10	20.00	0	97.7	90	110				
Manganese	18.960	0.50	20.00	0	94.8	90	110				

Sample ID CCV8	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293506							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.604	0.10	20.00	0	98.0	90	110				
Manganese	19.183	0.50	20.00	0	95.9	90	110				

Sample ID CCV9	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCV	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293518							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.830	0.10	20.00	0	94.1	90	110				
Manganese	19.544	0.50	20.00	0	97.7	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICV	SampType: ICV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ICV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/3/2024	SeqNo: 6286829	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	9.773	1.0	10.00	0	97.7 90 110

Sample ID LLCCV2	SampType: CCV1	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ZZZZZ	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286832	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	0.978	1.0	1.000	0	97.8 80 120

Sample ID MLCCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286833	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	19.221	1.0	20.00	0	96.1 90 110

Sample ID CCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286843	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	19.377	1.0	20.00	0	96.9 90 110

Sample ID CCV2	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286856	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chromium	18.614	1.0	20.00	0	93.1 90 110

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCV3	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286867							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.501	1.0	20.00	0	92.5	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286879							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.540	1.0	20.00	0	92.7	90	110				

Sample ID CCV4	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286892							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.121	1.0	20.00	0	95.6	90	110				

Sample ID CCV5	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286903							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.914	1.0	20.00	0	94.6	90	110				

Sample ID CCV6	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286914							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.013	1.0	20.00	0	95.1	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCV7	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286923						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.225	1.0	20.00	0	96.1	90	110				

Sample ID CCV8	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286936						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.138	1.0	20.00	0	95.7	90	110				

Sample ID CCV9	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286947						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.393	1.0	20.00	0	92.0	90	110				

Sample ID CCV10	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286952						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.142	1.0	20.00	0	95.7	90	110				

Sample ID CCV11	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCV	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286963						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	18.693	1.0	20.00	0	93.5	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICB	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/3/2024	SeqNo: 6285975						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6285989						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286002						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286013						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286025						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286038						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286049							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286060							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286069							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286082						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286093						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID CCB10	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286098						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB11	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: CCB	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286109						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10								
Barium	ND	1.0								
Manganese	ND	0.50								
Molybdenum	ND	0.50								
Selenium	ND	0.50								

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ICB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6293419						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic
Manganese

ND 0.10
ND 0.50

Sample ID CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6293433						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic
Manganese

ND 0.10
ND 0.50

Sample ID CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6293444						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic
Manganese

ND 0.10
ND 0.50

Sample ID CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6293455						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic
Manganese

ND 0.10
ND 0.50

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6293466						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic

ND 0.10

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6293466						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese	ND	0.50									
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Sample ID CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6293477						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/6/2024	SeqNo: 6293482						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/6/2024	SeqNo: 6293495						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Sample ID CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/6/2024	SeqNo: 6293507						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Manganese	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: CCB	Batch ID: R195287	TestNo: EPA 6020	Analysis Date: 11/6/2024	SeqNo: 6293519							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out

E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values

H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
(M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID	ICB	SampType: ICB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID:	ICB	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/3/2024	SeqNo: 6286830
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0
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Sample ID	CCB1	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID:	CCB	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286844
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0
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Sample ID	CCB2	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID:	CCB	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286857
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0
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Sample ID	CCB3	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID:	CCB	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286868
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0
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Sample ID	CCB4	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID:	CCB	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286880
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	ND	1.0
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCB4	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286893						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID CCB5	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286904						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID CCB6	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286915						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID CCB7	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286924						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID CCB8	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286937						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID CCB9	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286948	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB10	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286953	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID CCB11	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: CCB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286964	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285980							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285981							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.262	0.10	20.00	0	96.3	80	120				
Barium	19.061	1.0	20.00	0	95.3	80	120				
Manganese	19.789	0.50	20.00	0	98.9	80	120				
Molybdenum	19.059	0.50	20.00	0	95.3	80	120				
Selenium	18.977	0.50	20.00	0	94.9	80	120				

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285990							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSAB2	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSAB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6285991							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.187	0.10	20.00	0	95.9	80	120				
Barium	19.642	1.0	20.00	0	98.2	80	120				
Manganese	19.169	0.50	20.00	0	95.8	80	120				
Molybdenum	19.160	0.50	20.00	0	95.8	80	120				
Selenium	18.989	0.50	20.00	0	94.9	80	120				

Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286026							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSAB3	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSAB	Batch ID: R195177	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286027							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	17.976	0.10	20.00	0	89.9	80	120				
Barium	20.373	1.0	20.00	0	102	80	120				
Manganese	19.029	0.50	20.00	0	95.1	80	120				
Molybdenum	19.078	0.50	20.00	0	95.4	80	120				
Selenium	18.431	0.50	20.00	0	92.2	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286071						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286071						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	18.648	0.10	20.00	0	93.2	80	120				
Barium	20.098	1.0	20.00	0	100	80	120				
Manganese	19.103	0.50	20.00	0	95.5	80	120				
Molybdenum	18.924	0.50	20.00	0	94.6	80	120				
Selenium	18.371	0.50	20.00	0	91.9	80	120				

Sample ID ICSA5	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195177						
Client ID: ICSA	Batch ID: R195177	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286110						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID	ICSAB5	SampType:	ICSAB	TestCode:	6020_DIS_TP	Units:	µg/L	Prep Date:		RunNo:	195177
Client ID:	ICSAB	Batch ID:	R195177	TestNo:	EPA 6020			Analysis Date:	11/4/2024	SeqNo:	6286111
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.729	0.10	20.00	0	93.6	80	120				
Barium	19.602	1.0	20.00	0	98.0	80	120				
Manganese	19.371	0.50	20.00	0	96.9	80	120				
Molybdenum	19.005	0.50	20.00	0	95.0	80	120				
Selenium	19.510	0.50	20.00	0	97.5	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6293423						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Manganese	ND	0.50

Sample ID ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6293424						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.505	0.10	20.00	0	97.5	80	120
Manganese	19.812	0.50	20.00	0	99.1	80	120

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6293434						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Manganese	ND	0.50

Sample ID ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/5/2024	SeqNo: 6293435						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.198	0.10	20.00	0	96.0	80	120
Manganese	19.720	0.50	20.00	0	98.6	80	120

Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/6/2024	SeqNo: 6293483						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/6/2024	SeqNo: 6293483						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Manganese

ND 0.50

Sample ID ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/6/2024	SeqNo: 6293483						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic
Manganese

20.398 0.10 20.00 0 102 80 120
 19.958 0.50 20.00 0 99.8 80 120

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/6/2024	SeqNo: 6293520						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic
Manganese

ND 0.10
ND 0.50

Sample ID ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195287						
Client ID: ICSA	Batch ID: R195287	TestNo: EPA 6020		Analysis Date: 11/6/2024	SeqNo: 6293521						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic
Manganese

18.844 0.10 20.00 0 94.2 80 120
 19.951 0.50 20.00 0 99.8 80 120

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286835						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286835						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.496	1.0	20.00	0	97.5	80	120				
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Sample ID ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286845						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286846						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.363	1.0	20.00	0	96.8	80	120				
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Sample ID ICSA3	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020		Analysis Date: 11/4/2024	SeqNo: 6286881						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID ICSAB3	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ICSAB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286882	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium 18.565 1.0 20.00 0 92.8 80 120

Sample ID ICSA4	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286925	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID ICSAB4	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ICSAB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286926	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium 18.601 1.0 20.00 0 93.0 80 120

Sample ID ICSA5	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ICSA	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286965	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium ND 1.0

Sample ID ICSAB5	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188
Client ID: ICSAB	Batch ID: R195188	TestNo: EPA 6020	Analysis Date: 11/4/2024	SeqNo: 6286966	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium 18.868 1.0 20.00 0 94.3 80 120

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

INTERNAL STANDARD SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	1440059.4	1440059.4	100	PASS	30-150	26765.9	26765.9	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	1436247	1440059.4	99.74	PASS	30-150	27294.5	26765.9	101.97	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	1454342.2	1440059.4	100.99	PASS	30-150	26996.3	26765.9	100.86	PASS	30-150
Std3-5/50 ppb	ICAL	1	1448589.3	1440059.4	100.59	PASS	30-150	27130.9	26765.9	101.36	PASS	30-150
Std4-10/100 ppb	ICAL	1	1449230.7	1440059.4	100.64	PASS	30-150	26916.1	26765.9	100.56	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	1450435.7	1440059.4	100.72	PASS	30-150	27340.1	26765.9	102.15	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	1439544.6	1440059.4	99.96	PASS	30-150	26553.3	26765.9	99.21	PASS	30-150
Std7-100/1000 ppb	ICAL	1	1380000.8	1440059.4	95.83	PASS	30-150	25875.6	26765.9	96.67	PASS	30-150
Std8-200/2000 ppb	ICAL	1	1358444.7	1440059.4	94.33	PASS	30-150	25225.7	26765.9	94.25	PASS	30-150
ICV	ICV	1	1437762.4	1440059.4	99.84	PASS	30-150	25439.4	26765.9	95.04	PASS	30-150
ICB	ICB	1	1375689.3	1440059.4	95.53	PASS	30-150	24627.1	26765.9	92.01	PASS	30-150
LLCCV1	CCV1	1	1444764.6	1440059.4	100.33	PASS	30-150	26190.5	26765.9	97.85	PASS	30-150
LLCCV2	CCV1	1	1463621.9	1440059.4	101.64	PASS	30-150	26673.5	26765.9	99.65	PASS	30-150
MLCCV1	CCV	1	1466702.2	1440059.4	101.85	PASS	30-150	26586.7	26765.9	99.33	PASS	30-150
ICSA1	ICSA	1	1483046.5	1440059.4	102.99	PASS	30-150	26764.8	26765.9	100	PASS	30-150
ICSA1	ICSA	1	1491421.8	1440059.4	103.57	PASS	30-150	26869.4	26765.9	100.39	PASS	30-150
ICSAB1	ICSAB	1	1510898.8	1440059.4	104.92	PASS	30-150	26735.9	26765.9	99.89	PASS	30-150
CCV1	CCV	1	1479633.1	1440059.4	102.75	PASS	30-150	26644.6	26765.9	99.55	PASS	30-150
CCB1	CCB	1	1475685.9	1440059.4	102.47	PASS	30-150	26461	26765.9	98.86	PASS	30-150
ICSA2	ICSA	1	1480512.2	1440059.4	102.81	PASS	30-150	26772.6	26765.9	100.03	PASS	30-150
ICSAB2	ICSAB	1	1482415.5	1440059.4	102.94	PASS	30-150	27142	26765.9	101.41	PASS	30-150
CCV2	CCV	1	1315106.9	1440059.4	91.32	PASS	30-150	31141.2	26765.9	116.35	PASS	30-150
CCB2	CCB	1	1329625.5	1440059.4	92.33	PASS	30-150	30647	26765.9	114.5	PASS	30-150
CCV3	CCV	1	1331956.8	1440059.4	92.49	PASS	30-150	30123.8	26765.9	112.55	PASS	30-150
CCB3	CCB	1	1334018.4	1440059.4	92.64	PASS	30-150	29699.7	26765.9	110.96	PASS	30-150
CCV4	CCV	1	1323690.7	1440059.4	91.92	PASS	30-150	31815.8	26765.9	118.87	PASS	30-150
CCB4	CCB	1	1312522.3	1440059.4	91.14	PASS	30-150	30662.5	26765.9	114.56	PASS	30-150
ICSA3	ICSA	1	1340139.2	1440059.4	93.06	PASS	30-150	30348.7	26765.9	113.39	PASS	30-150
ICSAB3	ICSAB	1	1312846.6	1440059.4	91.17	PASS	30-150	29474.9	26765.9	110.12	PASS	30-150
CCV4	CCV	1	1387449.1	1440059.4	96.35	PASS	30-150	28705.8	26765.9	107.25	PASS	30-150
CCB4	CCB	1	1376998.3	1440059.4	95.62	PASS	30-150	27766.4	26765.9	103.74	PASS	30-150
CCV5	CCV	1	1425154.3	1440059.4	98.96	PASS	30-150	27696.3	26765.9	103.48	PASS	30-150
CCB5	CCB	1	1411967.1	1440059.4	98.05	PASS	30-150	26584.5	26765.9	99.32	PASS	30-150
CCV6	CCV	1	1372563.4	1440059.4	95.31	PASS	30-150	26998.5	26765.9	100.87	PASS	30-150
CCB6	CCB	1	1372760.9	1440059.4	95.33	PASS	30-150	26378.6	26765.9	98.55	PASS	30-150
CCV7	CCV	1	1326761.8	1440059.4	92.13	PASS	30-150	28511	26765.9	106.52	PASS	30-150
CCB7	CCB	1	1328752.8	1440059.4	92.27	PASS	30-150	27431.4	26765.9	102.49	PASS	30-150
ICSA4	ICSA	1	1365100.7	1440059.4	94.79	PASS	30-150	27096.4	26765.9	101.23	PASS	30-150
ICSAB4	ICSAB	1	1355570.5	1440059.4	94.13	PASS	30-150	26741.4	26765.9	99.91	PASS	30-150
MB-113831	MBLK	1	1361271	1440059.4	94.53	PASS	30-150	25677.5	26765.9	95.93	PASS	30-150
LCS-113831	LCS	1	1337503.7	1440059.4	92.88	PASS	30-150	24415.7	26765.9	91.22	PASS	30-150

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
N069629-001B	SAMP	1	1284063.3	1440059.4	89.17	PASS	30-150	22715.4	26765.9	84.87	PASS	30-150
N069629-001B	SAMP	5	1362456.5	1440059.4	94.61	PASS	30-150	24526.9	26765.9	91.63	PASS	30-150
N069629-001B-PS	PS	1	1311701.4	1440059.4	91.09	PASS	30-150	22764.4	26765.9	85.05	PASS	30-150
N069629-001B-MS	MS	1	1263412	1440059.4	87.73	PASS	30-150	22579.7	26765.9	84.36	PASS	30-150
N069629-001B-MSD	MSD	1	1292198.6	1440059.4	89.73	PASS	30-150	22506.3	26765.9	84.09	PASS	30-150
N069629-002B	SAMP	1	1371504.4	1440059.4	95.24	PASS	30-150	23743.5	26765.9	88.71	PASS	30-150
N069631-008B	SAMP	1	912999.8	1440059.4	63.4	PASS	30-150	20088.8	26765.9	75.05	PASS	30-150
CCV8	CCV	1	1418578.8	1440059.4	98.51	PASS	30-150	27671.8	26765.9	103.38	PASS	30-150
CCB8	CCB	1	1388959.2	1440059.4	96.45	PASS	30-150	26714.7	26765.9	99.81	PASS	30-150
N069631-009B	SAMP	1	1011625.8	1440059.4	70.25	PASS	30-150	22063.5	26765.9	82.43	PASS	30-150
N069631-010B	SAMP	1	1007888.4	1440059.4	69.99	PASS	30-150	23052.6	26765.9	86.13	PASS	30-150
N069631-011B	SAMP	1	789603.2	1440059.4	54.83	PASS	30-150	19947.5	26765.9	74.53	PASS	30-150
N069631-012B	SAMP	1	868106	1440059.4	60.28	PASS	30-150	22223.7	26765.9	83.03	PASS	30-150
N069631-013B	SAMP	1	905086.2	1440059.4	62.85	PASS	30-150	22634.2	26765.9	84.56	PASS	30-150
N069631-014B	SAMP	1	852434.5	1440059.4	59.19	PASS	30-150	22106.9	26765.9	82.59	PASS	30-150
N069638-001B	SAMP	1	868917.9	1440059.4	60.34	PASS	30-150	22483	26765.9	84	PASS	30-150
N069638-002B	SAMP	1	964660.5	1440059.4	66.99	PASS	30-150	24140.8	26765.9	90.19	PASS	30-150
N069638-003B	SAMP	1	878200.9	1440059.4	60.98	PASS	30-150	22541.9	26765.9	84.22	PASS	30-150
CCV9	CCV	1	1288909.6	1440059.4	89.5	PASS	30-150	30216.2	26765.9	112.89	PASS	30-150
CCB9	CCB	1	1287672.5	1440059.4	89.42	PASS	30-150	28827.1	26765.9	107.7	PASS	30-150
N069638-007B	SAMP	1	1149378	1440059.4	79.81	PASS	30-150	24699.4	26765.9	92.28	PASS	30-150
N069638-008B	SAMP	1	1202909.3	1440059.4	83.53	PASS	30-150	25065.5	26765.9	93.65	PASS	30-150
N069638-009B	SAMP	1	1015124.7	1440059.4	70.49	PASS	30-150	22558.6	26765.9	84.28	PASS	30-150
CCV10	CCV	1	1322579.1	1440059.4	91.84	PASS	30-150	28712.4	26765.9	107.27	PASS	30-150
CCB10	CCB	1	1298221.9	1440059.4	90.15	PASS	30-150	27744.2	26765.9	103.66	PASS	30-150
CCV11	CCV	1	1312665.4	1440059.4	91.15	PASS	30-150	27636.2	26765.9	103.25	PASS	30-150
CCB11	CCB	1	1292828.9	1440059.4	89.78	PASS	30-150	26505.5	26765.9	99.03	PASS	30-150
ICSA5	ICSA	1	1331792.4	1440059.4	92.48	PASS	30-150	26799.3	26765.9	100.12	PASS	30-150
ICSA5	ICSA	1	1310680.6	1440059.4	91.02	PASS	30-150	25436	26765.9	95.03	PASS	30-150

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]					72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	16330.4	16330.4	100	PASS	30-150	53422.4	53422.4	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	16444.9	16330.4	100.7	PASS	30-150	53779.1	53422.4	100.67	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	16499.4	16330.4	101.04	PASS	30-150	53060.1	53422.4	99.32	PASS	30-150
Std3-5/50 ppb	ICAL	1	16386	16330.4	100.34	PASS	30-150	52838.3	53422.4	98.91	PASS	30-150
Std4-10/100 ppb	ICAL	1	16102.4	16330.4	98.6	PASS	30-150	53216.2	53422.4	99.61	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	16486.1	16330.4	100.95	PASS	30-150	53129.2	53422.4	99.45	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	15896.7	16330.4	97.34	PASS	30-150	52707.8	53422.4	98.66	PASS	30-150
Std7-100/1000 ppb	ICAL	1	15498.5	16330.4	94.91	PASS	30-150	51282.2	53422.4	95.99	PASS	30-150
Std8-200/2000 ppb	ICAL	1	15186	16330.4	92.99	PASS	30-150	49004.1	53422.4	91.73	PASS	30-150
ICV	ICV	1	15547.4	16330.4	95.21	PASS	30-150	50796.3	53422.4	95.08	PASS	30-150
ICB	ICB	1	14906.8	16330.4	91.28	PASS	30-150	48944	53422.4	91.62	PASS	30-150
LLCCV1	CCV1	1	15984.5	16330.4	97.88	PASS	30-150	51435	53422.4	96.28	PASS	30-150
LLCCV2	CCV1	1	16202.5	16330.4	99.22	PASS	30-150	52552.9	53422.4	98.37	PASS	30-150
MLCCV1	CCV	1	16255.9	16330.4	99.54	PASS	30-150	52522.8	53422.4	98.32	PASS	30-150
ICSA1	ICSA	1	16071.3	16330.4	98.41	PASS	30-150	52491.6	53422.4	98.26	PASS	30-150
ICSA1	ICSA	1	16109.1	16330.4	98.64	PASS	30-150	53210.5	53422.4	99.6	PASS	30-150
ICSAB1	ICSAB	1	15932.2	16330.4	97.56	PASS	30-150	53530.5	53422.4	100.2	PASS	30-150
CCV1	CCV	1	16217	16330.4	99.31	PASS	30-150	52364.5	53422.4	98.02	PASS	30-150
CCB1	CCB	1	16017.9	16330.4	98.09	PASS	30-150	52765.8	53422.4	98.77	PASS	30-150
ICSA2	ICSA	1	16200.3	16330.4	99.2	PASS	30-150	52830.5	53422.4	98.89	PASS	30-150
ICSAB2	ICSAB	1	16095.7	16330.4	98.56	PASS	30-150	53220.6	53422.4	99.62	PASS	30-150
CCV2	CCV	1	18084.5	16330.4	110.74	PASS	30-150	60611.7	53422.4	113.46	PASS	30-150
CCB2	CCB	1	17948.8	16330.4	109.91	PASS	30-150	60761.2	53422.4	113.74	PASS	30-150
CCV3	CCV	1	17583.9	16330.4	107.68	PASS	30-150	59040.3	53422.4	110.52	PASS	30-150
CCB3	CCB	1	17972.1	16330.4	110.05	PASS	30-150	59056	53422.4	110.55	PASS	30-150
CCV4	CCV	1	18471.6	16330.4	113.11	PASS	30-150	61755.9	53422.4	115.6	PASS	30-150
CCB4	CCB	1	17793	16330.4	108.96	PASS	30-150	59179.9	53422.4	110.78	PASS	30-150
ICSA3	ICSA	1	17878.7	16330.4	109.48	PASS	30-150	59115.2	53422.4	110.66	PASS	30-150
ICSAB3	ICSAB	1	17414.9	16330.4	106.64	PASS	30-150	56782.6	53422.4	106.29	PASS	30-150
CCV4	CCV	1	17409.3	16330.4	106.61	PASS	30-150	56816	53422.4	106.35	PASS	30-150
CCB4	CCB	1	16869.8	16330.4	103.3	PASS	30-150	55388.9	53422.4	103.68	PASS	30-150
CCV5	CCV	1	16845.4	16330.4	103.15	PASS	30-150	55038.8	53422.4	103.03	PASS	30-150
CCB5	CCB	1	16214.7	16330.4	99.29	PASS	30-150	53668.7	53422.4	100.46	PASS	30-150
CCV6	CCV	1	15974.5	16330.4	97.82	PASS	30-150	51998.9	53422.4	97.34	PASS	30-150
CCB6	CCB	1	16074.6	16330.4	98.43	PASS	30-150	51937.7	53422.4	97.22	PASS	30-150
CCV7	CCV	1	16984.4	16330.4	104	PASS	30-150	56526	53422.4	105.81	PASS	30-150
CCB7	CCB	1	16408.3	16330.4	100.48	PASS	30-150	54577.3	53422.4	102.16	PASS	30-150
ICSA4	ICSA	1	16159.1	16330.4	98.95	PASS	30-150	54489.3	53422.4	102	PASS	30-150
ICSAB4	ICSAB	1	15827.7	16330.4	96.92	PASS	30-150	52404.8	53422.4	98.1	PASS	30-150
MB-113831	MBLK	1	15745.4	16330.4	96.42	PASS	30-150	51592.1	53422.4	96.57	PASS	30-150
LCS-113831	LCS	1	15034.7	16330.4	92.07	PASS	30-150	48907.3	53422.4	91.55	PASS	30-150

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]					72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
N069629-001B	SAMP	1	14031.6	16330.4	85.92	PASS	30-150	43765	53422.4	81.92	PASS	30-150
N069629-001B	SAMP	5	15062.5	16330.4	92.24	PASS	30-150	48285.4	53422.4	90.38	PASS	30-150
N069629-001B-PS	PS	1	13827	16330.4	84.67	PASS	30-150	43694.8	53422.4	81.79	PASS	30-150
N069629-001B-MS	MS	1	13867	16330.4	84.92	PASS	30-150	42834.7	53422.4	80.18	PASS	30-150
N069629-001B-MSD	MSD	1	13585.7	16330.4	83.19	PASS	30-150	43254.7	53422.4	80.97	PASS	30-150
N069629-002B	SAMP	1	14504.2	16330.4	88.82	PASS	30-150	45051.8	53422.4	84.33	PASS	30-150
N069631-008B	SAMP	1	11765.4	16330.4	72.05	PASS	30-150	34723.4	53422.4	65	PASS	30-150
CCV8	CCV	1	16861	16330.4	103.25	PASS	30-150	55617.4	53422.4	104.11	PASS	30-150
CCB8	CCB	1	15987.9	16330.4	97.9	PASS	30-150	54427.9	53422.4	101.88	PASS	30-150
N069631-009B	SAMP	1	12536	16330.4	76.76	PASS	30-150	37904.9	53422.4	70.95	PASS	30-150
N069631-010B	SAMP	1	13317.7	16330.4	81.55	PASS	30-150	40026.6	53422.4	74.92	PASS	30-150
N069631-011B	SAMP	1	11378.5	16330.4	69.68	PASS	30-150	33905	53422.4	63.47	PASS	30-150
N069631-012B	SAMP	1	12669.4	16330.4	77.58	PASS	30-150	37801.3	53422.4	70.76	PASS	30-150
N069631-013B	SAMP	1	12756.1	16330.4	78.11	PASS	30-150	39558.7	53422.4	74.05	PASS	30-150
N069631-014B	SAMP	1	12398.1	16330.4	75.92	PASS	30-150	38206.7	53422.4	71.52	PASS	30-150
N069638-001B	SAMP	1	12680.5	16330.4	77.65	PASS	30-150	38717.9	53422.4	72.48	PASS	30-150
N069638-002B	SAMP	1	13551.2	16330.4	82.98	PASS	30-150	42542.9	53422.4	79.63	PASS	30-150
N069638-003B	SAMP	1	12900.7	16330.4	79	PASS	30-150	39558.8	53422.4	74.05	PASS	30-150
CCV9	CCV	1	17377	16330.4	106.41	PASS	30-150	58252	53422.4	109.04	PASS	30-150
CCB9	CCB	1	17262.5	16330.4	105.71	PASS	30-150	57011.1	53422.4	106.72	PASS	30-150
N069638-007B	SAMP	1	14401.9	16330.4	88.19	PASS	30-150	46765.5	53422.4	87.54	PASS	30-150
N069638-008B	SAMP	1	14758.9	16330.4	90.38	PASS	30-150	46727.6	53422.4	87.47	PASS	30-150
N069638-009B	SAMP	1	12857.3	16330.4	78.73	PASS	30-150	40520	53422.4	75.85	PASS	30-150
CCV10	CCV	1	17232.4	16330.4	105.52	PASS	30-150	55398.9	53422.4	103.7	PASS	30-150
CCB10	CCB	1	16481.7	16330.4	100.93	PASS	30-150	54949.7	53422.4	102.86	PASS	30-150
CCV11	CCV	1	16592.9	16330.4	101.61	PASS	30-150	53813.6	53422.4	100.73	PASS	30-150
CCB11	CCB	1	15954.5	16330.4	97.7	PASS	30-150	52687.8	53422.4	98.62	PASS	30-150
ICSA5	ICSA	1	15833.3	16330.4	96.96	PASS	30-150	51925.4	53422.4	97.2	PASS	30-150
ICSAB5	ICSAB	1	15496.3	16330.4	94.89	PASS	30-150	50010.6	53422.4	93.61	PASS	30-150

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	103 Rh (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	450632.3	450632.3	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	452501.5	450632.3	100.41	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	449318.8	450632.3	99.71	PASS	30-150
Std3-5/50 ppb	ICAL	1	447984.4	450632.3	99.41	PASS	30-150
Std4-10/100 ppb	ICAL	1	448018.9	450632.3	99.42	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	446463.1	450632.3	99.08	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	440120.1	450632.3	97.67	PASS	30-150
Std7-100/1000 ppb	ICAL	1	429038	450632.3	95.21	PASS	30-150
Std8-200/2000 ppb	ICAL	1	412572.8	450632.3	91.55	PASS	30-150
ICV	ICV	1	423700.5	450632.3	94.02	PASS	30-150
ICB	ICB	1	411182.1	450632.3	91.25	PASS	30-150
LLCCV1	CCV1	1	435202.2	450632.3	96.58	PASS	30-150
LLCCV2	CCV1	1	441489.1	450632.3	97.97	PASS	30-150
MLCCV1	CCV	1	443747.1	450632.3	98.47	PASS	30-150
ICSA1	ICSA	1	445440.3	450632.3	98.85	PASS	30-150
ICSA1	ICSA	1	446537.9	450632.3	99.09	PASS	30-150
ICSAB1	ICSAB	1	447539.9	450632.3	99.31	PASS	30-150
CCV1	CCV	1	446953.9	450632.3	99.18	PASS	30-150
CCB1	CCB	1	444911	450632.3	98.73	PASS	30-150
ICSA2	ICSA	1	449323.7	450632.3	99.71	PASS	30-150
ICSAB2	ICSAB	1	449648.5	450632.3	99.78	PASS	30-150
CCV2	CCV	1	452869.9	450632.3	100.5	PASS	30-150
CCB2	CCB	1	450515.7	450632.3	99.97	PASS	30-150
CCV3	CCV	1	446255.1	450632.3	99.03	PASS	30-150
CCB3	CCB	1	447045.8	450632.3	99.2	PASS	30-150
CCV4	CCV	1	462110.1	450632.3	102.55	PASS	30-150
CCB4	CCB	1	444186.5	450632.3	98.57	PASS	30-150
ICSA3	ICSA	1	450372.5	450632.3	99.94	PASS	30-150
ICSAB3	ICSAB	1	438462.7	450632.3	97.3	PASS	30-150
CCV4	CCV	1	447247.7	450632.3	99.25	PASS	30-150
CCB4	CCB	1	437474.9	450632.3	97.08	PASS	30-150
CCV5	CCV	1	438953.6	450632.3	97.41	PASS	30-150
CCB5	CCB	1	430694.3	450632.3	95.58	PASS	30-150
CCV6	CCV	1	427760.6	450632.3	94.92	PASS	30-150
CCB6	CCB	1	425625.6	450632.3	94.45	PASS	30-150
CCV7	CCV	1	436295.1	450632.3	96.82	PASS	30-150
CCB7	CCB	1	424650.8	450632.3	94.23	PASS	30-150
ICSA4	ICSA	1	430377.4	450632.3	95.51	PASS	30-150
ICSAB4	ICSAB	1	423824.4	450632.3	94.05	PASS	30-150
MB-113831	MBLK	1	418998.8	450632.3	92.98	PASS	30-150
LCS-113831	LCS	1	406295.9	450632.3	90.16	PASS	30-150

INTERNAL STANDARD: 241103B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	103 Rh (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
N069629-001B	SAMP	1	362770.1	450632.3	80.5	PASS	30-150
N069629-001B	SAMP	5	392951.3	450632.3	87.2	PASS	30-150
N069629-001B-PS	PS	1	363649.8	450632.3	80.7	PASS	30-150
N069629-001B-MS	MS	1	353121.7	450632.3	78.36	PASS	30-150
N069629-001B-MSD	MSD	1	352890.7	450632.3	78.31	PASS	30-150
N069629-002B	SAMP	1	380447.3	450632.3	84.43	PASS	30-150
N069631-008B	SAMP	1	274444.1	450632.3	60.9	PASS	30-150
CCV8	CCV	1	441025.1	450632.3	97.87	PASS	30-150
CCB8	CCB	1	434390.7	450632.3	96.4	PASS	30-150
N069631-009B	SAMP	1	300029.7	450632.3	66.58	PASS	30-150
N069631-010B	SAMP	1	303236	450632.3	67.29	PASS	30-150
N069631-011B	SAMP	1	257594.5	450632.3	57.16	PASS	30-150
N069631-012B	SAMP	1	283090.7	450632.3	62.82	PASS	30-150
N069631-013B	SAMP	1	291572.1	450632.3	64.7	PASS	30-150
N069631-014B	SAMP	1	281635.9	450632.3	62.5	PASS	30-150
N069638-001B	SAMP	1	284679.7	450632.3	63.17	PASS	30-150
N069638-002B	SAMP	1	311880.1	450632.3	69.21	PASS	30-150
N069638-003B	SAMP	1	289324.5	450632.3	64.2	PASS	30-150
CCV9	CCV	1	439585.8	450632.3	97.55	PASS	30-150
CCB9	CCB	1	427158.1	450632.3	94.79	PASS	30-150
N069638-007B	SAMP	1	349490.6	450632.3	77.56	PASS	30-150
N069638-008B	SAMP	1	360010.7	450632.3	79.89	PASS	30-150
N069638-009B	SAMP	1	306459	450632.3	68.01	PASS	30-150
CCV10	CCV	1	433271.6	450632.3	96.15	PASS	30-150
CCB10	CCB	1	422162.6	450632.3	93.68	PASS	30-150
CCV11	CCV	1	419657.4	450632.3	93.13	PASS	30-150
CCB11	CCB	1	412545.8	450632.3	91.55	PASS	30-150
ICSA5	ICSA	1	421242.4	450632.3	93.48	PASS	30-150
ICSAB5	ICSAB	1	409383.2	450632.3	90.85	PASS	30-150

INTERNAL STANDARD: 241105B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	45 Sc (ISTD) [2]					72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	25659.7	25659.7	100	PASS	30-150	15888.9	15888.9	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	25432.7	25659.7	99.12	PASS	30-150	15710.9	15888.9	98.88	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	25364.8	25659.7	98.85	PASS	30-150	15716.5	15888.9	98.91	PASS	30-150
Std3-5/50 ppb	ICAL	1	25241.3	25659.7	98.37	PASS	30-150	15534.1	15888.9	97.77	PASS	30-150
Std4-10/100 ppb	ICAL	1	25394.8	25659.7	98.97	PASS	30-150	15756.5	15888.9	99.17	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	25467.2	25659.7	99.25	PASS	30-150	15703.1	15888.9	98.83	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	25517.3	25659.7	99.45	PASS	30-150	15547.4	15888.9	97.85	PASS	30-150
Std7-100/1000 ppb	ICAL	1	24560.3	25659.7	95.72	PASS	30-150	15260.5	15888.9	96.05	PASS	30-150
Std8-200/2000 ppb	ICAL	1	23953.9	25659.7	93.35	PASS	30-150	15210.4	15888.9	95.73	PASS	30-150
ICV	ICV	1	25798.8	25659.7	100.54	PASS	30-150	16022.3	15888.9	100.84	PASS	30-150
ICB	ICB	1	24753.9	25659.7	96.47	PASS	30-150	15748.7	15888.9	99.12	PASS	30-150
LLCCV1	CCV1	1	25105.5	25659.7	97.84	PASS	30-150	15783.2	15888.9	99.33	PASS	30-150
LLCCV2	CCV1	1	26335.2	25659.7	102.63	PASS	30-150	16176.9	15888.9	101.81	PASS	30-150
MLCCV1	CCV	1	24869.6	25659.7	96.92	PASS	30-150	15278.3	15888.9	96.16	PASS	30-150
ICSA1	ICSA	1	25576.3	25659.7	99.67	PASS	30-150	16009	15888.9	100.76	PASS	30-150
ICSAB1	ICSAB	1	25841.1	25659.7	100.71	PASS	30-150	15943.4	15888.9	100.34	PASS	30-150
CCV1	CCV	1	25183.4	25659.7	98.14	PASS	30-150	15724.3	15888.9	98.96	PASS	30-150
CCB1	CCB	1	25228	25659.7	98.32	PASS	30-150	15388.4	15888.9	96.85	PASS	30-150
ICSA2	ICSA	1	25890.1	25659.7	100.9	PASS	30-150	16109.1	15888.9	101.39	PASS	30-150
ICSAB2	ICSAB	1	25205.7	25659.7	98.23	PASS	30-150	15911.1	15888.9	100.14	PASS	30-150
CCV2	CCV	1	25217.9	25659.7	98.28	PASS	30-150	15558.5	15888.9	97.92	PASS	30-150
CCB2	CCB	1	24906.3	25659.7	97.06	PASS	30-150	15545.2	15888.9	97.84	PASS	30-150
CCV3	CCV	1	24771.7	25659.7	96.54	PASS	30-150	15672	15888.9	98.63	PASS	30-150
CCB3	CCB	1	24844.1	25659.7	96.82	PASS	30-150	15445.1	15888.9	97.21	PASS	30-150
CCV4	CCV	1	25342.5	25659.7	98.76	PASS	30-150	15849.9	15888.9	99.75	PASS	30-150
CCB4	CCB	1	25180.1	25659.7	98.13	PASS	30-150	15727.6	15888.9	98.98	PASS	30-150
CCV5	CCV	1	24669.3	25659.7	96.14	PASS	30-150	15420.6	15888.9	97.05	PASS	30-150
CCB5	CCB	1	24410.1	25659.7	95.13	PASS	30-150	15709.8	15888.9	98.87	PASS	30-150
CCV6	CCV	1	23744.7	25659.7	92.54	PASS	30-150	15479.6	15888.9	97.42	PASS	30-150
CCB6	CCB	1	23880.4	25659.7	93.07	PASS	30-150	15430.7	15888.9	97.12	PASS	30-150
ICSA3	ICSA	1	25226.8	25659.7	98.31	PASS	30-150	15716.5	15888.9	98.91	PASS	30-150
ICSAB3	ICSAB	1	24522.4	25659.7	95.57	PASS	30-150	15657.5	15888.9	98.54	PASS	30-150
CCV7	CCV	1	27257.8	25659.7	106.23	PASS	30-150	16386	15888.9	103.13	PASS	30-150
CCB7	CCB	1	26360.8	25659.7	102.73	PASS	30-150	15853.3	15888.9	99.78	PASS	30-150
N069629-001B	SAMP	1	23692.4	25659.7	92.33	PASS	30-150	14414.2	15888.9	90.72	PASS	30-150
N069631-008B	SAMP	10	24094	25659.7	93.9	PASS	30-150	14626.6	15888.9	92.06	PASS	30-150
N069631-009B	SAMP	1	21538.4	25659.7	83.94	PASS	30-150	12190.1	15888.9	76.72	PASS	30-150
N069631-010B	SAMP	1	22481.8	25659.7	87.62	PASS	30-150	13021.9	15888.9	81.96	PASS	30-150
N069631-010B	SAMP	10	26032.5	25659.7	101.45	PASS	30-150	15460.7	15888.9	97.31	PASS	30-150
N069631-011B	SAMP	10	24782.9	25659.7	96.58	PASS	30-150	14557.6	15888.9	91.62	PASS	30-150
N069631-012B	SAMP	10	24920.8	25659.7	97.12	PASS	30-150	14846.8	15888.9	93.44	PASS	30-150

INTERNAL STANDARD: 241105B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	45 Sc (ISTD) [2]					72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
N069631-013B	SAMP	10	25256.9	25659.7	98.43	PASS	30-150	15356.1	15888.9	96.65	PASS	30-150
N069631-014B	SAMP	10	24252.1	25659.7	94.51	PASS	30-150	14885.7	15888.9	93.69	PASS	30-150
N069638-001B	SAMP	10	24464.6	25659.7	95.34	PASS	30-150	14854.5	15888.9	93.49	PASS	30-150
CCV8	CCV	1	25420.5	25659.7	99.07	PASS	30-150	15698.7	15888.9	98.8	PASS	30-150
CCB8	CCB	1	24802.9	25659.7	96.66	PASS	30-150	15605.3	15888.9	98.22	PASS	30-150
N069638-007B	SAMP	1	21912.2	25659.7	85.4	PASS	30-150	13814.8	15888.9	86.95	PASS	30-150
N069629-001B	SAMP	1	22187	25659.7	86.47	PASS	30-150	13837	15888.9	87.09	PASS	30-150
N069631-009B	SAMP	1	21177.9	25659.7	82.53	PASS	30-150	12212.4	15888.9	76.86	PASS	30-150
N069631-010B	SAMP	1	22201.4	25659.7	86.52	PASS	30-150	12591.5	15888.9	79.25	PASS	30-150
N069629-001B	SAMP	1	23847.1	25659.7	92.94	PASS	30-150	14584.3	15888.9	91.79	PASS	30-150
N069631-009B	SAMP	1	21566.2	25659.7	84.05	PASS	30-150	12703.9	15888.9	79.95	PASS	30-150
N069631-010B	SAMP	1	22535.2	25659.7	87.82	PASS	30-150	12798.4	15888.9	80.55	PASS	30-150
N069638-007B	SAMP	1	23298.5	25659.7	90.8	PASS	30-150	14367.5	15888.9	90.42	PASS	30-150
N069638-008B	SAMP	10	24686	25659.7	96.21	PASS	30-150	15335	15888.9	96.51	PASS	30-150
N069638-009B	SAMP	100	24887.4	25659.7	96.99	PASS	30-150	15580.8	15888.9	98.06	PASS	30-150
CCV9	CCV	1	24964.2	25659.7	97.29	PASS	30-150	15618.6	15888.9	98.3	PASS	30-150
CCB9	CCB	1	24514.7	25659.7	95.54	PASS	30-150	15601.9	15888.9	98.19	PASS	30-150
ICSA4	ICSA	1	25079.9	25659.7	97.74	PASS	30-150	15911.1	15888.9	100.14	PASS	30-150
ICSAB4	ICSAB	1	24414.5	25659.7	95.15	PASS	30-150	15811	15888.9	99.51	PASS	30-150

SERIAL DILUTION/ POST DIGESTION SPIKE



ASSET LABORATORIES
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ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N069638
 Test Method: EPA 6020
 Analysis Date: 11/4/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 113831

Instrument ID: NV00922-ICP8 (ICPMS-03)
 Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to As, Se, Cr. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069629-001B DT 5x	Arsenic	As	µg/L	0	NA	0.1432094	100.00%	10
N069629-001B DT 5x	Barium	Ba	µg/L	85.86791	PASS	85.47964	0.45%	10
N069629-001B DT 5x	Manganese	Mn	µg/L	17.6874	PASS	18.04301	1.97%	10
N069629-001B DT 5x	Molybdenum	Mo	µg/L	76.22411	PASS	79.47769	4.09%	10
N069629-001B DT 5x	Selenium	Se	µg/L	5.09346	NA	4.925108	3.42%	10
N069629-001B DT 5x	Chromium	Cr	µg/L	2.681676	NA	2.80325	4.34%	10

Reviewed by:



12/20/2024

Note: NA - Not Applicable

12/04/24 00:54

N069638_6020_113831_DT

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID	N069629-001B-PS	SampType:	PS	TestCode:	6020_DIS_TP	Units:	µg/L	Prep Date:		RunNo:	195177		
Client ID:	ZZZZZZ	Batch ID:	113831	TestNo:	EPA 6020		EPA 3010A	Analysis Date:	11/4/2024	SeqNo:	6286076		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic		10.080		0.10	10.00	0.1432	99.4	80	120				
Barium		99.732		1.0	10.00	85.48	143	80	120				S
Manganese		111.545		0.50	100.0	18.04	93.5	80	120				
Molybdenum		93.851		0.50	10.00	79.48	144	80	120				S
Selenium		14.512		0.50	10.00	4.925	95.9	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069638
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID N069629-001B-PS	SampType: PS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195188						
Client ID: ZZZZZZ	Batch ID: 113831	TestNo: EPA 6020	EPA 3010A	Analysis Date: 11/4/2024	SeqNo: 6286931						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	12.429	1.0	10.00	2.803	96.3	80	120				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out

E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values

H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
(M) Test is modified

CORRECTIVE ACTION DOCUMENTATION



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ASSET Laboratories
Corrective Action Report (CAR)

Date Initiated: 06-Nov-24
Initiated By: Diane Jetajobe

Corrective Action Report ID: 8175
Department: ME-3(ICPMS)-

Corrective Action Description

CAR Summary: N069629-001B was re-analyzed several times with failed RSD for Arsenic.

Description of Nonconformance: N069629-001B was re-analyzed several times due to RSD not meeting the 15% criteria for Arsenic. RSD on all runs failed acceptance criteria.

Description of Corrective Action: Arsenic was reported at 0.143 ug/L with the lowest RSD of 28.26%. The results are comparable on all runs.

Performed By: Diane Jetajobe

Completion Date: 06-Nov-24

Client Notification

Client Notification Required: Yes

Notified By:

Comment: thru case narrative

Quality Assurance Review

Corrective Action: Effective

Further Action required by QA:

Approval and Closure

CAR Closed By:

Close Date:

QA Reviewed By:

QA Date: 07-Nov-24


Katrina Diaz

MDL STUDY



ASSET LABORATORIES
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Method Detection Limit

Analytical Method: **EPA 6020B**
 Digestion Method: **3010**
 Date of Analysis: **2/15-2/19/2024**
 Digestion Date: **2/15-2/19/2024**
 Instrument Name: **NV0922-ICP8**
 Analysts: **DJ**

Matrix: **Water**
 Unit: **ug/L**

Analyte	1	2	3	4	5	6	7	AMT SPIKED, ppb	SD	MDLs	PQL	MDL
ANTIMONY	0.543	0.521	0.559	0.527	0.573	0.559	0.572	0.50	0.0208	0.0653	0.50	0.0653
ARSENIC	0.102	0.123	0.107	0.116	0.096	0.161	0.115	0.10	0.0212	0.0668	0.10	0.0668
BARIUM	1.103	1.065	1.083	1.081	1.094	1.066	1.060	1.00	0.0159	0.0499	1.00	0.0499
BERYLLIUM	0.533	0.524	0.557	0.541	0.564	0.565	0.502	0.50	0.0233	0.0733	0.50	0.0733
CADMIUM	0.523	0.562	0.529	0.559	0.491	0.544	0.533	0.50	0.0243	0.0763	0.50	0.0763
CHROMIUM	1.015	0.996	1.000	1.100	1.030	1.081	1.052	1.00	0.0402	0.1264	1.00	0.1264
COBALT	0.524	0.523	0.541	0.559	0.528	0.534	0.551	0.50	0.0138	0.0433	0.50	0.0433
COPPER	1.043	1.028	1.026	1.016	1.068	1.098	1.021	1.00	0.0301	0.0947	1.00	0.0947
IRON	11.041	10.660	10.783	11.168	10.989	10.919	10.802	10.00	0.1734	0.5449	10.00	0.5449
LEAD	1.076	1.068	1.091	1.077	1.083	1.040	1.040	1.00	0.0203	0.0637	1.00	0.0637
MANGANESE	0.558	0.529	0.519	0.541	0.532	0.525	0.554	0.50	0.0148	0.0465	0.50	0.0465
MOLYBDENUM	0.564	0.571	0.574	0.537	0.518	0.554	0.550	0.50	0.0200	0.0629	0.50	0.0629
NICKEL	1.025	1.059	1.057	0.947	0.974	1.069	1.036	1.00	0.0465	0.1461	1.00	0.1461
SELENIUM	0.679	0.622	0.547	0.429	0.439	0.552	0.506	0.50	0.0911	0.2863	0.50	0.2863
SILVER	0.525	0.538	0.555	0.545	0.551	0.530	0.518	0.50	0.0140	0.0439	0.50	0.0439
THALLIUM	0.503	0.493	0.491	0.555	0.525	0.504	0.499	0.50	0.0227	0.0713	0.50	0.0713
URANIUM	0.517	0.513	0.528	0.542	0.526	0.533	0.523	0.50	0.0097	0.0306	0.50	0.0306
VANADIUM	1.081	1.076	1.027	1.054	1.069	1.043	1.080	1.00	0.0209	0.0658	1.00	0.0658
ZINC	10.646	10.643	10.661	10.514	10.927	10.516	10.419	10.00	0.1631	0.5126	10.00	0.7534
ALUMINUM	10.305	10.064	10.146	10.336	10.592	10.459	10.670	10.00	0.2224	0.6990	10.00	0.6990



Method Detection Limit (Blanks)

Analyte	1	2	3	4	5	6	7	Mean	SD	MDLb
ANTIMONY	0.011	0.009	0.001	0.001	0.003	0.018	0.012	0.0080	0.0065	0.0285
ARSENIC	0.021	0.013	0.004	0.008	0.000	0.001	0.000	0.0067	0.0079	0.0316
BARIUM	0.000	0.018	0.014	0.000	0.003	0.001	0.003	0.0054	0.0072	0.0280
BERYLLIUM	0.003	0.005	0.007	0.002	0.005	0.014	0.003	0.0057	0.0039	0.0179
CADMIUM	0.000	0.002	0.000	0.000	0.000	0.001	0.000	0.0004	0.0007	0.0026
CHROMIUM	0.000	0.000	0.000	0.000	0.000	0.001	0.004	0.0008	0.0016	0.0059
COBALT	0.000	0.000	0.000	0.000	0.000	0.003	0.001	0.0006	0.0012	0.0042
COPPER	0.000	0.000	0.069	0.000	0.010	0.000	0.000	0.0113	0.0258	0.0924
IRON	0.000	0.000	0.000	0.236	0.187	0.020	0.112	0.0792	0.0996	0.3922
LEAD	0.001	0.000	0.000	0.002	0.001	0.001	0.001	0.0011	0.0009	0.0037
MANGANESE	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.0008	0.0020	0.0071
MOLYBDENUM	0.017	0.013	0.007	0.015	0.004	0.022	0.009	0.0126	0.0062	0.0321
NICKEL	0.000	0.000	0.062	0.000	0.000	0.017	0.013	0.0132	0.0228	0.0849
SELENIUM	0.007	0.027	0.000	0.000	0.019	0.000	0.013	0.0093	0.0107	0.0428
SILVER	0.004	0.002	0.002	0.000	0.000	0.001	0.000	0.0012	0.0014	0.0057
THALLIUM	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.0003	0.0008	0.0028
URANIUM	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.0001	0.0004	0.0013
VANADIUM	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.0003	0.0004	0.0016
ZINC	0.000	0.000	0.257	0.175	0.513	0.000	0.000	0.1350	0.1968	0.7534
ALUMINUM	0.000	0.000	0.106	0.000	0.000	0.170	0.295	0.0816	0.1160	0.4460

Note: Higher value between **MDLs** and **MDLb** will be used.



LOD PQL VERIFICATION 2024

Analytical Method: EPA 6020 / 200.8
Digestion Method: EPA 3010A
Date of Analysis: 1/20/2024
Digestion Date: 1/20/2024
Instrument Name: ICPMS3
Analysts: DBJ

Matrix: Water
Units: ug/L

N062388

Analyte	MDLs	LOD	ACTUAL LOD	PQL	ACTUAL PQL	% RECOVERY
ANTIMONY	0.0652	0.025	0.288	0.50	0.552	110
ARSENIC	0.0667	0.050	0.055	0.10	0.107	107
BARIUM	0.0498	0.500	0.547	1.00	1.049	105
BERYLLIUM	0.0732	0.250	0.253	0.50	0.502	100
CADMIUM	0.0763	0.250	0.255	0.50	0.498	100
CHROMIUM	0.1263	0.500	0.536	1.00	1.048	105
COBALT	0.0433	0.250	0.261	0.50	0.518	104
COPPER	0.0946	0.100	0.620	1.00	0.941	94
IRON	0.5444	5.000	5.219	10.00	10.531	105
LEAD	0.0636	0.500	0.513	1.00	1.035	104
MANGANESE	0.0464	0.250	0.261	0.50	0.602	120
MOLYBDENUM	0.0628	0.250	0.275	0.50	0.534	107
NICKEL	0.1460	0.500	0.492	1.00	1.184	118
SELENIUM	0.2861	0.250	0.272	0.50	0.536	107
SILVER	0.0438	0.250	0.277	0.50	0.534	107
THALLIUM	0.0712	0.250	0.264	0.50	0.508	102
URANIUM	0.0306	0.250	0.261	0.50	0.523	105
VANADIUM	0.0657	0.500	0.557	1.00	1.063	106
ZINC	0.5121	5.000	5.394	10.00	10.481	105
ALUMINUM	0.6983	5.000	5.519	10.00	10.395	104



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number : 519706
Report Level : II
Report Date : 11/22/2024

Analytical Report *prepared for:*

Sonny Lorenzo
Asset Laboratories
11110 Artersia Blvd,
Suite B
Cerritos, CA 90703

Location: N069639

Authorized for release by:

Quynhgiao Le, Project Manager
714-7716900
quynhgiao.le@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

Sample Summary

Sonny Lorenzo
Asset Laboratories
11110 Artersia
Blvd,
Suite B
Cerritos, CA 90703

Lab Job #: 519706
Location: N069639
Date Received: 11/05/24

Sample ID	Lab ID	Collected	Matrix
N069639-001A / MW-42-030-Q424	519706-001	11/01/24 08:29	Water
N069639-002A / MW-42-055-Q424	519706-002	11/01/24 08:08	Water
N069639-003A / MW-42-065-Q424	519706-003	11/01/24 07:48	Water

Case Narrative

Asset Laboratories
11110 Artersia Blvd,
Suite B
Cerritos, CA 90703
Sonny Lorenzo

Lab Job Number: 519706
Location: N069639
Date Received: 11/05/24

- This data package contains sample and QC results for three water samples, requested for the above referenced project on 11/05/24. The samples were received cold and intact.
- Level II is also requested.

519706

CHAIN-OF-CUSTODY RECORD

ASSET Laboratories

3151-3153 W Post Rd., Las Vegas, NV 89118
www.asset-labs.com
TEL: 7023072659 FAX: 7023072691



QC Level: Level IV

Subcontractor:

Enthalpy Analytical
931 W. Barkley Ave.
Orange, CA 92868

TEL: (714) 771-6900
FAX: (714) 538-1209
Acct #:

Field Sampler: Riggie Tep

04-Nov-24

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests	
				SM5310B	
N069639-001A / MW-42-030-Q424	Groundwater	11/1/2024 8:29:00 AM	8OZA	1	
N069639-002A / MW-42-055-Q424	Groundwater	11/1/2024 8:08:00 AM	8OZA	1	
N069639-003A / MW-42-065-Q424	Groundwater	11/1/2024 7:48:00 AM	8OZA	1	

General Comments: PLEASE EMAIL SAMPLE RECEIPT ACKNOWLEDGEMENT TO THE PM. ALWAYS CC: sonny.lorenzo@assetlaboratories.com
Please use PO# N069639APlease email invoices and Account Receivable Statements to elvira@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by Standard TAT

Please analyze TOC by SM5310B. EDD requirement Labspec7 edata

GLS#: 562212314

Date/Time	Date/Time
Relinquished by: <u>E. Janegof</u>	11/4/2024 1600
Relinquished by: <u>[Signature]</u>	11/5/24 1200

SAMPLE RECEIPT CHECKLIST



Section 1: General Info

Date Received: 11/19/24 WO# 519706 Client: Asset Laboratories

Section 2: Shipping / Custody

Are custody seals present? Yes No

Custody seals intact on arrival? N/A Yes No On cooler / box On samples

Shipping Info: _____

Section 3a: Condition / Packaging

Outside 0.0 - 6.0°C (0.0 - 10.0°C for microbiology) (PM notified)

Date Opened 11/19/24 By (initials) EA Orange Type of ice used: Wet Blue/Gel None

Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatures)

Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures)

If no cooler: Observed/Adjusted Temp (°C): _____ / _____ Thermometer/IR Gun: JR01 CF: -0.5

Cooler Temp (°C) #1: 4.4 / 3.9 #2: _____ / _____ #3: _____ / _____ #4: _____ / _____ #5: _____ / _____ #6: _____ / _____

Section 3b: Microbiology Samples

No microbiology samples submitted (skip 3b)

Within temp range 0.0 - 10.0°C or received on ice directly from field.

Adequate headspace for microbiology analysis.

Section 3c: Air Samples

No air samples submitted (skip 3c)

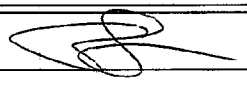
1.4L Canisters 6L Canisters Tedlar Bags MCE Cassettes Sorbent Tubes Other _____

Section 4: Containers / Labels / Samples

	YES	NO	N/A
1) Were custody papers present, filled properly, and legible?	/		/
2) Is the sampler's name present on the CoC?		/	/
3) Were containers received in good condition (unbroken / unopened / uncompromised)?	/		/
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)			/
5) Were all of, and only, the correct samples received?	/		/
6) Are sample labels present, legible, and in agreement with the CoC?	/		/
7) Does the container count match the CoC?	/		/
8) Was sufficient sample volume / mass received for the analyses requested?	/		/
9) Were samples received in proper containers for the analyses requested?	/		/
10) Were samples received with > 1/2 holding time remaining?	/		/
11) Are samples properly preserved as indicated by CoC / labels?	/		/
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?			/
13) Are VOA vials free from headspace/bubbles > 6mm?			/

Section 5: Explanations / Comments

PM notified

Date Logged 11/19/24 By (print) AES (sign) 
 Date Labeled 11/19/24 By (print) EA Orange (sign) _____



800-322-5555
www.gls-us.com

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MARLON CARTIN
3151 W. POST RD.
LAS VEGAS, NV 89118

Tracking #: 562212314

PDS



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SAMPLE RECEIVING
931 W. BARKLEY AVE
ORANGE, CA 92868

ORANGE

4.4/3.9 IQA

-0.5

S10219D

COD: \$0.00
Weight: 0 lb(s)
Reference:



2021

Delivery Instructions:

19004046

Signature Type: STANDARD

ORC CA927-RD0

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LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

Analysis Results for 519706

Sonny Lorenzo
 Asset Laboratories
 11110 Artersia Blvd,
 Suite B
 Cerritos, CA 90703

Lab Job #: 519706
 Location: N069639
 Date Received: 11/05/24

Sample ID: N069639-001A / MW-42-030-Q424	Lab ID: 519706-001 Matrix: Water	Collected: 11/01/24 08:29
--	---	----------------------------------

519706-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	7.2		mg/L	1.0	1	355055	11/08/24	11/09/24	EPL

Sample ID: N069639-002A / MW-42-055-Q424	Lab ID: 519706-002 Matrix: Water	Collected: 11/01/24 08:08
--	---	----------------------------------

519706-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	3.7		mg/L	1.0	1	355055	11/08/24	11/09/24	EPL

Sample ID: N069639-003A / MW-42-065-Q424	Lab ID: 519706-003 Matrix: Water	Collected: 11/01/24 07:48
--	---	----------------------------------

519706-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	6.6		mg/L	1.0	1	355055	11/08/24	11/09/24	EPL

Batch QC

Type: Blank	Lab ID: QC1202588	Batch: 355055
Matrix: Water	Method: SM 5310B	Prep Method: SM 5310B

QC1202588 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Total Organic Carbon	ND		mg/L	1.0	11/08/24	11/09/24

Type: Lab Control Sample	Lab ID: QC1202589	Batch: 355055
Matrix: Water	Method: SM 5310B	Prep Method: SM 5310B

QC1202589 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Organic Carbon	24.23	25.00	mg/L	97%		80-120

Type: Matrix Spike	Lab ID: QC1202590	Batch: 355055
Matrix (Source ID): Water (519706-001)	Method: SM 5310B	Prep Method: SM 5310B

QC1202590 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Total Organic Carbon	32.05	7.158	25.00	mg/L	100%		80-120	1

Type: Matrix Spike Duplicate	Lab ID: QC1202591	Batch: 355055
Matrix (Source ID): Water (519706-001)	Method: SM 5310B	Prep Method: SM 5310B

QC1202591 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Total Organic Carbon	32.56	7.158	25.00	mg/L	102%		80-120	2	20	1

ND Not Detected



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number : 520385
Report Level : II
Report Date : 12/05/2024

Analytical Report *prepared for:*

Sonny Lorenzo
Asset Laboratories
11110 Artersia Blvd,
Suite B
Cerritos, CA 90703

Location: N069890

Authorized for release by:

Quynhgiao Le, Project Manager
714-7716900
quynhgiao.le@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

Sample Summary

Sonny Lorenzo
 Asset Laboratories
 11110 Artersia
 Blvd,
 Suite B
 Cerritos, CA 90703

Lab Job #: 520385
 Location: N069890
 Date Received: 11/14/24

Sample ID	Lab ID	Collected	Matrix
N069890-001A / MW-20-070-Q424	520385-001	11/11/24 13:59	Water
N069890-002A / MW-20-100-Q424	520385-002	11/11/24 15:06	Water
N069890-003A / MW-20-130-Q424	520385-003	11/11/24 14:34	Water
N069890-004A / MW-71-035-Q424	520385-004	11/11/24 12:38	Water
N069890-005A / MW-923-Q424	520385-005	11/11/24 12:48	Water
N069890-006A / MW-21-Q424	520385-006	11/11/24 13:22	Water
N069890-007A / MW-76-039-Q424	520385-007	11/11/24 14:43	Water
N069890-008A / MW-76-156-Q424	520385-008	11/11/24 13:54	Water
N069890-009A / MW-76-181-Q424	520385-009	11/11/24 13:18	Water
N069890-010A / MW-76-218-Q424	520385-010	11/11/24 12:46	Water
N069890-011A / MW-31-060-Q424	520385-011	11/11/24 14:07	Water
N069890-012A / MW-914-Q424	520385-012	11/11/24 14:17	Water
N069890-013A / MW-31-135-Q424	520385-013	11/11/24 13:07	Water

Case Narrative

Asset Laboratories
11110 Artersia Blvd,
Suite B
Cerritos, CA 90703
Sonny Lorenzo

Lab Job Number: 520385
Location: N069890
Date Received: 11/14/24

- This data package contains sample and QC results for thirteen water samples, requested for the above referenced project on 11/14/24. The samples were received cold and intact.
- Level II is also requested.

520385

CHAIN-OF-CUSTODY RECORD

ASSET Laboratories
 3151-3153 W Post Rd., Las Vegas, NV 89118
 www.asset-labs.com
 TEL: 7023072659 FAX: 7023072691



QC Level: Level IV

Subcontractor: Enthalpy Analytical
 931 W. Barkley Ave.
 Orange, CA 92868

Field Sampler: Riggle Tep

TEL: (714) 771-6900
 FAX: (714) 538-1209
 Acct #:

13-Nov-24

Sample ID	Matrix	Date Collected	Bottle Type	SM5310B	Requested Tests	
N069890-001A / MW-20-070-Q424	Groundwater	11/11/2024 1:59:00 PM	8OZA	1		
N069890-002A / MW-20-100-Q424	Groundwater	11/11/2024 3:06:00 PM	8OZA	1		
N069890-003A / MW-20-130-Q424	Groundwater	11/11/2024 2:34:00 PM	8OZA	1		
N069890-004A / MW-71-035-Q424	Groundwater	11/11/2024 12:38:00 PM	8OZA	1		
N069890-005A / MW-923-Q424	Groundwater	11/11/2024 12:48:00 PM	8OZA	1		
N069890-006A / MW-21-Q424	Groundwater	11/11/2024 1:22:00 PM	8OZA	1		
N069890-007A / MW-76-039-Q424	Groundwater	11/11/2024 2:43:00 PM	8OZA	1		
N069890-008A / MW-76-156-Q424	Groundwater	11/11/2024 1:18:00 PM	8OZA	1		MS/MSD
N069890-009A / MW-76-181-Q424	Groundwater	11/11/2024 1:46:00 PM	8OZA	1		
N069890-010A / MW-76-218-Q424	Groundwater	11/11/2024 2:07:00 PM	8OZA	1		
N069890-011A / MW-31-060-Q424	Groundwater	11/11/2024 2:17:00 PM	8OZA	1		
N069890-012A / MW-914-Q424	Groundwater	11/11/2024 1:07:00 PM	8OZA	1		
N069890-013A / MW-31-135-Q424	Groundwater	11/11/2024 1:07:00 PM	8OZA	1		

General Comments: PLEASE EMAIL SAMPLE RECEIPT ACKNOWLEDGEMENT TO THE PM. ALWAYS CC: sonny.lorenzo@assetlaboratories.com
 Please use PO#: N69890A Please email Invoices and Account Receivable Statements to elvira@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.N@assetlaboratories.com by: Standard TAT
 Please analyze for TOC by SM5310B. EDD requirement Labspec7 edata.

GLS#: 562256094

Relinquished by: <i>Efanegof</i>	Date/Time: 11/13/2024 1600
Received by: <i>Erin Kelly TIS KAH</i>	Date/Time: 11/14/24 1000
Relinquished by:	Date/Time:
Received by:	Date/Time:

SAMPLE RECEIPT CHECKLIST


Section 1: General Info

 Date Received: 11/14/24 WO# 520385 Client: Asset Labs
Section 2: Shipping / Custody

 Are custody seals present? Yes No

 Custody seals intact on arrival? N/A Yes No On cooler / box On samples

Shipping Info: _____

Section 3a: Condition / Packaging
 Outside 0.0 - 6.0°C (0.0 - 10.0°C for microbiology) (PM notified)

 Date Opened 11/14/24 By (initials) TLK Type of ice used : Wet Blue/Gel None

 Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatures)

 Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures)

 If no cooler: Observed/Adjusted Temp (°C): _____ / _____ Thermometer/IR Gun: IR11 CF: +0.1

 Cooler Temp (°C) #1: 4.8 / 4.9 #2: _____ / _____ #3: _____ / _____ #4: _____ / _____ #5: _____ / _____ #6: _____ / _____

Section 3b: Microbiology Samples
 No microbiology samples submitted (skip 3b)

 Within temp range 0.0 - 10.0°C or received on ice directly from field.

 Adequate headspace for microbiology analysis.

Section 3c: Air Samples
 No air samples submitted (skip 3c)

 1.4L Canisters 6L Canisters Tedlar Bags MCE Cassettes Sorbent Tubes Other _____

Section 4: Containers / Labels / Samples

YES	NO	N/A
x		
x		
x		
x		
x		
x		
x		
x		
x		
		x
		x

	YES	NO	N/A
1) Were custody papers present, filled properly, and legible?	x		
2) Is the sampler's name present on the CoC?	x		
3) Were containers received in good condition (unbroken / unopened / uncompromised)?	x		
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)	x		
5) Were all of, and only, the correct samples received?	x		
6) Are sample labels present, legible, and in agreement with the CoC?	x		
7) Does the container count match the CoC?	x		
8) Was sufficient sample volume / mass received for the analyses requested?	x		
9) Were samples received in proper containers for the analyses requested?	x		
10) Were samples received with > 1/2 holding time remaining?	x		
11) Are samples properly preserved as indicated by CoC / labels?	x		
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?			x
13) Are VOA vials free from headspace/bubbles > 6mm?			x

Section 5: Explanations / Comments
 PM notified

Date Logged 11/14/24 By (print) Tris Kelly (sign) *Tris Kelly*
 Date Labeled 11/14/24 By (print) Nicole Mendoza (sign) *Nicole Mendoza*



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www.gls-us.com

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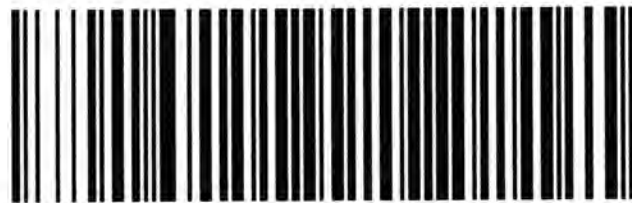


Ship To
ENHALPY ANALYTICAL
SAMPLE RECEIVING
931 W. BARKLEY AVE
ORANGE, CA 92868

ORANGE

S10219D

COD: \$0.00
Weight: 0 lb(s)
Reference:



19702793

Delivery Instructions:

Signature Type: STANDARD

ORC CA927-RD0

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Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

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TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

Analysis Results for 520385

Sonny Lorenzo
 Asset Laboratories
 11110 Artersia Blvd,
 Suite B
 Cerritos, CA 90703

Lab Job #: 520385
 Location: N069890
 Date Received: 11/14/24

Sample ID: N069890-001A / MW-20-070-Q424 **Lab ID:** 520385-001 **Collected:** 11/11/24 13:59
Matrix: Water

520385-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	ND		mg/L	1.0	1	355688	11/16/24	11/17/24	EPL

Sample ID: N069890-002A / MW-20-100-Q424 **Lab ID:** 520385-002 **Collected:** 11/11/24 15:06
Matrix: Water

520385-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	1.8		mg/L	1.0	1	355688	11/16/24	11/17/24	EPL

Sample ID: N069890-003A / MW-20-130-Q424 **Lab ID:** 520385-003 **Collected:** 11/11/24 14:34
Matrix: Water

520385-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	1.5		mg/L	1.0	1	355688	11/16/24	11/17/24	EPL

Sample ID: N069890-004A / MW-71-035-Q424 **Lab ID:** 520385-004 **Collected:** 11/11/24 12:38
Matrix: Water

520385-004 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	5.9		mg/L	1.0	1	355688	11/16/24	11/17/24	EPL

Sample ID: N069890-005A / MW-923-Q424 **Lab ID:** 520385-005 **Collected:** 11/11/24 12:48
Matrix: Water

520385-005 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	5.2		mg/L	1.0	1	355688	11/16/24	11/17/24	EPL

Analysis Results for 520385

Sample ID: N069890-006A / MW-21-Q424	Lab ID: 520385-006 Matrix: Water	Collected: 11/11/24 13:22
--	---	----------------------------------

520385-006 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	8.3		mg/L	1.0	1	355688	11/16/24	11/17/24	EPL

Sample ID: N069890-007A / MW-76-039-Q424	Lab ID: 520385-007 Matrix: Water	Collected: 11/11/24 14:43
--	---	----------------------------------

520385-007 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	2.0		mg/L	1.0	1	355688	11/16/24	11/17/24	EPL

Sample ID: N069890-008A / MW-76-156-Q424	Lab ID: 520385-008 Matrix: Water	Collected: 11/11/24 13:54
--	---	----------------------------------

520385-008 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	3.0		mg/L	1.0	1	355688	11/16/24	11/17/24	EPL

Sample ID: N069890-009A / MW-76-181-Q424	Lab ID: 520385-009 Matrix: Water	Collected: 11/11/24 13:18
--	---	----------------------------------

520385-009 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	3.3		mg/L	1.0	1	355688	11/16/24	11/17/24	EPL

Sample ID: N069890-010A / MW-76-218-Q424	Lab ID: 520385-010 Matrix: Water	Collected: 11/11/24 12:46
--	---	----------------------------------

520385-010 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	3.3		mg/L	1.0	1	355688	11/16/24	11/17/24	EPL

Sample ID: N069890-011A / MW-31-060-Q424	Lab ID: 520385-011 Matrix: Water	Collected: 11/11/24 14:07
--	---	----------------------------------

520385-011 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	3.1		mg/L	1.0	1	355688	11/16/24	11/17/24	EPL

Analysis Results for 520385

Sample ID: N069890-012A / MW-914-Q424	Lab ID: 520385-012 Matrix: Water	Collected: 11/11/24 14:17
---	---	----------------------------------

520385-012 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	3.5		mg/L	1.0	1	355688	11/16/24	11/17/24	EPL

Sample ID: N069890-013A / MW-31-135-Q424	Lab ID: 520385-013 Matrix: Water	Collected: 11/11/24 13:07
--	---	----------------------------------

520385-013 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	1.7		mg/L	1.0	1	355688	11/16/24	11/17/24	EPL

ND Not Detected

Batch QC

Type: Blank	Lab ID: QC1204802	Batch: 355688
Matrix: Water	Method: SM 5310B	Prep Method: SM 5310B

QC1204802 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Total Organic Carbon	ND		mg/L	1.0	11/16/24	11/17/24

Type: Lab Control Sample	Lab ID: QC1204803	Batch: 355688
Matrix: Water	Method: SM 5310B	Prep Method: SM 5310B

QC1204803 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Organic Carbon	24.11	25.00	mg/L	96%		80-120

Type: Matrix Spike	Lab ID: QC1204804	Batch: 355688
Matrix (Source ID): Water (520385-008)	Method: SM 5310B	Prep Method: SM 5310B

QC1204804 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Total Organic Carbon	28.84	2.983	25.00	mg/L	103%		80-120	1

Type: Matrix Spike Duplicate	Lab ID: QC1204805	Batch: 355688
Matrix (Source ID): Water (520385-008)	Method: SM 5310B	Prep Method: SM 5310B

QC1204805 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Total Organic Carbon	28.41	2.983	25.00	mg/L	102%		80-120	2	20	1

ND Not Detected

ARCADIS

Project: PG&E Topock - PCM

Project No.: 30211191

ASSET Laboratories Work Order:

N069891

ANALYTICAL and QC RESULTS SAMPLE RECEIVING ITEMS

PRIVILEGED AND CONFIDENTIAL



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ASSET Laboratories Work Order: N069891

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December 02, 2024

Laura Madsen
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661
TEL: 1 720 344 3771
FAX:

Workorder No.: N069891

RE: PG&E Topock - PCM, 30211191

Attention: Laura Madsen

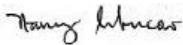
Enclosed are the results for sample(s) received on November 11, 2024 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

The reported results relate only to the samples as received and parameters tested by the laboratory.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,



Nancy Sibucio
Laboratory Director

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CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30211191
Lab Order: N069891

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 218.6:

Dilution was necessary for some samples due to matrix interference. Samples were analyzed at lower dilution however matrix spike recovery and/or retention time criteria were not met indicating possible matrix interference. Samples were reported at dilution that meets matrix spike recovery limit and the detected peak within retention time window.

Because the results for total dissolved chromium (2.5 ug/L) and hexavalent chromium (1.7 ug/L) for sample N069891-004(MW-71-035-Q424) are discrepant, sample re-analysis and Matrix Spike protocol were performed and result confirmed initial analysis.

Analytical Comments for EPA 300.0:

Dilution was necessary due to precipitation of samples upon the addition of eluent.

Analytical Comments for EPA 6010B_Dissolved:

RPD for Matrix Spike (MS) and Matrix Spike Duplicate (MSD) is outside criteria. Analyte recovery on both met acceptance criteria.

Analytical Comments for EPA 6020_Dissolved:

Because the results for total dissolved chromium (2.5 ug/L) and hexavalent chromium (1.7 ug/L) for sample N069891-004(MW-71-035-Q424) are discrepant, sample from both the total dissolved chromium and hexavalent chromium containers were redigested and analyzed for total dissolved



CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30211191
Lab Order: N069891

CASE NARRATIVE

chromium. The results from the redigested samples were 2.4 and 1.9 ug/L, respectively. Since these data confirmed the original result for total dissolved chromium, the original result is reported.



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ASSET Laboratories

Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30211191
Lab Order: N069891
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N069891-001A	MW-20-070-Q424	Groundwater	11/11/2024 1:59:00 PM	11/11/2024	12/2/2024
N069891-001B	MW-20-070-Q424	Groundwater	11/11/2024 1:59:00 PM	11/11/2024	12/2/2024
N069891-001C	MW-20-070-Q424	Groundwater	11/11/2024 1:59:00 PM	11/11/2024	12/2/2024
N069891-002A	MW-20-100-Q424	Groundwater	11/11/2024 3:06:00 PM	11/11/2024	12/2/2024
N069891-002B	MW-20-100-Q424	Groundwater	11/11/2024 3:06:00 PM	11/11/2024	12/2/2024
N069891-002C	MW-20-100-Q424	Groundwater	11/11/2024 3:06:00 PM	11/11/2024	12/2/2024
N069891-003A	MW-20-130-Q424	Groundwater	11/11/2024 2:34:00 PM	11/11/2024	12/2/2024
N069891-003B	MW-20-130-Q424	Groundwater	11/11/2024 2:34:00 PM	11/11/2024	12/2/2024
N069891-003C	MW-20-130-Q424	Groundwater	11/11/2024 2:34:00 PM	11/11/2024	12/2/2024
N069891-004A	MW-71-035-Q424	Groundwater	11/11/2024 12:38:00 PM	11/11/2024	12/2/2024
N069891-004B	MW-71-035-Q424	Groundwater	11/11/2024 12:38:00 PM	11/11/2024	12/2/2024
N069891-004C	MW-71-035-Q424	Groundwater	11/11/2024 12:38:00 PM	11/11/2024	12/2/2024
N069891-005A	MW-923-Q424	Groundwater	11/11/2024 12:48:00 PM	11/11/2024	12/2/2024
N069891-005B	MW-923-Q424	Groundwater	11/11/2024 12:48:00 PM	11/11/2024	12/2/2024
N069891-005C	MW-923-Q424	Groundwater	11/11/2024 12:48:00 PM	11/11/2024	12/2/2024
N069891-006A	MW-21-EB-Q424	Groundwater	11/11/2024 1:00:00 PM	11/11/2024	12/2/2024
N069891-007A	MW-21-Q424	Groundwater	11/11/2024 1:22:00 PM	11/11/2024	12/2/2024
N069891-007B	MW-21-Q424	Groundwater	11/11/2024 1:22:00 PM	11/11/2024	12/2/2024
N069891-007C	MW-21-Q424	Groundwater	11/11/2024 1:22:00 PM	11/11/2024	12/2/2024
N069891-008A	EB-719-Q424	Groundwater	11/11/2024 3:16:00 PM	11/11/2024	12/2/2024
N069891-009A	MW-76-039-Q424	Groundwater	11/11/2024 2:43:00 PM	11/11/2024	12/2/2024
N069891-009B	MW-76-039-Q424	Groundwater	11/11/2024 2:43:00 PM	11/11/2024	12/2/2024
N069891-009C	MW-76-039-Q424	Groundwater	11/11/2024 2:43:00 PM	11/11/2024	12/2/2024
N069891-010A	MW-76-156-Q424	Groundwater	11/11/2024 1:54:00 PM	11/11/2024	12/2/2024
N069891-010B	MW-76-156-Q424	Groundwater	11/11/2024 1:54:00 PM	11/11/2024	12/2/2024
N069891-010C	MW-76-156-Q424	Groundwater	11/11/2024 1:54:00 PM	11/11/2024	12/2/2024
N069891-011A	MW-76-181-Q424	Groundwater	11/11/2024 1:18:00 PM	11/11/2024	12/2/2024
N069891-011B	MW-76-181-Q424	Groundwater	11/11/2024 1:18:00 PM	11/11/2024	12/2/2024
N069891-011C	MW-76-181-Q424	Groundwater	11/11/2024 1:18:00 PM	11/11/2024	12/2/2024



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CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PCM, 30211191
Lab Order: N069891
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N069891-012A	MW-76-218-Q424	Groundwater	11/11/2024 12:46:00 PM	11/11/2024	12/2/2024
N069891-012B	MW-76-218-Q424	Groundwater	11/11/2024 12:46:00 PM	11/11/2024	12/2/2024
N069891-012C	MW-76-218-Q424	Groundwater	11/11/2024 12:46:00 PM	11/11/2024	12/2/2024
N069891-013A	EB-720-Q424	Groundwater	11/11/2024 3:25:00 PM	11/11/2024	12/2/2024
N069891-014A	MW-31-060-Q424	Groundwater	11/11/2024 2:07:00 PM	11/11/2024	12/2/2024
N069891-014B	MW-31-060-Q424	Groundwater	11/11/2024 2:07:00 PM	11/11/2024	12/2/2024
N069891-014C	MW-31-060-Q424	Groundwater	11/11/2024 2:07:00 PM	11/11/2024	12/2/2024
N069891-015A	MW-914-Q424	Groundwater	11/11/2024 2:17:00 PM	11/11/2024	12/2/2024
N069891-015B	MW-914-Q424	Groundwater	11/11/2024 2:17:00 PM	11/11/2024	12/2/2024
N069891-015C	MW-914-Q424	Groundwater	11/11/2024 2:17:00 PM	11/11/2024	12/2/2024
N069891-016A	MW-31-135-Q424	Groundwater	11/11/2024 1:07:00 PM	11/11/2024	12/2/2024
N069891-016B	MW-31-135-Q424	Groundwater	11/11/2024 1:07:00 PM	11/11/2024	12/2/2024
N069891-016C	MW-31-135-Q424	Groundwater	11/11/2024 1:07:00 PM	11/11/2024	12/2/2024
N069891-017A	EB-721-Q424	Groundwater	11/11/2024 2:30:00 PM	11/11/2024	12/2/2024



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-001

Client Sample ID: MW-20-070-Q424
Collection Date: 11/11/2024 1:59:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
				EPA 218.6			
RunID: NV00922-IC7_241112A	QC Batch: R195583		PrepDate:		Analyst: RAB		
Hexavalent Chromium	260	1.9	10	µg/L	50	11/12/2024 04:02 PM	
DISSOLVED METALS BY ICP-MS							
EPA 3010A				EPA 6020			
RunID: NV00922-ICP8_241114F	QC Batch: 114060		PrepDate: 11/12/2024		Analyst: DJ		
Chromium	310	1.3	10	µg/L	10	11/15/2024 02:48 AM	

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-002

Client Sample ID: MW-20-100-Q424
Collection Date: 11/11/2024 3:06:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241112A	QC Batch: R195583				PrepDate:		Analyst: RAB
Hexavalent Chromium	2200	19	100		µg/L	500	11/12/2024 04:20 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241114F	QC Batch: 114060				PrepDate: 11/12/2024		Analyst: DJ
Chromium	2500	13	100		µg/L	100	11/15/2024 03:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-003

Client Sample ID: MW-20-130-Q424
Collection Date: 11/11/2024 2:34:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
				EPA 218.6			
RunID: NV00922-IC7_241112A	QC Batch: R195583	PrepDate: Analyst: RAB					
Hexavalent Chromium	1100	7.7	40		µg/L	200	11/12/2024 04:58 PM
DISSOLVED METALS BY ICP-MS							
				EPA 3010A			
				EPA 6020			
RunID: NV00922-ICP8_241114F	QC Batch: 114060	PrepDate: 11/12/2024 Analyst: DJ					
Chromium	1300	1.3	10		µg/L	10	11/15/2024 03:23 AM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-004

Client Sample ID: MW-71-035-Q424
Collection Date: 11/11/2024 12:38:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241112A	QC Batch: R195583				PrepDate:		Analyst: RAB
Hexavalent Chromium	1.7	0.039	0.20		µg/L	1	11/12/2024 05:30 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241113C	QC Batch: 114060				PrepDate: 11/12/2024		Analyst: DJ
Chromium	2.5	0.13	1.0		µg/L	1	11/14/2024 02:26 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-005

Client Sample ID: MW-923-Q424
Collection Date: 11/11/2024 12:48:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241112A	QC Batch: R195583				PrepDate:		Analyst: RAB
Hexavalent Chromium	1.6	0.039	0.20		µg/L	1	11/12/2024 06:09 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241113C	QC Batch: 114060				PrepDate: 11/12/2024		Analyst: DJ
Chromium	2.2	0.13	1.0		µg/L	1	11/14/2024 02:49 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-006

Client Sample ID: MW-21-EB-Q424
Collection Date: 11/11/2024 1:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241113A	QC Batch: R195632			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	11/13/2024 01:27 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-007

Client Sample ID: MW-21-Q424
Collection Date: 11/11/2024 1:22:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
				EPA 218.6			
RunID: NV00922-IC7_241112A	QC Batch: R195583			PrepDate:	Analyst: RAB		
Hexavalent Chromium	ND	0.19	1.0	µg/L	5	11/12/2024 08:05 PM	
DISSOLVED METALS BY ICP-MS							
				EPA 6020			
RunID: NV00922-ICP8_241113C	QC Batch: 114060			PrepDate: 11/12/2024	Analyst: DJ		
Chromium	ND	0.13	1.0	µg/L	1	11/14/2024 02:55 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-008

Client Sample ID: EB-719-Q424
Collection Date: 11/11/2024 3:16:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241112A	QC Batch: R195583			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	11/12/2024 07:09 PM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-009

Client Sample ID: MW-76-039-Q424
Collection Date: 11/11/2024 2:43:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
				EPA 218.6			
RunID: NV00922-IC7_241113A	QC Batch: R195632		PrepDate:		Analyst: RAB		
Hexavalent Chromium	0.50	0.039	0.20		µg/L	1	11/13/2024 01:46 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A				EPA 6020			
RunID: NV00922-ICP8_241113C	QC Batch: 114060		PrepDate: 11/12/2024		Analyst: DJ		
Chromium	ND	0.13	1.0		µg/L	1	11/14/2024 03:01 AM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT:	ARCADIS U.S., Inc. - California	Client Sample ID:	MW-76-156-Q424
Lab Order:	N069891		
Project:	PG&E Topock - PCM, 30211191	Collection Date:	11/11/2024 1:54:00 PM
Lab ID:	N069891-010	Matrix:	GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
				EPA 218.6			
RunID: NV00922-IC7_241112A	QC Batch: R195583			PrepDate:	Analyst: RAB		
Hexavalent Chromium	ND	0.19	1.0	µg/L	5	11/12/2024 02:10 PM	
DISSOLVED METALS BY ICP-MS							
				EPA 6020			
RunID: NV00922-ICP8_241113C	QC Batch: 114060			PrepDate: 11/12/2024	Analyst: DJ		
Chromium	ND	0.13	1.0	µg/L	1	11/14/2024 03:07 AM	

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out	(M)	Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-011

Client Sample ID: MW-76-181-Q424
Collection Date: 11/11/2024 1:18:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
				EPA 218.6			
RunID: NV00922-IC7_241112A	QC Batch: R195583			PrepDate:	Analyst: RAB		
Hexavalent Chromium	ND	0.19	1.0	µg/L	5	11/12/2024 09:02 PM	
DISSOLVED METALS BY ICP-MS							
				EPA 6020			
RunID: NV00922-ICP8_241113C	QC Batch: 114060			PrepDate: 11/12/2024	Analyst: DJ		
Chromium	ND	0.13	1.0	µg/L	1	11/14/2024 03:37 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-012

Client Sample ID: MW-76-218-Q424
Collection Date: 11/11/2024 12:46:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
				EPA 218.6			
RunID: NV00922-IC7_241113A	QC Batch: R195632		PrepDate:		Analyst: RAB		
Hexavalent Chromium	0.25	0.039	0.20		µg/L	1	11/13/2024 02:23 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A				EPA 6020			
RunID: NV00922-ICP8_241113C	QC Batch: 114060		PrepDate: 11/12/2024		Analyst: DJ		
Chromium	ND	0.13	1.0		µg/L	1	11/14/2024 04:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-013

Client Sample ID: EB-720-Q424
Collection Date: 11/11/2024 3:25:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241113A	QC Batch: R195632			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	11/13/2024 04:54 PM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-014

Client Sample ID: MW-31-060-Q424
Collection Date: 11/11/2024 2:07:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241113A	QC Batch: R195632				PrepDate:		Analyst: RAB
Hexavalent Chromium	0.35	0.039	0.20		µg/L	1	11/13/2024 02:42 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241113C	QC Batch: 114060				PrepDate: 11/12/2024		Analyst: DJ
Chromium	ND	0.13	1.0		µg/L	1	11/14/2024 04:06 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-015

Client Sample ID: MW-914-Q424
Collection Date: 11/11/2024 2:17:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241113A	QC Batch: R195632				PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.19	1.0		µg/L	5	11/13/2024 04:35 PM

DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241113C	QC Batch: 114060				PrepDate: 11/12/2024		Analyst: DJ
Chromium	ND	0.13	1.0		µg/L	1	11/14/2024 04:12 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT:	ARCADIS U.S., Inc. - California	Client Sample ID:	MW-31-135-Q424
Lab Order:	N069891		
Project:	PG&E Topock - PCM, 30211191	Collection Date:	11/11/2024 1:07:00 PM
Lab ID:	N069891-016	Matrix:	GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
				EPA 218.6			
RunID: NV00922-IC7_241113A	QC Batch: R195632			PrepDate:	Analyst: RAB		
Hexavalent Chromium	15	0.19	1.0	µg/L	5	11/13/2024 02:05 PM	
DISSOLVED METALS BY ICP-MS							
				EPA 3010A			
				EPA 6020			
RunID: NV00922-ICP8_241113C	QC Batch: 114060			PrepDate: 11/12/2024	Analyst: DJ		
Chromium	16	0.13	1.0	µg/L	1	11/14/2024 04:18 AM	

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out	(M)	Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-017

Client Sample ID: EB-721-Q424
Collection Date: 11/11/2024 2:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HEXAVALENT CHROMIUM BY IC

EPA 218.6

RunID: NV00922-IC7_241113A	QC Batch: R195632			PrepDate:		Analyst: RAB
Hexavalent Chromium	ND	0.039	0.20	µg/L	1	11/13/2024 05:32 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID MB-R195583	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195583							
Client ID: PBW	Batch ID: R195583	TestNo: EPA 218.6		Analysis Date: 11/12/2024	SeqNo: 6309046							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.039	0.20									

Sample ID LCS-R195583	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195583							
Client ID: LCSW	Batch ID: R195583	TestNo: EPA 218.6		Analysis Date: 11/12/2024	SeqNo: 6309047							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.794	0.039	0.20	5.000	0	95.9	90	110				

Sample ID N069891-010AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195583							
Client ID: ZZZZZ	Batch ID: R195583	TestNo: EPA 218.6		Analysis Date: 11/12/2024	SeqNo: 6309068							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.121	0.19	1.0	5.000	0	102	90	110				

Sample ID N069891-010AMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195583							
Client ID: ZZZZZ	Batch ID: R195583	TestNo: EPA 218.6		Analysis Date: 11/12/2024	SeqNo: 6309069							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.312	0.19	1.0	5.000	0	106	90	110	5.121	3.65	20	

Sample ID N069891-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195583							
Client ID: ZZZZZ	Batch ID: R195583	TestNo: EPA 218.6		Analysis Date: 11/12/2024	SeqNo: 6309075							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4716.850	19	100	2500	2248	98.8	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069891-003ADUP	SampType: DUP	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195583							
Client ID: ZZZZZZ	Batch ID: R195583	TestNo: EPA 218.6		Analysis Date: 11/12/2024	SeqNo: 6309077							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1121.660	7.7	40						1115	0.565	20	

Sample ID N069891-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195583							
Client ID: ZZZZZZ	Batch ID: R195583	TestNo: EPA 218.6		Analysis Date: 11/12/2024	SeqNo: 6309078							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2072.020	7.7	40	1000	1115	95.7	90	110				

Sample ID N069891-005AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195583							
Client ID: ZZZZZZ	Batch ID: R195583	TestNo: EPA 218.6		Analysis Date: 11/12/2024	SeqNo: 6309081							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	6.670	0.039	0.20	5.000	1.609	101	90	110				

Sample ID N069891-008AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195583							
Client ID: ZZZZZZ	Batch ID: R195583	TestNo: EPA 218.6		Analysis Date: 11/12/2024	SeqNo: 6309085							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.044	0.039	0.20	1.000	0	104	90	110				

Sample ID N069891-007AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195583							
Client ID: ZZZZZZ	Batch ID: R195583	TestNo: EPA 218.6		Analysis Date: 11/12/2024	SeqNo: 6309087							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.473	0.19	1.0	5.000	0.5965	97.5	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| (M) Test is modified | | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069891-011AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195583							
Client ID: ZZZZZ	Batch ID: R195583	TestNo: EPA 218.6	Analysis Date: 11/12/2024	SeqNo: 6309091								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	6.004	0.19	1.0	5.000	0.9660	101	90	110				

Sample ID N069891-004AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195583							
Client ID: ZZZZZ	Batch ID: R195583	TestNo: EPA 218.6	Analysis Date: 11/12/2024	SeqNo: 6309092								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	6.433	0.039	0.20	5.000	1.664	95.4	90	110				

Sample ID N069891-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195583							
Client ID: ZZZZZ	Batch ID: R195583	TestNo: EPA 218.6	Analysis Date: 11/12/2024	SeqNo: 6344669								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	518.825	1.9	10	250.0	258.6	104	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID MB-R195632	SampType: MBLK	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: PBW	Batch ID: R195632	TestNo: EPA 218.6		Analysis Date: 11/13/2024	SeqNo: 6313140							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	ND	0.039	0.20									
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Sample ID LCS-R195632	SampType: LCS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: LCSW	Batch ID: R195632	TestNo: EPA 218.6		Analysis Date: 11/13/2024	SeqNo: 6313141							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	4.824	0.039	0.20	5.000	0	96.5	90	110				
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Sample ID N069927-001BREP	SampType: DUP	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: ZZZZZ	Batch ID: R195632	TestNo: EPA 218.6		Analysis Date: 11/13/2024	SeqNo: 6313148							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	17.628	0.19	1.0						18.53	5.00	20	
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Sample ID N069927-002BMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: ZZZZZ	Batch ID: R195632	TestNo: EPA 218.6		Analysis Date: 11/13/2024	SeqNo: 6313157							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	96.685	0.39	2.0	50.00	45.88	102	90	110				
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Sample ID N069927-002BMSD	SampType: MSD	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: ZZZZZ	Batch ID: R195632	TestNo: EPA 218.6		Analysis Date: 11/13/2024	SeqNo: 6313158							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	95.382	0.39	2.0	50.00	45.88	99.0	90	110	96.68	1.36	20	
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| (M) Test is modified | | |



ASSET LABORATORIES

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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069891-006AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: ZZZZZZ	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313166								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.071	0.039	0.20	1.000	0	107	90	110				

Sample ID N069891-009AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: ZZZZZZ	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313168								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.580	0.039	0.20	1.000	0.5013	108	90	110				

Sample ID N069891-016AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: ZZZZZZ	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313170								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	39.290	0.19	1.0	25.00	15.09	96.8	90	110				

Sample ID N069891-012AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: ZZZZZZ	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313172								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.304	0.039	0.20	1.000	0.2536	105	90	110				

Sample ID N069891-014AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: ZZZZZZ	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313176								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.297	0.039	0.20	1.000	0.3505	94.7	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069543-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: ZZZZZZ	Batch ID: R195632	TestNo: EPA 218.6		Analysis Date: 11/13/2024	SeqNo: 6313178							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.914	0.19	1.0	5.000	0.8085	102	90	110				
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Sample ID N069891-015AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: ZZZZZZ	Batch ID: R195632	TestNo: EPA 218.6		Analysis Date: 11/13/2024	SeqNo: 6313180							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.919	0.19	1.0	5.000	0.5480	107	90	110				
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Sample ID N069891-013AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: ZZZZZZ	Batch ID: R195632	TestNo: EPA 218.6		Analysis Date: 11/13/2024	SeqNo: 6313184							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	1.128	0.039	0.20	1.000	0.1100	102	90	110				
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Sample ID N069891-017AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: ZZZZZZ	Batch ID: R195632	TestNo: EPA 218.6		Analysis Date: 11/13/2024	SeqNo: 6313186							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	1.082	0.039	0.20	1.000	0	108	90	110				
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Sample ID N069889-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: ZZZZZZ	Batch ID: R195632	TestNo: EPA 218.6		Analysis Date: 11/13/2024	SeqNo: 6313190							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium	5.877	0.19	1.0	5.000	0.3770	110	90	110				
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| (M) Test is modified | | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID N069889-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: ZZZZZ	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313192								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.282	0.19	1.0	5.000	0	106	90	110				

Sample ID N069889-003AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: ZZZZZ	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313196								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.999	0.19	1.0	5.000	0.9220	102	90	110				

Sample ID N069923-001AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: ZZZZZ	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313198								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	6.347	0.19	1.0	5.000	1.016	107	90	110				

Sample ID N069923-002AMS	SampType: MS	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632							
Client ID: ZZZZZ	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313200								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	6.876	0.19	1.0	5.000	1.464	108	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID MB-114060	SampType: MBLK	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 11/12/2024	RunNo: 195644							
Client ID: PBW	Batch ID: 114060	TestNo: EPA 6020	EPA 3010A	Analysis Date: 11/14/2024	SeqNo: 6314097							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium ND 0.13 1.0

Sample ID LCS-114060	SampType: LCS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 11/12/2024	RunNo: 195644							
Client ID: LCSW	Batch ID: 114060	TestNo: EPA 6020	EPA 3010A	Analysis Date: 11/14/2024	SeqNo: 6314098							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 10.072 0.13 1.0 10.00 0 101 85 115

Sample ID N069891-010CMS	SampType: MS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 11/12/2024	RunNo: 195644							
Client ID: ZZZZZ	Batch ID: 114060	TestNo: EPA 6020	EPA 3010A	Analysis Date: 11/14/2024	SeqNo: 6314114							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 9.476 0.13 1.0 10.00 0.1261 93.5 75 125

Sample ID N069891-010CMSD	SampType: MSD	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date: 11/12/2024	RunNo: 195644							
Client ID: ZZZZZ	Batch ID: 114060	TestNo: EPA 6020	EPA 3010A	Analysis Date: 11/14/2024	SeqNo: 6314115							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 9.643 0.13 1.0 10.00 0.1261 95.2 75 125 9.476 1.75 20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

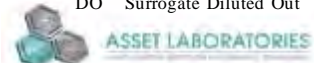
ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID	N069891-010C-PS	SampType:	PS	TestCode:	6020DIS_CrP	Units:	µg/L	Prep Date:		RunNo:	195644			
Client ID:	ZZZZZ	Batch ID:	114060	TestNo:	EPA 6020		EPA 3010A	Analysis Date:	11/14/2024	SeqNo:	6314113			
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium		9.493		0.13	1.0	10.00	0.1261	93.7	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N069891
 Test Method: EPA 6020
 Analysis Date: 11/13/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 114060

Instrument ID: NV00922-ICP8 (ICPMS-03)
 Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Cr. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069891-010C DT 5x	Chromium	Cr	µg/L	0	NA	0.1260805	100.00%	10

Note: NA - Not Applicable

12/02/24 17:00

N069891_6020_114060_DT

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-001

Client Sample ID: MW-20-070-Q424
Collection Date: 11/11/2024 1:59:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241112A	QC Batch: R195541				PrepDate:		Analyst: RAB
Sulfate	280	17	25		mg/L	50	11/12/2024 12:00 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241112A	QC Batch: R195536				PrepDate:		Analyst: RAB
Nitrate as N	9.6	0.24	0.50		mg/L	10	11/12/2024 11:33 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-002

Client Sample ID: MW-20-100-Q424
Collection Date: 11/11/2024 3:06:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241112A	QC Batch: R195541				PrepDate:		Analyst: RAB
Sulfate	430	17	25		mg/L	50	11/12/2024 12:48 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241112A	QC Batch: R195536				PrepDate:		Analyst: RAB
Nitrate as N	6.5	0.24	0.50		mg/L	10	11/12/2024 12:22 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-003

Client Sample ID: MW-20-130-Q424
Collection Date: 11/11/2024 2:34:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241112A	QC Batch: R195541				PrepDate:		Analyst: RAB
Sulfate	610	17	25		mg/L	50	11/12/2024 01:04 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241112A	QC Batch: R195536				PrepDate:		Analyst: RAB
Nitrate as N	2.7	0.24	0.50		mg/L	10	11/12/2024 12:38 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-004

Client Sample ID: MW-71-035-Q424
Collection Date: 11/11/2024 12:38:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241112A	QC Batch: R195541				PrepDate:		Analyst: RAB
Sulfate	1100	34	50		mg/L	100	11/12/2024 01:20 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241112A	QC Batch: R195536				PrepDate:		Analyst: RAB
Nitrate as N	6.9	0.24	0.50		mg/L	10	11/12/2024 12:54 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-005

Client Sample ID: MW-923-Q424
Collection Date: 11/11/2024 12:48:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241112A	QC Batch: R195541				PrepDate:		Analyst: RAB
Sulfate	1100	34	50		mg/L	100	11/12/2024 01:36 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241112A	QC Batch: R195536				PrepDate:		Analyst: RAB
Nitrate as N	7.3	0.24	0.50		mg/L	10	11/12/2024 01:11 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-007

Client Sample ID: MW-21-Q424
Collection Date: 11/11/2024 1:22:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241112A	QC Batch: R195541				PrepDate:		Analyst: RAB
Sulfate	750	34	50		mg/L	100	11/12/2024 01:52 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241112A	QC Batch: R195536				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	11/12/2024 01:27 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-009

Client Sample ID: MW-76-039-Q424
Collection Date: 11/11/2024 2:43:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241112A	QC Batch: R195541				PrepDate:		Analyst: RAB
Sulfate	350	17	25		mg/L	50	11/12/2024 02:08 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241112A	QC Batch: R195536				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	11/12/2024 01:43 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-010

Client Sample ID: MW-76-156-Q424
Collection Date: 11/11/2024 1:54:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241112A	QC Batch: R195541						Analyst: RAB
Sulfate	370	17	25		mg/L	50	11/12/2024 10:25 AM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241112A	QC Batch: R195536						Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	11/12/2024 09:55 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-011

Client Sample ID: MW-76-181-Q424
Collection Date: 11/11/2024 1:18:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241112A	QC Batch: R195541				PrepDate:		Analyst: RAB
Sulfate	360	17	25		mg/L	50	11/12/2024 02:24 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241112A	QC Batch: R195536				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	11/12/2024 02:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-012

Client Sample ID: MW-76-218-Q424
Collection Date: 11/11/2024 12:46:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241112A	QC Batch: R195541				PrepDate:		Analyst: RAB
Sulfate	380	17	25		mg/L	50	11/12/2024 02:40 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241112A	QC Batch: R195536				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	11/12/2024 02:16 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-014

Client Sample ID: MW-31-060-Q424
Collection Date: 11/11/2024 2:07:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: **NV00922-IC9_241112A** QC Batch: **R195541** PrepDate: Analyst: **RAB**
 Sulfate 330 17 25 mg/L 50 11/12/2024 11:13 AM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: **NV00922-IC8_241112A** QC Batch: **R195536** PrepDate: Analyst: **RAB**
 Nitrate as N ND 0.24 0.50 mg/L 10 11/12/2024 10:44 AM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
 S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
 DO Surrogate Diluted Out (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-015

Client Sample ID: MW-914-Q424
Collection Date: 11/11/2024 2:17:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241112A	QC Batch: R195541				PrepDate:		Analyst: RAB
Sulfate	270	17	25		mg/L	50	11/12/2024 02:56 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241112A	QC Batch: R195536				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	11/12/2024 02:32 PM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-016

Client Sample ID: MW-31-135-Q424
Collection Date: 11/11/2024 1:07:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC9_241112A	QC Batch: R195541				PrepDate:		Analyst: RAB
Sulfate	440	17	25		mg/L	50	11/12/2024 03:12 PM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

RunID: NV00922-IC8_241112A	QC Batch: R195536				PrepDate:		Analyst: RAB
Nitrate as N	ND	0.24	0.50		mg/L	10	11/12/2024 02:49 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID	LCS-R195541_SO4	SampType: LCS	TestCode: 300_W_SO4P Units: mg/L				Prep Date:			RunNo: 195541			
Client ID:	LCSW	Batch ID: R195541	TestNo: EPA 300.0				Analysis Date: 11/12/2024			SeqNo: 6306951			
Analyte		Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		4.245	0.34	0.50	4.000	0	106	90	110				

Sample ID	MB-R195541_SO4	SampType: MBLK	TestCode: 300_W_SO4P Units: mg/L				Prep Date:			RunNo: 195541			
Client ID:	PBW	Batch ID: R195541	TestNo: EPA 300.0				Analysis Date: 11/12/2024			SeqNo: 6306952			
Analyte		Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		ND	0.34	0.50									

Sample ID	N069891-010BMS	SampType: MS	TestCode: 300_W_SO4P Units: mg/L				Prep Date:			RunNo: 195541			
Client ID:	ZZZZZ	Batch ID: R195541	TestNo: EPA 300.0				Analysis Date: 11/12/2024			SeqNo: 6306954			
Analyte		Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		571.180	17	25	200.0	366.8	102	80	120				

Sample ID	N069891-010BMSD	SampType: MSD	TestCode: 300_W_SO4P Units: mg/L				Prep Date:			RunNo: 195541			
Client ID:	ZZZZZ	Batch ID: R195541	TestNo: EPA 300.0				Analysis Date: 11/12/2024			SeqNo: 6306955			
Analyte		Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		573.705	17	25	200.0	366.8	103	80	120	571.2	0.441	20	

Sample ID	N069891-014BDUP	SampType: DUP	TestCode: 300_W_SO4P Units: mg/L				Prep Date:			RunNo: 195541			
Client ID:	ZZZZZ	Batch ID: R195541	TestNo: EPA 300.0				Analysis Date: 11/12/2024			SeqNo: 6306957			
Analyte		Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate		331.505	17	25						333.3	0.551	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID N069891-014BMS	SampType: MS	TestCode: 300_W_SO4P Units: mg/L	Prep Date:	RunNo: 195541								
Client ID: ZZZZZZ	Batch ID: R195541	TestNo: EPA 300.0	Analysis Date: 11/12/2024	SeqNo: 6306958								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	540.705	17	25	200.0	333.3	104	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID	LCS-R195536_NO3	SampType: LCS	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195536						
Client ID:	LCSW	Batch ID: R195536	TestNo: EPA 300.0	Analysis Date: 11/12/2024	SeqNo: 6306561							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.204	0.024	0.050	1.250	0	96.3	90	110				

Sample ID	MB-R195536_NO3	SampType: MBLK	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195536						
Client ID:	PBW	Batch ID: R195536	TestNo: EPA 300.0	Analysis Date: 11/12/2024	SeqNo: 6306562							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	ND	0.024	0.050									

Sample ID	N069891-010BMS	SampType: MS	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195536						
Client ID:	ZZZZZ	Batch ID: R195536	TestNo: EPA 300.0	Analysis Date: 11/12/2024	SeqNo: 6306564							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	12.092	0.24	0.50	12.50	0	96.7	80	120				

Sample ID	N069891-010BMSD	SampType: MSD	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195536						
Client ID:	ZZZZZ	Batch ID: R195536	TestNo: EPA 300.0	Analysis Date: 11/12/2024	SeqNo: 6306565							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	12.039	0.24	0.50	12.50	0	96.3	80	120	12.09	0.439	20	

Sample ID	N069891-014BDUP	SampType: DUP	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195536						
Client ID:	ZZZZZ	Batch ID: R195536	TestNo: EPA 300.0	Analysis Date: 11/12/2024	SeqNo: 6306567							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	ND	0.24	0.50						0	0	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID N069891-014BMS	SampType: MS	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195536							
Client ID: ZZZZZZ	Batch ID: R195536	TestNo: EPA 300.0		Analysis Date: 11/12/2024	SeqNo: 6306568							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	13.001	0.24	0.50	12.50	0	104	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-001

Client Sample ID: MW-20-070-Q424
Collection Date: 11/11/2024 1:59:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP4_241112C	QC Batch: 114058			PrepDate:	11/12/2024	Analyst: DJ	
Iron	ND	5.8	20		µg/L	1	11/12/2024 05:49 PM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT:	ARCADIS U.S., Inc. - California	Client Sample ID:	MW-20-100-Q424
Lab Order:	N069891		
Project:	PG&E Topock - PCM, 30211191	Collection Date:	11/11/2024 3:06:00 PM
Lab ID:	N069891-002	Matrix:	GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP4_241112C	QC Batch: 114058			PrepDate:	11/12/2024	Analyst: DJ	
Iron	ND	5.8	20		µg/L	1	11/12/2024 05:51 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out	(M)	Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT:	ARCADIS U.S., Inc. - California	Client Sample ID:	MW-20-130-Q424
Lab Order:	N069891		
Project:	PG&E Topock - PCM, 30211191	Collection Date:	11/11/2024 2:34:00 PM
Lab ID:	N069891-003	Matrix:	GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP4_241112C	QC Batch: 114058			PrepDate:	11/12/2024	Analyst: DJ	
Iron	ND	5.8	20		µg/L	1	11/12/2024 05:53 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out	(M)	Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-004

Client Sample ID: MW-71-035-Q424
Collection Date: 11/11/2024 12:38:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP4_241112C	QC Batch: 114058			PrepDate:	11/12/2024	Analyst: DJ	
Iron	ND	5.8	20		µg/L	1	11/12/2024 05:55 PM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-005

Client Sample ID: MW-923-Q424
Collection Date: 11/11/2024 12:48:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP4_241112C	QC Batch: 114058			PrepDate:	11/12/2024	Analyst: DJ	
Iron	ND	5.8	20		µg/L	1	11/12/2024 05:58 PM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-007

Client Sample ID: MW-21-Q424
Collection Date: 11/11/2024 1:22:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP4_241112C	QC Batch: 114058			PrepDate:	11/12/2024	Analyst: DJ	
Iron	2400	5.8	20		µg/L	1	11/12/2024 06:00 PM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT:	ARCADIS U.S., Inc. - California	Client Sample ID:	MW-76-039-Q424
Lab Order:	N069891		
Project:	PG&E Topock - PCM, 30211191	Collection Date:	11/11/2024 2:43:00 PM
Lab ID:	N069891-009	Matrix:	GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP4_241112C	QC Batch: 114058			PrepDate:	11/12/2024	Analyst: DJ	
Iron	28	5.8	20		µg/L	1	11/12/2024 06:02 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out	(M)	Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California	Client Sample ID: MW-76-156-Q424
Lab Order: N069891	
Project: PG&E Topock - PCM, 30211191	Collection Date: 11/11/2024 1:54:00 PM
Lab ID: N069891-010	Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP4_241112C	QC Batch: 114058			PrepDate:	11/12/2024	Analyst: DJ	
Iron	42	5.8	20		µg/L	1	11/12/2024 06:09 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	(M) Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT:	ARCADIS U.S., Inc. - California	Client Sample ID:	MW-76-181-Q424
Lab Order:	N069891		
Project:	PG&E Topock - PCM, 30211191	Collection Date:	11/11/2024 1:18:00 PM
Lab ID:	N069891-011	Matrix:	GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP4_241112C	QC Batch: 114058			PrepDate:	11/12/2024	Analyst: DJ	
Iron	210	5.8	20		µg/L	1	11/12/2024 06:21 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out	(M)	Test is modified



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Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-012

Client Sample ID: MW-76-218-Q424
Collection Date: 11/11/2024 12:46:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP4_241112C	QC Batch: 114058			PrepDate:	11/12/2024	Analyst: DJ	
Iron	120	5.8	20		µg/L	1	11/12/2024 06:23 PM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-014

Client Sample ID: MW-31-060-Q424
Collection Date: 11/11/2024 2:07:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP4_241112C	QC Batch: 114058			PrepDate:	11/12/2024	Analyst: DJ	
Iron	22	5.8	20		µg/L	1	11/12/2024 06:25 PM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-015

Client Sample ID: MW-914-Q424
Collection Date: 11/11/2024 2:17:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP

EPA 3010A

EPA 6010B

RunID: NV00922-ICP4_241112C	QC Batch: 114058			PrepDate: 11/12/2024		Analyst: DJ	
Iron	ND	5.8	20	µg/L	1	11/12/2024 06:27 PM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-016

Client Sample ID: MW-31-135-Q424
Collection Date: 11/11/2024 1:07:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			EPA 6010B			
RunID: NV00922-ICP4_241112C	QC Batch: 114058			PrepDate:	11/12/2024	Analyst: DJ	
Iron	ND	5.8	20		µg/L	1	11/12/2024 06:30 PM

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - S Spike/Surrogate outside of limits due to matrix interference
 - DO Surrogate Diluted Out
 - E Value above quantitation range
 - ND Not Detected at the Reporting Limit
 - Results are wet unless otherwise specified
 - (M) Test is modified



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID MB-114058	SampType: MBLK	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 11/12/2024	RunNo: 195549							
Client ID: PBW	Batch ID: 114058	TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/12/2024	SeqNo: 6307070							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	ND	5.8	20									

Sample ID LCS-114058	SampType: LCS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 11/12/2024	RunNo: 195549							
Client ID: LCSW	Batch ID: 114058	TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/12/2024	SeqNo: 6307071							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	107.400	5.8	20	100.0	0	107	85	115				

Sample ID N069840-003DMS	SampType: MS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 11/12/2024	RunNo: 195549							
Client ID: ZZZZZ	Batch ID: 114058	TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/12/2024	SeqNo: 6307078							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	203.290	5.8	20	100.0	88.17	115	75	125				

Sample ID N069840-003DMSD	SampType: MSD	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 11/12/2024	RunNo: 195549							
Client ID: ZZZZZ	Batch ID: 114058	TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/12/2024	SeqNo: 6307079							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	193.460	5.8	20	100.0	88.17	105	75	125	203.3	4.96	20	

Sample ID N069891-010CMS	SampType: MS	TestCode: 6010_WDPG	Units: µg/L	Prep Date: 11/12/2024	RunNo: 195549							
Client ID: ZZZZZ	Batch ID: 114058	TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/12/2024	SeqNo: 6307097							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	164.700	5.8	20	100.0	42.12	123	75	125				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

Calculations are based on raw values



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPB

Sample ID	N069891-010CMSD	SampType:	MSD	TestCode:	6010_WDPG	Units:	µg/L	Prep Date:	11/12/2024	RunNo:	195549			
Client ID:	ZZZZZZ	Batch ID:	114058	TestNo:	EPA 6010B EPA 3010A	Analysis Date:	11/12/2024	SeqNo:	6307098					
Analyte		Result		MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron		131.880		5.8	20	100.0	42.12	89.8	75	125	164.7	22.1	20	R

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPB

Sample ID N069840-003D-PS	SampType: PS	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195549							
Client ID: ZZZZZ	Batch ID: 114058	TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/12/2024	SeqNo: 6307077							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	204.720	5.8	20	100.0	88.17	117	80	120				

Sample ID N069891-010C-PS	SampType: PS	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195549							
Client ID: ZZZZZ	Batch ID: 114058	TestNo: EPA 6010B EPA 3010A		Analysis Date: 11/12/2024	SeqNo: 6307096							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	154.750	5.8	20	100.0	42.12	113	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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ICP-Metals in Water

Work Order No.: N069889 / N069891
 Test Method: EPA 6010B
 Analysis Date: 11/12/2024

Dilution Test Summary

Matrix: Water
 Batch No.: 114058

Instrument ID: NV00922-ICP4
 Instrument Description: Agilent 5800VDV

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Fe & Fe. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069840-003D DT 5x	Iron	Fe	µg/L	69.75	NA	88.17	20.89%	10
N069891-010C DT 5x	Iron	Fe	µg/L	29.9	NA	42.12	29.01%	10

Note: NA - Not Applicable

12/02/24 11:23



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-001

Client Sample ID: MW-20-070-Q424
Collection Date: 11/11/2024 1:59:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241113A	QC Batch:	114060	PrepDate:	11/12/2024	Analyst:	DJ
Arsenic	2.2	0.067	0.10	µg/L	1	11/14/2024 02:08 AM	
Barium	23	0.050	1.0	µg/L	1	11/15/2024 02:42 AM	
Manganese	5.8	0.046	0.50	µg/L	1	11/14/2024 02:08 AM	
Molybdenum	22	0.063	0.50	µg/L	1	11/14/2024 02:08 AM	
Selenium	6.3	0.29	0.50	µg/L	1	11/14/2024 02:08 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-002

Client Sample ID: MW-20-100-Q424
Collection Date: 11/11/2024 3:06:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241113A	QC Batch:	114060	PrepDate:	11/12/2024	Analyst:	DJ
Arsenic	1.4	0.067	0.10	µg/L	1	11/14/2024 02:14 AM	
Barium	42	0.050	1.0	µg/L	1	11/15/2024 02:54 AM	
Manganese	1.1	0.046	0.50	µg/L	1	11/14/2024 02:14 AM	
Molybdenum	8.3	0.063	0.50	µg/L	1	11/14/2024 02:14 AM	
Selenium	8.3	0.29	0.50	µg/L	1	11/14/2024 02:14 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-003

Client Sample ID: MW-20-130-Q424
Collection Date: 11/11/2024 2:34:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241113A	QC Batch: 114060			PrepDate: 11/12/2024	Analyst: DJ		
Arsenic	2.5	0.067	0.10	µg/L	1	11/14/2024 02:20 AM	
Barium	29	0.050	1.0	µg/L	1	11/15/2024 03:17 AM	
Manganese	1.6	0.046	0.50	µg/L	1	11/14/2024 02:20 AM	
Molybdenum	10	0.063	0.50	µg/L	1	11/14/2024 02:20 AM	
Selenium	8.4	0.29	0.50	µg/L	1	11/14/2024 02:20 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-004

Client Sample ID: MW-71-035-Q424
Collection Date: 11/11/2024 12:38:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241113A	QC Batch:	114060	PrepDate:	11/12/2024	Analyst:	DJ
Arsenic	1.5	0.067	0.10	µg/L	1	11/14/2024 02:26 AM	
Barium	43	0.050	1.0	µg/L	1	11/15/2024 03:29 AM	
Manganese	13	0.046	0.50	µg/L	1	11/14/2024 02:26 AM	
Molybdenum	25	0.063	0.50	µg/L	1	11/14/2024 02:26 AM	
Selenium	5.3	0.29	0.50	µg/L	1	11/14/2024 02:26 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-005

Client Sample ID: MW-923-Q424
Collection Date: 11/11/2024 12:48:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID: NV00922-ICP8_241113A	QC Batch: 114060			PrepDate: 11/12/2024	Analyst: DJ
Arsenic	1.6	0.067	0.10	µg/L	1 11/14/2024 02:49 AM
Barium	43	0.050	1.0	µg/L	1 11/15/2024 03:35 AM
Manganese	13	0.046	0.50	µg/L	1 11/14/2024 02:49 AM
Molybdenum	26	0.063	0.50	µg/L	1 11/14/2024 02:49 AM
Selenium	5.6	0.29	0.50	µg/L	1 11/14/2024 02:49 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-007

Client Sample ID: MW-21-Q424
Collection Date: 11/11/2024 1:22:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241113A	QC Batch:	114060	PrepDate:	11/12/2024	Analyst:	DJ
Arsenic	3.8	0.067	0.10	µg/L	1	11/14/2024 02:55 AM	
Barium	82	0.050	1.0	µg/L	1	11/15/2024 03:41 AM	
Manganese	700	0.46	5.0	µg/L	10	11/15/2024 03:47 AM	
Molybdenum	32	0.063	0.50	µg/L	1	11/14/2024 02:55 AM	
Selenium	ND	0.29	0.50	µg/L	1	11/14/2024 02:55 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-009

Client Sample ID: MW-76-039-Q424
Collection Date: 11/11/2024 2:43:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241113A	QC Batch:	114060	PrepDate:	11/12/2024	Analyst:	DJ
Arsenic	1.1	0.067	0.10	µg/L	1	11/14/2024 03:01 AM	
Barium	110	0.050	1.0	µg/L	1	11/15/2024 03:53 AM	
Manganese	85	0.046	0.50	µg/L	1	11/14/2024 03:01 AM	
Molybdenum	17	0.063	0.50	µg/L	1	11/14/2024 03:01 AM	
Selenium	ND	0.29	0.50	µg/L	1	11/14/2024 03:01 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-010

Client Sample ID: MW-76-156-Q424
Collection Date: 11/11/2024 1:54:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241113A	QC Batch:	114060	PrepDate:	11/12/2024	Analyst:	DJ
Arsenic	1.6	0.067	0.10	µg/L	1	11/14/2024 03:07 AM	
Barium	37	0.050	1.0	µg/L	1	11/15/2024 03:59 AM	
Manganese	44	0.046	0.50	µg/L	1	11/14/2024 03:07 AM	
Molybdenum	10	0.063	0.50	µg/L	1	11/14/2024 03:07 AM	
Selenium	ND	0.29	0.50	µg/L	1	11/14/2024 03:07 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-011

Client Sample ID: MW-76-181-Q424
Collection Date: 11/11/2024 1:18:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241113A	QC Batch:	114060	PrepDate:	11/12/2024	Analyst:	DJ
Arsenic	2.7	0.067	0.10	µg/L	1	11/14/2024 03:37 AM	
Barium	44	0.050	1.0	µg/L	1	11/15/2024 04:40 AM	
Manganese	370	0.46	5.0	µg/L	10	11/15/2024 04:46 AM	
Molybdenum	17	0.063	0.50	µg/L	1	11/14/2024 03:37 AM	
Selenium	ND	0.29	0.50	µg/L	1	11/14/2024 03:37 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-012

Client Sample ID: MW-76-218-Q424
Collection Date: 11/11/2024 12:46:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241113A	QC Batch:	114060	PrepDate:	11/12/2024	Analyst:	DJ
Arsenic	3.7	0.067	0.10	µg/L	1	11/14/2024	04:00 AM
Barium	53	0.050	1.0	µg/L	1	11/15/2024	04:52 AM
Manganese	140	0.046	0.50	µg/L	1	11/14/2024	04:00 AM
Molybdenum	15	0.063	0.50	µg/L	1	11/14/2024	04:00 AM
Selenium	ND	0.29	0.50	µg/L	1	11/14/2024	04:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-014

Client Sample ID: MW-31-060-Q424
Collection Date: 11/11/2024 2:07:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241113A	QC Batch:	114060	PrepDate:	11/12/2024	Analyst:	DJ
Arsenic	0.50	0.067	0.10	µg/L	1	11/14/2024	04:06 AM
Barium	320	0.50	10	µg/L	10	11/15/2024	05:04 AM
Manganese	670	0.46	5.0	µg/L	10	11/15/2024	05:04 AM
Molybdenum	ND	0.063	0.50	µg/L	1	11/14/2024	04:06 AM
Selenium	ND	0.29	0.50	µg/L	1	11/14/2024	04:06 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-015

Client Sample ID: MW-914-Q424
Collection Date: 11/11/2024 2:17:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

RunID: NV00922-ICP8_241119D	EPA 3010A			EPA 6020			Analyst: DJ
	QC Batch: 114060			PrepDate: 11/12/2024			
Arsenic	0.56	0.067	0.10	µg/L	1	11/19/2024 09:39 PM	
Barium	310	0.50	10	µg/L	10	11/15/2024 05:15 AM	
Manganese	640	0.46	5.0	µg/L	10	11/15/2024 05:15 AM	
Molybdenum	ND	0.063	0.50	µg/L	1	11/14/2024 04:12 AM	
Selenium	ND	0.29	0.50	µg/L	1	11/14/2024 04:12 AM	

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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ANALYTICAL RESULTS

Print Date: 02-Dec-24

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N069891
Project: PG&E Topock - PCM, 30211191
Lab ID: N069891-016

Client Sample ID: MW-31-135-Q424
Collection Date: 11/11/2024 1:07:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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DISSOLVED METALS BY ICP-MS

EPA 3010A

EPA 6020

RunID:	NV00922-ICP8_241113A	QC Batch:	114060	PrepDate:	11/12/2024	Analyst:	DJ
Arsenic	3.2	0.067	0.10	µg/L	1	11/14/2024	04:18 AM
Barium	37	0.050	1.0	µg/L	1	11/15/2024	02:36 AM
Manganese	12	0.046	0.50	µg/L	1	11/14/2024	04:18 AM
Molybdenum	17	0.063	0.50	µg/L	1	11/14/2024	04:18 AM
Selenium	ND	0.29	0.50	µg/L	1	11/14/2024	04:18 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified
 (M) Test is modified



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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID MB-114060	SampType: MBLK	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 11/12/2024	RunNo: 195638							
Client ID: PBW	Batch ID: 114060	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/14/2024	SeqNo: 6313656							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.067	0.10									
Manganese	ND	0.046	0.50									
Molybdenum	ND	0.063	0.50									
Selenium	ND	0.29	0.50									

Sample ID LCS-114060	SampType: LCS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 11/12/2024	RunNo: 195638							
Client ID: LCSW	Batch ID: 114060	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/14/2024	SeqNo: 6313657							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.238	0.067	0.10	10.00	0	102	85	115				
Manganese	100.549	0.046	0.50	100.0	0	101	85	115				
Molybdenum	10.350	0.063	0.50	10.00	0	104	85	115				
Selenium	10.123	0.29	0.50	10.00	0	101	85	115				

Sample ID N069891-010CMS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 11/12/2024	RunNo: 195638							
Client ID: ZZZZZ	Batch ID: 114060	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/14/2024	SeqNo: 6313673							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	11.548	0.067	0.10	10.00	1.595	99.5	75	125				
Manganese	134.197	0.046	0.50	100.0	44.07	90.1	75	125				
Molybdenum	21.019	0.063	0.50	10.00	10.36	107	75	125				
Selenium	9.593	0.29	0.50	10.00	0	95.9	75	125				

Sample ID N069891-010CMSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 11/12/2024	RunNo: 195638							
Client ID: ZZZZZ	Batch ID: 114060	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/14/2024	SeqNo: 6313674							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	11.453	0.067	0.10	10.00	1.595	98.6	75	125	11.55	0.828	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

Calculations are based on raw values



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID N069891-010CMSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 11/12/2024	RunNo: 195638							
Client ID: ZZZZZZ	Batch ID: 114060	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/14/2024	SeqNo: 6313674							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	135.532	0.046	0.50	100.0	44.07	91.5	75	125	134.2	0.991	20	
Molybdenum	21.337	0.063	0.50	10.00	10.36	110	75	125	21.02	1.50	20	
Selenium	9.950	0.29	0.50	10.00	0	99.5	75	125	9.593	3.66	20	

Sample ID MB-114060	SampType: MBLK	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 11/12/2024	RunNo: 195742							
Client ID: PBW	Batch ID: 114060	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/15/2024	SeqNo: 6320007							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	ND	0.050	1.0									

Sample ID LCS-114060	SampType: LCS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 11/12/2024	RunNo: 195742							
Client ID: LCSW	Batch ID: 114060	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/15/2024	SeqNo: 6320008							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	10.601	0.050	1.0	10.00	0	106	85	115				

Sample ID N069891-010CMS	SampType: MS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 11/12/2024	RunNo: 195742							
Client ID: ZZZZZZ	Batch ID: 114060	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/15/2024	SeqNo: 6320031							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	45.579	0.050	1.0	10.00	36.88	87.0	75	125				

Sample ID N069891-010CMSD	SampType: MSD	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date: 11/12/2024	RunNo: 195742							
Client ID: ZZZZZZ	Batch ID: 114060	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/15/2024	SeqNo: 6320032							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	46.387	0.050	1.0	10.00	36.88	95.1	75	125	45.58	1.76	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |
| | (M) Test is modified | |



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID N069891-010C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638							
Client ID: ZZZZZZ	Batch ID: 114060	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/14/2024	SeqNo: 6313672							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	12.089	0.067	0.10	10.00	1.595	105	80	120				
Manganese	133.165	0.046	0.50	100.0	44.07	89.1	80	120				
Molybdenum	21.200	0.063	0.50	10.00	10.36	108	80	120				
Selenium	9.508	0.29	0.50	10.00	0	95.1	80	120				

Sample ID N069891-010C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742							
Client ID: ZZZZZZ	Batch ID: 114060	TestNo: EPA 6020 EPA 3010A		Analysis Date: 11/15/2024	SeqNo: 6320030							
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	45.866	0.050	1.0	10.00	36.88	89.9	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified



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ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N069891
 Test Method: EPA 6020
 Analysis Date: 11/13/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 114060

Instrument ID: NV00922-ICP8 (ICPMS-03)
 Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to As, Mo, Se. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069891-010C DT 5x	Arsenic	As	µg/L	1.256096	NA	1.595497	21.27%	10
N069891-010C DT 5x	Manganese	Mn	µg/L	44.44011	PASS	44.07276	0.83%	10
N069891-010C DT 5x	Molybdenum	Mo	µg/L	10.28996	NA	10.35516	0.63%	10
N069891-010C DT 5x	Selenium	Se	µg/L	0	NA	0		10

Note: NA - Not Applicable
 06/06/24 18:06



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DT_EPA 6020_N065281_109066

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ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N069891
 Test Method: EPA 6020
 Analysis Date: 11/14/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 114060

Instrument ID: NV00922-ICP8 (ICPMS-03)
 Instrument Description: Agilent 7800

Comments:

Analyzed By: Diane Jetajobe

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069891-010C DT 5x	Barium	Ba	µg/L	36.81708	PASS	36.87617	0.16%	10

Note: NA - Not Applicable
 06/06/24 18:06



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SAMPLE RECEIVING ITEMS



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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ASSET LABORATORIES

ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CHAIN OF CUSTODY RECORD

Page 1 of 1

ARCUS02
FOLDER

C: 11/26/202 12:00 AM

R: 11/11/2024

N069891-018A

1 of 1



Client: Arcadis		Report to: Laura Madsen		Bill to: Janet Newman		EDD		Excel EDD		RTNE		Y N							
Address: 630 Plaza Dr, Suite 200		Company: Arcadis		Address:		Address:		GeoTracker		RWQCB		1. Chilled							
Address: Highlands Ranch, CO 80129		Email:		Address:		Address:		Labspec		CalTrans		2. Headspace							
Phone: 720-344-3500		Address:		Email to: janet.newman@arcadis.com		P.O.#		Others		LEVEL III		3. Container Intact							
Submitted By: <i>Rizzie Top</i>		Phone: 720-344-3771		Phone: 949 293-2445		Fax:		Specify:		LEVEL IV		4. Seal Present							
Title: <i>Field Tech</i>		Date: 11-11-24		Signature: <i>Rizzie Top</i>		Date: 11-11-24		Global ID:		Regulatory		5. IR number							
Signature: <i>Rizzie Top</i>		Date: 11-11-24		Signature: <i>Rizzie Top</i>		Date: 11-11-24		Global ID:		Specify State:		6. Method of Cooling:							
Project Name: PG&E Topock - PCM		Project Number: 30211191		Sampled By: <i>Rizzie Top</i>		Date: 11-11-24		Global ID:		Specify State:		Sample Temp: <i>10°C / 11.9°C</i>							
I hereby authorize ASSET Labs to perform the tests indicated below.		I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for		Matrix		Ground		X Sediment		250 mL poly		1 L poly							
Potable		Soil		500mL poly		500mL poly		500mL poly		3x40 mL VOA		500mL poly							
NPDES		Other Solid		Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH		Nitrate as N, sulfate (EPA 300.0)		Dissolved metals (SW6020) FF; HNO3 Arsenic, Iron, Barium, Manganese		Dissolved metals (SW6020) FF; HNO3 Total Dissolved Chromium		Dissolved metals (SW6020) FF; HNO3 Molybdenum, Selenium							
Surface				Total Organic Carbon (SM5310C); H2SO4		Dissolved metals (SW6020) FF; HNO3 Arsenic, Manganese		Ammonia as Nitrogen (SM4500NH3); H2SO4		Nitrate as N (EPA 300.0)									
Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH	Nitrate as N, sulfate (EPA 300.0)	Dissolved metals (SW6020) FF; HNO3 Arsenic, Iron, Barium, Manganese	Dissolved metals (SW6020) FF; HNO3 Total Dissolved Chromium	Dissolved metals (SW6020) FF; HNO3 Molybdenum, Selenium	Total Organic Carbon (SM5310C); H2SO4	Dissolved metals (SW6020) FF; HNO3 Arsenic, Manganese	Ammonia as Nitrogen (SM4500NH3); H2SO4	Nitrate as N (EPA 300.0)	Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
1	N069891-001	✓ MW-20-070-Q424	11/11/2024	13:59		X	X	X	X	X					E	3	P	BNS	
2	-002	✓ MW-20-100-Q424	11/11/2024	15:06		X	X	X	X	X					E	3	P	BNS	
3	-003	✓ MW-20-130-Q424	11/11/2024	14:34		X	X	X	X	X					E	3	P	BNS	
4	-004	✓ MW-71-035-Q424	11/11/2024	12:38		X	X	X	X	X					E	3	P	BNS	
5	-005	✓ MW-923-Q424	11/11/2024	12:48		X	X	X	X	X					E	3	P	BNS	
6	-006	✓ MW-21-EB-Q424	11/11/2024	13:00		X									E	1	P	BNS	
7	-007	✓ MW-21-Q424	11/11/2024	13:22		X	X	X	X	X					E	3	P	BNS	
8	-008	✓ EB-719-Q424	11/11/2024	15:16		X									E	1	P	BNS	
9	-009	✓ MW-76-039-Q424	11/11/2024	14:43		X	X	X	X	X					E	3	P	BNS	
10	-010	✓ MW-76-156-Q424	11/11/2024	13:54		X	X	X	X	X					E	3	P	BNS	MSMSD
11	-011	✓ MW-76-181-Q424	11/11/2024	13:18		X	X	X	X	X					E	3	P	BNS	
12	-012	✓ MW-76-218-Q424	11/11/2024	12:46		X	X	X	X	X					E	3	P	BNS	
13	-013	✓ EB-720-Q424	11/11/2024	15:25		X									E	1	P	BNS	
14															E	3	P	BNS	

Relinquished by (Signature and Printed Name): *Rizzie Top* Date/Time: 11-11-24 1556
 Relinquished by (Signature and Printed Name): *Michael Alcantara* Date/Time: 11/11/24
 Relinquished by (Signature and Printed Name): *Michael Alcantara* Date/Time: 11/11/24

Turn Around Time (TAT)
 A < 24 Hrs or Same Day TAT
 B = Next Workday
 C = 2 Workdays
 D = 3 Workdays
 E = Routine 5-7 Workdays

Special Instruction:

Terms
 1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
 2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis.
 3. Less than 24 hrs - 200% Next Day 100% 2 Workdays - 50% 3 Workdays - 35% 4 Workdays - 20%
 4. Custom EDD formats will be an additional 3% of the total project price.
 5. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project.

5. Trip Blanks and Equipment Blanks are billable sample.
 6. Asset Laboratories is not responsible for samples collected using incorrect methodology.
 7. Terms are net 30 days.
 8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.
 9. For subcontract analysis, TAT and Surcharges will vary.

TAT Starts at 8 AM the following day if samples received after 3:00PM.

Preservatives:
 H=HCl N=HNO3 S=H2SO4 C=4°C
 Z=Zn(AC)2 O=NaOH T=Na2S2O3
 Others/Specify: B (NH4)2SO4/NH4OH

Container Type:
 T=Tube V=VOA P=Pin
 J=Jar B=Tedlar G=Glass
 M=Metal M=Metal C=Can

White=Laboratory Copy

Yellow=Customer's Copy



CHAIN OF CUSTODY RECORD

Contact us:
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California: 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436
www.assetlaboratories.com

Client: Arcadis		Report to: Laura Madsen		Bill to: Janet Newman		Address:		EDD Requirement		QA/QC		Sample Receipt Condition	
Address: 630 Plaza Dr, Suite 200		Company: Arcadis		Address:		Excel EDD		RTNE		Geotracker		RWQCB <input checked="" type="checkbox"/>	
Address: Highlands Ranch, CO 80129		Email: laura.madsen@arcadis.com		Address:		Labspec		CalTrans		Others <input checked="" type="checkbox"/>		LEVEL III	
Phone: 720-344-3500		Address:		Email to: janet.newman@arcadis.com		P.O.#		LEVEL IV		Specify:		LEVEL III	
Submitted By: <i>R. Sjogren</i>		Phone: 720-344-3771		Phone: 949 293-2445		Fax:		RWQCB		Regulatory		LEVEL IV	
Title: <i>Field Tek</i>		Fax:		Global ID:		Specify State:		Global ID:		Specify State:		6. Method of Cooling:	
Signature: <i>R. Sjogren</i> Date: <i>11-11-24</i>		Sampled By: <i>R. Sjogren</i>		Matrix		Ground		X Sediment		250 mL poly		1 L poly	
I hereby authorize ASSET Labs to perform the tests indicated below.		I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for		Potable		Soil				500mL poly		500mL poly	
Project Name: PG&E Topock - PCM		Signature: <i>[Signature]</i> Date: <i>11-11-24</i>		NPDES		Other Solid				3x40 mL VOA		125 mL poly	
Project Number: 30211191		Surface		Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH		Nitrate as N, sulfate (EPA 300.0)		Dissolved metals (SW6020) FF: HNO3 Arsenic, Iron, Barium, Manganese		Dissolved metals (SW6020) FF: HNO3 Total Dissolved Chromium		Dissolved metals (SW6020) FF: HNO3 Molybdenum, Selenium	
Item No.		Laboratory Work Order No.		Sample ID/Location		Sample Date		Sample Time		Others		Remarks	
1		N069891-014		✓ MW-31-060-Q424		11/11/2024		14:07				X X X X X	
2		-015		✓ MW-914-Q424		11/11/2024		14:17				X X X X X	
3		-016		✓ MW-31-135-Q424		11/11/2024		13:07				X X X X X	
4		-017		✓ EB-721-Q424		11/11/2024		14:30				X X X X X	
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
Relinquished by (Signature and Printed Name): <i>R. Sjogren</i> Date/Time: <i>11-11-24 1556</i>		Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: <i>11/11/24 1556</i>		Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: <i>11/11/24 1524</i>		Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: <i>11/11/24 1524</i>		Relinquished by (Signature and Printed Name): <i>[Signature]</i> Date/Time: <i>11/11/24 1524</i>		Turn Around Time (TAT)		Special Instruction:	
										<input type="checkbox"/> A < 24 Hrs or Same Day TAT <input type="checkbox"/> B = Next Workday <input type="checkbox"/> C = 2 Workdays <input type="checkbox"/> D = 3 Workdays <input checked="" type="checkbox"/> E = Routine 5-7 Workdays			
TAT Starts at 8 AM the following day if samples received after 3:00PM.		Preservatives:		Container Type:		H=HCL		N=HNO3		S=H2SO4		C=4°C	
T=Tube		V=VOA		P=Pint		Z=Zn(AC)2		O=NaOH		T=Na2S2O3		J=Jar	
B=Teclar		G=Glass		M=Metal		M=Metal		C=Can					
Others/Specify: B (NH4)2SO4/NH4OH													

White=Laboratory Copy

Yellow=Customer's Copy

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On: 11/11/2024 Workorder: N069891
 Rep sample Temp (Deg C): 1.6/1.9 IR Gun ID: 4
 Temp Blank: Yes No
 Carrier name: Walk-In
 Last 4 digits of Tracking No.: N/A Packing Material Used: None
 Cooling process: Ice Ice Pack Dry Ice Other None

Sample Receipt Checklist

- | | | | |
|---|---|-----------------------------|---|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact, signed, dated on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Sampler's name present in COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Temperature of rep sample or Temp Blank within acceptable limit? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 14. Water - pH acceptable upon receipt?
Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 15. Did the bottle labels indicate correct preservatives used? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 16. Were there Non-Conformance issues at login?
Was Client notified? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

Comments:

Checklist Completed By: BB Benyapha B 11/12/2024

Reviewed By: for: *Imayrabius*
MBC11/15/2024

ASSET Laboratories

WORK ORDER Summary

12-Nov-24

WorkOrder: N069891

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30211191

QC Level: Level IV

Date Received: 11/11/2024 6:24 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N069891-001A	MW-20-070-Q424	11/11/2024 1:59:00 PM	11/26/2024	Groundwater	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-001B			11/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-001C			11/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-002A	MW-20-100-Q424	11/11/2024 3:06:00 PM	11/26/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-002B			11/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-002C			11/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-003A	MW-20-130-Q424	11/11/2024 2:34:00 PM	11/26/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-003B			11/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-003C			11/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

12-Nov-24

WorkOrder: N069891

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30211191

QC Level: Level IV

Date Received: 11/11/2024 6:24 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N069891-003C	MW-20-130-Q424	11/11/2024 2:34:00 PM	11/26/2024	Groundwater	EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-004A	MW-71-035-Q424	11/11/2024 12:38:00 PM	11/26/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-004B			11/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-004C			11/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-005A	MW-923-Q424	11/11/2024 12:48:00 PM	11/26/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-005B			11/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-005C			11/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-006A	MW-21-EB-Q424	11/11/2024 1:00:00 PM	11/26/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-007A	MW-21-Q424	11/11/2024 1:22:00 PM	11/26/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-007B			11/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

12-Nov-24

WorkOrder: N069891

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30211191

QC Level: Level IV

Date Received: 11/11/2024 6:24 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N069891-007C	MW-21-Q424	11/11/2024 1:22:00 PM	11/26/2024	Groundwater	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-008A	EB-719-Q424	11/11/2024 3:16:00 PM	11/26/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-009A	MW-76-039-Q424	11/11/2024 2:43:00 PM	11/26/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
11/26/2024				EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
11/26/2024				EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW	
N069891-009C			11/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-010A	MW-76-156-Q424	11/11/2024 1:54:00 PM	11/26/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
11/26/2024				EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW	
11/26/2024				EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW	
N069891-010C			11/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

12-Nov-24

WorkOrder: N069891

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30211191

QC Level: Level IV

Date Received: 11/11/2024 6:24 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N069891-011A	MW-76-181-Q424	11/11/2024 1:18:00 PM	11/26/2024	Groundwater	EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-011B			11/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-011C			11/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-012A	MW-76-218-Q424	11/11/2024 12:46:00 PM	11/26/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-012B			11/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-012C			11/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-013A	EB-720-Q424	11/11/2024 3:25:00 PM	11/26/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-014A	MW-31-060-Q424	11/11/2024 2:07:00 PM	11/26/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-014B			11/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-014C			11/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

ASSET Laboratories

WORK ORDER Summary

12-Nov-24

WorkOrder: N069891

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30211191

QC Level: Level IV

Date Received: 11/11/2024 6:24 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N069891-014C	MW-31-060-Q424	11/11/2024 2:07:00 PM	11/26/2024	Groundwater	EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-015A	MW-914-Q424	11/11/2024 2:17:00 PM	11/26/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-015B			11/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-015C			11/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-016A	MW-31-135-Q424	11/11/2024 1:07:00 PM	11/26/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-016B			11/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-016C			11/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6010B	DISSOLVED METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			11/26/2024		EPA 6020	DISSOLVED METALS BY ICP-MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-017A	EB-721-Q424	11/11/2024 2:30:00 PM	11/26/2024		EPA 218.6	Hexavalent Chromium by IC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N069891-018A	FOLDER	11/26/2024	11/26/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			11/26/2024		Folder	Level IV Report	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

ASSET Laboratories

WORK ORDER Summary

12-Nov-24

WorkOrder: N069891

Client ID: ARCUS02

Project: PG&E Topock - PCM, 30211191

QC Level: Level IV

Date Received: 11/11/2024 6:24 PM

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N069891-018A	FOLDER	11/26/2024	11/26/2024		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

List of Analysts

ASSET Laboratories Work Order: N069891

NAME	TEST METHOD
Ria Abes	EPA 218.6, EPA 300.0
Diane Jetajobe	EPA 6010B_Dissolved, EPA 6020_Dissolved



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EPA 218.6



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IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
REV 2.0
011416

QC Batch Number: R195583
ASSET #: N069891

Instrument ID: NV00922-IC7
Analyst: RBA
Date Analyzed: 11/12/2024

Method:

- | | | | |
|-------------------------------------|-----------|-------------------------------------|------------------------|
| <input checked="" type="checkbox"/> | EPA 300.0 | <input checked="" type="checkbox"/> | EPA 218.6/EPA 218.7 |
| <input type="checkbox"/> | EPA 7199 | <input type="checkbox"/> | EPA 218.6/EPA 218.7 LL |
| | | <input type="checkbox"/> | Others _____ |

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria? (r = 0.995, r = 0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)	X			X		
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?	X			X		
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?	X			X		
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)	X			X		
14. For Hinkley DOM samples, matrix spike protocol performed on all samples ? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?	X				X	
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?		X		X		
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed ?	X			X		
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)	X			X		
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

~~N069891-001A = 26 ppb ; N069891-001C (6020) = 310 ppb~~ N069891-004A = 1.7 ppb ; N069891-004C (6020) = 2.5 ppb
MS protocol performed. Recovery within criteria.

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA

Date: _____

2nd Level Reviewer d/Rocha 11/24/2024

Date: _____



IC Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

IC ARCUS
REV 2.0
011416

QC Batch Number: R195632
ASSET #: N069891

Instrument ID: NV00922-IC7
Analyst: RBA
Date Analyzed: 11/13/2024

Method:

- EPA 300.0
 EPA 7199

- EPA 218.6/EPA 218.7
 EPA 218.6/EPA 218.7 LL
 Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria? (r = 0.995, r = 0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)	X			X		
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?	X					
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?	X			X		
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)	X			X		
14. For Hinkley DOM samples, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?	X			X		
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?	X			X		
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)	X			X		
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA

Date: _____

2nd Level Reviewer NS 11142024

Date: _____

SAMPLE CALCULATION



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Sample Calculation

METHOD: EPA 218.6
TEST NAME: HEXAVALENT CHROMIUM BY IC
MATRIX: Groundwater

FORMULA:

Calculate the Hexavalent Chromium concentration, in $\mu\text{g/L}$, in the original sample as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = A * \text{DF}$$

where:

A = $\mu\text{g/L}$, IC Cr+6 calculated concentration
DF = dilution factor

For Sample **N069891-001A**, the concentration in $\mu\text{g/L}$ is calculated as follows:

$$\text{Cr}^{+6}, \mu\text{g/L} = 5.1720 * 50$$

$$\text{Cr}^{+6}, \mu\text{g/L} = 258.6000$$

Reporting results in two significant figures,

$$\text{Cr}^{+6}, \mu\text{g/L} = 260$$

Reviewed by:

d/Recha 12/30/2024

ANALYSIS RUN LOG



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INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	ICV	ICV	1	Hexavalent Chromium	10/28/24 10:49 AM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/28/24 10:59 AM	Reported
11	ICB	ICB	1	Hexavalent Chromium	10/28/24 11:08 AM	Reported
12	MB-R194895	MBLK	1	Hexavalent Chromium	10/28/24 11:17 AM	Reported
13	LCS-R194895	LCS	1	Hexavalent Chromium	10/28/24 11:27 AM	Reported
14	N069445-001A	SAMP	1	Hexavalent Chromium	10/28/24 11:36 AM	Reported
15	N069445-001AMS	MS	1	Hexavalent Chromium	10/28/24 11:46 AM	Reported
16	N069445-001AMSD	MSD	1	Hexavalent Chromium	10/28/24 11:55 AM	Reported
17	N069445-001ADUP	DUP	1	Hexavalent Chromium	10/28/24 12:05 PM	Reported
18	N069453-001A	SAMP	1	Hexavalent Chromium	10/28/24 12:14 PM	Reported
19	N069453-002A	SAMP	1	Hexavalent Chromium	10/28/24 12:24 PM	Reported
20	N069453-003A	SAMP	1	Hexavalent Chromium	10/28/24 12:33 PM	Reported
21	N069453-004A	SAMP	1	Hexavalent Chromium	10/28/24 12:43 PM	Reported
22	CCV-1	CCV1	1	Hexavalent Chromium	10/28/24 12:52 PM	Reported
23	CCB-1	CCB	1	Hexavalent Chromium	10/28/24 1:02 PM	Reported
24	N069444-001A	SAMP	1	Hexavalent Chromium	10/28/24 1:11 PM	Reported
25	N069444-001AMS	MS	1	Hexavalent Chromium	10/28/24 1:20 PM	Reported
26	N069444-002A	SAMP	1	Hexavalent Chromium	10/28/24 1:30 PM	Reported
27	N069444-002AMS	MS	1	Hexavalent Chromium	10/28/24 1:39 PM	Reported
28	N069444-003A	SAMP	1	Hexavalent Chromium	10/28/24 1:49 PM	Not Reported
29	N069444-003AMS	MS	1	Hexavalent Chromium	10/28/24 1:58 PM	Not Reported
30	N069444-001A	SAMP	5	Hexavalent Chromium	10/28/24 2:08 PM	Not Reported
31	N069444-001AMS	MS	5	Hexavalent Chromium	10/28/24 2:17 PM	Not Reported
32	N069444-002A	SAMP	5	Hexavalent Chromium	10/28/24 2:27 PM	Not Reported
33	N069444-002AMS	MS	5	Hexavalent Chromium	10/28/24 2:36 PM	Not Reported
34	CCV-2	CCV	1	Hexavalent Chromium	10/28/24 2:46 PM	Reported
35	CCB-2	CCB	1	Hexavalent Chromium	10/28/24 2:55 PM	Reported
36	N069444-003A	SAMP	5	Hexavalent Chromium	10/28/24 3:04 PM	Reported
37	N069444-003AMS	MS	5	Hexavalent Chromium	10/28/24 3:14 PM	Reported
38	N069233-009A	SAMP	5	Hexavalent Chromium	10/28/24 3:23 PM	Not Reported
39	N069233-009AMS	MS	5	Hexavalent Chromium	10/28/24 3:33 PM	Not Reported
40	N069233-015A	SAMP	5	Hexavalent Chromium	10/28/24 3:42 PM	Not Reported
41	N069233-015AMS	MS	5	Hexavalent Chromium	10/28/24 3:52 PM	Not Reported
42	CCV-3	CCV1	1	Hexavalent Chromium	10/28/24 4:01 PM	Reported

INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	CCB-3	CCB	1	Hexavalent Chromium	10/28/24 4:11 PM	Reported
44	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 4:20 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241028A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	28/Oct/24 16:50:54
No. of Injections:	47	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	ICV,ICV,1,	9	1000	Unknown		10/28/2024 10:49	Finished	ICV @5ppb, IWST-240729B
10	PQL @0.2ppb,CCV2,	10	1000	Unknown		10/28/2024 10:59	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		10/28/2024 11:08	Finished	ICB R240926A
12	MB-H2O,MBLK,1,	12	1000	Unknown		10/28/2024 11:17	Finished	MB R240926A
13	LCS-H2O,LCS,1,	13	1000	Unknown		10/28/2024 11:27	Finished	LCS @5ppb, IWST-240729B
14	N069445-001A,SAMP	14	1000	Unknown		10/28/2024 11:36	Finished	SAMP,10 mL
15	N069445-001AMS,MS	15	1000	Unknown		10/28/2024 11:46	Finished	MS (1ppb), IWST-240729B,10r
16	N069445-001AMSD,N	16	1000	Unknown		10/28/2024 11:55	Finished	MSD (1ppb), IWST-240729B,1
17	N069445-001ADUP,D	17	1000	Unknown		10/28/2024 12:05	Finished	DUP,10 mL
18	N069453-001A,SAMP	18	1000	Unknown		10/28/2024 12:14	Finished	SAMP,10 mL
19	N069453-002A,SAMP	19	1000	Unknown		10/28/2024 12:24	Finished	SAMP,10 mL
20	N069453-003A,SAMP	20	1000	Unknown		10/28/2024 12:33	Finished	SAMP,10 mL
21	N069453-004A,SAMP	21	1000	Unknown		10/28/2024 12:43	Finished	SAMP,10 mL
22	CCV-1,CCV1,1,	22	1000	Unknown		10/28/2024 12:52	Finished	CCV @10ppb, IWST-240729A
23	CCB-1,CCB,1,	23	1000	Unknown		10/28/2024 13:02	Finished	CCB R240926A
24	N069444-001A,SAMP	24	1000	Unknown		10/28/2024 13:11	Finished	SAMP,10 mL
25	N069444-001AMS,MS	25	1000	Unknown		10/28/2024 13:20	Finished	MS (1ppb), IWST-240729B,10r
26	N069444-002A,SAMP	26	1000	Unknown		10/28/2024 13:30	Finished	SAMP,10 mL
27	N069444-002AMS,MS	27	1000	Unknown		10/28/2024 13:39	Finished	MS (1ppb), IWST-240729B,10r
28	N069444-003A,SAMP	28	1000	Unknown		10/28/2024 13:49	Finished	SAMP,10 mL
29	N069444-003AMS,MS	29	1000	Unknown		10/28/2024 13:58	Finished	MS (1ppb), IWST-240729B,10r
30	N069444-001A,SAMP	30	1000	Unknown		10/28/2024 14:08	Finished	SAMP,2>10 mL
31	N069444-001AMS,MS	31	1000	Unknown		10/28/2024 14:17	Finished	MS (1ppb), IWST-240729B,2>
32	N069444-002A,SAMP	32	1000	Unknown		10/28/2024 14:27	Finished	SAMP,2>10 mL
33	N069444-002AMS,MS	33	1000	Unknown		10/28/2024 14:36	Finished	MS (1ppb), IWST-240729B,2>
34	CCV-2,CCV,1,	34	1000	Unknown		10/28/2024 14:46	Finished	CCV @5ppb, IWST-240729A
35	CCB-2,CCB,1,	35	1000	Unknown		10/28/2024 14:55	Finished	CCB R240926A
36	N069444-003A,SAMP	36	1000	Unknown		10/28/2024 15:04	Finished	SAMP,2>10 mL
37	N069444-003AMS,MS	37	1000	Unknown		10/28/2024 15:14	Finished	MS (1ppb), IWST-240729B,2>
38	N069233-009A,SAMP	38	1000	Unknown		10/28/2024 15:23	Finished	SAMP,2>10 mL
39	N069233-009AMS,MS	39	1000	Unknown		10/28/2024 15:33	Finished	MS (1ppb), IWST-240729B,2>
40	N069233-015A,SAMP	40	1000	Unknown		10/28/2024 15:42	Finished	SAMP,2>10 mL
41	N069233-015AMS,MS	41	1000	Unknown		10/28/2024 15:52	Finished	MS (1ppb), IWST-240729B,2>
42	CCV-3,CCV1,1,	42	1000	Unknown		10/28/2024 16:01	Finished	CCV @10ppb, IWST-240729A
43	CCB-3,CCB,1,	43	1000	Unknown		10/28/2024 16:11	Finished	CCB R240926A
44	BLANK	44	1000	Unknown		10/28/2024 16:20	Finished	BLANK
45	SHUTDOWN	45	1000	Unknown		10/28/2024 16:30	Finished	
46	Eluent: R241025A	46	1000	Unknown		n.a.	Finished	
47	PCR: R241025B	47	1000	Unknown		n.a.	Finished	

INJECTION LOG: 241112A


Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	11/12/24 8:43 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	11/12/24 8:54 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	11/12/24 9:04 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	11/12/24 9:13 AM	Reported
13	MB-R195583	MBLK	1	Hexavalent Chromium	11/12/24 9:22 AM	Reported
14	LCS-R195583	LCS	1	Hexavalent Chromium	11/12/24 9:32 AM	Reported
15	N069888-001B	SAMP	1	Hexavalent Chromium	11/12/24 9:41 AM	Reported
16	N069888-002B	SAMP	1	Hexavalent Chromium	11/12/24 9:51 AM	Reported
17	N069888-003B	SAMP	5	Hexavalent Chromium	11/12/24 10:00 AM	Reported
18	N069888-004A	SAMP	1	Hexavalent Chromium	11/12/24 10:10 AM	Reported
19	N069888-001BREP	DUP	1	Hexavalent Chromium	11/12/24 10:19 AM	Not Reported
20	N069888-002BREP	DUP	1	Hexavalent Chromium	11/12/24 10:29 AM	Reported
21	N069888-003BREP	DUP	5	Hexavalent Chromium	11/12/24 10:38 AM	Reported
22	N069888-004AREP	DUP	1	Hexavalent Chromium	11/12/24 10:48 AM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	11/12/24 10:57 AM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	11/12/24 11:07 AM	Reported
25	N069888-001BMS	MS	1	Hexavalent Chromium	11/12/24 11:16 AM	Reported
26	N069888-002BMS	MS	1	Hexavalent Chromium	11/12/24 11:25 AM	Reported
27	N069888-003BMS	MS	5	Hexavalent Chromium	11/12/24 11:35 AM	Reported
28	N069888-004AMS	MS	1	Hexavalent Chromium	11/12/24 11:44 AM	Reported
29	N069888-001BREP	DUP	1	Hexavalent Chromium	11/12/24 12:33 PM	Reported
30	N069824-009A	SAMP	5	Hexavalent Chromium	11/12/24 12:44 PM	Not Reported
31	N069824-010A	SAMP	5	Hexavalent Chromium	11/12/24 12:54 PM	Not Reported
32	N069839-006A	SAMP	1	Hexavalent Chromium	11/12/24 1:03 PM	Reported
33	N069839-007A	SAMP	1	Hexavalent Chromium	11/12/24 1:13 PM	Reported
34	N069839-008A	SAMP	1	Hexavalent Chromium	11/12/24 1:22 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	11/12/24 1:32 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	11/12/24 1:41 PM	Reported
37	N069891-010A	SAMP	1	Hexavalent Chromium	11/12/24 1:51 PM	Not Reported
38	N069891-010AMS	MS	1	Hexavalent Chromium	11/12/24 2:00 PM	Not Reported
39	N069891-010A	SAMP	5	Hexavalent Chromium	11/12/24 2:10 PM	Reported
40	N069891-010AMS	MS	5	Hexavalent Chromium	11/12/24 2:19 PM	Reported
41	N069891-010AMSD	MSD	5	Hexavalent Chromium	11/12/24 2:29 PM	Reported
42	N069891-010AMSD	MSD	1	Hexavalent Chromium	11/12/24 2:38 PM	Not Reported

INJECTION LOG: 241112A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069891-010AMSD	MSD	1	Hexavalent Chromium	11/12/24 3:50 PM	Not Reported
44	N069891-001A	SAMP	50	Hexavalent Chromium	11/12/24 4:02 PM	Reported
45	N069891-001AMS	MS	50	Hexavalent Chromium	11/12/24 4:11 PM	Reported
46	N069891-002A	SAMP	500	Hexavalent Chromium	11/12/24 4:20 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	11/12/24 4:30 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	11/12/24 4:39 PM	Reported
49	N069891-002AMS	MS	500	Hexavalent Chromium	11/12/24 4:49 PM	Reported
50	N069891-003A	SAMP	200	Hexavalent Chromium	11/12/24 4:58 PM	Reported
51	N069891-003ADUP	DUP	200	Hexavalent Chromium	11/12/24 5:11 PM	Reported
52	N069891-003AMS	MS	200	Hexavalent Chromium	11/12/24 5:20 PM	Reported
53	N069891-004A	SAMP	1	Hexavalent Chromium	11/12/24 5:30 PM	Reported
54	N069891-004AMS	MS	1	Hexavalent Chromium	11/12/24 5:56 PM	Not Reported
55	N069891-005A	SAMP	1	Hexavalent Chromium	11/12/24 6:09 PM	Reported
56	N069891-005AMS	MS	1	Hexavalent Chromium	11/12/24 6:19 PM	Reported
57	N069891-006A	SAMP	1	Hexavalent Chromium	11/12/24 6:28 PM	Not Reported
58	N069891-006AMS	MS	1	Hexavalent Chromium	11/12/24 6:37 PM	Not Reported
59	CCV-5	CCV	1	Hexavalent Chromium	11/12/24 6:47 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	11/12/24 6:56 PM	Reported
61	N069891-008A	SAMP	1	Hexavalent Chromium	11/12/24 7:09 PM	Reported
62	N069891-008AMS	MS	1	Hexavalent Chromium	11/12/24 7:18 PM	Reported
63	N069891-009A	SAMP	1	Hexavalent Chromium	11/12/24 7:28 PM	Not Reported
64	N069891-009AMS	MS	1	Hexavalent Chromium	11/12/24 7:37 PM	Not Reported
65	N069891-007A	SAMP	1	Hexavalent Chromium	11/12/24 7:46 PM	Not Reported
66	N069891-007AMS	MS	1	Hexavalent Chromium	11/12/24 7:56 PM	Not Reported
67	N069891-007A	SAMP	5	Hexavalent Chromium	11/12/24 8:05 PM	Reported
68	N069891-007AMS	MS	5	Hexavalent Chromium	11/12/24 8:15 PM	Reported
69	N069891-011A	SAMP	1	Hexavalent Chromium	11/12/24 8:24 PM	Not Reported
70	N069891-011AMS	MS	1	Hexavalent Chromium	11/12/24 8:34 PM	Not Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	11/12/24 8:43 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	11/12/24 8:53 PM	Reported
73	N069891-011A	SAMP	5	Hexavalent Chromium	11/12/24 9:02 PM	Reported
74	N069891-011AMS	MS	5	Hexavalent Chromium	11/12/24 9:12 PM	Reported
75	N069891-004AMS	MS	1	Hexavalent Chromium	11/12/24 9:21 PM	Reported
76	MB-2	MBLK	1	Hexavalent Chromium	11/12/24 9:31 PM	Not Reported
77	LCS-2	LCS	1	Hexavalent Chromium	11/12/24 9:40 PM	Not Reported
78	N069543-002A	SAMP	5	Hexavalent Chromium	11/12/24 9:49 PM	Not Reported
79	N069543-002AMS	MS	5	Hexavalent Chromium	11/12/24 9:59 PM	Not Reported
80	N069543-003A	SAMP	5	Hexavalent Chromium	11/12/24 10:08 PM	Not Reported
81	N069543-003AMS	MS	5	Hexavalent Chromium	11/12/24 10:18 PM	Not Reported
82	N069543-007A	SAMP	1	Hexavalent Chromium	11/12/24 10:27 PM	Not Reported
83	CCV-7	CCV	1	Hexavalent Chromium	11/12/24 10:37 PM	Reported
84	CCB-7	CCB	1	Hexavalent Chromium	11/12/24 10:46 PM	Reported

 12/18/2024

INJECTION LOG: 241112A**Instrument ID: NV00922-IC7**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N069543-007AMS	MS	1	Hexavalent Chromium	11/12/24 10:56 PM	Not Reported
86	N069543-008A	SAMP	5	Hexavalent Chromium	11/12/24 11:05 PM	Not Reported
87	N069543-008AMS	MS	5	Hexavalent Chromium	11/12/24 11:15 PM	Not Reported
88	N069543-009A	SAMP	5	Hexavalent Chromium	11/12/24 11:24 PM	Not Reported
89	N069543-009AMS	MS	5	Hexavalent Chromium	11/12/24 11:34 PM	Not Reported
90	N069543-019A	SAMP	5	Hexavalent Chromium	11/12/24 11:43 PM	Not Reported
91	N069543-019AMS	MS	5	Hexavalent Chromium	11/12/24 11:52 PM	Not Reported
92	N069543-020A	SAMP	5	Hexavalent Chromium	11/13/24 12:02 AM	Not Reported
93	N069543-020AMS	MS	5	Hexavalent Chromium	11/13/24 12:11 AM	Not Reported
94	CCV-8	CCV1	1	Hexavalent Chromium	11/13/24 12:21 AM	Not Reported
95	CCB-8	CCB	1	Hexavalent Chromium	11/13/24 12:30 AM	Not Reported
96	BLANK	BLANK	1	Hexavalent Chromium	11/13/24 12:40 AM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241112A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	13/Nov/24 01:10:33
No. of Injections:	99	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	BLANK	1	1000	Unknown		11/12/2024 08:43	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		11/12/2024 08:54	Finished	CCV @5ppb, IWST-240729A
11	PQL@0.2ppb,CCV2,	3	1000	Unknown		11/12/2024 09:04	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		11/12/2024 09:13	Finished	CCB R241001A
13	MB-H2O,MBLK,1,	5	1000	Unknown		11/12/2024 09:22	Finished	MB R241001A
14	LCS-H2O,LCS,1,	6	1000	Unknown		11/12/2024 09:32	Finished	LCS @5ppb, IWST-240729B
15	N069888-001B,SAMP	7	1000	Unknown		11/12/2024 09:41	Finished	SAMP,10 mL
16	N069888-002B,SAMP	8	1000	Unknown		11/12/2024 09:51	Finished	SAMP,10 mL
17	N069888-003B,SAMP	9	1000	Unknown		11/12/2024 10:00	Finished	SAMP,2>10 mL
18	N069888-004A,SAMP	10	1000	Unknown		11/12/2024 10:10	Finished	SAMP,10 mL
19	N069888-001BREP,D	11	1000	Unknown		11/12/2024 10:19	Finished	REP,10 mL
20	N069888-002BREP,D	12	1000	Unknown		11/12/2024 10:29	Finished	REP,10 mL
21	N069888-003BREP,D	13	1000	Unknown		11/12/2024 10:38	Finished	REP,2>10 mL
22	N069888-004AREP,D	14	1000	Unknown		11/12/2024 10:48	Finished	REP,10 mL
23	CCV-2,CCV1,1,	15	1000	Unknown		11/12/2024 10:57	Finished	CCV @10ppb, IWST-240729A
24	CCB-2,CCB,1,	16	1000	Unknown		11/12/2024 11:07	Finished	CCB R241001A
25	N069888-001BMS,MS	17	1000	Unknown		11/12/2024 11:16	Finished	MS (1ppb), IWST-240729B,10r
26	N069888-002BMS,MS	18	1000	Unknown		11/12/2024 11:25	Finished	MS (1ppb), IWST-240729B,10r
27	N069888-003BMS,MS	19	1000	Unknown		11/12/2024 11:35	Finished	MS (1ppb), IWST-240729B,2>
28	N069888-004AMS,MS	20	1000	Unknown		11/12/2024 11:44	Finished	MS (1ppb), IWST-240729B,10r
29	N069888-001BREP,D	1	1000	Unknown		11/12/2024 12:33	Finished	REP,10 mL
30	N069824-009A,SAMP	2	1000	Unknown		11/12/2024 12:44	Finished	SAMP,10 mL
31	N069824-010A,SAMP	3	1000	Unknown		11/12/2024 12:54	Finished	SAMP,2>10 mL
32	N069839-006A,SAMP	4	1000	Unknown		11/12/2024 13:03	Finished	SAMP,10 mL
33	N069839-007A,SAMP	5	1000	Unknown		11/12/2024 13:13	Finished	SAMP,10 mL
34	N069839-008A,SAMP	6	1000	Unknown		11/12/2024 13:22	Finished	SAMP,10 mL
35	CCV-3,CCV,1,	7	1000	Unknown		11/12/2024 13:32	Finished	CCV @5ppb, IWST-240729A
36	CCB-3,CCB,1,	8	1000	Unknown		11/12/2024 13:41	Finished	CCB R241001A
37	N069891-010A,SAMP	9	1000	Unknown		11/12/2024 13:51	Finished	SAMP,10 mL
38	N069891-010AMS,MS	10	1000	Unknown		11/12/2024 14:00	Finished	MS (1ppb), IWST-240729B,10r
39	N069891-010A,SAMP	11	1000	Unknown		11/12/2024 14:10	Finished	SAMP,2>10 mL
40	N069891-010AMS,MS	12	1000	Unknown		11/12/2024 14:19	Finished	MS (1ppb), IWST-240729B,2>
41	N069891-010AMSD,N	13	1000	Unknown		11/12/2024 14:29	Finished	MSD (1ppb), IWST-240729B,2
42	N069891-010AMSD,N	15	1000	Unknown		11/12/2024 14:38	Finished	MSD (1ppb), IWST-240729B,1
43	N069891-010AMSD,N	1	1000	Unknown		11/12/2024 15:50	Finished	MSD (1ppb), IWST-240729B,1
44	N069891-001A,SAMP	2	1000	Unknown		11/12/2024 16:02	Finished	SAMP,2>10 mL
45	N069891-001AMS,MS	3	1000	Unknown		11/12/2024 16:11	Finished	MS (5ppb), IWST-240729B,2>
46	N069891-002A,SAMP	4	1000	Unknown		11/12/2024 16:20	Finished	SAMP,0.02>10 mL
47	CCV-4,CCV1,1,	5	1000	Unknown		11/12/2024 16:30	Finished	CCV @10ppb, IWST-240729A
48	CCB-4,CCB,1,	6	1000	Unknown		11/12/2024 16:39	Finished	CCB R241001A
49	N069891-001AMS,MS	7	1000	Unknown		11/12/2024 16:49	Finished	MS (5ppb), IWST-240729B,0.0
50	N069891-003A,SAMP	8	1000	Unknown		11/12/2024 16:58	Finished	SAMP,0.05>10 mL
51	N069891-003ADUP,D	9	1000	Unknown		11/12/2024 17:11	Finished	DUP,0.05>10 mL
52	N069891-003AMS,MS	10	1000	Unknown		11/12/2024 17:20	Finished	MS (5ppb), IWST-240729B,0.0
53	N069891-004A,SAMP	11	1000	Unknown		11/12/2024 17:30	Finished	SAMP,10 mL
54	N069891-004AMS,MS	1	1000	Unknown		11/12/2024 17:56	Finished	MS (1ppb), IWST-240729B,10r
55	N069891-005A,SAMP	2	1000	Unknown		11/12/2024 18:09	Finished	SAMP,10 mL
56	N069891-005AMS,MS	3	1000	Unknown		11/12/2024 18:19	Finished	MS (1ppb), IWST-240729B,10r
57	N069891-006A,SAMP	4	1000	Unknown		11/12/2024 18:28	Finished	SAMP,10 mL
58	N069891-006AMS,MS	5	1000	Unknown		11/12/2024 18:37	Finished	MS (1ppb), IWST-240729B,10r
59	CCV-5,CCV,1,	6	1000	Unknown		11/12/2024 18:47	Finished	CCV @5ppb, IWST-240729A
60	CCB-5,CCB,1,	7	1000	Unknown		11/12/2024 18:56	Finished	CCB R241001A

61	N069891-008A,SAMP	8	1000	Unknown		11/12/2024 19:09	Finished	SAMP,10 mL
62	N069891-008AMS,MS	9	1000	Unknown		11/12/2024 19:18	Finished	MS (1ppb), IWST-240729B,10r
63	N069891-009A,SAMP	10	1000	Unknown		11/12/2024 19:28	Finished	SAMP,10 mL
64	N069891-009AMS,MS	11	1000	Unknown		11/12/2024 19:37	Finished	MS (1ppb), IWST-240729B,10r
65	N069891-007A,SAMP	12	1000	Unknown		11/12/2024 19:46	Finished	SAMP,10 mL
66	N069891-007AMS,MS	13	1000	Unknown		11/12/2024 19:56	Finished	MS (1ppb), IWST-240729B,10r
67	N069891-007A,SAMP	14	1000	Unknown		11/12/2024 20:05	Finished	SAMP,2>10 mL
68	N069891-007AMS,MS	15	1000	Unknown		11/12/2024 20:15	Finished	MS (1ppb), IWST-240729B,2>
69	N069891-011A,SAMP	16	1000	Unknown		11/12/2024 20:24	Finished	SAMP,10 mL
70	N069891-011AMS,MS	17	1000	Unknown		11/12/2024 20:34	Finished	MS (1ppb), IWST-240729B,10r
71	CCV-6,CCV1,1,	18	1000	Unknown		11/12/2024 20:43	Finished	CCV @10ppb, IWST-240729A
72	CCB-6,CCB,1,	19	1000	Unknown		11/12/2024 20:53	Finished	CCB R241001A
73	N069891-011A,SAMP	20	1000	Unknown		11/12/2024 21:02	Finished	SAMP,2>10 mL
74	N069891-011AMS,MS	21	1000	Unknown		11/12/2024 21:12	Finished	MS (1ppb), IWST-240729B,2>
75	N069891-004AMS,MS	22	1000	Unknown		11/12/2024 21:21	Finished	MS (1ppb), IWST-240729B,10r
76	MB-2,MBLK,1,	23	1000	Unknown		11/12/2024 21:31	Finished	MB R241001A
77	LCS-2,LCS,1,	24	1000	Unknown		11/12/2024 21:40	Finished	LCS @5ppb, IWST-240729B
78	N069543-002A,SAMP	25	1000	Unknown		11/12/2024 21:49	Finished	SAMP,2>10 mL
79	N069543-002AMS,MS	26	1000	Unknown		11/12/2024 21:59	Finished	MS (1ppb), IWST-240729B,2>
80	N069543-003A,SAMP	27	1000	Unknown		11/12/2024 22:08	Finished	SAMP,2>10 mL
81	N069543-003AMS,MS	28	1000	Unknown		11/12/2024 22:18	Finished	MS (1ppb), IWST-240729B,2>
82	N069543-007A,SAMP	29	1000	Unknown		11/12/2024 22:27	Finished	SAMP,10 mL
83	CCV-7,CCV,1,	30	1000	Unknown		11/12/2024 22:37	Finished	CCV @5ppb, IWST-240729A
84	CCB-7,CCB,1,	31	1000	Unknown		11/12/2024 22:46	Finished	CCB R241001A
85	N069543-007AMS,MS	32	1000	Unknown		11/12/2024 22:56	Finished	MS (1ppb), IWST-240729B,10r
86	N069543-008A,SAMP	33	1000	Unknown		11/12/2024 23:05	Finished	SAMP,2>10 mL
87	N069543-008AMS,MS	34	1000	Unknown		11/12/2024 23:15	Finished	MS (1ppb), IWST-240729B,2>
88	N069543-009A,SAMP	35	1000	Unknown		11/12/2024 23:24	Finished	SAMP,2>10 mL
89	N069543-009AMS,MS	36	1000	Unknown		11/12/2024 23:34	Finished	MS (1ppb), IWST-240729B,2>
90	N069543-019A,SAMP	37	1000	Unknown		11/12/2024 23:43	Finished	SAMP,2>10 mL
91	N069543-019AMS,MS	38	1000	Unknown		11/12/2024 23:52	Finished	MS (1ppb), IWST-240729B,2>
92	N069543-020A,SAMP	39	1000	Unknown		11/13/2024 00:02	Finished	SAMP,2>10 mL
93	N069543-020AMS,MS	40	1000	Unknown		11/13/2024 00:11	Finished	MS (1ppb), IWST-240729B,2>
94	CCV-8,CCV1,1,	41	1000	Unknown		11/13/2024 00:21	Finished	CCV @10ppb, IWST-240729A
95	CCB-8,CCB,1,	42	1000	Unknown		11/13/2024 00:30	Finished	CCB R241001A
96	BLANK	43	1000	Unknown		11/13/2024 00:40	Finished	BLANK
97	SHUTDOWN	44	1000	Unknown		11/13/2024 00:49	Finished	
98	Eluent: R241111A	45	1000	Unknown		n.a.	Finished	
99	PCR: R241111B	46	1000	Unknown		n.a.	Finished	



INJECTION LOG: 241113A


Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	11/13/24 8:49 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	11/13/24 9:02 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	11/13/24 9:11 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	11/13/24 9:21 AM	Reported
13	MB-R195632	MBLK	1	Hexavalent Chromium	11/13/24 9:30 AM	Reported
14	LCS-R195632	LCS	1	Hexavalent Chromium	11/13/24 9:40 AM	Reported
15	N069927-001B	SAMP	5	Hexavalent Chromium	11/13/24 9:49 AM	Reported
16	N069927-002B	SAMP	10	Hexavalent Chromium	11/13/24 9:59 AM	Reported
17	N069927-004B	SAMP	5	Hexavalent Chromium	11/13/24 10:08 AM	Reported
18	N069927-005B	SAMP	5	Hexavalent Chromium	11/13/24 10:17 AM	Reported
19	N069927-006B	SAMP	2	Hexavalent Chromium	11/13/24 10:27 AM	Reported
20	N069927-003A	SAMP	1	Hexavalent Chromium	11/13/24 10:36 AM	Reported
21	N069927-001BREP	DUP	5	Hexavalent Chromium	11/13/24 10:46 AM	Reported
22	N069927-002BREP	DUP	10	Hexavalent Chromium	11/13/24 10:55 AM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	11/13/24 11:05 AM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	11/13/24 11:14 AM	Reported
25	N069927-004BREP	DUP	5	Hexavalent Chromium	11/13/24 11:24 AM	Reported
26	N069927-005BREP	DUP	5	Hexavalent Chromium	11/13/24 11:33 AM	Reported
27	N069927-006BREP	DUP	2	Hexavalent Chromium	11/13/24 11:43 AM	Reported
28	N069927-003AREP	DUP	1	Hexavalent Chromium	11/13/24 11:52 AM	Reported
29	N069927-001BMS	MS	5	Hexavalent Chromium	11/13/24 12:02 PM	Reported
30	N069927-002BMS	MS	10	Hexavalent Chromium	11/13/24 12:11 PM	Reported
31	N069927-002BMSD	MSD	10	Hexavalent Chromium	11/13/24 12:20 PM	Reported
32	N069927-004BMS	MS	5	Hexavalent Chromium	11/13/24 12:30 PM	Reported
33	N069927-005BMS	MS	5	Hexavalent Chromium	11/13/24 12:39 PM	Reported
34	N069927-006BMS	MS	2	Hexavalent Chromium	11/13/24 12:49 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	11/13/24 12:58 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	11/13/24 1:08 PM	Reported
37	N069927-003AMS	MS	1	Hexavalent Chromium	11/13/24 1:17 PM	Reported
38	N069891-006A	SAMP	1	Hexavalent Chromium	11/13/24 1:27 PM	Reported
39	N069891-006AMS	MS	1	Hexavalent Chromium	11/13/24 1:36 PM	Reported
40	N069891-009A	SAMP	1	Hexavalent Chromium	11/13/24 1:46 PM	Reported
41	N069891-009AMS	MS	1	Hexavalent Chromium	11/13/24 1:55 PM	Reported
42	N069891-016A	SAMP	5	Hexavalent Chromium	11/13/24 2:05 PM	Reported

INJECTION LOG: 241113A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069891-016AMS	MS	5	Hexavalent Chromium	11/13/24 2:14 PM	Reported
44	N069891-012A	SAMP	1	Hexavalent Chromium	11/13/24 2:23 PM	Reported
45	N069891-012AMS	MS	1	Hexavalent Chromium	11/13/24 2:33 PM	Reported
46	N069891-014A	SAMP	1	Hexavalent Chromium	11/13/24 2:42 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	11/13/24 2:52 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	11/13/24 3:01 PM	Reported
49	N069891-014AMS	MS	1	Hexavalent Chromium	11/13/24 3:11 PM	Reported
50	N069543-003A	SAMP	5	Hexavalent Chromium	11/13/24 3:36 PM	Reported
51	N069543-003AMS	MS	5	Hexavalent Chromium	11/13/24 3:48 PM	Reported
52	N069891-012A	SAMP	5	Hexavalent Chromium	11/13/24 3:58 PM	Not Reported
53	N069891-012AMS	MS	5	Hexavalent Chromium	11/13/24 4:07 PM	Not Reported
54	N069891-014A	SAMP	5	Hexavalent Chromium	11/13/24 4:16 PM	Not Reported
55	N069891-014AMS	MS	5	Hexavalent Chromium	11/13/24 4:26 PM	Not Reported
56	N069891-015A	SAMP	5	Hexavalent Chromium	11/13/24 4:35 PM	Reported
57	N069891-015AMS	MS	5	Hexavalent Chromium	11/13/24 4:45 PM	Reported
58	N069891-013A	SAMP	1	Hexavalent Chromium	11/13/24 4:54 PM	Reported
59	CCV-5	CCV	1	Hexavalent Chromium	11/13/24 5:04 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	11/13/24 5:13 PM	Reported
61	N069891-013AMS	MS	1	Hexavalent Chromium	11/13/24 5:23 PM	Reported
62	N069891-017A	SAMP	1	Hexavalent Chromium	11/13/24 5:32 PM	Reported
63	N069891-017AMS	MS	1	Hexavalent Chromium	11/13/24 5:42 PM	Reported
64	N069889-001A	SAMP	1	Hexavalent Chromium	11/13/24 5:51 PM	Not Reported
65	N069889-001AMS	MS	1	Hexavalent Chromium	11/13/24 6:01 PM	Not Reported
66	N069889-002A	SAMP	1	Hexavalent Chromium	11/13/24 6:10 PM	Not Reported
67	N069889-002AMS	MS	1	Hexavalent Chromium	11/13/24 6:19 PM	Not Reported
68	N069889-003A	SAMP	1	Hexavalent Chromium	11/13/24 6:29 PM	Not Reported
69	N069889-003AMS	MS	1	Hexavalent Chromium	11/13/24 6:38 PM	Not Reported
70	N069923-001A	SAMP	1	Hexavalent Chromium	11/13/24 6:48 PM	Not Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	11/13/24 6:57 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	11/13/24 7:07 PM	Reported
73	N069923-001AMS	MS	1	Hexavalent Chromium	11/13/24 7:16 PM	Not Reported
74	N069923-002A	SAMP	1	Hexavalent Chromium	11/13/24 7:26 PM	Not Reported
75	N069923-002AMS	MS	1	Hexavalent Chromium	11/13/24 7:35 PM	Not Reported
76	N069923-003A	SAMP	1	Hexavalent Chromium	11/13/24 7:45 PM	Not Reported
77	N069923-003AMS	MS	1	Hexavalent Chromium	11/13/24 7:54 PM	Not Reported
78	N069889-001A	SAMP	5	Hexavalent Chromium	11/13/24 8:04 PM	Reported
79	N069889-001AMS	MS	5	Hexavalent Chromium	11/13/24 8:13 PM	Reported
80	N069889-002A	SAMP	5	Hexavalent Chromium	11/13/24 8:22 PM	Reported
81	N069889-002AMS	MS	5	Hexavalent Chromium	11/13/24 8:32 PM	Reported
82	CCV-7	CCV	1	Hexavalent Chromium	11/13/24 8:41 PM	Reported
83	CCB-7	CCB	1	Hexavalent Chromium	11/13/24 8:51 PM	Reported
84	N069889-003A	SAMP	5	Hexavalent Chromium	11/13/24 9:00 PM	Reported

 11/19/2024
For RBA

INJECTION LOG: 241113A**Instrument ID: NV00922-IC7**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N069889-003AMS	MS	5	Hexavalent Chromium	11/13/24 9:10 PM	Reported
86	N069923-001A	SAMP	5	Hexavalent Chromium	11/13/24 9:19 PM	Reported
87	N069923-001AMS	MS	5	Hexavalent Chromium	11/13/24 9:29 PM	Reported
88	N069923-002A	SAMP	5	Hexavalent Chromium	11/13/24 9:38 PM	Reported
89	N069923-002AMS	MS	5	Hexavalent Chromium	11/13/24 9:48 PM	Reported
90	N069923-003A	SAMP	5	Hexavalent Chromium	11/13/24 9:57 PM	Not Reported
91	N069923-003AMS	MS	5	Hexavalent Chromium	11/13/24 10:07 PM	Not Reported
92	N069891-015A	SAMP	1	Hexavalent Chromium	11/13/24 10:16 PM	Not Reported
93	N069891-015AMS	MS	1	Hexavalent Chromium	11/13/24 10:25 PM	Not Reported
94	CCV-8	CCV1	1	Hexavalent Chromium	11/13/24 10:35 PM	Reported
95	CCB-8	CCB	1	Hexavalent Chromium	11/13/24 10:44 PM	Reported
96	BLANK	BLANK	1	Hexavalent Chromium	11/13/24 10:54 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241113A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	13/Nov/24 23:24:37
No. of Injections:	99	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	BLANK	1	1000	Unknown		11/13/2024 08:49	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		11/13/2024 09:02	Finished	CCV @5ppb, IWST-240729A
11	PQL @0.2ppb,CCV2,	3	1000	Unknown		11/13/2024 09:11	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		11/13/2024 09:21	Finished	CCB R241001A
13	MB-H2O,MBLK,1,	5	1000	Unknown		11/13/2024 09:30	Finished	MB R241001A
14	LCS-H2O,LCS,1,	6	1000	Unknown		11/13/2024 09:40	Finished	LCS @5ppb, IWST-240729B
15	N069927-001B,SAMP	7	1000	Unknown		11/13/2024 09:49	Finished	SAMP,2>10 mL
16	N069927-002B,SAMP	8	1000	Unknown		11/13/2024 09:59	Finished	SAMP,1>10 mL
17	N069927-004B,SAMP	9	1000	Unknown		11/13/2024 10:08	Finished	SAMP,2>10 mL
18	N069927-005B,SAMP	10	1000	Unknown		11/13/2024 10:17	Finished	SAMP,2>10 mL
19	N069927-006B,SAMP	11	1000	Unknown		11/13/2024 10:27	Finished	SAMP,5>10 mL
20	N069927-003A,SAMP	12	1000	Unknown		11/13/2024 10:36	Finished	SAMP,10 mL
21	N069927-001BREP,D	13	1000	Unknown		11/13/2024 10:46	Finished	REP,2>10 mL
22	N069927-002BREP,D	14	1000	Unknown		11/13/2024 10:55	Finished	REP,1>10 mL
23	CCV-2,CCV1,1,	15	1000	Unknown		11/13/2024 11:05	Finished	CCV @10ppb, IWST-240729A
24	CCB-2,CCB,1,	16	1000	Unknown		11/13/2024 11:14	Finished	CCB R241001A
25	N069927-004BREP,D	17	1000	Unknown		11/13/2024 11:24	Finished	REP,2>10 mL
26	N069927-005BREP,D	18	1000	Unknown		11/13/2024 11:33	Finished	REP,2>10 mL
27	N069927-006BREP,D	19	1000	Unknown		11/13/2024 11:43	Finished	REP,5>10 mL
28	N069927-003AREP,D	20	1000	Unknown		11/13/2024 11:52	Finished	REP,10 mL
29	N069927-001BMS,M	21	1000	Unknown		11/13/2024 12:02	Finished	MS (5ppb), IWST-240729B,2>
30	N069927-002BMS,M	22	1000	Unknown		11/13/2024 12:11	Finished	MS (5ppb), IWST-240729B,1>
31	N069927-002BMSD,N	23	1000	Unknown		11/13/2024 12:20	Finished	MSD (5ppb), IWST-240729B,1
32	N069927-004BMS,M	24	1000	Unknown		11/13/2024 12:30	Finished	MS (5ppb), IWST-240729B,2>
33	N069927-005BMS,M	25	1000	Unknown		11/13/2024 12:39	Finished	MS (5ppb), IWST-240729B,2>
34	N069927-006BMS,M	26	1000	Unknown		11/13/2024 12:49	Finished	MS (5ppb), IWST-240729B,5>
35	CCV-3,CCV,1,	27	1000	Unknown		11/13/2024 12:58	Finished	CCV @5ppb, IWST-240729A
36	CCB-3,CCB,1,	28	1000	Unknown		11/13/2024 13:08	Finished	CCB R241001A
37	N069927-003AMS,M	29	1000	Unknown		11/13/2024 13:17	Finished	MS (1ppb), IWST-240729B,10r
38	N069891-006A,SAMP	30	1000	Unknown		11/13/2024 13:27	Finished	SAMP,10 mL
39	N069891-006AMS,M	31	1000	Unknown		11/13/2024 13:36	Finished	MS (1ppb), IWST-240729B,10r
40	N069891-009A,SAMP	32	1000	Unknown		11/13/2024 13:46	Finished	SAMP,10 mL
41	N069891-009AMS,M	33	1000	Unknown		11/13/2024 13:55	Finished	MS (1ppb), IWST-240729B,10r
42	N069891-016A,SAMP	34	1000	Unknown		11/13/2024 14:05	Finished	SAMP,2>10 mL
43	N069891-016AMS,M	35	1000	Unknown		11/13/2024 14:14	Finished	MS (5ppb), IWST-240729B,2>
44	N069891-012A,SAMP	36	1000	Unknown		11/13/2024 14:23	Finished	SAMP,10 mL
45	N069891-012AMS,M	37	1000	Unknown		11/13/2024 14:33	Finished	MS (1ppb), IWST-240729B,10r
46	N069891-014A,SAMP	38	1000	Unknown		11/13/2024 14:42	Finished	SAMP,10 mL
47	CCV-4,CCV1,1,	39	1000	Unknown		11/13/2024 14:52	Finished	CCV @10ppb, IWST-240729A
48	CCB-4,CCB,1,	40	1000	Unknown		11/13/2024 15:01	Finished	CCB R241001A
49	N069891-014AMS,M	41	1000	Unknown		11/13/2024 15:11	Finished	MS (1ppb), IWST-240729B,10r
50	N069543-003A,SAMP	1	1000	Unknown		11/13/2024 15:36	Finished	SAMP,2>10 mL
51	N069543-003AMS,M	2	1000	Unknown		11/13/2024 15:48	Finished	MS (1ppb), IWST-240729B,2>
52	N069891-012A,SAMP	3	1000	Unknown		11/13/2024 15:58	Finished	SAMP,2>10 mL
53	N069891-012AMS,M	4	1000	Unknown		11/13/2024 16:07	Finished	MS (1ppb), IWST-240729B,2>
54	N069891-014A,SAMP	5	1000	Unknown		11/13/2024 16:16	Finished	SAMP,2>10 mL
55	N069891-014AMS,M	6	1000	Unknown		11/13/2024 16:26	Finished	MS (1ppb), IWST-240729B,2>
56	N069891-015A,SAMP	7	1000	Unknown		11/13/2024 16:35	Finished	SAMP,2>10 mL
57	N069891-015AMS,M	8	1000	Unknown		11/13/2024 16:45	Finished	MS (1ppb), IWST-240729B,2>
58	N069891-013A,SAMP	9	1000	Unknown		11/13/2024 16:54	Finished	SAMP,10 mL
59	CCV-5,CCV,1,	10	1000	Unknown		11/13/2024 17:04	Finished	CCV @5ppb, IWST-240729A
60	CCB-5,CCB,1,	11	1000	Unknown		11/13/2024 17:13	Finished	CCB R241001A

61	N069891-013AMS.M\$	12	1000	Unknown	11/13/2024 17:23	Finished	MS (1ppb), IWST-240729B,10r
62	N069891-017A,SAMF	13	1000	Unknown	11/13/2024 17:32	Finished	SAMP,10 mL
63	N069891-017AMS.M\$	14	1000	Unknown	11/13/2024 17:42	Finished	MS (1ppb), IWST-240729B,10r
64	N069889-001A,SAMF	15	1000	Unknown	11/13/2024 17:51	Finished	SAMP,10 mL
65	N069889-001AMS.M\$	16	1000	Unknown	11/13/2024 18:01	Finished	MS (1ppb), IWST-240729B,10r
66	N069889-002A,SAMF	17	1000	Unknown	11/13/2024 18:10	Finished	SAMP,10 mL
67	N069889-002AMS.M\$	18	1000	Unknown	11/13/2024 18:19	Finished	MS (1ppb), IWST-240729B,10r
68	N069889-003A,SAMF	19	1000	Unknown	11/13/2024 18:29	Finished	SAMP,10 mL
69	N069889-003AMS.M\$	20	1000	Unknown	11/13/2024 18:38	Finished	MS (1ppb), IWST-240729B,10r
70	N069923-001A,SAMF	21	1000	Unknown	11/13/2024 18:48	Finished	SAMP,10 mL
71	CCV-6,CCV1,1,	22	1000	Unknown	11/13/2024 18:57	Finished	CCV @10ppb, IWST-240729A
72	CCB-6,CCB,1,	23	1000	Unknown	11/13/2024 19:07	Finished	CCB R241001A
73	N069923-001AMS.M\$	24	1000	Unknown	11/13/2024 19:16	Finished	MS (1ppb), IWST-240729B,10r
74	N069923-002A,SAMF	25	1000	Unknown	11/13/2024 19:26	Finished	SAMP,10 mL
75	N069923-002AMS.M\$	26	1000	Unknown	11/13/2024 19:35	Finished	MS (1ppb), IWST-240729B,10r
76	N069923-003A,SAMF	27	1000	Unknown	11/13/2024 19:45	Finished	SAMP,10 mL
77	N069923-003AMS.M\$	28	1000	Unknown	11/13/2024 19:54	Finished	MS (1ppb), IWST-240729B,10r
78	N069889-001A,SAMF	29	1000	Unknown	11/13/2024 20:04	Finished	SAMP,2>10 mL
79	N069889-001AMS.M\$	30	1000	Unknown	11/13/2024 20:13	Finished	MS (1ppb), IWST-240729B,2>
80	N069889-002A,SAMF	31	1000	Unknown	11/13/2024 20:22	Finished	SAMP,2>10 mL
81	N069889-002AMS.M\$	32	1000	Unknown	11/13/2024 20:32	Finished	MS (1ppb), IWST-240729B,2>
82	CCV-7,CCV,1,	33	1000	Unknown	11/13/2024 20:41	Finished	CCV @5ppb, IWST-240729A
83	CCB-7,CCB,1,	34	1000	Unknown	11/13/2024 20:51	Finished	CCB R241001A
84	N069889-003A,SAMF	35	1000	Unknown	11/13/2024 21:00	Finished	SAMP,2>10 mL
85	N069889-003AMS.M\$	36	1000	Unknown	11/13/2024 21:10	Finished	MS (1ppb), IWST-240729B,2>
86	N069923-001A,SAMF	37	1000	Unknown	11/13/2024 21:19	Finished	SAMP,2>10 mL
87	N069923-001AMS.M\$	38	1000	Unknown	11/13/2024 21:29	Finished	MS (1ppb), IWST-240729B,2>
88	N069923-002A,SAMF	39	1000	Unknown	11/13/2024 21:38	Finished	SAMP,2>10 mL
89	N069923-002AMS.M\$	40	1000	Unknown	11/13/2024 21:48	Finished	MS (1ppb), IWST-240729B,2>
90	N069923-003A,SAMF	41	1000	Unknown	11/13/2024 21:57	Finished	SAMP,2>10 mL
91	N069923-003AMS.M\$	42	1000	Unknown	11/13/2024 22:07	Finished	MS (1ppb), IWST-240729B,2>
92	N069891-015A,SAMF	43	1000	Unknown	11/13/2024 22:16	Finished	SAMP,10 mL
93	N069891-015AMS.M\$	44	1000	Unknown	11/13/2024 22:25	Finished	MS (1ppb), IWST-240729B,10r
94	CCV-8,CCV1,1,	45	1000	Unknown	11/13/2024 22:35	Finished	CCV @10ppb, IWST-240729A
95	CCB-8,CCB,1,	46	1000	Unknown	11/13/2024 22:44	Finished	CCB R241001A
96	BLANK	47	1000	Unknown	11/13/2024 22:54	Finished	BLANK
97	SHUTDOWN	48	1000	Unknown	11/13/2024 23:03	Finished	
98	Eluent: R241111A	49	1000	Unknown	n.a.	Finished	
99	PCR: R241111B	50	1000	Unknown	n.a.	Finished	



SAMPLE PREPARATION LOG



ASSET LABORATORIES
INTEGRITY • ACCURACY • TRANSPARENCY • PROFESSIONALISM

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"Serving Clients with Passion and Professionalism"

Hexavalent Chromium Preparation and Runlog

Sample Preparation

Date Prepared: 11/12/24
 Time Prepared: 6:20H
 Prepared By: ml

Reagent ID:
 Sulfuric Acid: 16020 pH meter ID: 01
 Diphenylcarbazide: 16810
 NH4OH + NH4SO4 eluent: N241111A
 NH4OH + NH4SO4 buffer: N241001A 60N NaOH
N241002A

	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	N069888-1A	7.72	9.39	-250ul	-250ul	+0.2ml N241001A/10ml PV	
2)	2B	7.88	9.45				
3)	7A	7.94	9.41				
4)	4A	7.68	9.35				
5)	N069889-1A	9.30					
6)	2A	9.24					
7)	7A	9.26	-				
8)	N069891-1A	9.41	-				
9)	2B	9.35	-				
10)	3A	9.46	-				
11)	4A	9.48	-				
12)	7A	9.47	-				
13)	6A	9.69	-				
14)	7A	9.10	9.49			+4	
15)	8A	9.67	-				
	9B	9.41	-				

Sample Preparation

Date Prepared: 11/12/24
 Time Prepared: 6:20H
 Prepared By: ml

Reagent ID:
 Sulfuric Acid: 16020 pH meter ID: 01
 Diphenylcarbazide: 16810
 NH4OH + NH4SO4 eluent: N241111A
 NH4OH + NH4SO4 buffer: N241001A 60N NaOH
N241002A

	Sample ID.	pH of sample	pH after treatment	Initial Volume of sample	Final Volume after buffer add'n	Volume of buffer added	Comments
1)	N069891-10A	9.00	9.39	-250ul	-250ul	+4	
2)	11A	9.06	9.43			+4	
3)	12A	9.22	-				
4)	13A	9.66	-				
5)	14A	9.28	-				
6)	15A	9.39	-				
7)	16A	9.40	-				
8)	17A	9.66	-				
9)							
10)							
11)							
12)							
13)							
14)							
15)							

Logbook No. 26



INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
INTEGRATION OF ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

(EPA 7199) - INITIAL CALIBRATION

Instrument ID: NV00922-IC7
Date Calibrated: 10/28/2024

Initial Calibration:

Hexavalent Chromium	STD1	STD2	STD3	STD4	STD5	STD6	
COMPOUND, in ug/L	0.2	1	5	10	15	20	R ²
Area,mAU*min	0.0527	0.2779	1.4196	2.8235	4.2553	5.6829	1.0000
Measured, in ug/L	0.185700	0.979400	5.002800	9.950700	14.996600	20.027700	
Relative Error (%RE)	-7.2%		0.1%				

	Stock	Working
Standard Concentration:	1,000,000 PPB	1,000 PPB
Standard ID:	ISST-240705H	IWST-240729A

Calibration Acceptance Criteria: > 0.999 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
INTEGRITY • ACCURACY • ENVIRONMENTAL • TECHNOLOGY

CALIFORNIA
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NEVADA
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P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195583						
Client ID: ICV	Batch ID: R195583	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6309040							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.730	0.20	5.000	0	94.6	90	110				

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195583						
Client ID: ZZZZZ	Batch ID: R195583	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6309041							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.211	0.20	0.2000	0	106	80	120				

Sample ID CCV-1	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195583						
Client ID: CCV	Batch ID: R195583	TestNo: EPA 218.6	Analysis Date: 11/12/2024	SeqNo: 6309043							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.061	0.20	5.000	0	101	95	105				

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195583						
Client ID: ZZZZZ	Batch ID: R195583	TestNo: EPA 218.6	Analysis Date: 11/12/2024	SeqNo: 6309044							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.213	0.20	0.2000	0	107	80	120				

Sample ID CCV-2	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195583						
Client ID: ZZZZZ	Batch ID: R195583	TestNo: EPA 218.6	Analysis Date: 11/12/2024	SeqNo: 6309055							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	10.080	0.20	10.00	0	101	95	105				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCV-3	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195583						
Client ID: CCV	Batch ID: R195583	TestNo: EPA 218.6	Analysis Date: 11/12/2024	SeqNo: 6309065							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.012	0.20	5.000	0	100	95	105				

Sample ID CCV-4	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195583						
Client ID: ZZZZZ	Batch ID: R195583	TestNo: EPA 218.6	Analysis Date: 11/12/2024	SeqNo: 6309073							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	10.065	0.20	10.00	0	101	95	105				

Sample ID CCV-5	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195583						
Client ID: CCV	Batch ID: R195583	TestNo: EPA 218.6	Analysis Date: 11/12/2024	SeqNo: 6309082							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.017	0.20	5.000	0	100	95	105				

Sample ID CCV-6	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195583						
Client ID: ZZZZZ	Batch ID: R195583	TestNo: EPA 218.6	Analysis Date: 11/12/2024	SeqNo: 6309088							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	10.141	0.20	10.00	0	101	95	105				

Sample ID CCV-7	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195583						
Client ID: CCV	Batch ID: R195583	TestNo: EPA 218.6	Analysis Date: 11/12/2024	SeqNo: 6309093							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.003	0.20	5.000	0	100	95	105				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICV	SampType: ICV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: ICV	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6313134	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	4.730	0.20	5.000	0	94.6 90 110

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: ZZZZZ	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6313135	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	0.211	0.20	0.2000	0	106 80 120

Sample ID CCV-1	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: CCV	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313137	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	5.115	0.20	5.000	0	102 95 105

Sample ID PQL@0.2ppb	SampType: CCV2	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: ZZZZZ	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313138	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	0.227	0.20	0.2000	0	114 80 120

Sample ID CCV-2	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: ZZZZZ	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313150	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	10.173	0.20	10.00	0	102 95 105

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCV-3	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: CCV	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313162	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	4.935	0.20	5.000	0	98.7 95 105

Sample ID CCV-4	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: ZZZZZ	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313174	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	10.060	0.20	10.00	0	101 95 105

Sample ID CCV-5	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: CCV	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313182	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	4.997	0.20	5.000	0	99.9 95 105

Sample ID CCV-6	SampType: CCV1	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: ZZZZZ	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313187	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	10.275	0.20	10.00	0	103 95 105

Sample ID CCV-7	SampType: CCV	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: CCV	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313193	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Hexavalent Chromium	5.127	0.20	5.000	0	103 95 105

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCV-8	SampType: CCV1	TestCode: 218.6_WPGE Units: µg/L			Prep Date:			RunNo: 195632			
Client ID: ZZZZZZ	Batch ID: R195632	TestNo: EPA 218.6			Analysis Date: 11/13/2024			SeqNo: 6313203			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	10.352	0.20	10.00	0	104	95	105				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL INSTRUMENTATION

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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195583						
Client ID: ICB	Batch ID: R195583	TestNo: EPA 218.6		Analysis Date: 10/28/2024	SeqNo: 6309042						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-1	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195583						
Client ID: CCB	Batch ID: R195583	TestNo: EPA 218.6		Analysis Date: 11/12/2024	SeqNo: 6309045						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-2	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195583						
Client ID: CCB	Batch ID: R195583	TestNo: EPA 218.6		Analysis Date: 11/12/2024	SeqNo: 6309056						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-3	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195583						
Client ID: CCB	Batch ID: R195583	TestNo: EPA 218.6		Analysis Date: 11/12/2024	SeqNo: 6309066						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-4	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195583						
Client ID: CCB	Batch ID: R195583	TestNo: EPA 218.6		Analysis Date: 11/12/2024	SeqNo: 6309074						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCB-5	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195583						
Client ID: CCB	Batch ID: R195583	TestNo: EPA 218.6		Analysis Date: 11/12/2024	SeqNo: 6309083						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-6	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195583						
Client ID: CCB	Batch ID: R195583	TestNo: EPA 218.6		Analysis Date: 11/12/2024	SeqNo: 6309089						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Sample ID CCB-7	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195583						
Client ID: CCB	Batch ID: R195583	TestNo: EPA 218.6		Analysis Date: 11/12/2024	SeqNo: 6309094						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexavalent Chromium ND 0.20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID ICB	SampType: ICB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: ICB	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 10/28/2024	SeqNo: 6313136	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND

0.20

Sample ID CCB-1	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: CCB	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313139	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND

0.20

Sample ID CCB-2	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: CCB	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313151	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND

0.20

Sample ID CCB-3	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: CCB	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313163	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND

0.20

Sample ID CCB-4	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: CCB	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313175	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND

0.20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID CCB-5	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: CCB	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313183	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-6	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: CCB	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313188	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-7	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: CCB	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313194	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Sample ID CCB-8	SampType: CCB	TestCode: 218.6_WPGE	Units: µg/L	Prep Date:	RunNo: 195632
Client ID: CCB	Batch ID: R195632	TestNo: EPA 218.6	Analysis Date: 11/13/2024	SeqNo: 6313204	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Hexavalent Chromium

ND 0.20

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

RETENTION TIME SUMMARY



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL TECHNOLOGIES

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NEVADA
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"Serving Clients with Passion and Professionalism"

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 11/12/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.690	
CCV-2	5.715	
CCV-3	5.798	
CCV-4	5.665	
CCV-5	5.665	
CCV-6	5.665	
CCV-7	5.665	

Average 5.695
Actual RT Window 5.615 - 5.775
Applied RT Window 5.495 - 5.895

MB-R195583	N.A.	N.A.
LCS-R195583	5.698	PASS
N069888-001B	5.681	PASS
N069888-002B	5.690	PASS
N069888-003B	5.698	PASS
N069888-004A	N.A.	N.A.
N069888-001BREP	N.A.	N.A.
N069888-002BREP	5.698	PASS
N069888-003BREP	5.706	PASS
N069888-004AREP	N.A.	N.A.
N069888-001BMS	5.706	PASS
N069888-002BMS	5.715	PASS
N069888-003BMS	5.723	PASS
N069888-004AMS	5.731	PASS
N069888-001BREP	5.740	PASS
N069824-009A	N.A.	N.A.
N069824-010A	N.A.	N.A.
N069839-006A	5.756	PASS
N069839-007A	5.765	PASS
N069839-008A	5.731	PASS
N069891-010A	N.A.	N.A.

Reviewed by:

dMocha 11/24/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 11/12/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.690	
CCV-2	5.715	
CCV-3	5.798	
CCV-4	5.665	
CCV-5	5.665	
CCV-6	5.665	
CCV-7	5.665	

Average 5.695
Actual RT Window 5.615 - 5.775
Applied RT Window 5.495 - 5.895

N069891-010AMS	5.640	PASS
N069891-010A	N.A.	N.A.
N069891-010AMS	5.806	PASS
N069891-010AMSD	5.823	PASS
N069891-010AMSD	5.706	PASS
N069891-001A	5.665	PASS
N069891-001AMS	5.673	PASS
N069891-002A	5.681	PASS
N069891-002AMS	5.690	PASS
N069891-003A	5.665	PASS
N069891-003ADUP	5.665	PASS
N069891-003AMS	5.665	PASS
N069891-004A	5.565	PASS
N069891-004AMS	N.A.	N.A.
N069891-005A	5.573	PASS
N069891-005AMS	5.573	PASS
N069891-006A	N.A.	N.A.
N069891-006AMS	5.665	PASS
N069891-008A	N.A.	N.A.
N069891-008AMS	5.665	PASS
N069891-009AMS	5.498	PASS

Reviewed by:

M. Rocha 11/24/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 11/12/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.690	
CCV-2	5.715	
CCV-3	5.798	
CCV-4	5.665	
CCV-5	5.665	
CCV-6	5.665	
CCV-7	5.665	

Average 5.695
Actual RT Window 5.615 - 5.775
Applied RT Window 5.495 - 5.895

N069891-007A	N.A.	N.A.
N069891-007A	5.623	PASS
N069891-007AMS	5.631	PASS
N069891-011A	5.506	PASS
N069891-011AMS	5.498	PASS
N069891-011A	5.648	PASS
N069891-011AMS	5.648	PASS
N069891-004AMS	5.581	PASS
MB-2	N.A.	N.A.
LCS-2	5.673	PASS
N069543-002A	5.581	PASS
N069543-002AMS	5.615	PASS
N069543-003A	N.A.	N.A.
N069543-003AMS	5.615	PASS
N069543-007A	5.665	PASS
N069543-007AMS	5.656	PASS
N069543-008A	5.590	PASS
N069543-008AMS	5.590	PASS
N069543-009A	5.598	PASS
N069543-009AMS	5.598	PASS
N069543-019A	5.615	PASS

Reviewed by:

dMocha 11/24/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 11/12/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.690	
CCV-2	5.715	
CCV-3	5.798	
CCV-4	5.665	
CCV-5	5.665	
CCV-6	5.665	
CCV-7	5.665	

Average 5.695
Actual RT Window 5.615 - 5.775
Applied RT Window 5.495 - 5.895

N069543-019AMS	5.623	PASS
N069543-020A	5.631	PASS
N069543-020AMS	5.623	PASS

Reviewed by:

d/Rocha 11/24/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 11/13/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.673	
CCV-2	5.698	
CCV-3	5.723	
CCV-4	5.773	
CCV-5	5.606	
CCV-6	5.606	
CCV-7	5.606	
CCV-8	5.615	

Average 5.663
Actual RT Window 5.583 - 5.743
Applied RT Window 5.463 - 5.863

MB-R195632	N.A.	N.A.
LCS-R195632	5.690	PASS
N069927-001B	5.681	PASS
N069927-002B	5.681	PASS
N069927-004B	5.681	PASS
N069927-005B	5.681	PASS
N069927-006B	5.681	PASS
N069927-003A	N.A.	N.A.
N069927-001BREP	5.690	PASS
N069927-002BREP	5.690	PASS
N069927-004BREP	5.690	PASS
N069927-005BREP	5.698	PASS
N069927-006BREP	5.698	PASS
N069927-003AREP	N.A.	N.A.
N069927-001BMS	5.715	PASS
N069927-002BMS	5.715	PASS
N069927-002BMSD	5.715	PASS
N069927-004BMS	5.715	PASS
N069927-005BMS	5.715	PASS
N069927-006BMS	5.715	PASS

Reviewed by:

d/Rocha 12/30/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 11/13/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.673	
CCV-2	5.698	
CCV-3	5.723	
CCV-4	5.773	
CCV-5	5.606	
CCV-6	5.606	
CCV-7	5.606	
CCV-8	5.615	

Average 5.663
Actual RT Window 5.583 - 5.743
Applied RT Window 5.463 - 5.863

N069927-003AMS	5.740	PASS
N069891-006A	N.A.	N.A.
N069891-006AMS	5.740	PASS
N069891-009A	5.573	PASS
N069891-009AMS	5.581	PASS
N069891-016A	5.723	PASS
N069891-016AMS	5.723	PASS
N069891-012A	5.615	PASS
N069891-012AMS	5.590	PASS
N069891-014A	5.606	PASS
N069891-014AMS	5.606	PASS
N069543-003A	5.740	PASS
N069543-003AMS	5.523	PASS
N069891-012A	5.581	PASS
N069891-012AMS	5.573	PASS
N069891-014A	5.565	PASS
N069891-014AMS	5.573	PASS
N069891-015A	5.556	PASS
N069891-015AMS	5.565	PASS
N069891-013A	5.590	PASS

Reviewed by:

dMocha 12/30/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC7

Analytical Sequence

Date Analyzed: 11/13/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	5.740	
CCV-1	5.673	
CCV-2	5.698	
CCV-3	5.723	
CCV-4	5.773	
CCV-5	5.606	
CCV-6	5.606	
CCV-7	5.606	
CCV-8	5.615	

Average 5.663
Actual RT Window 5.583 - 5.743
Applied RT Window 5.463 - 5.863

N069891-013AMS	5.606	PASS
N069891-017A	N.A.	N.A.
N069891-017AMS	5.598	PASS
N069889-001A	N.A.	N.A.
N069889-002A	N.A.	N.A.
N069923-003A	N.A.	N.A.
N069889-001A	5.531	PASS
N069889-001AMS	5.581	PASS
N069889-002A	N.A.	N.A.
N069889-002AMS	5.590	PASS
N069889-003A	5.606	PASS
N069889-003AMS	5.581	PASS
N069923-001A	5.581	PASS
N069923-001AMS	5.590	PASS
N069923-002A	5.598	PASS
N069923-002AMS	5.581	PASS
N069923-003A	N.A.	N.A.

Reviewed by:

MRecha 12/30/2024

MDL STUDY



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL AND ENVIRONMENTAL TECHNOLOGIES

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METHOD DETECTION LIMIT (Spiked)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): 10/4/2022, 11/15/2022, 1/4/2023, 3/1/2023, 4/4/2023, 5/16/2023, 7/10/2023, 8/2/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: ug/L

Instrument Name: **IC-07**

Datafile 221004A D12 221115A D12 230104A D11 230301C D14 230404A D11 230516A D11 230710A D12 230802A D11

Analyte	#1	#2	#3	#4	#5	#6	#7	#8	Spike Conc., ug/L	SD	t _(n-1) value	MDLs	PQL
Hexavalent Chromium	0.199	0.194	0.169	0.190	0.167	0.194	0.201	0.185	0.20	0.0129	2.998	0.0387	0.20

METHOD DETECTION LIMIT (Blanks)

Method Name: **HEXAVALENT CHROMIUM by Ion Chromatography**
 Method Number: EPA 218.6 / EPA 7199
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Instrument Name: **IC-07**

Analyte	MDLb	#of Records
Hexavalent Chromium	0.00	166

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

RAW DATA



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"Serving Clients with Passion and Professionalism"

INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	ICV	ICV	1	Hexavalent Chromium	10/28/24 10:49 AM	Reported
10	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	10/28/24 10:59 AM	Reported
11	ICB	ICB	1	Hexavalent Chromium	10/28/24 11:08 AM	Reported
12	MB-R194895	MBLK	1	Hexavalent Chromium	10/28/24 11:17 AM	Reported
13	LCS-R194895	LCS	1	Hexavalent Chromium	10/28/24 11:27 AM	Reported
14	N069445-001A	SAMP	1	Hexavalent Chromium	10/28/24 11:36 AM	Reported
15	N069445-001AMS	MS	1	Hexavalent Chromium	10/28/24 11:46 AM	Reported
16	N069445-001AMSD	MSD	1	Hexavalent Chromium	10/28/24 11:55 AM	Reported
17	N069445-001ADUP	DUP	1	Hexavalent Chromium	10/28/24 12:05 PM	Reported
18	N069453-001A	SAMP	1	Hexavalent Chromium	10/28/24 12:14 PM	Reported
19	N069453-002A	SAMP	1	Hexavalent Chromium	10/28/24 12:24 PM	Reported
20	N069453-003A	SAMP	1	Hexavalent Chromium	10/28/24 12:33 PM	Reported
21	N069453-004A	SAMP	1	Hexavalent Chromium	10/28/24 12:43 PM	Reported
22	CCV-1	CCV1	1	Hexavalent Chromium	10/28/24 12:52 PM	Reported
23	CCB-1	CCB	1	Hexavalent Chromium	10/28/24 1:02 PM	Reported
24	N069444-001A	SAMP	1	Hexavalent Chromium	10/28/24 1:11 PM	Reported
25	N069444-001AMS	MS	1	Hexavalent Chromium	10/28/24 1:20 PM	Reported
26	N069444-002A	SAMP	1	Hexavalent Chromium	10/28/24 1:30 PM	Reported
27	N069444-002AMS	MS	1	Hexavalent Chromium	10/28/24 1:39 PM	Reported
28	N069444-003A	SAMP	1	Hexavalent Chromium	10/28/24 1:49 PM	Not Reported
29	N069444-003AMS	MS	1	Hexavalent Chromium	10/28/24 1:58 PM	Not Reported
30	N069444-001A	SAMP	5	Hexavalent Chromium	10/28/24 2:08 PM	Not Reported
31	N069444-001AMS	MS	5	Hexavalent Chromium	10/28/24 2:17 PM	Not Reported
32	N069444-002A	SAMP	5	Hexavalent Chromium	10/28/24 2:27 PM	Not Reported
33	N069444-002AMS	MS	5	Hexavalent Chromium	10/28/24 2:36 PM	Not Reported
34	CCV-2	CCV	1	Hexavalent Chromium	10/28/24 2:46 PM	Reported
35	CCB-2	CCB	1	Hexavalent Chromium	10/28/24 2:55 PM	Reported
36	N069444-003A	SAMP	5	Hexavalent Chromium	10/28/24 3:04 PM	Reported
37	N069444-003AMS	MS	5	Hexavalent Chromium	10/28/24 3:14 PM	Reported
38	N069233-009A	SAMP	5	Hexavalent Chromium	10/28/24 3:23 PM	Not Reported
39	N069233-009AMS	MS	5	Hexavalent Chromium	10/28/24 3:33 PM	Not Reported
40	N069233-015A	SAMP	5	Hexavalent Chromium	10/28/24 3:42 PM	Not Reported
41	N069233-015AMS	MS	5	Hexavalent Chromium	10/28/24 3:52 PM	Not Reported
42	CCV-3	CCV1	1	Hexavalent Chromium	10/28/24 4:01 PM	Reported

INJECTION LOG: 241028A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	CCB-3	CCB	1	Hexavalent Chromium	10/28/24 4:11 PM	Reported
44	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 4:20 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241028A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	28/Oct/24 16:50:54
No. of Injections:	47	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume μ L	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	ICV,ICV,1,	9	1000	Unknown		10/28/2024 10:49	Finished	ICV @5ppb, IWST-240729B
10	PQL @0.2ppb,CCV2,	10	1000	Unknown		10/28/2024 10:59	Finished	PQL @ 0.2ppb
11	ICB,ICB,1	11	1000	Unknown		10/28/2024 11:08	Finished	ICB R240926A
12	MB-H2O,MBLK,1,	12	1000	Unknown		10/28/2024 11:17	Finished	MB R240926A
13	LCS-H2O,LCS,1,	13	1000	Unknown		10/28/2024 11:27	Finished	LCS @5ppb, IWST-240729B
14	N069445-001A,SAMP	14	1000	Unknown		10/28/2024 11:36	Finished	SAMP,10 mL
15	N069445-001AMS,M	15	1000	Unknown		10/28/2024 11:46	Finished	MS (1ppb), IWST-240729B,10r
16	N069445-001AMSD,N	16	1000	Unknown		10/28/2024 11:55	Finished	MSD (1ppb), IWST-240729B,10r
17	N069445-001ADUP,D	17	1000	Unknown		10/28/2024 12:05	Finished	DUP,10 mL
18	N069453-001A,SAMP	18	1000	Unknown		10/28/2024 12:14	Finished	SAMP,10 mL
19	N069453-002A,SAMP	19	1000	Unknown		10/28/2024 12:24	Finished	SAMP,10 mL
20	N069453-003A,SAMP	20	1000	Unknown		10/28/2024 12:33	Finished	SAMP,10 mL
21	N069453-004A,SAMP	21	1000	Unknown		10/28/2024 12:43	Finished	SAMP,10 mL
22	CCV-1,CCV1,1,	22	1000	Unknown		10/28/2024 12:52	Finished	CCV @10ppb, IWST-240729A
23	CCB-1,CCB,1,	23	1000	Unknown		10/28/2024 13:02	Finished	CCB R240926A
24	N069444-001A,SAMP	24	1000	Unknown		10/28/2024 13:11	Finished	SAMP,10 mL
25	N069444-001AMS,M	25	1000	Unknown		10/28/2024 13:20	Finished	MS (1ppb), IWST-240729B,10r
26	N069444-002A,SAMP	26	1000	Unknown		10/28/2024 13:30	Finished	SAMP,10 mL
27	N069444-002AMS,M	27	1000	Unknown		10/28/2024 13:39	Finished	MS (1ppb), IWST-240729B,10r
28	N069444-003A,SAMP	28	1000	Unknown		10/28/2024 13:49	Finished	SAMP,10 mL
29	N069444-003AMS,M	29	1000	Unknown		10/28/2024 13:58	Finished	MS (1ppb), IWST-240729B,10r
30	N069444-001A,SAMP	30	1000	Unknown		10/28/2024 14:08	Finished	SAMP,2>10 mL
31	N069444-001AMS,M	31	1000	Unknown		10/28/2024 14:17	Finished	MS (1ppb), IWST-240729B,2>10
32	N069444-002A,SAMP	32	1000	Unknown		10/28/2024 14:27	Finished	SAMP,2>10 mL
33	N069444-002AMS,M	33	1000	Unknown		10/28/2024 14:36	Finished	MS (1ppb), IWST-240729B,2>10
34	CCV-2,CCV,1,	34	1000	Unknown		10/28/2024 14:46	Finished	CCV @5ppb, IWST-240729A
35	CCB-2,CCB,1,	35	1000	Unknown		10/28/2024 14:55	Finished	CCB R240926A
36	N069444-003A,SAMP	36	1000	Unknown		10/28/2024 15:04	Finished	SAMP,2>10 mL
37	N069444-003AMS,M	37	1000	Unknown		10/28/2024 15:14	Finished	MS (1ppb), IWST-240729B,2>10
38	N069233-009A,SAMP	38	1000	Unknown		10/28/2024 15:23	Finished	SAMP,2>10 mL
39	N069233-009AMS,M	39	1000	Unknown		10/28/2024 15:33	Finished	MS (1ppb), IWST-240729B,2>10
40	N069233-015A,SAMP	40	1000	Unknown		10/28/2024 15:42	Finished	SAMP,2>10 mL
41	N069233-015AMS,M	41	1000	Unknown		10/28/2024 15:52	Finished	MS (1ppb), IWST-240729B,2>10
42	CCV-3,CCV1,1,	42	1000	Unknown		10/28/2024 16:01	Finished	CCV @10ppb, IWST-240729A
43	CCB-3,CCB,1,	43	1000	Unknown		10/28/2024 16:11	Finished	CCB R240926A
44	BLANK	44	1000	Unknown		10/28/2024 16:20	Finished	BLANK
45	SHUTDOWN	45	1000	Unknown		10/28/2024 16:30	Finished	
46	Eluent: R241025A	46	1000	Unknown		n.a.	Finished	
47	PCR: R241025B	47	1000	Unknown		n.a.	Finished	

Reviewed by:

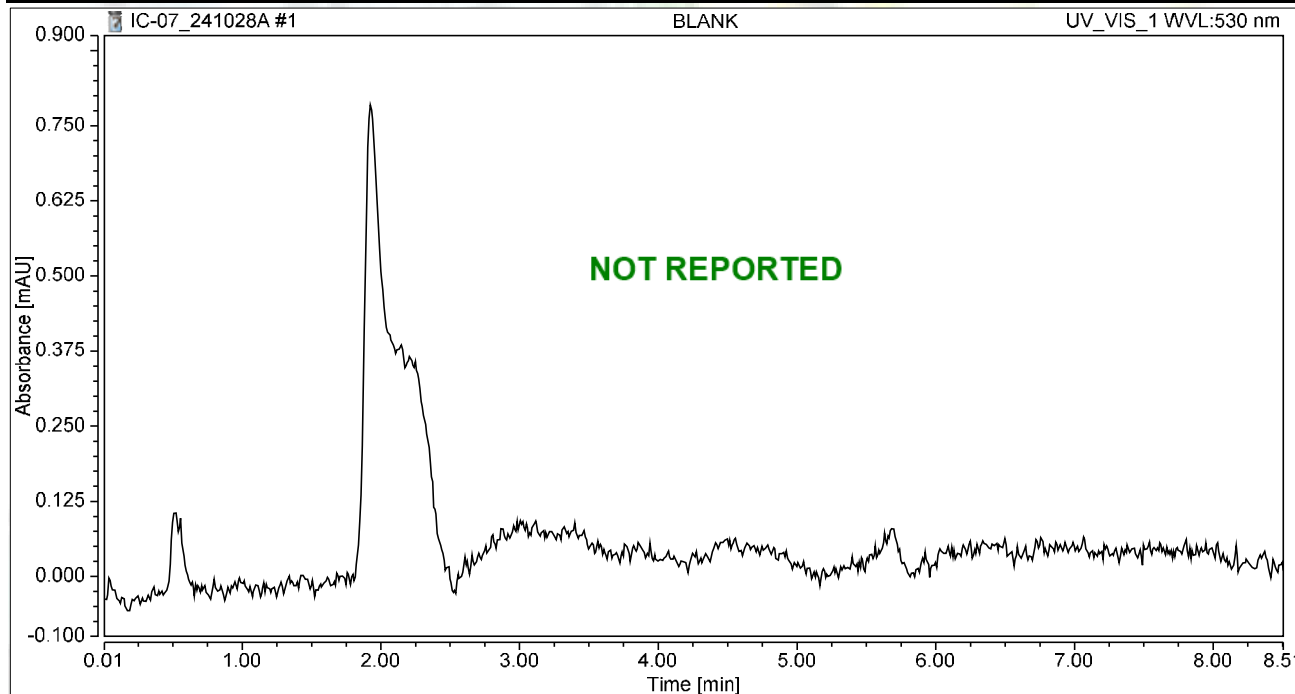
d/rocha 11/3/2024

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 09:30	Sample Weight:	1.0000

Chromatogram



Integration Results

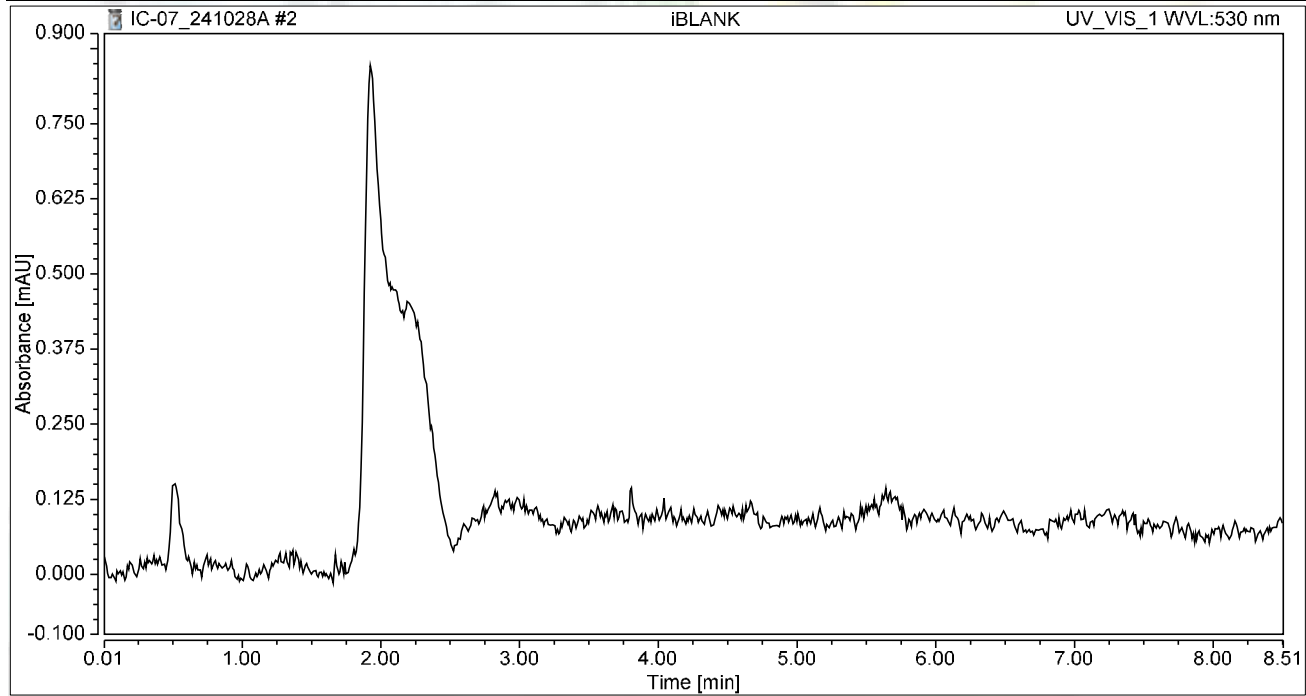
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	iBLANK	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 09:43	Sample Weight:	1.0000

Chromatogram



Integration Results

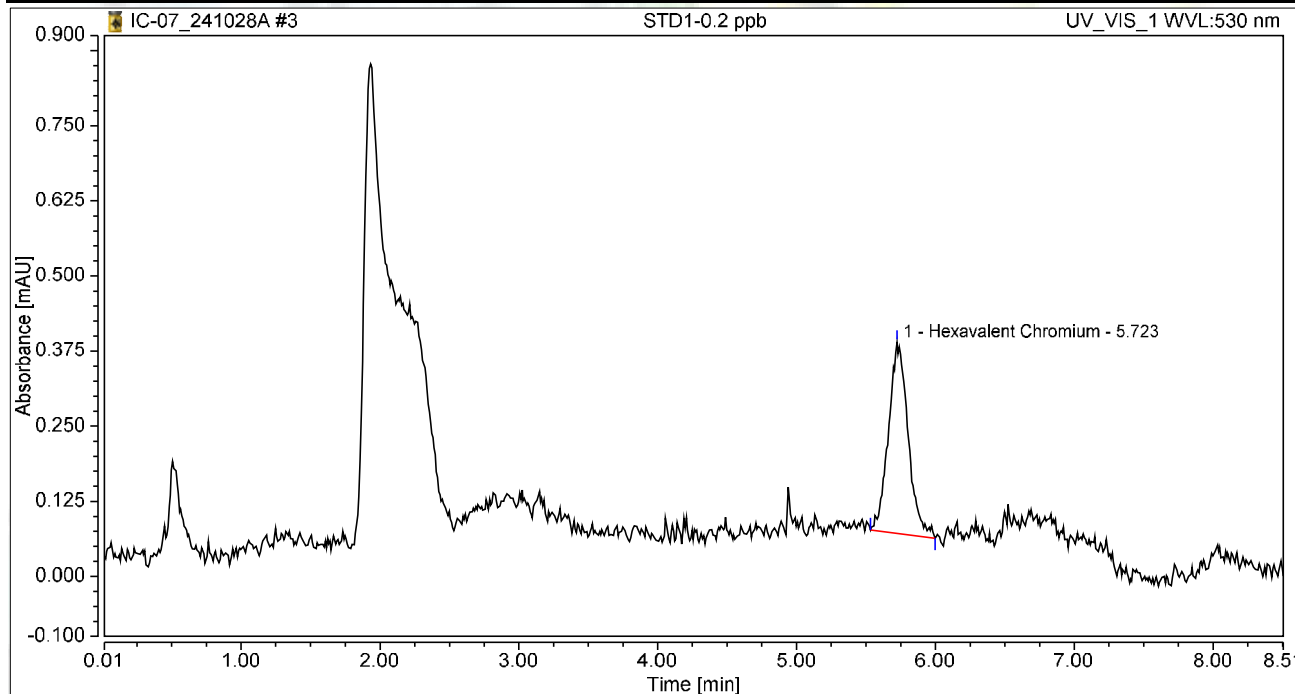
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	STD1-0.2 ppb	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	01	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 09:52	Sample Weight:	1.0000

Chromatogram



Integration Results

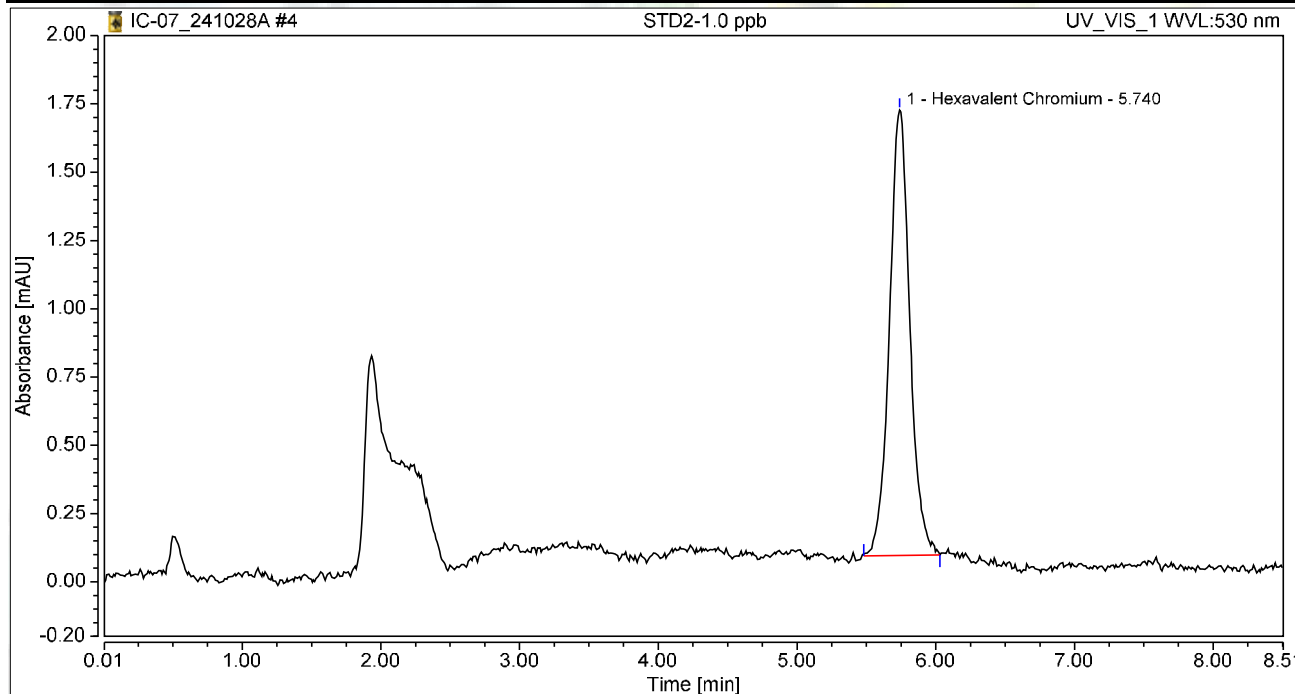
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.053	0.318	100.00	100.00	0.1857
Total:			0.053	0.318	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD2-1.0 ppb	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	02	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:02	Sample Weight:	1.0000

Chromatogram



Integration Results

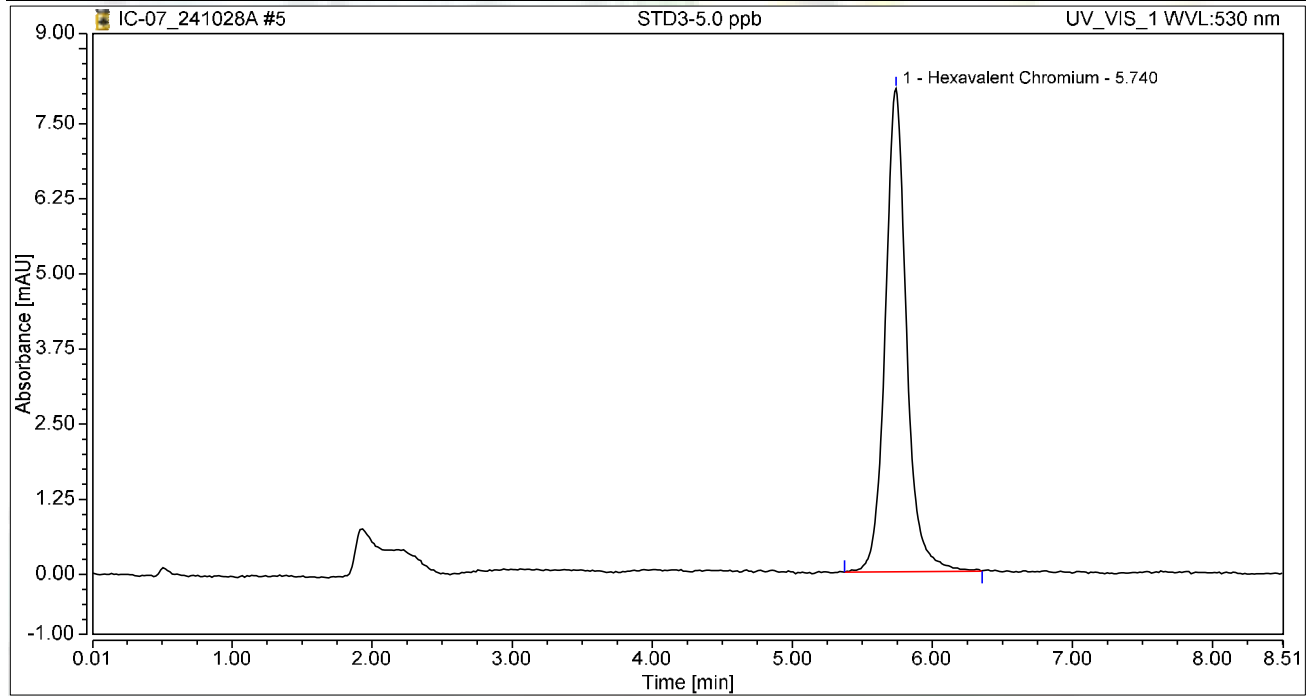
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	0.278	1.631	100.00	100.00	0.9794
Total:			0.278	1.631	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD3-5.0 ppb	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	03	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:11	Sample Weight:	1.0000

Chromatogram



Integration Results

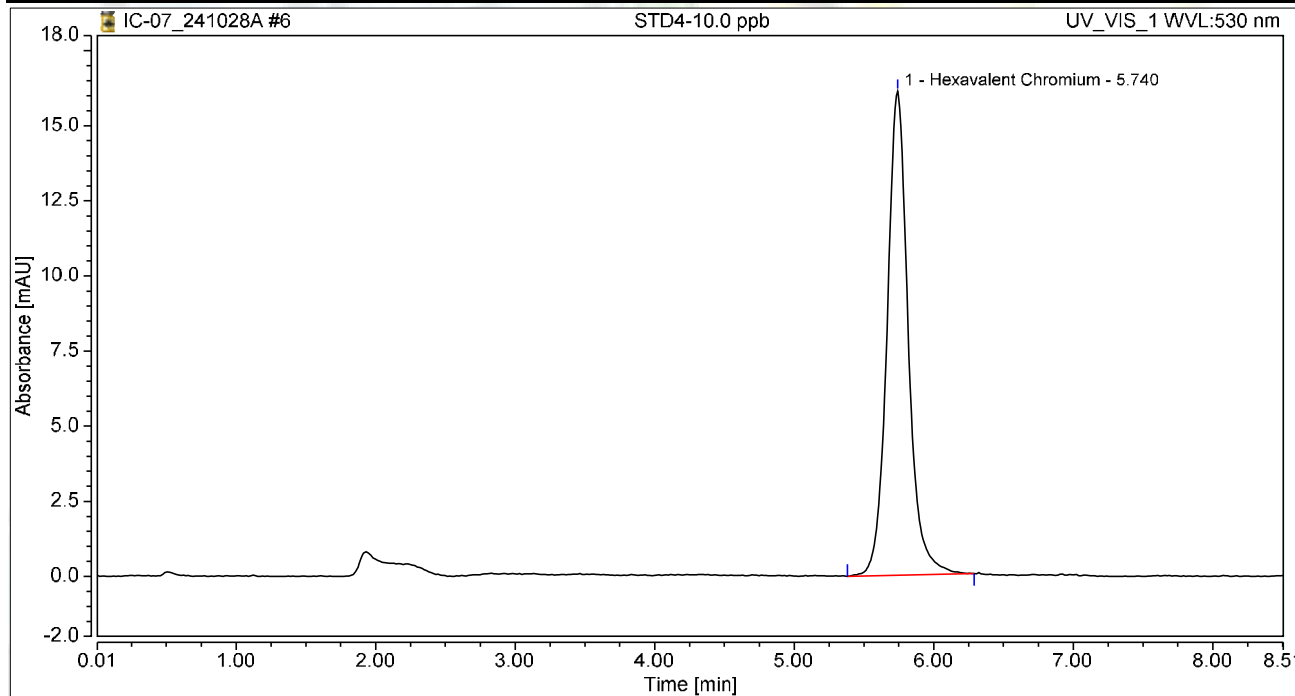
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	1.420	8.039	100.00	100.00	5.0028
Total:			1.420	8.039	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD4-10.0 ppb	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	04	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:21	Sample Weight:	1.0000

Chromatogram



Integration Results

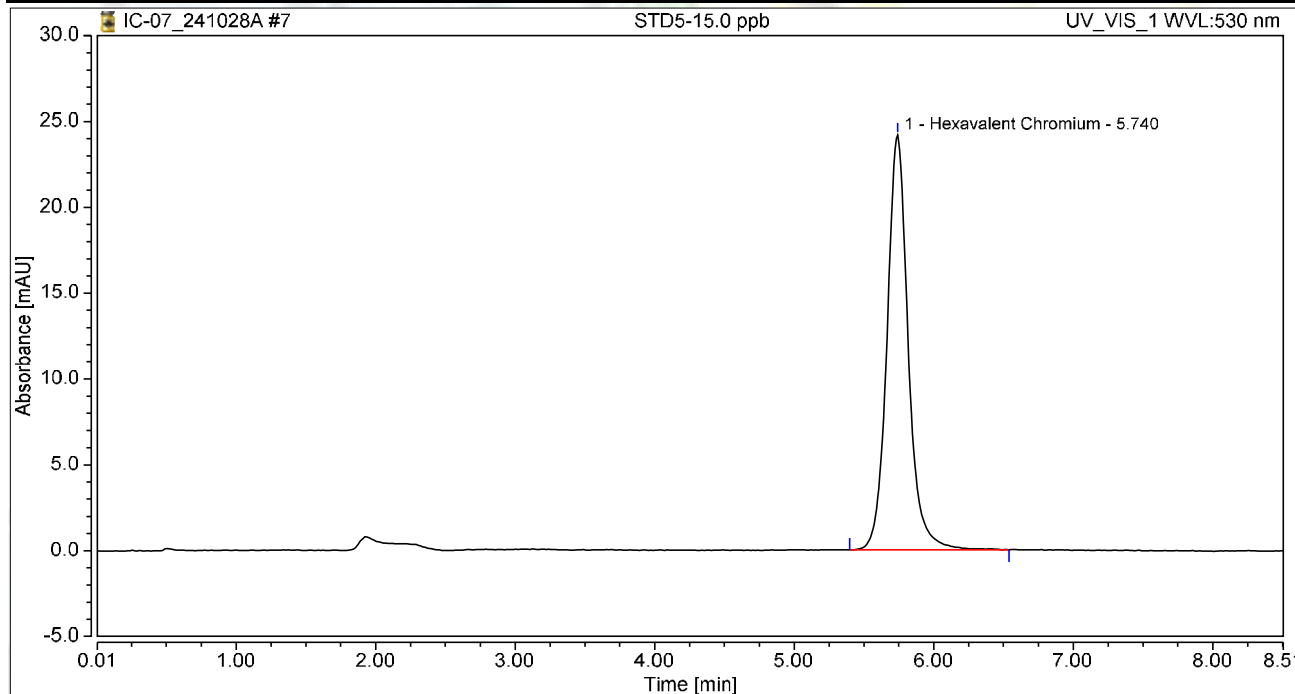
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	2.824	16.106	100.00	100.00	9.9507
Total:			2.824	16.106	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD5-15.0 ppb	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	05	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:30	Sample Weight:	1.0000

Chromatogram



Integration Results

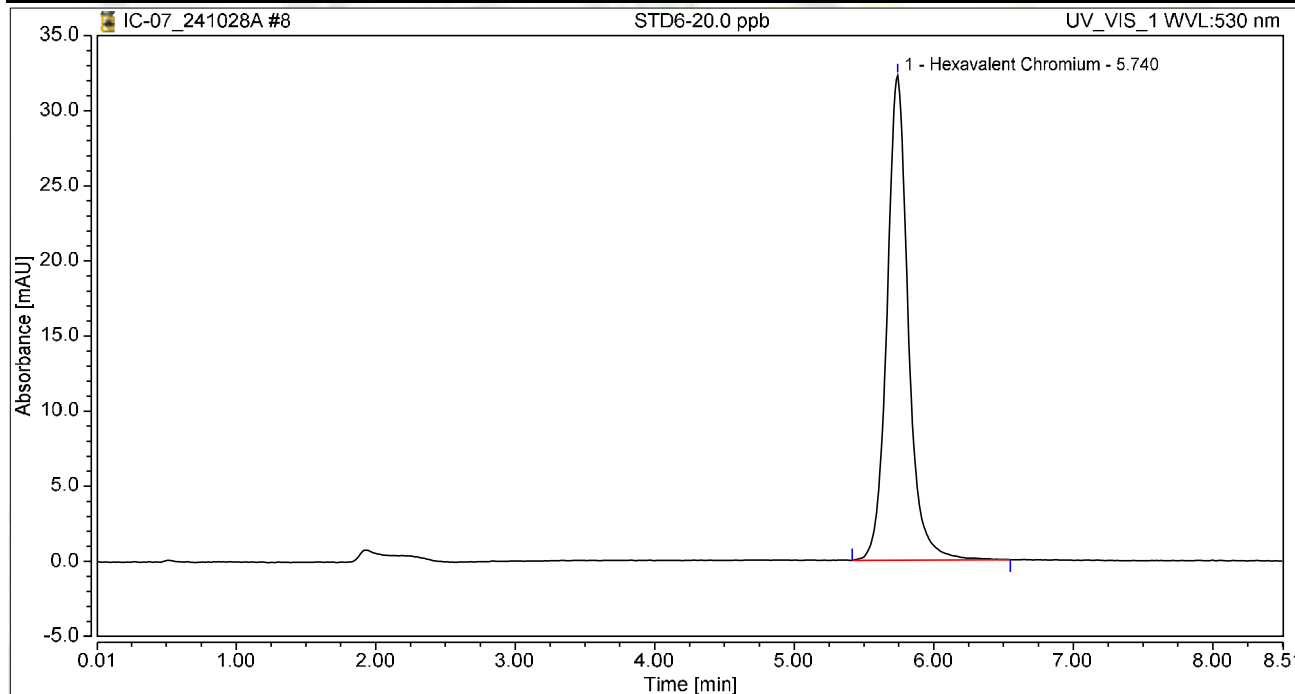
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	4.255	24.168	100.00	100.00	14.9966
Total:			4.255	24.168	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	STD6-20.0 ppb	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Calibration Standard	Channel:	UV_VIS_1
Calibration Level:	06	Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:40	Sample Weight:	1.0000

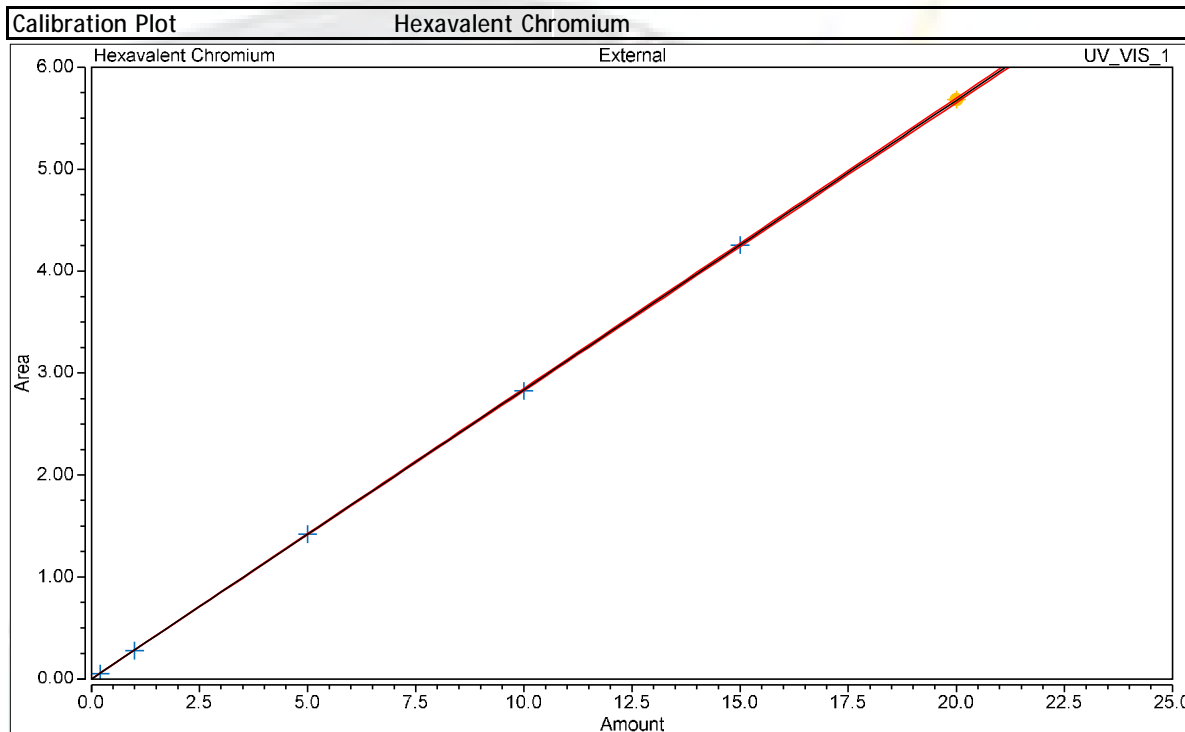
Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	5.683	32.257	100.00	100.00	20.0277
Total:			5.683	32.257	100.00	100.00	

Initial Calibration Summary			
Calibration Details		Hexavalent Chromium	
Calibration Type	Lin	Offset (C0)	0.0000
Evaluation Type	Area	Slope (C1)	0.2838
Number of Calibration Points	6	Curve (C2)	0.0000
Number of disabled Calibration Points	0	R-Square	0.99999



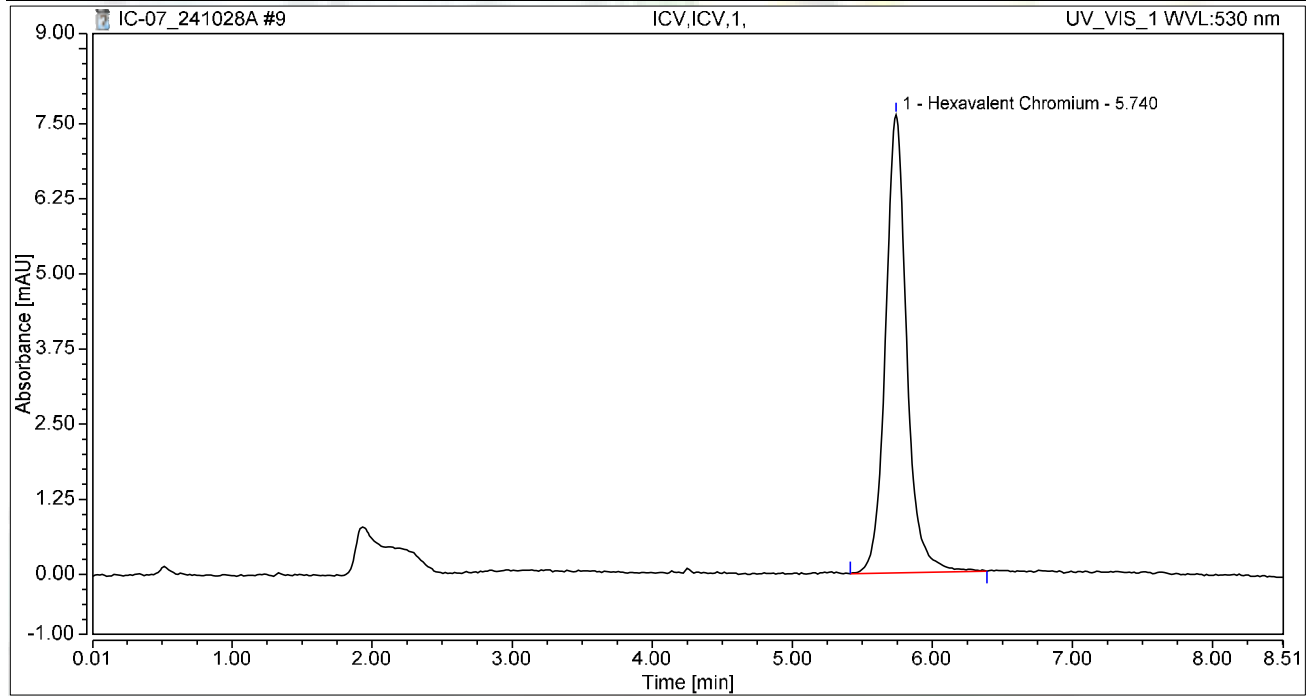
Calibration Results		Hexavalent Chromium				
No.	Injection Name	Calibration Level	X Value	Y Value	Area mAU*min	Height mAU
3	STD1-0.2 ppb	01	0.2000	0.0527	0.053	0.318
4	STD2-1.0 ppb	02	1.0000	0.2779	0.278	1.631
5	STD3-5.0 ppb	03	5.0000	1.4196	1.420	8.039
6	STD4-10.0 ppb	04	10.0000	2.8235	2.824	16.106
7	STD5-15.0 ppb	05	15.0000	4.2553	4.255	24.168
8	STD6-20.0 ppb	06	20.0000	5.6829	5.683	32.257

Chromatogram and Results

Injection Details

Injection Name:	ICV,ICV,1,	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:49	Sample Weight:	1.0000

Chromatogram



Integration Results

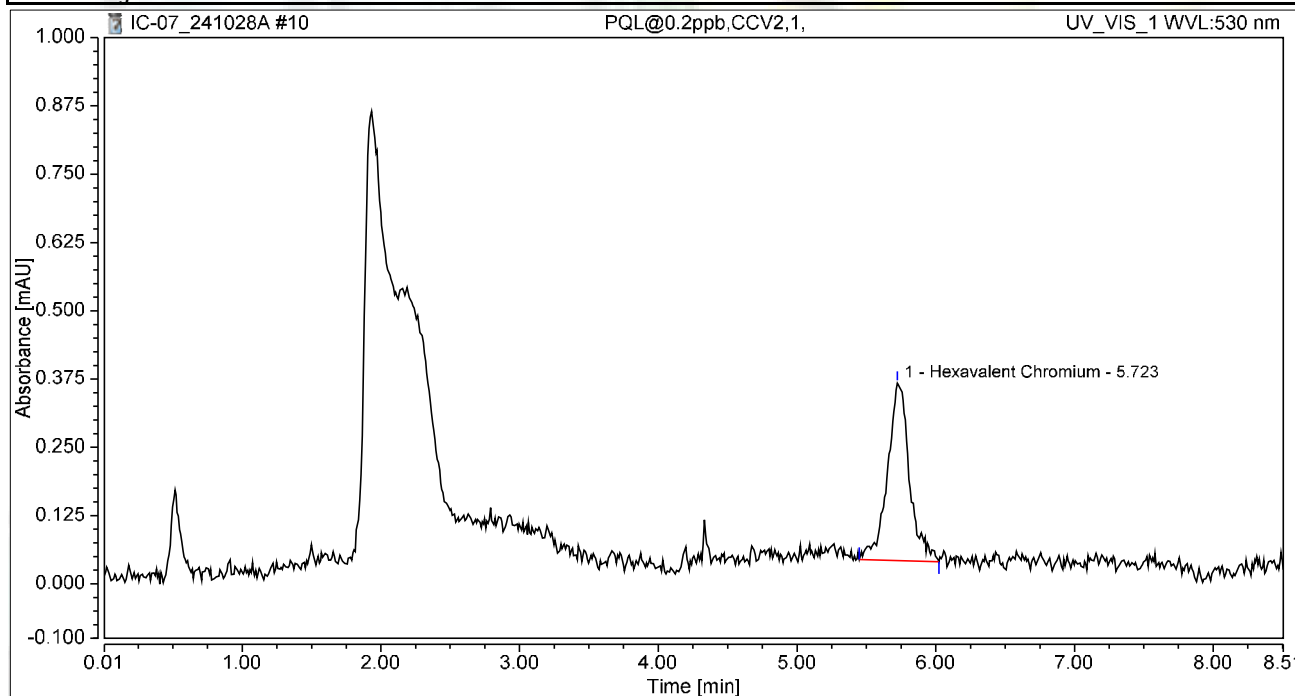
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	1.342	7.624	100.00	100.00	4.7300
Total:			1.342	7.624	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 10:59	Sample Weight:	1.0000

Chromatogram



Integration Results

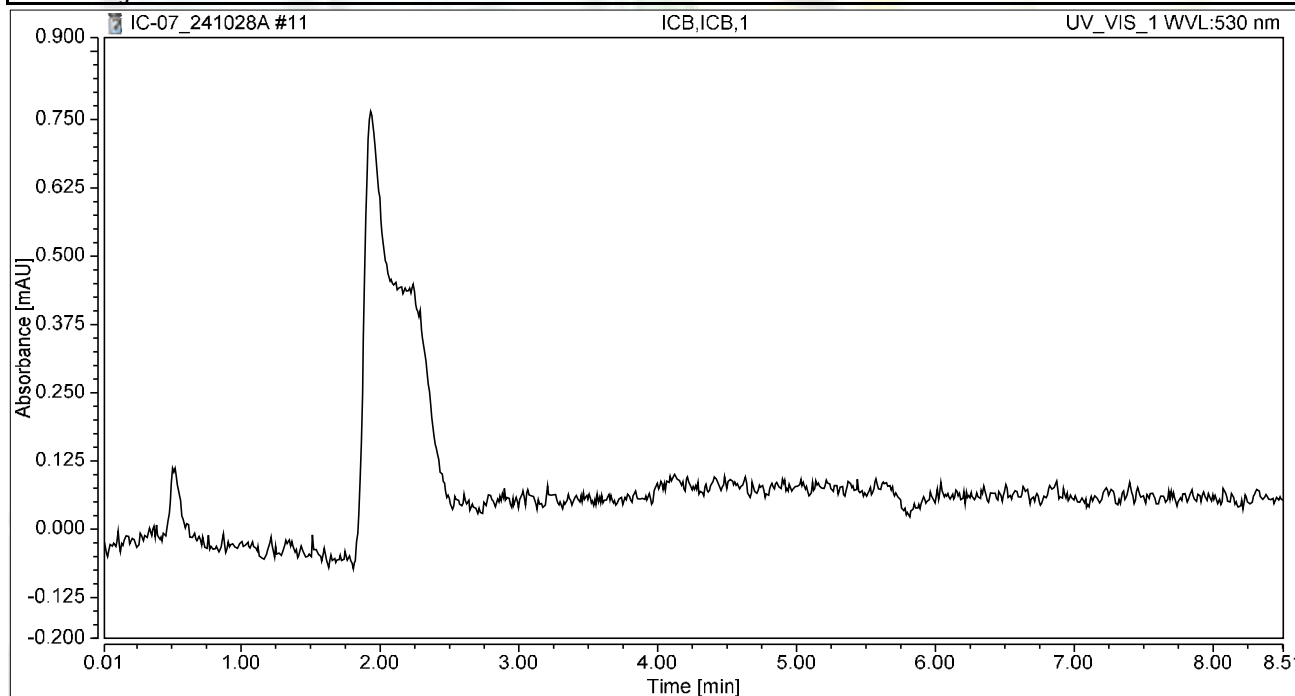
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.060	0.325	100.00	100.00	0.2110
Total:			0.060	0.325	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	ICB,ICB,1	Run Time (min):	8.49
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	28/Oct/24 11:08	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	



RAW DATA



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INTEGRATION • ANALYSIS • REPORTING • SUPPORT

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11110 Artesia Blvd., Ste B, Cerritos, CA 90703
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"Serving Clients with Passion and Professionalism"

INJECTION LOG: 241112A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	11/12/24 8:43 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	11/12/24 8:54 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	11/12/24 9:04 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	11/12/24 9:13 AM	Reported
13	MB-R195583	MBLK	1	Hexavalent Chromium	11/12/24 9:22 AM	Reported
14	LCS-R195583	LCS	1	Hexavalent Chromium	11/12/24 9:32 AM	Reported
15	N069888-001B	SAMP	1	Hexavalent Chromium	11/12/24 9:41 AM	Reported
16	N069888-002B	SAMP	1	Hexavalent Chromium	11/12/24 9:51 AM	Reported
17	N069888-003B	SAMP	5	Hexavalent Chromium	11/12/24 10:00 AM	Reported
18	N069888-004A	SAMP	1	Hexavalent Chromium	11/12/24 10:10 AM	Reported
19	N069888-001BREP	DUP	1	Hexavalent Chromium	11/12/24 10:19 AM	Not Reported
20	N069888-002BREP	DUP	1	Hexavalent Chromium	11/12/24 10:29 AM	Reported
21	N069888-003BREP	DUP	5	Hexavalent Chromium	11/12/24 10:38 AM	Reported
22	N069888-004AREP	DUP	1	Hexavalent Chromium	11/12/24 10:48 AM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	11/12/24 10:57 AM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	11/12/24 11:07 AM	Reported
25	N069888-001BMS	MS	1	Hexavalent Chromium	11/12/24 11:16 AM	Reported
26	N069888-002BMS	MS	1	Hexavalent Chromium	11/12/24 11:25 AM	Reported
27	N069888-003BMS	MS	5	Hexavalent Chromium	11/12/24 11:35 AM	Reported
28	N069888-004AMS	MS	1	Hexavalent Chromium	11/12/24 11:44 AM	Reported
29	N069888-001BREP	DUP	1	Hexavalent Chromium	11/12/24 12:33 PM	Reported
30	N069824-009A	SAMP	5	Hexavalent Chromium	11/12/24 12:44 PM	Not Reported
31	N069824-010A	SAMP	5	Hexavalent Chromium	11/12/24 12:54 PM	Not Reported
32	N069839-006A	SAMP	1	Hexavalent Chromium	11/12/24 1:03 PM	Reported
33	N069839-007A	SAMP	1	Hexavalent Chromium	11/12/24 1:13 PM	Reported
34	N069839-008A	SAMP	1	Hexavalent Chromium	11/12/24 1:22 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	11/12/24 1:32 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	11/12/24 1:41 PM	Reported
37	N069891-010A	SAMP	1	Hexavalent Chromium	11/12/24 1:51 PM	Not Reported
38	N069891-010AMS	MS	1	Hexavalent Chromium	11/12/24 2:00 PM	Not Reported
39	N069891-010A	SAMP	5	Hexavalent Chromium	11/12/24 2:10 PM	Reported
40	N069891-010AMS	MS	5	Hexavalent Chromium	11/12/24 2:19 PM	Reported
41	N069891-010AMSD	MSD	5	Hexavalent Chromium	11/12/24 2:29 PM	Reported
42	N069891-010AMSD	MSD	1	Hexavalent Chromium	11/12/24 2:38 PM	Not Reported

INJECTION LOG: 241112A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069891-010AMSD	MSD	1	Hexavalent Chromium	11/12/24 3:50 PM	Not Reported
44	N069891-001A	SAMP	5	Hexavalent Chromium	11/12/24 4:02 PM	Reported
45	N069891-001AMS	MS	5	Hexavalent Chromium	11/12/24 4:11 PM	Reported
46	N069891-002A	SAMP	500	Hexavalent Chromium	11/12/24 4:20 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	11/12/24 4:30 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	11/12/24 4:39 PM	Reported
49	N069891-002AMS	MS	500	Hexavalent Chromium	11/12/24 4:49 PM	Reported
50	N069891-003A	SAMP	200	Hexavalent Chromium	11/12/24 4:58 PM	Reported
51	N069891-003ADUP	DUP	200	Hexavalent Chromium	11/12/24 5:11 PM	Reported
52	N069891-003AMS	MS	200	Hexavalent Chromium	11/12/24 5:20 PM	Reported
53	N069891-004A	SAMP	1	Hexavalent Chromium	11/12/24 5:30 PM	Reported
54	N069891-004AMS	MS	1	Hexavalent Chromium	11/12/24 5:56 PM	Not Reported
55	N069891-005A	SAMP	1	Hexavalent Chromium	11/12/24 6:09 PM	Reported
56	N069891-005AMS	MS	1	Hexavalent Chromium	11/12/24 6:19 PM	Reported
57	N069891-006A	SAMP	1	Hexavalent Chromium	11/12/24 6:28 PM	Not Reported
58	N069891-006AMS	MS	1	Hexavalent Chromium	11/12/24 6:37 PM	Not Reported
59	CCV-5	CCV	1	Hexavalent Chromium	11/12/24 6:47 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	11/12/24 6:56 PM	Reported
61	N069891-008A	SAMP	1	Hexavalent Chromium	11/12/24 7:09 PM	Reported
62	N069891-008AMS	MS	1	Hexavalent Chromium	11/12/24 7:18 PM	Reported
63	N069891-009A	SAMP	1	Hexavalent Chromium	11/12/24 7:28 PM	Not Reported
64	N069891-009AMS	MS	1	Hexavalent Chromium	11/12/24 7:37 PM	Not Reported
65	N069891-007A	SAMP	1	Hexavalent Chromium	11/12/24 7:46 PM	Not Reported
66	N069891-007AMS	MS	1	Hexavalent Chromium	11/12/24 7:56 PM	Not Reported
67	N069891-007A	SAMP	5	Hexavalent Chromium	11/12/24 8:05 PM	Reported
68	N069891-007AMS	MS	5	Hexavalent Chromium	11/12/24 8:15 PM	Reported
69	N069891-011A	SAMP	1	Hexavalent Chromium	11/12/24 8:24 PM	Not Reported
70	N069891-011AMS	MS	1	Hexavalent Chromium	11/12/24 8:34 PM	Not Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	11/12/24 8:43 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	11/12/24 8:53 PM	Reported
73	N069891-011A	SAMP	5	Hexavalent Chromium	11/12/24 9:02 PM	Reported
74	N069891-011AMS	MS	5	Hexavalent Chromium	11/12/24 9:12 PM	Reported
75	N069891-004AMS	MS	1	Hexavalent Chromium	11/12/24 9:21 PM	Reported
76	MB-2	MBLK	1	Hexavalent Chromium	11/12/24 9:31 PM	Not Reported
77	LCS-2	LCS	1	Hexavalent Chromium	11/12/24 9:40 PM	Not Reported
78	N069543-002A	SAMP	5	Hexavalent Chromium	11/12/24 9:49 PM	Not Reported
79	N069543-002AMS	MS	5	Hexavalent Chromium	11/12/24 9:59 PM	Not Reported
80	N069543-003A	SAMP	5	Hexavalent Chromium	11/12/24 10:08 PM	Not Reported
81	N069543-003AMS	MS	5	Hexavalent Chromium	11/12/24 10:18 PM	Not Reported
82	N069543-007A	SAMP	1	Hexavalent Chromium	11/12/24 10:27 PM	Not Reported
83	CCV-7	CCV	1	Hexavalent Chromium	11/12/24 10:37 PM	Reported
84	CCB-7	CCB	1	Hexavalent Chromium	11/12/24 10:46 PM	Reported

50
50

Nancy 12/02/2024
for RBA

INJECTION LOG: 241112A**Instrument ID: NV00922-IC7**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N069543-007AMS	MS	1	Hexavalent Chromium	11/12/24 10:56 PM	Not Reported
86	N069543-008A	SAMP	5	Hexavalent Chromium	11/12/24 11:05 PM	Not Reported
87	N069543-008AMS	MS	5	Hexavalent Chromium	11/12/24 11:15 PM	Not Reported
88	N069543-009A	SAMP	5	Hexavalent Chromium	11/12/24 11:24 PM	Not Reported
89	N069543-009AMS	MS	5	Hexavalent Chromium	11/12/24 11:34 PM	Not Reported
90	N069543-019A	SAMP	5	Hexavalent Chromium	11/12/24 11:43 PM	Not Reported
91	N069543-019AMS	MS	5	Hexavalent Chromium	11/12/24 11:52 PM	Not Reported
92	N069543-020A	SAMP	5	Hexavalent Chromium	11/13/24 12:02 AM	Not Reported
93	N069543-020AMS	MS	5	Hexavalent Chromium	11/13/24 12:11 AM	Not Reported
94	CCV-8	CCV1	1	Hexavalent Chromium	11/13/24 12:21 AM	Not Reported
95	CCB-8	CCB	1	Hexavalent Chromium	11/13/24 12:30 AM	Not Reported
96	BLANK	BLANK	1	Hexavalent Chromium	11/13/24 12:40 AM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241112A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	13/Nov/24 01:10:33
No. of Injections:	99	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	BLANK	1	1000	Unknown		11/12/2024 08:43	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		11/12/2024 08:54	Finished	CCV @5ppb, IWST-240729A
11	PQL@0.2ppb,CCV2,	3	1000	Unknown		11/12/2024 09:04	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		11/12/2024 09:13	Finished	CCB R241001A
13	MB-H2O,MBLK,1,	5	1000	Unknown		11/12/2024 09:22	Finished	MB R241001A
14	LCS-H2O,LCS,1,	6	1000	Unknown		11/12/2024 09:32	Finished	LCS @5ppb, IWST-240729B
15	N069888-001B,SAMP	7	1000	Unknown		11/12/2024 09:41	Finished	SAMP,10 mL
16	N069888-002B,SAMP	8	1000	Unknown		11/12/2024 09:51	Finished	SAMP,10 mL
17	N069888-003B,SAMP	9	1000	Unknown		11/12/2024 10:00	Finished	SAMP,2>10 mL
18	N069888-004A,SAMP	10	1000	Unknown		11/12/2024 10:10	Finished	SAMP,10 mL
19	N069888-001BREP,D	11	1000	Unknown		11/12/2024 10:19	Finished	REP,10 mL
20	N069888-002BREP,D	12	1000	Unknown		11/12/2024 10:29	Finished	REP,10 mL
21	N069888-003BREP,D	13	1000	Unknown		11/12/2024 10:38	Finished	REP,2>10 mL
22	N069888-004AREP,D	14	1000	Unknown		11/12/2024 10:48	Finished	REP,10 mL
23	CCV-2,CCV1,1,	15	1000	Unknown		11/12/2024 10:57	Finished	CCV @10ppb, IWST-240729A
24	CCB-2,CCB,1,	16	1000	Unknown		11/12/2024 11:07	Finished	CCB R241001A
25	N069888-001BMS,MS	17	1000	Unknown		11/12/2024 11:16	Finished	MS (1ppb), IWST-240729B,10r
26	N069888-002BMS,MS	18	1000	Unknown		11/12/2024 11:25	Finished	MS (1ppb), IWST-240729B,10r
27	N069888-003BMS,MS	19	1000	Unknown		11/12/2024 11:35	Finished	MS (1ppb), IWST-240729B,2>
28	N069888-004AMS,MS	20	1000	Unknown		11/12/2024 11:44	Finished	MS (1ppb), IWST-240729B,10r
29	N069888-001BREP,D	1	1000	Unknown		11/12/2024 12:33	Finished	REP,10 mL
30	N069824-009A,SAMP	2	1000	Unknown		11/12/2024 12:44	Finished	SAMP,10 mL
31	N069824-010A,SAMP	3	1000	Unknown		11/12/2024 12:54	Finished	SAMP,2>10 mL
32	N069839-006A,SAMP	4	1000	Unknown		11/12/2024 13:03	Finished	SAMP,10 mL
33	N069839-007A,SAMP	5	1000	Unknown		11/12/2024 13:13	Finished	SAMP,10 mL
34	N069839-008A,SAMP	6	1000	Unknown		11/12/2024 13:22	Finished	SAMP,10 mL
35	CCV-3,CCV,1,	7	1000	Unknown		11/12/2024 13:32	Finished	CCV @5ppb, IWST-240729A
36	CCB-3,CCB,1,	8	1000	Unknown		11/12/2024 13:41	Finished	CCB R241001A
37	N069891-010A,SAMP	9	1000	Unknown		11/12/2024 13:51	Finished	SAMP,10 mL
38	N069891-010AMS,MS	10	1000	Unknown		11/12/2024 14:00	Finished	MS (1ppb), IWST-240729B,10r
39	N069891-010A,SAMP	11	1000	Unknown		11/12/2024 14:10	Finished	SAMP,2>10 mL
40	N069891-010AMS,MS	12	1000	Unknown		11/12/2024 14:19	Finished	MS (1ppb), IWST-240729B,2>
41	N069891-010AMSD,N	13	1000	Unknown		11/12/2024 14:29	Finished	MSD (1ppb), IWST-240729B,2>
42	N069891-010AMSD,N	15	1000	Unknown		11/12/2024 14:38	Finished	MSD (1ppb), IWST-240729B,1f
43	N069891-010AMSD,N	1	1000	Unknown		11/12/2024 15:50	Finished	MSD (1ppb), IWST-240729B,1f
44	N069891-001A,SAMP	2	1000	Unknown		11/12/2024 16:02	Finished	SAMP,2>10 mL 0.2>10ml
45	N069891-001AMS,MS	3	1000	Unknown		11/12/2024 16:11	Finished	MS (5ppb), IWST-240729B,2>
46	N069891-002A,SAMP	4	1000	Unknown		11/12/2024 16:20	Finished	SAMP,0.02>10 mL
47	CCV-4,CCV1,1,	5	1000	Unknown		11/12/2024 16:30	Finished	CCV @10ppb, IWST-240729A
48	CCB-4,CCB,1,002A	6	1000	Unknown		11/12/2024 16:39	Finished	CCB R241001A
49	N069891-004AMS,MS	7	1000	Unknown		11/12/2024 16:49	Finished	MS (5ppb), IWST-240729B,0.0
50	N069891-003A,SAMP	8	1000	Unknown		11/12/2024 16:58	Finished	SAMP,0.05>10 mL
51	N069891-003ADUP,D	9	1000	Unknown		11/12/2024 17:11	Finished	DUP,0.05>10 mL
52	N069891-003AMS,MS	10	1000	Unknown		11/12/2024 17:20	Finished	MS (5ppb), IWST-240729B,0.0
53	N069891-004A,SAMP	11	1000	Unknown		11/12/2024 17:30	Finished	SAMP,10 mL
54	N069891-004AMS,MS	1	1000	Unknown		11/12/2024 17:56	Finished	MS (1ppb), IWST-240729B,10r
55	N069891-005A,SAMP	2	1000	Unknown		11/12/2024 18:09	Finished	SAMP,10 mL
56	N069891-005AMS,MS	3	1000	Unknown		11/12/2024 18:19	Finished	MS (1ppb), IWST-240729B,10r
57	N069891-006A,SAMP	4	1000	Unknown		11/12/2024 18:28	Finished	SAMP,10 mL
58	N069891-006AMS,MS	5	1000	Unknown		11/12/2024 18:37	Finished	MS (1ppb), IWST-240729B,10r
59	CCV-5,CCV,1,	6	1000	Unknown		11/12/2024 18:47	Finished	CCV @5ppb, IWST-240729A
60	CCB-5,CCB,1,	7	1000	Unknown		11/12/2024 18:56	Finished	CCB R241001A

61	N069891-008A,SAMP	8	1000	Unknown		11/12/2024 19:09	Finished	SAMP,10 mL
62	N069891-008AMS,MS	9	1000	Unknown		11/12/2024 19:18	Finished	MS (1ppb), IWST-240729B,10r
63	N069891-009A,SAMP	10	1000	Unknown		11/12/2024 19:28	Finished	SAMP,10 mL
64	N069891-009AMS,MS	11	1000	Unknown		11/12/2024 19:37	Finished	MS (1ppb), IWST-240729B,10r
65	N069891-007A,SAMP	12	1000	Unknown		11/12/2024 19:46	Finished	SAMP,10 mL
66	N069891-007AMS,MS	13	1000	Unknown		11/12/2024 19:56	Finished	MS (1ppb), IWST-240729B,10r
67	N069891-007A,SAMP	14	1000	Unknown		11/12/2024 20:05	Finished	SAMP,2>10 mL
68	N069891-007AMS,MS	15	1000	Unknown		11/12/2024 20:15	Finished	MS (1ppb), IWST-240729B,2>
69	N069891-011A,SAMP	16	1000	Unknown		11/12/2024 20:24	Finished	SAMP,10 mL
70	N069891-011AMS,MS	17	1000	Unknown		11/12/2024 20:34	Finished	MS (1ppb), IWST-240729B,10r
71	CCV-6,CCV1,1,	18	1000	Unknown		11/12/2024 20:43	Finished	CCV @10ppb, IWST-240729A
72	CCB-6,CCB,1,	19	1000	Unknown		11/12/2024 20:53	Finished	CCB R241001A
73	N069891-011A,SAMP	20	1000	Unknown		11/12/2024 21:02	Finished	SAMP,2>10 mL
74	N069891-011AMS,MS	21	1000	Unknown		11/12/2024 21:12	Finished	MS (1ppb), IWST-240729B,2>
75	N069891-004AMS,MS	22	1000	Unknown		11/12/2024 21:21	Finished	MS (1ppb), IWST-240729B,10r
76	MB-2,MBLK,1,	23	1000	Unknown		11/12/2024 21:31	Finished	MB R241001A
77	LCS-2,LCS,1,	24	1000	Unknown		11/12/2024 21:40	Finished	LCS @5ppb, IWST-240729B
78	N069543-002A,SAMP	25	1000	Unknown		11/12/2024 21:49	Finished	SAMP,2>10 mL
79	N069543-002AMS,MS	26	1000	Unknown		11/12/2024 21:59	Finished	MS (1ppb), IWST-240729B,2>
80	N069543-003A,SAMP	27	1000	Unknown		11/12/2024 22:08	Finished	SAMP,2>10 mL
81	N069543-003AMS,MS	28	1000	Unknown		11/12/2024 22:18	Finished	MS (1ppb), IWST-240729B,2>
82	N069543-007A,SAMP	29	1000	Unknown		11/12/2024 22:27	Finished	SAMP,10 mL
83	CCV-7,CCV,1,	30	1000	Unknown		11/12/2024 22:37	Finished	CCV @5ppb, IWST-240729A
84	CCB-7,CCB,1,	31	1000	Unknown		11/12/2024 22:46	Finished	CCB R241001A
85	N069543-007AMS,MS	32	1000	Unknown		11/12/2024 22:56	Finished	MS (1ppb), IWST-240729B,10r
86	N069543-008A,SAMP	33	1000	Unknown		11/12/2024 23:05	Finished	SAMP,2>10 mL
87	N069543-008AMS,MS	34	1000	Unknown		11/12/2024 23:15	Finished	MS (1ppb), IWST-240729B,2>
88	N069543-009A,SAMP	35	1000	Unknown		11/12/2024 23:24	Finished	SAMP,2>10 mL
89	N069543-009AMS,MS	36	1000	Unknown		11/12/2024 23:34	Finished	MS (1ppb), IWST-240729B,2>
90	N069543-019A,SAMP	37	1000	Unknown		11/12/2024 23:43	Finished	SAMP,2>10 mL
91	N069543-019AMS,MS	38	1000	Unknown		11/12/2024 23:52	Finished	MS (1ppb), IWST-240729B,2>
92	N069543-020A,SAMP	39	1000	Unknown		11/13/2024 00:02	Finished	SAMP,2>10 mL
93	N069543-020AMS,MS	40	1000	Unknown		11/13/2024 00:11	Finished	MS (1ppb), IWST-240729B,2>
94	CCV-8,CCV1,1,	41	1000	Unknown		11/13/2024 00:21	Finished	CCV @10ppb, IWST-240729A
95	CCB-8,CCB,1,	42	1000	Unknown		11/13/2024 00:30	Finished	CCB R241001A
96	BLANK	43	1000	Unknown		11/13/2024 00:40	Finished	BLANK
97	SHUTDOWN	44	1000	Unknown		11/13/2024 00:49	Finished	
98	Eluent: R241111A	45	1000	Unknown		n.a.	Finished	
99	PCR: R241111B	46	1000	Unknown		n.a.	Finished	

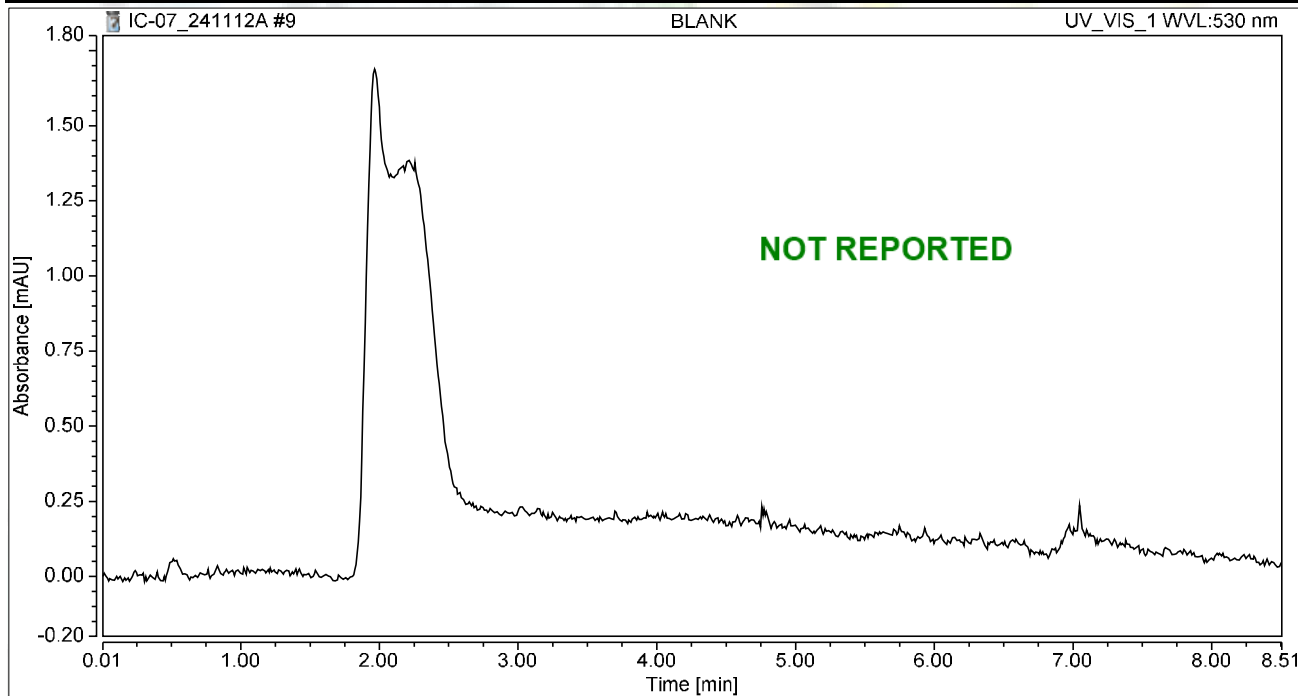


Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 08:43	Sample Weight:	1.0000

Chromatogram



Integration Results

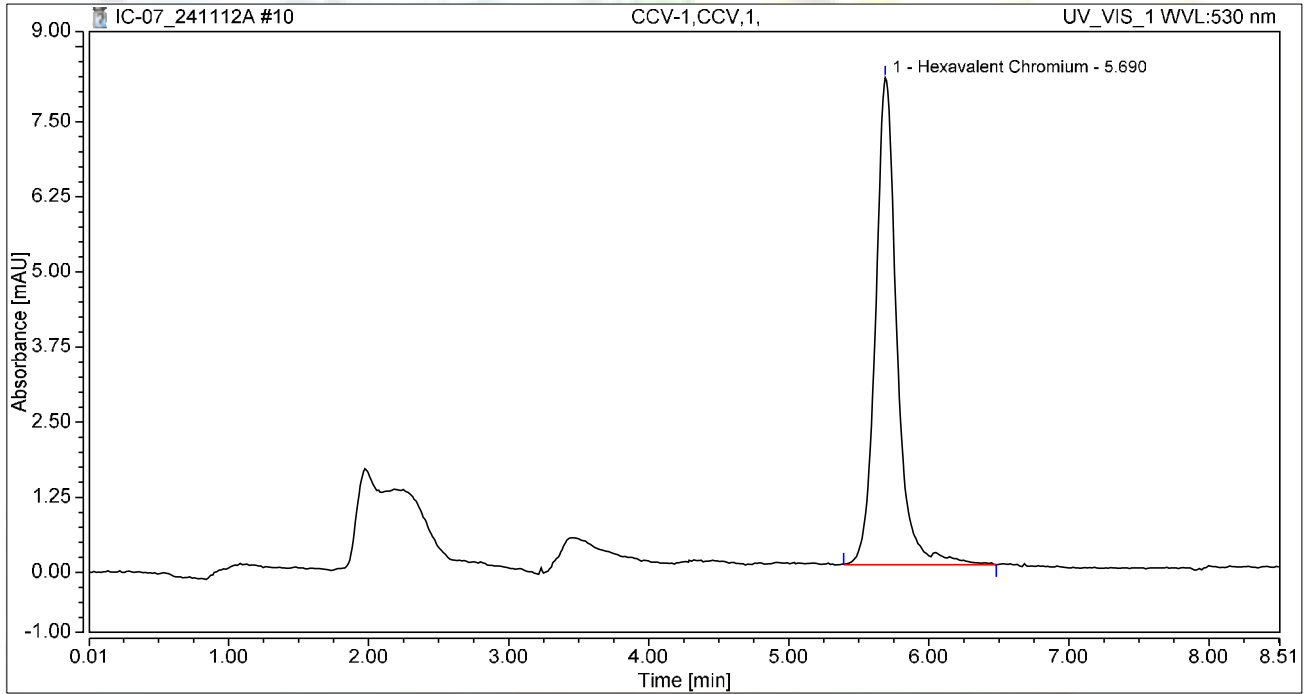
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-1,CCV,1,	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 08:54	Sample Weight:	1.0000

Chromatogram



Integration Results

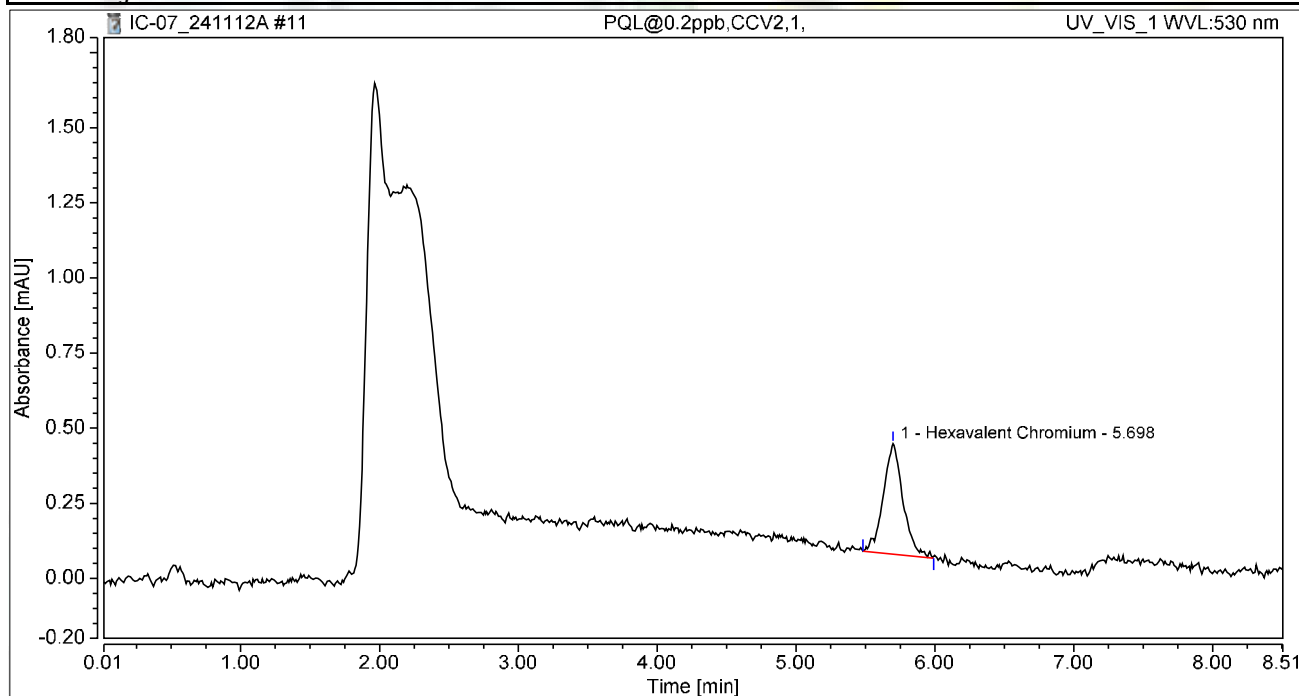
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	1.436	8.104	100.00	100.00	5.0606
Total:			1.436	8.104	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.49
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 09:04	Sample Weight:	1.0000

Chromatogram



Integration Results

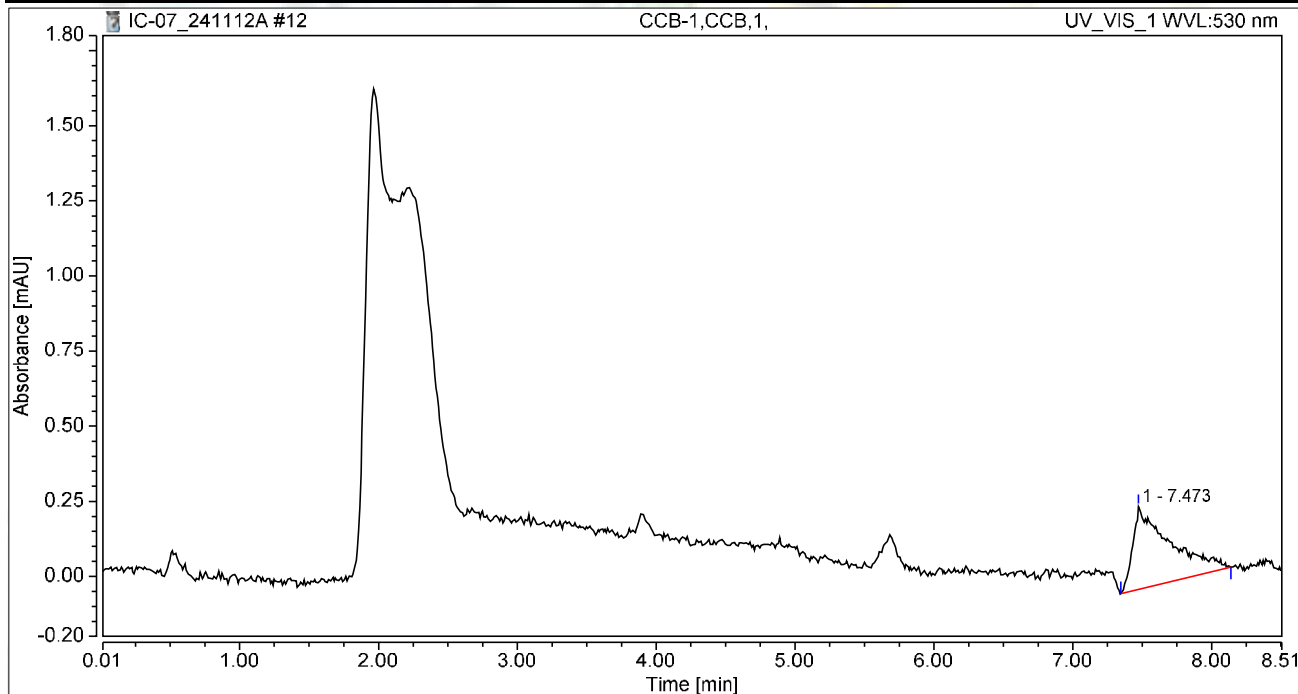
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	0.061	0.368	100.00	100.00	0.2134
Total:			0.061	0.368	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-1,CCB,1,	Run Time (min):	8.49
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 09:13	Sample Weight:	1.0000

Chromatogram



Integration Results

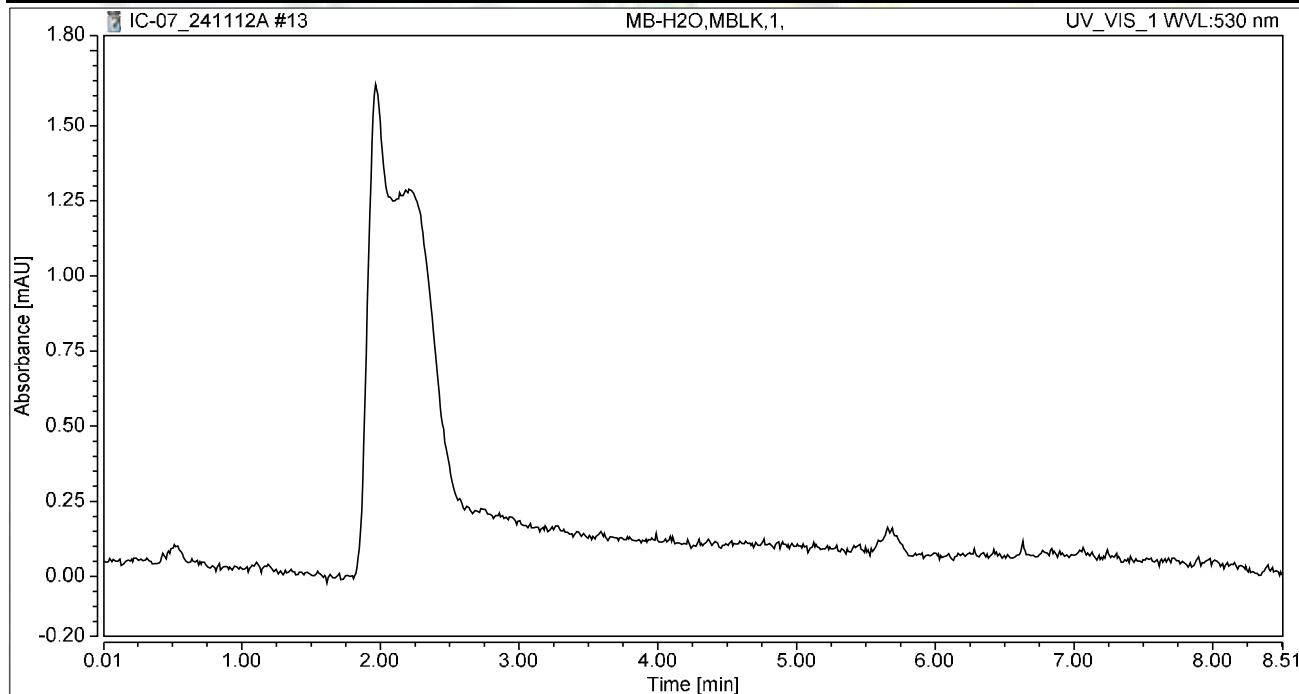
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		7.473	0.085	0.276	100.00	100.00	n.a.
Total:			0.085	0.276	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 09:22	Sample Weight:	1.0000

Chromatogram



Integration Results

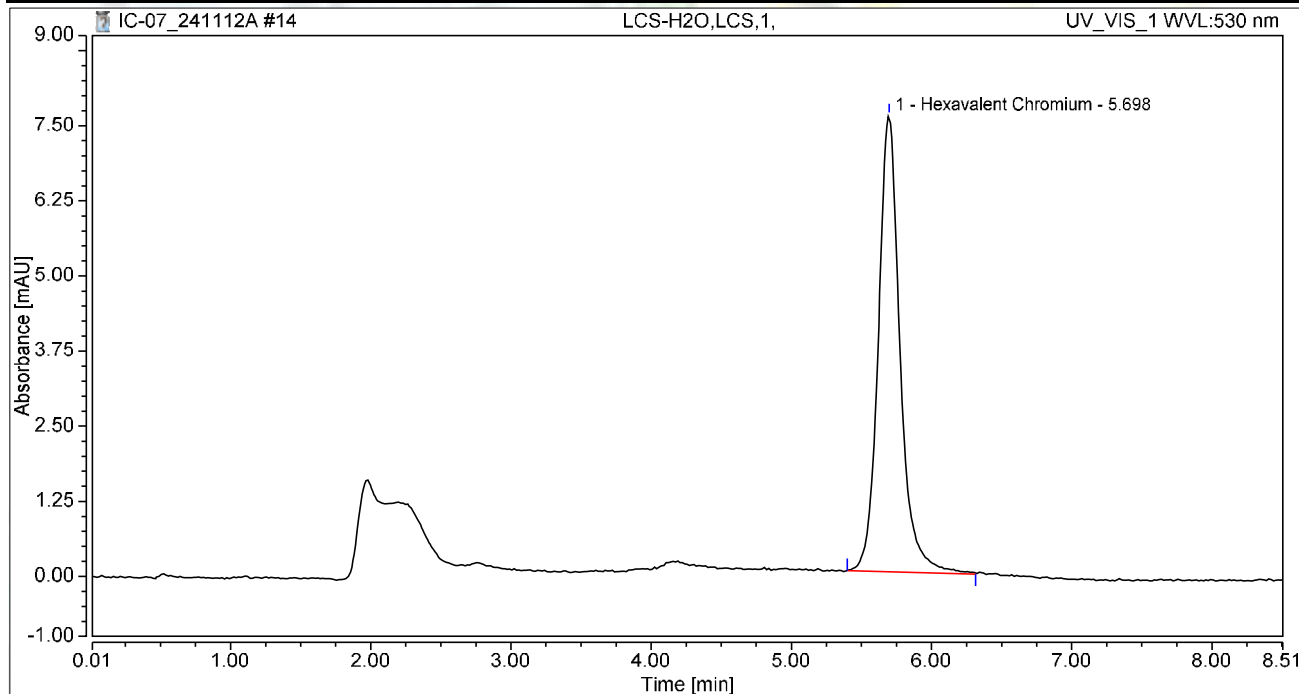
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-H2O,LCS,1,	Run Time (min):	8.49
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 09:32	Sample Weight:	1.0000

Chromatogram



Integration Results

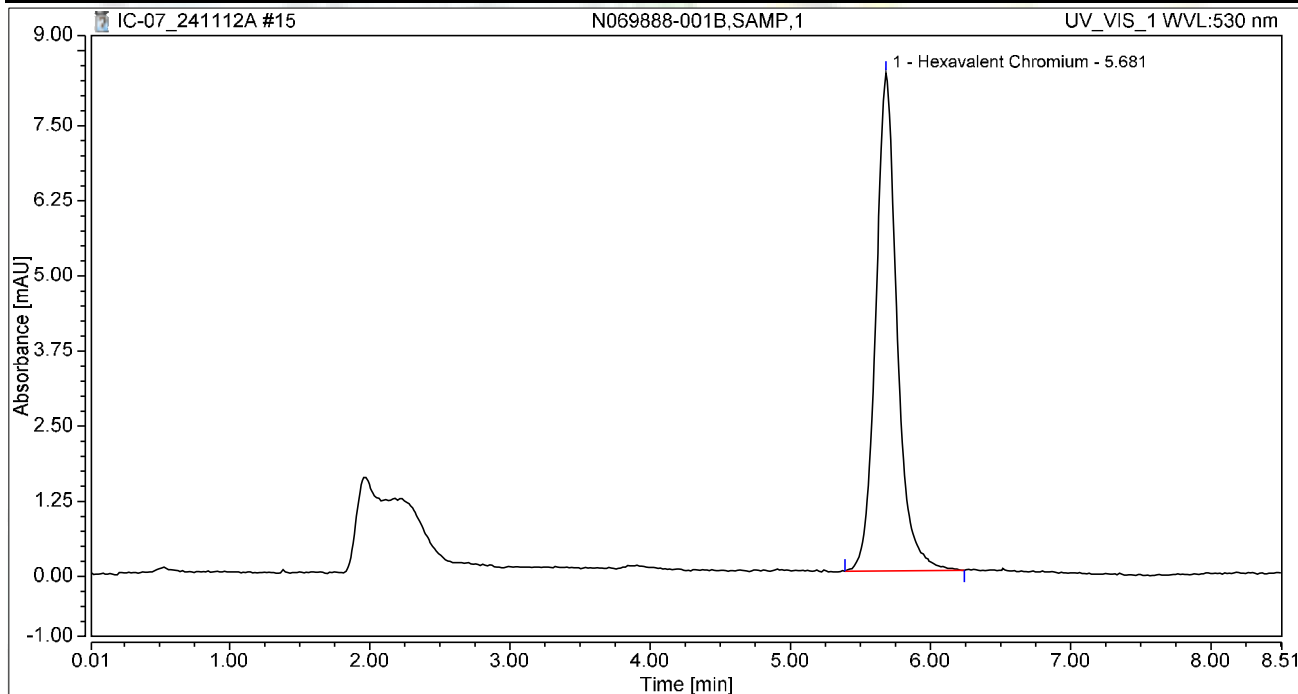
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	1.360	7.593	100.00	100.00	4.7944
Total:			1.360	7.593	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069888-001B,SAMP,1	Run Time (min):	8.49
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 09:41	Sample Weight:	1.0000

Chromatogram



Integration Results

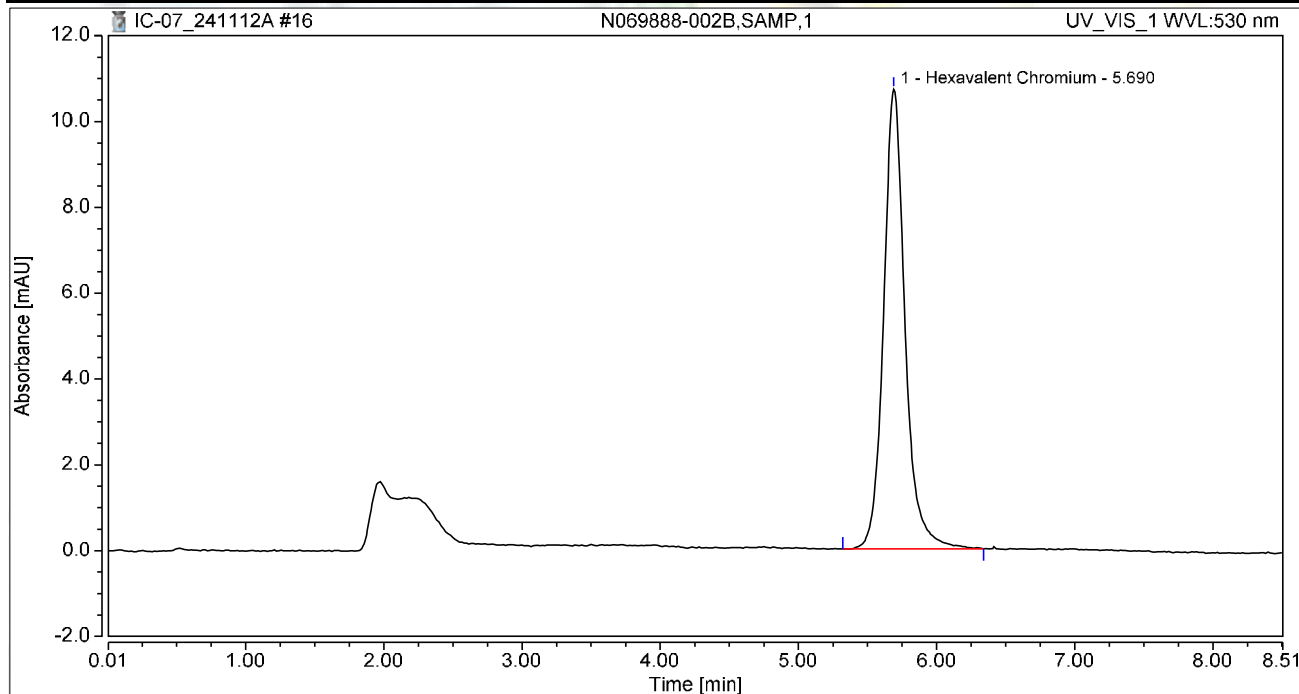
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	1.454	8.283	100.00	100.00	5.1227
Total:			1.454	8.283	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069888-002B,SAMP,1	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 09:51	Sample Weight:	1.0000

Chromatogram



Integration Results

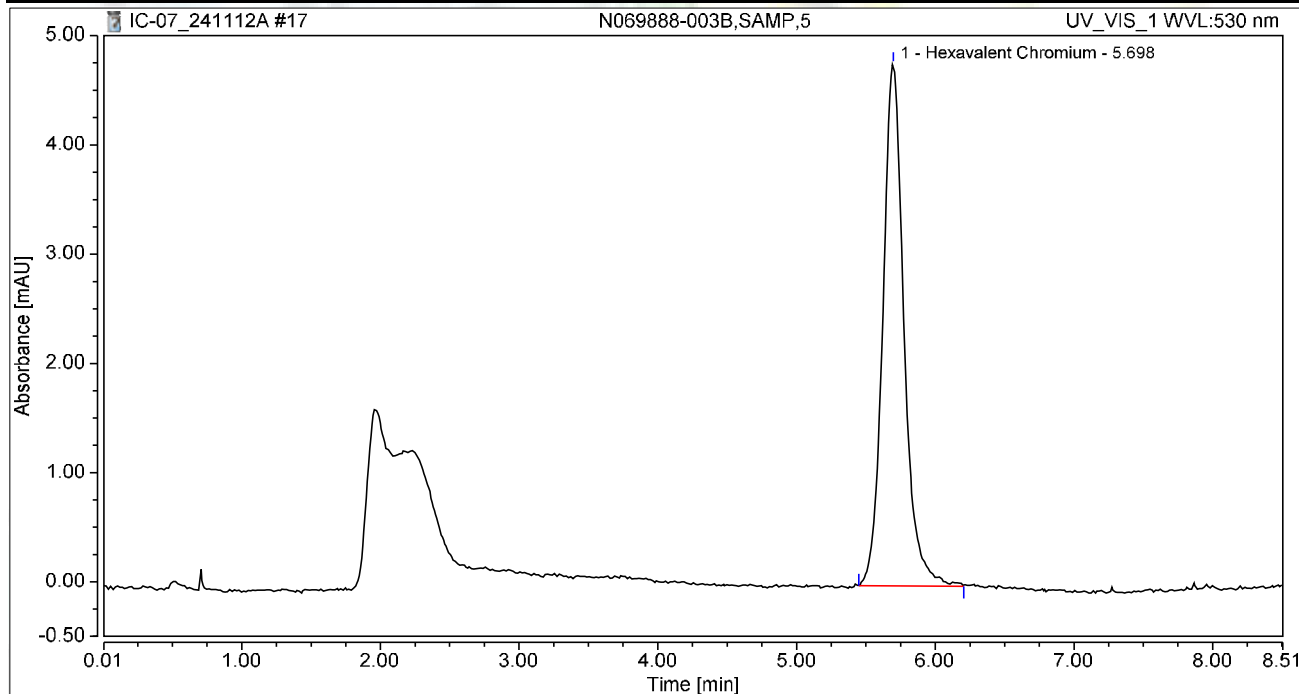
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	1.925	10.713	100.00	100.00	6.7832
Total:			1.925	10.713	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069888-003B,SAMP,5	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 10:00	Sample Weight:	1.0000

Chromatogram



Integration Results

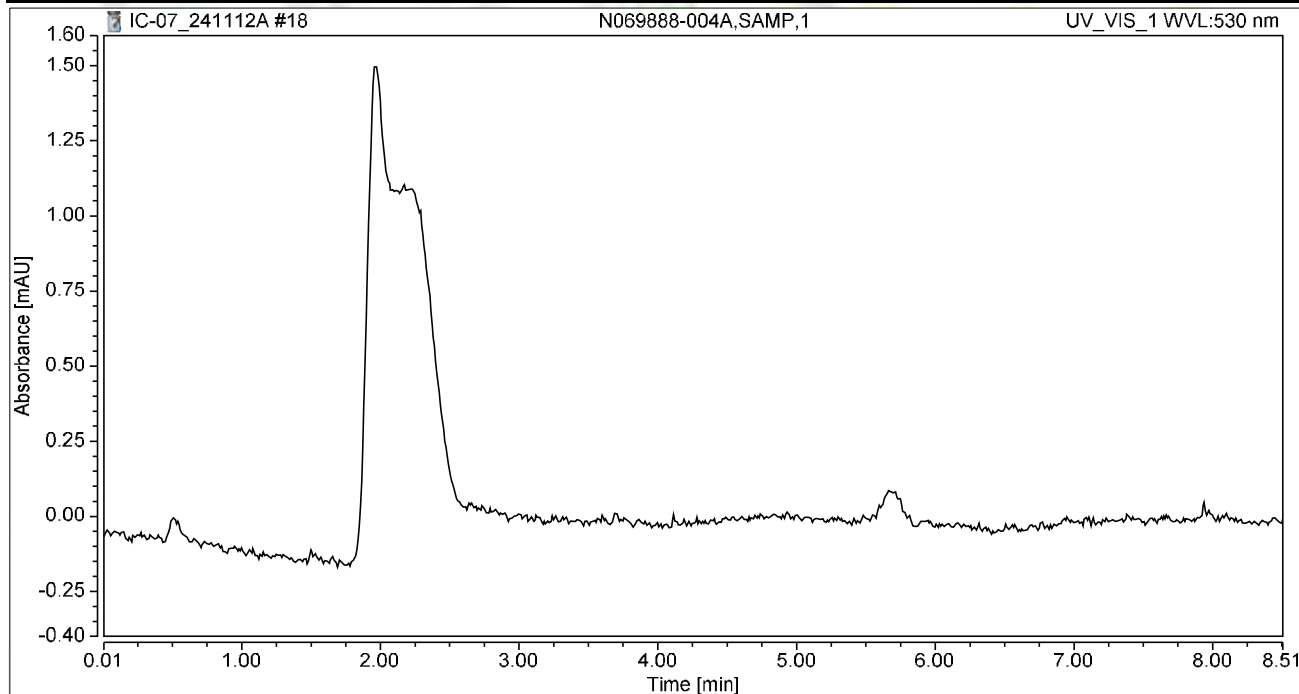
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	0.843	4.778	100.00	100.00	2.9726
Total:			0.843	4.778	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069888-004A,SAMP,1	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 10:10	Sample Weight:	1.0000

Chromatogram



Integration Results

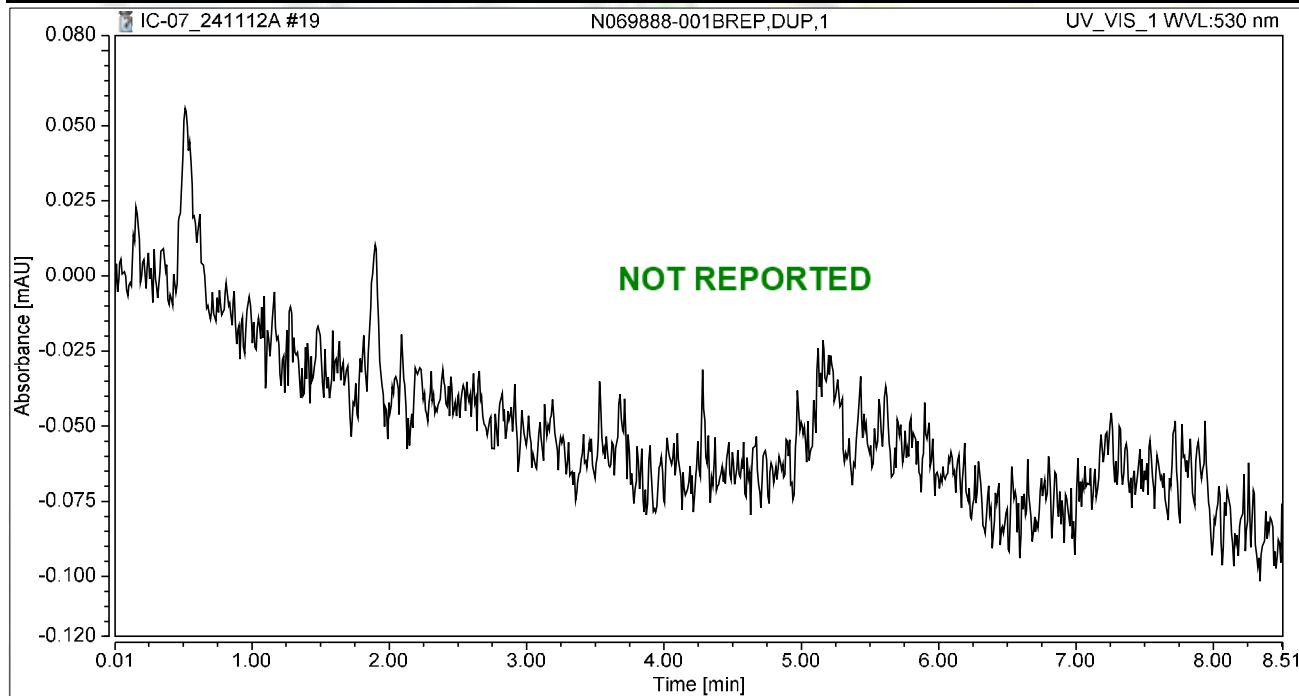
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069888-001BREP,DUP,1	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 10:19	Sample Weight:	1.0000

Chromatogram



Integration Results

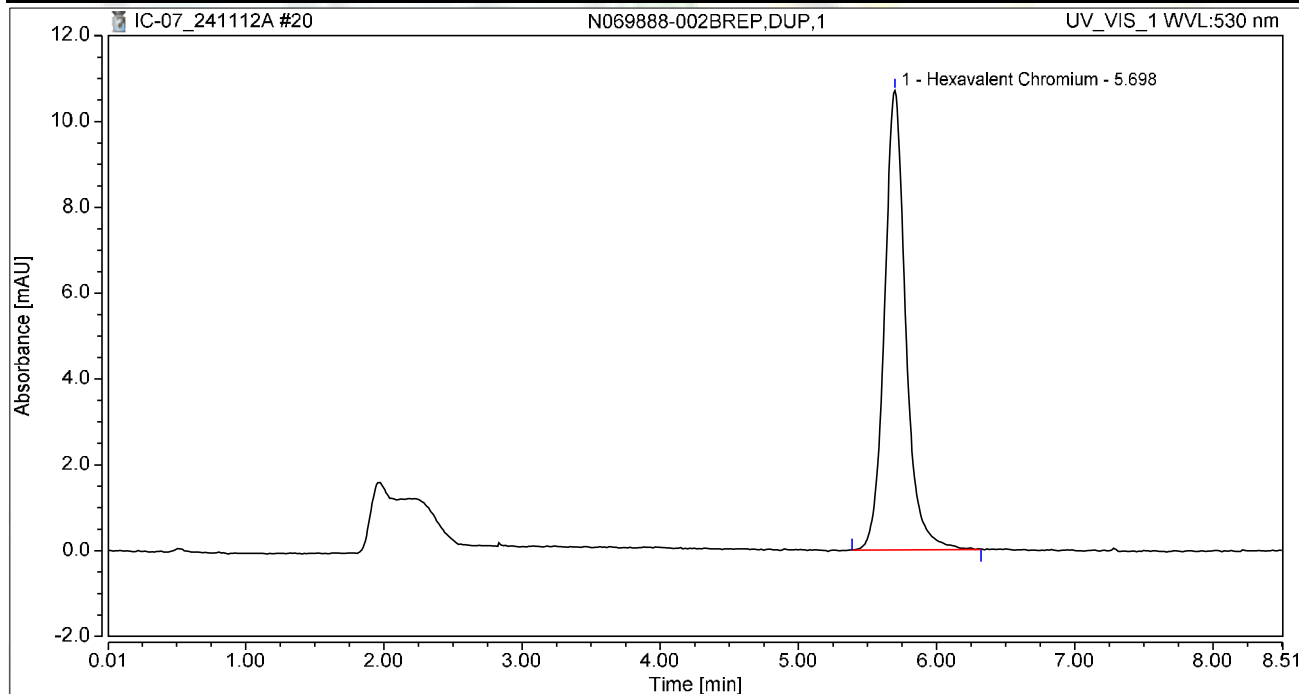
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069888-002BREP,DUP,1	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 10:29	Sample Weight:	1.0000

Chromatogram



Integration Results

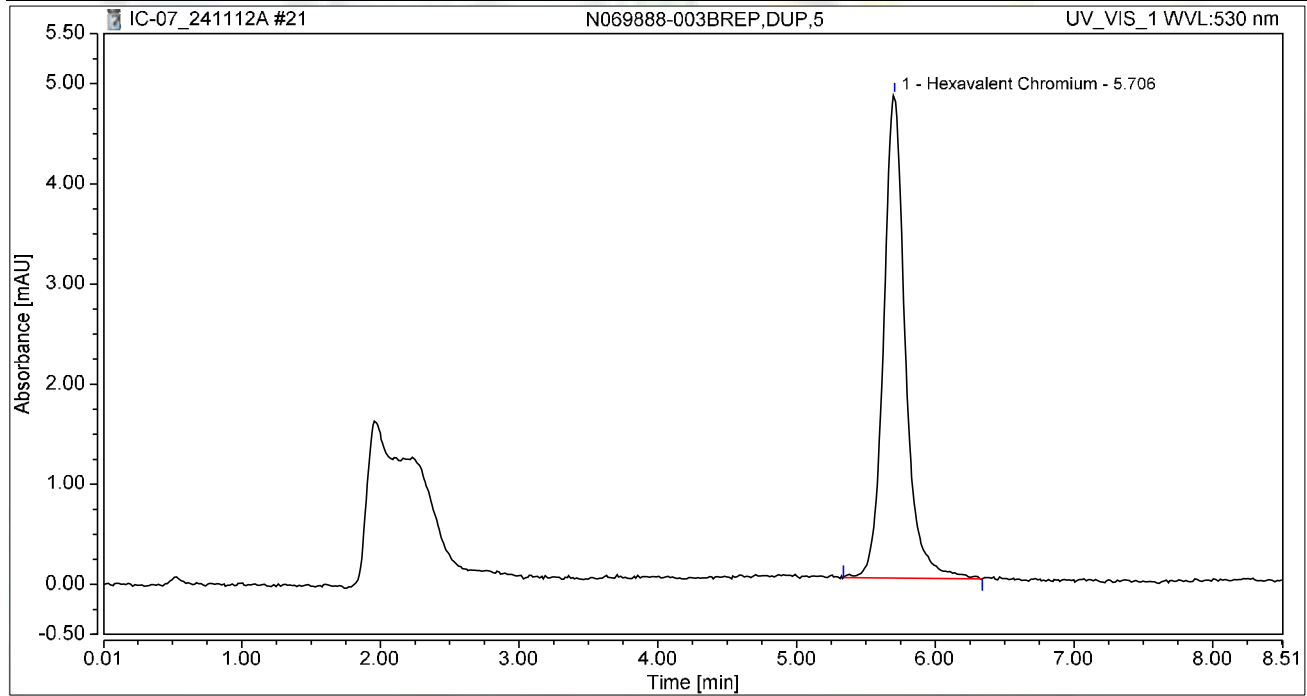
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	1.908	10.704	100.00	100.00	6.7236
Total:			1.908	10.704	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069888-003BREP,DUP,5	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 10:38	Sample Weight:	1.0000

Chromatogram



Integration Results

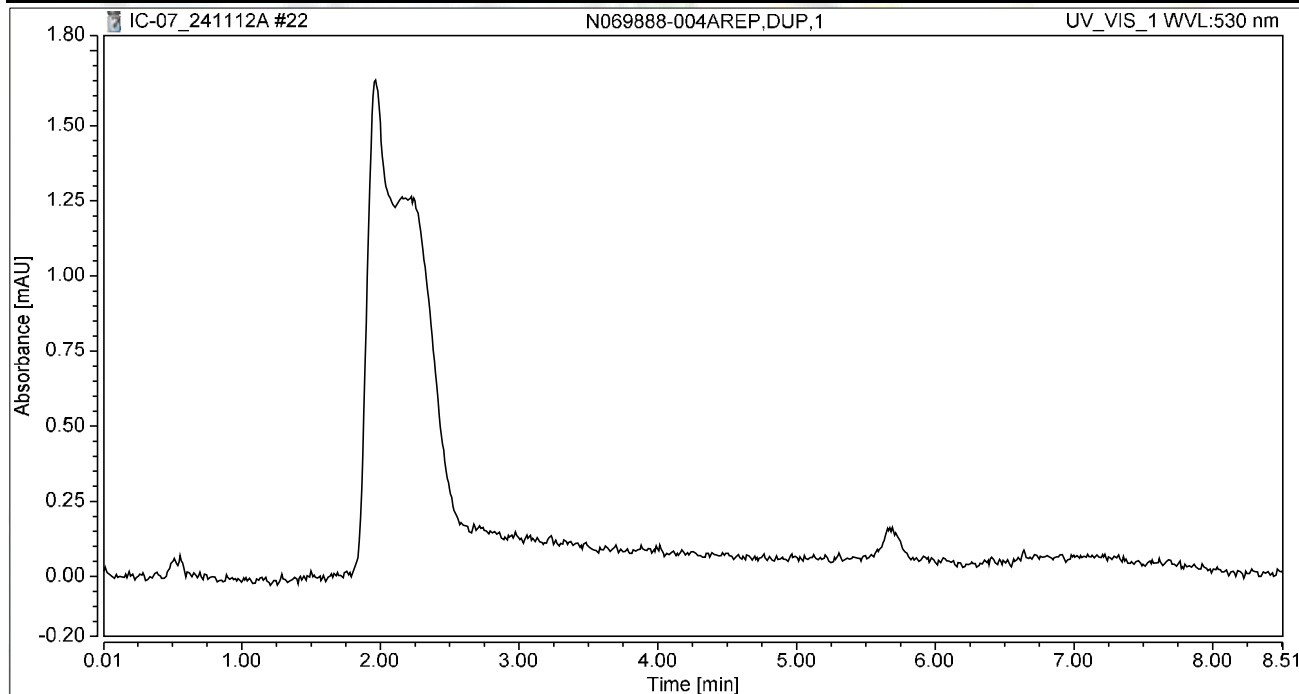
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	0.874	4.826	100.00	100.00	3.0794
Total:			0.874	4.826	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069888-004AREP,DUP,1	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 10:48	Sample Weight:	1.0000

Chromatogram



Integration Results

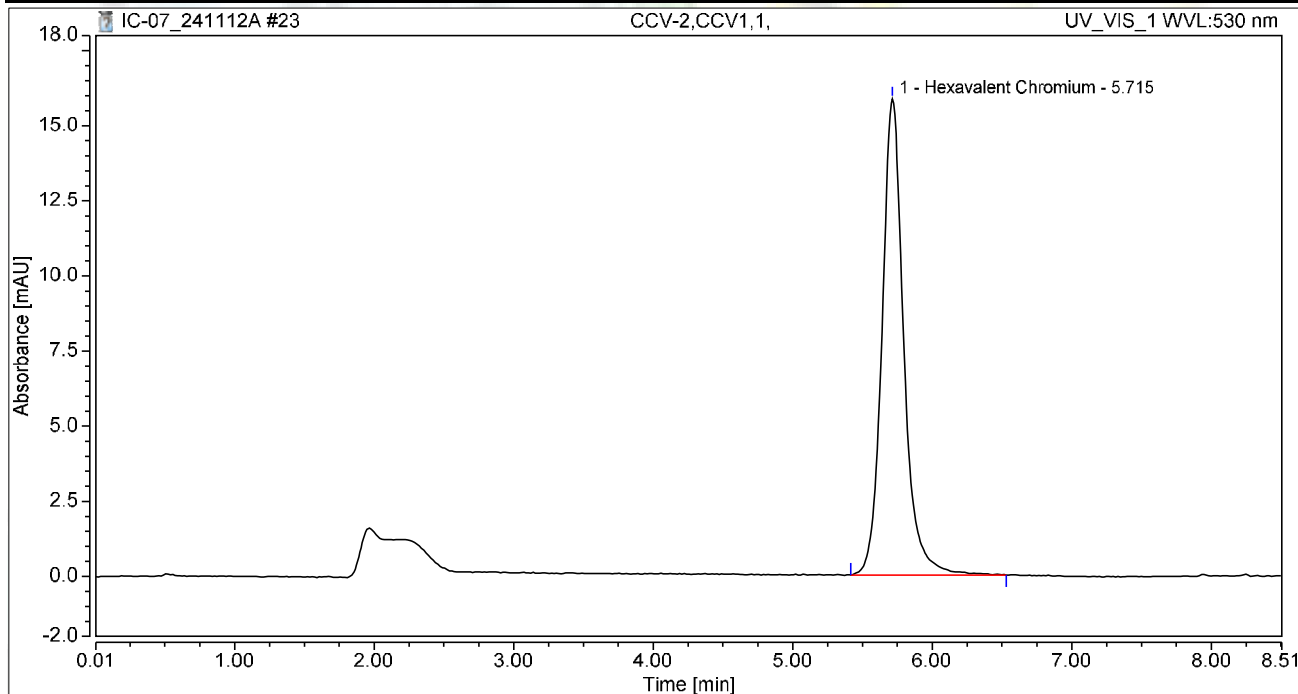
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-2,CCV1,1,	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 10:57	Sample Weight:	1.0000

Chromatogram



Integration Results

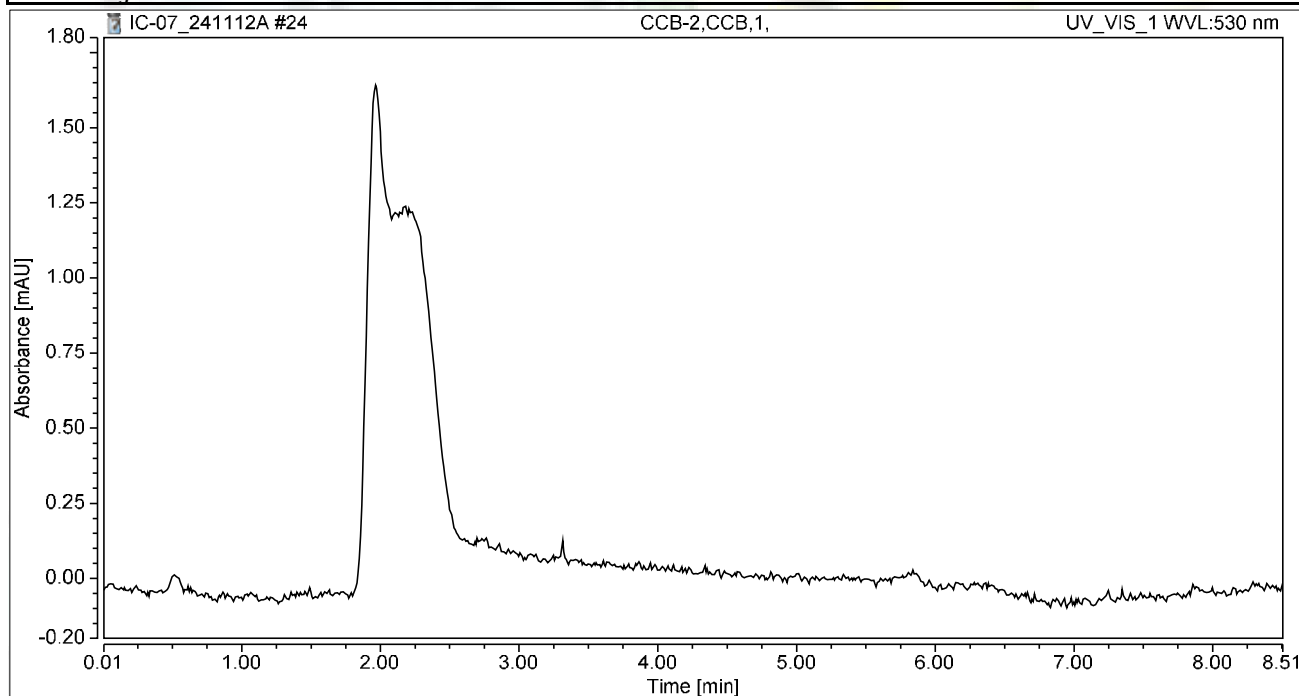
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.860	15.854	100.00	100.00	10.0803
Total:			2.860	15.854	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-2,CCB,1,	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 11:07	Sample Weight:	1.0000

Chromatogram



Integration Results

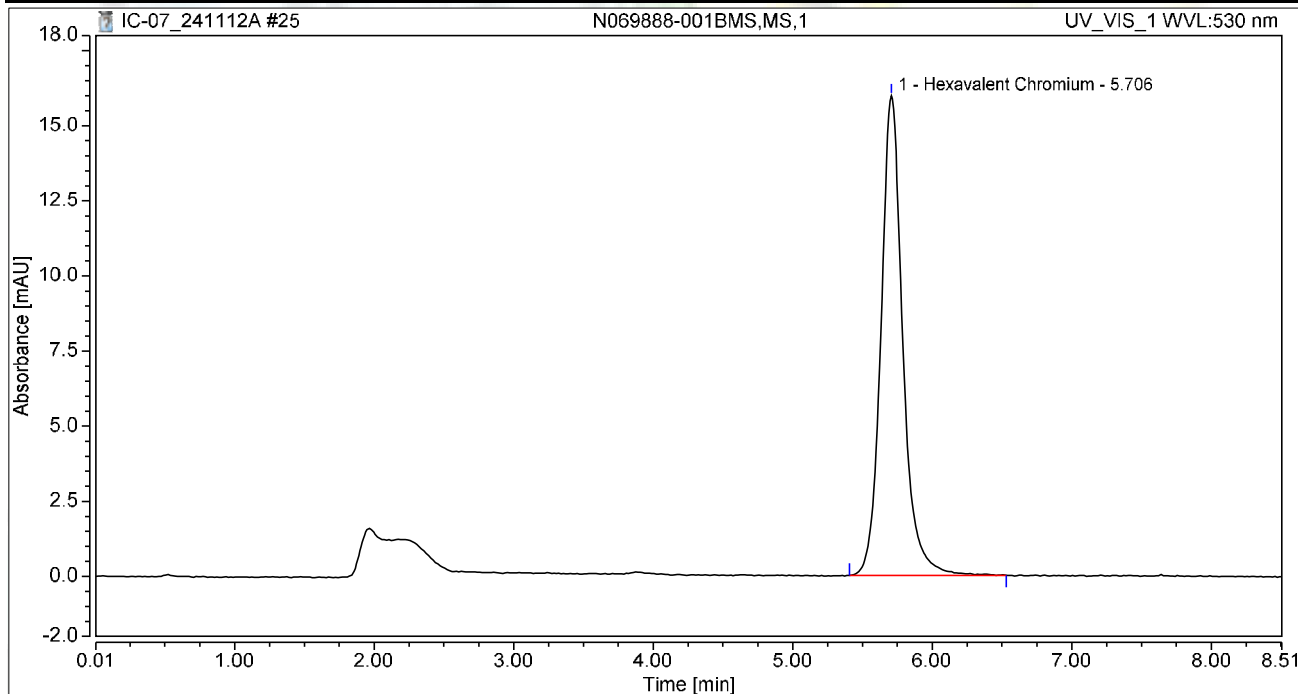
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069888-001BMS,MS,1	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 11:16	Sample Weight:	1.0000

Chromatogram



Integration Results

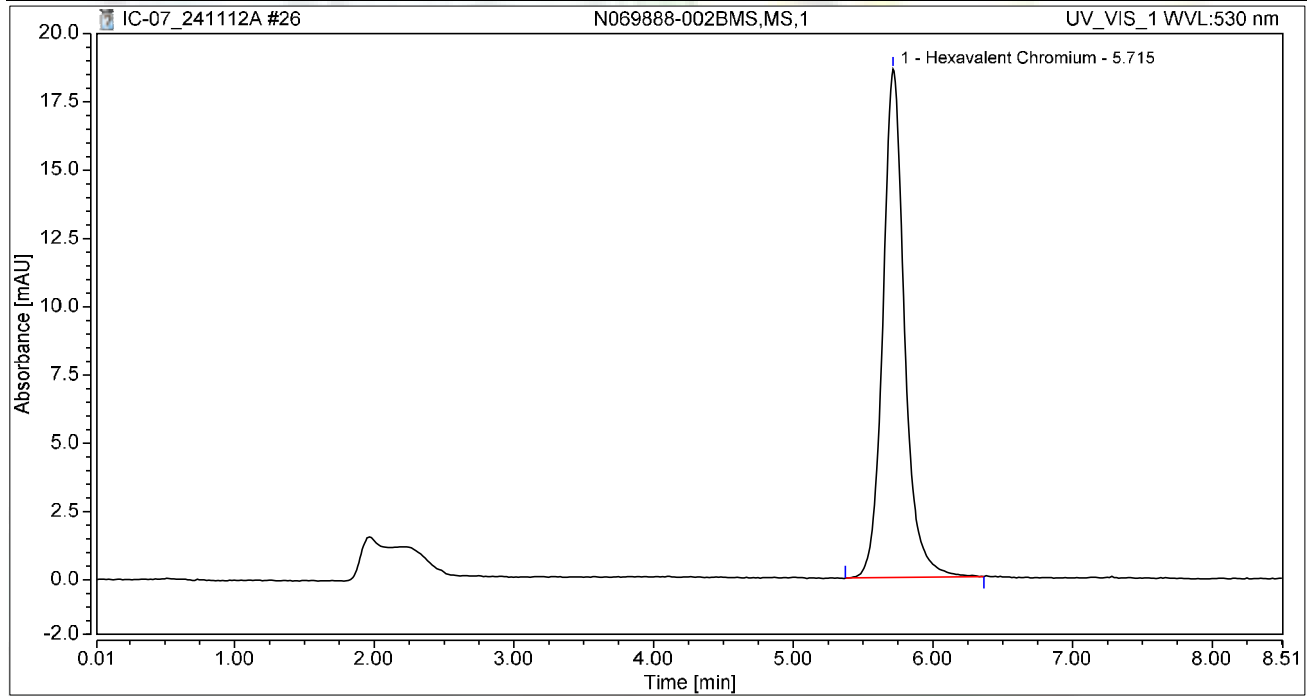
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	2.886	15.968	100.00	100.00	10.1692
Total:			2.886	15.968	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069888-002BMS,MS,1	Run Time (min):	8.49
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 11:25	Sample Weight:	1.0000

Chromatogram



Integration Results

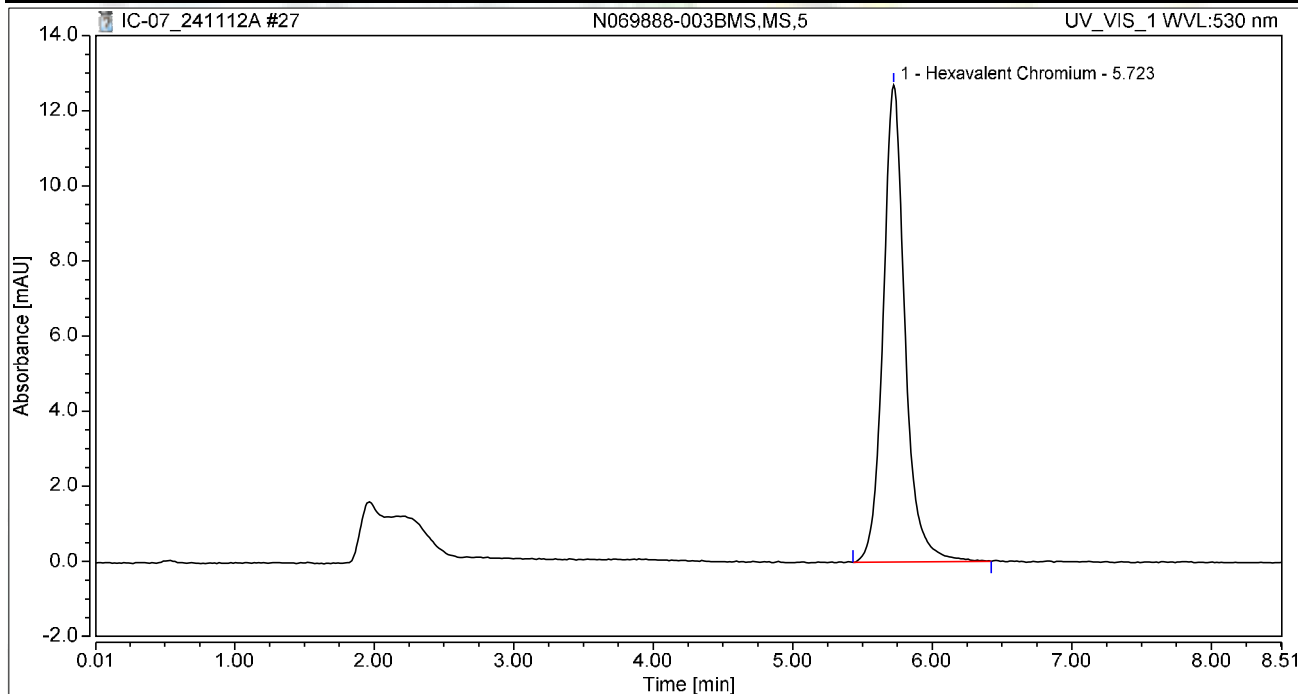
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	3.347	18.624	100.00	100.00	11.7948
Total:			3.347	18.624	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069888-003BMS,MS,5	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 11:35	Sample Weight:	1.0000

Chromatogram



Integration Results

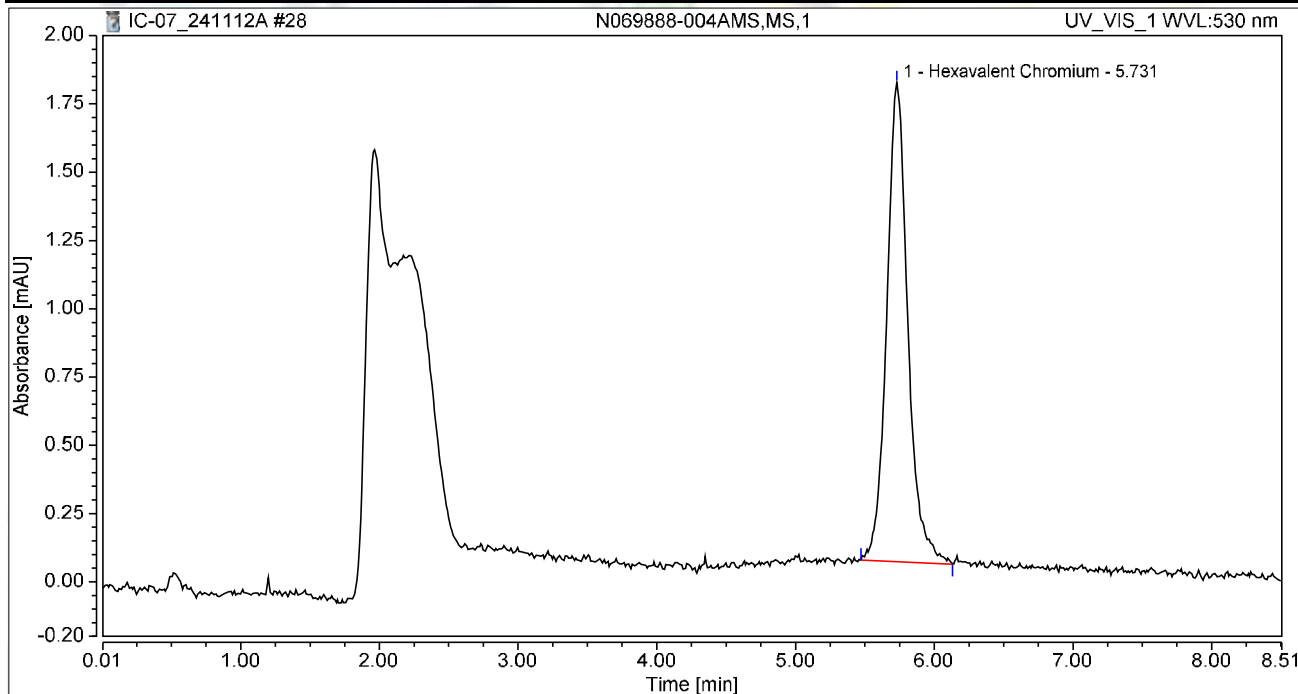
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	2.298	12.700	100.00	100.00	8.0989
Total:			2.298	12.700	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069888-004AMS,MS,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 11:44	Sample Weight:	1.0000

Chromatogram



Integration Results

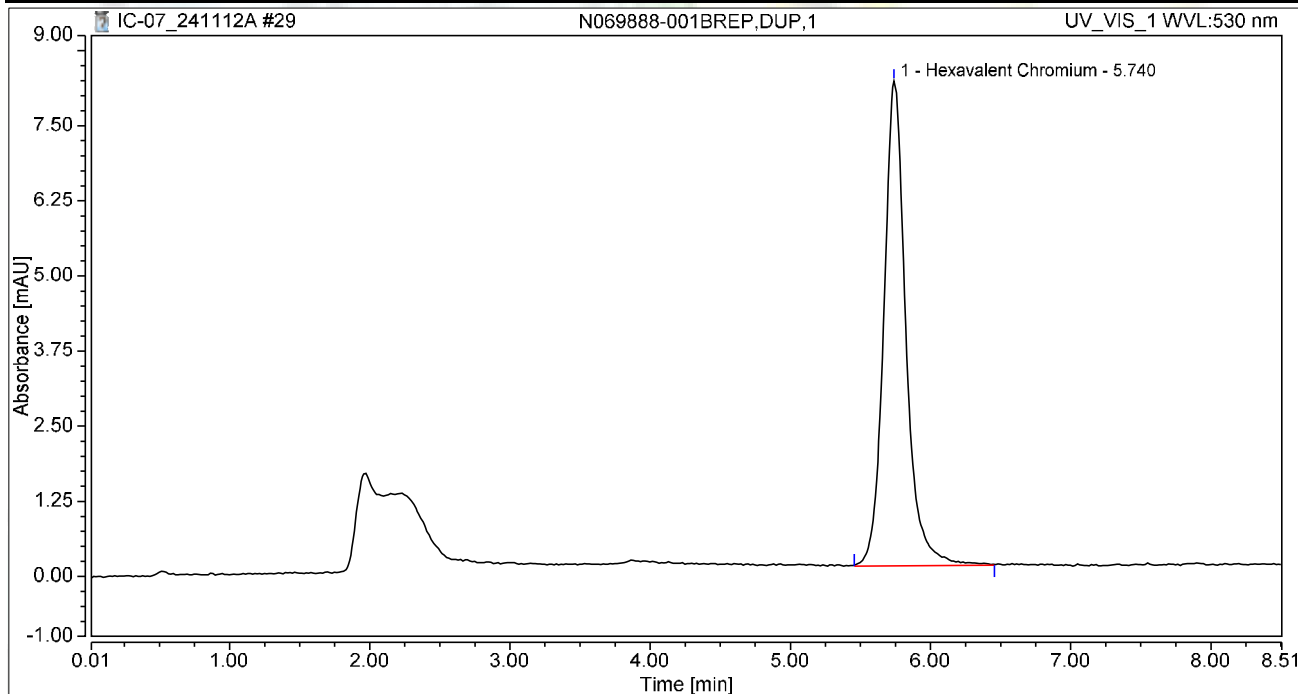
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	0.309	1.754	100.00	100.00	1.0898
Total:			0.309	1.754	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069888-001BREP,DUP,1	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 12:33	Sample Weight:	1.0000

Chromatogram



Integration Results

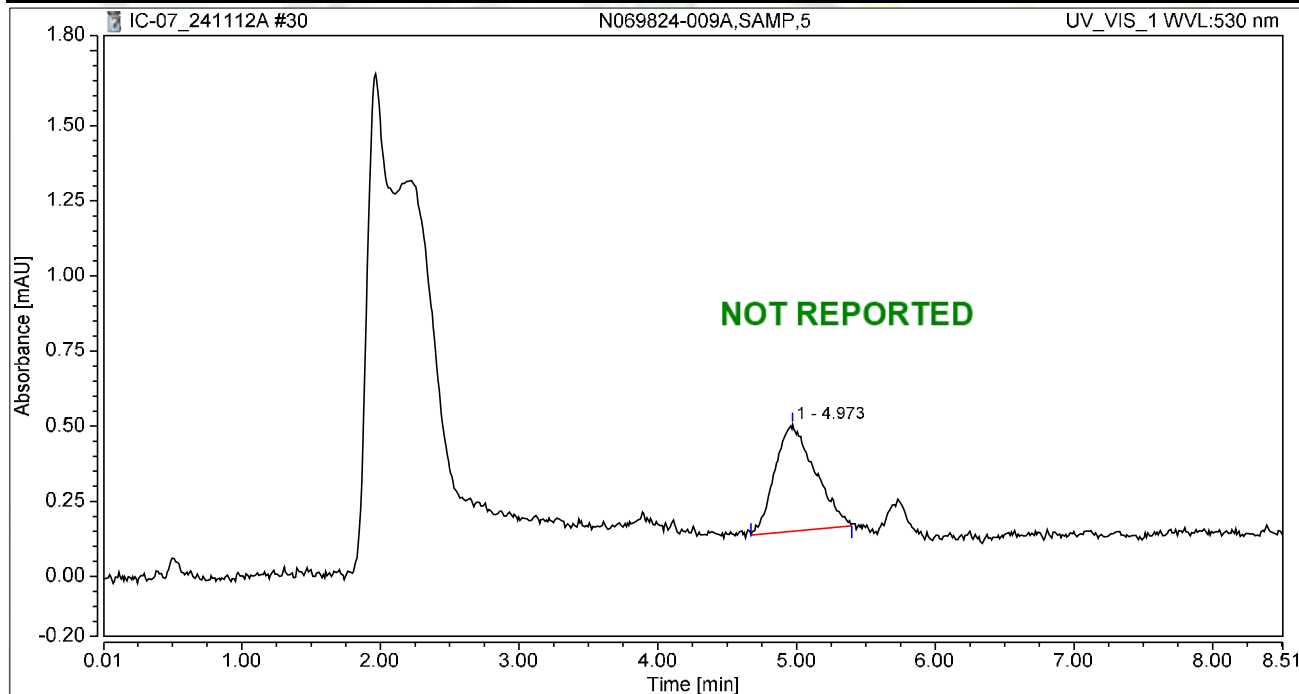
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	1.474	8.066	100.00	100.00	5.1947
Total:			1.474	8.066	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069824-009A,SAMP,5	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 12:44	Sample Weight:	1.0000

Chromatogram



Integration Results

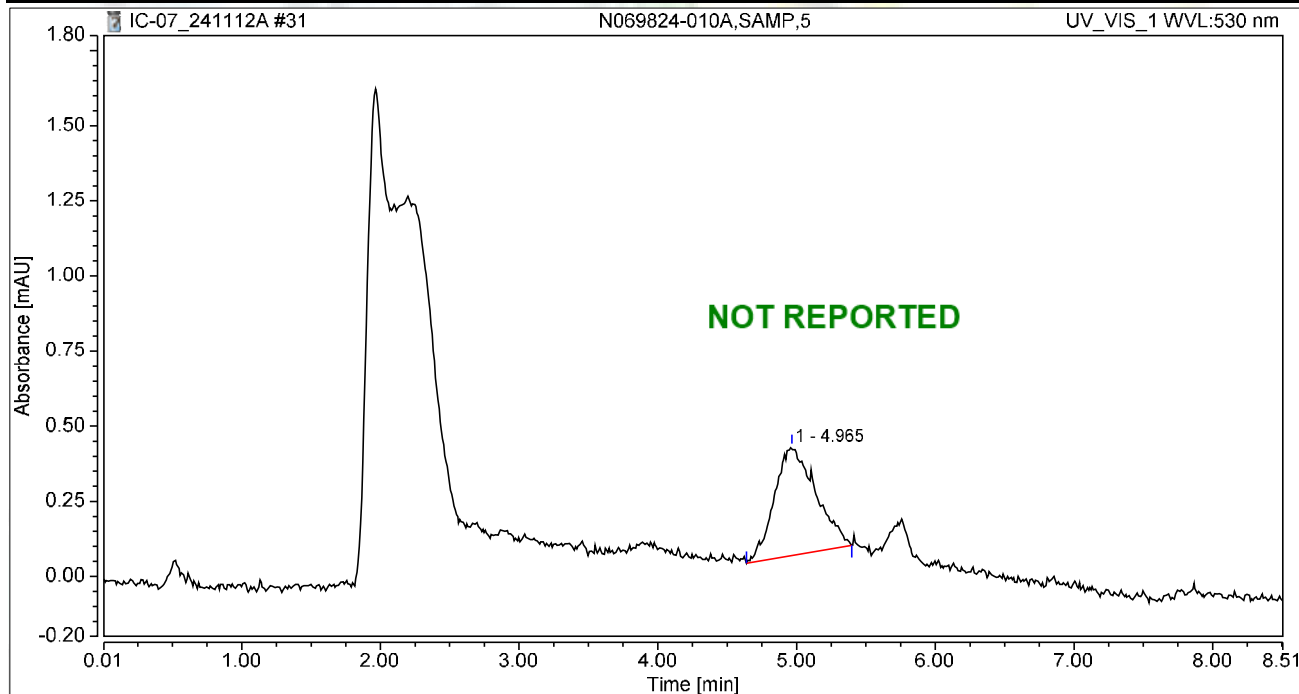
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		4.973	0.119	0.356	100.00	100.00	n.a.
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.119	0.356	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069824-010A,SAMP,5	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 12:54	Sample Weight:	1.0000

Chromatogram



Integration Results

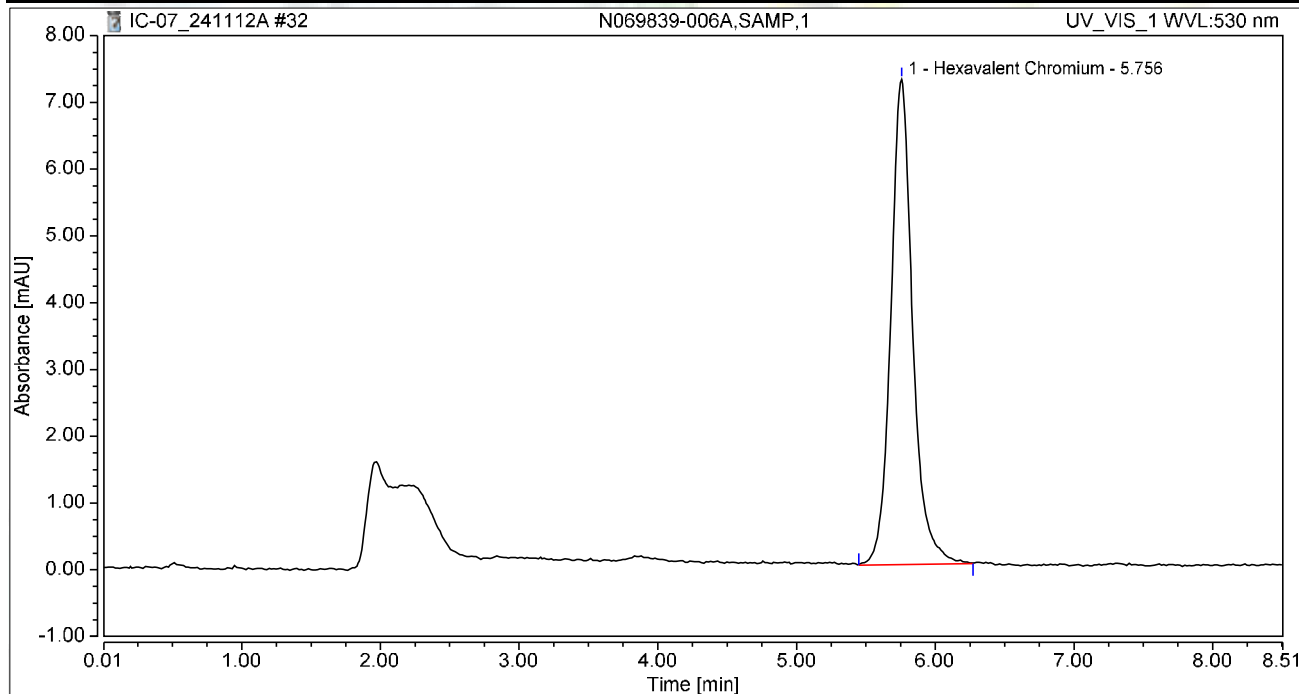
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		4.965	0.125	0.362	100.00	100.00	n.a.
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.125	0.362	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069839-006A,SAMP,1	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 13:03	Sample Weight:	1.0000

Chromatogram



Integration Results

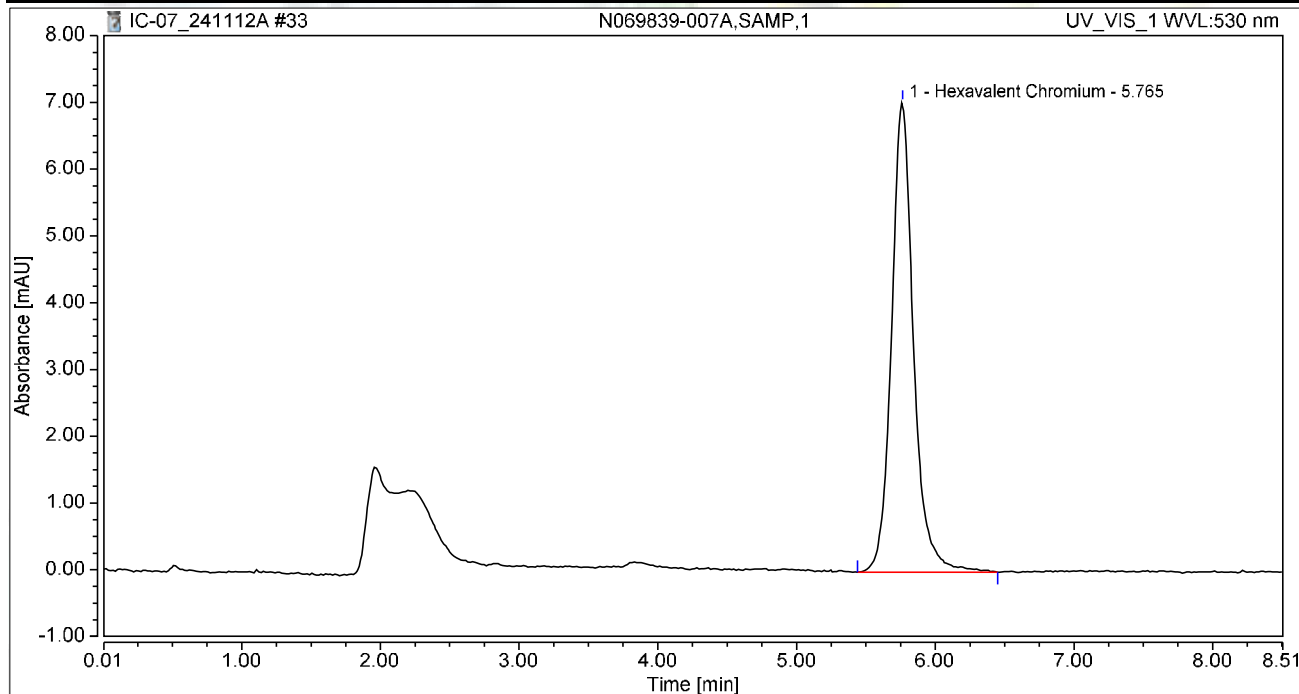
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.756	1.325	7.266	100.00	100.00	4.6702
Total:			1.325	7.266	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069839-007A,SAMP,1	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 13:13	Sample Weight:	1.0000

Chromatogram



Integration Results

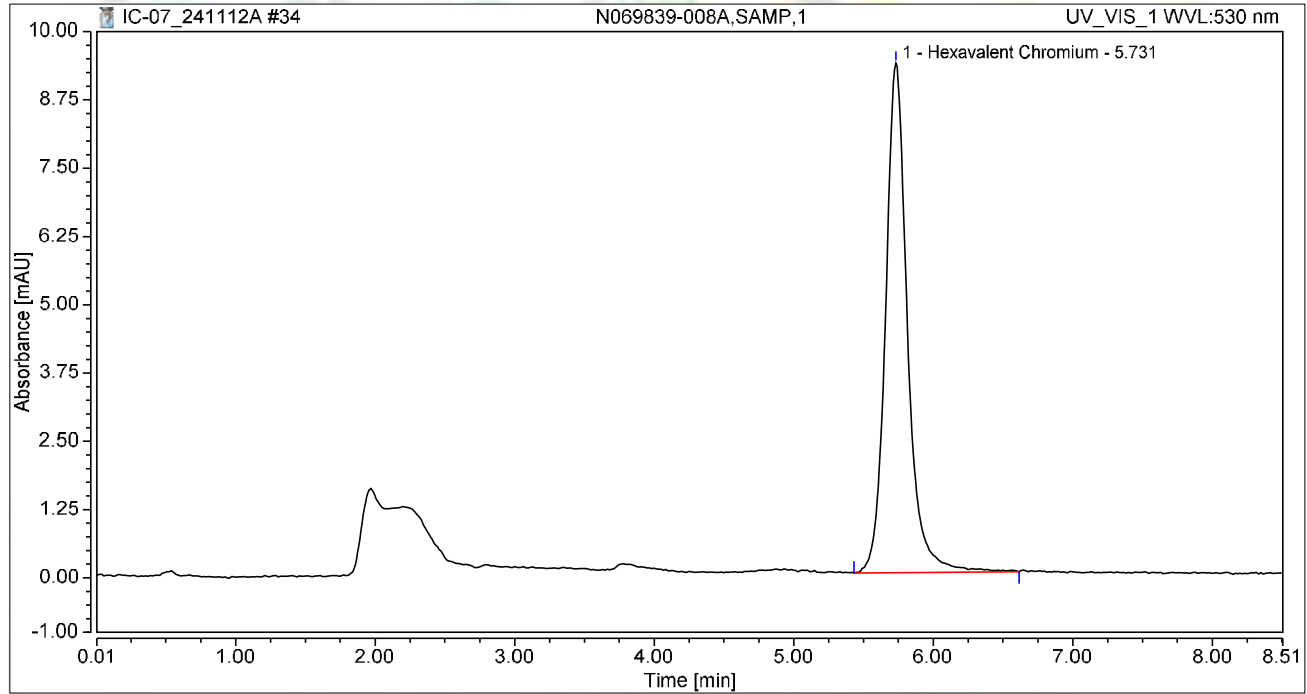
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.765	1.297	7.042	100.00	100.00	4.5719
Total:			1.297	7.042	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069839-008A,SAMP,1	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 13:22	Sample Weight:	1.0000

Chromatogram



Integration Results

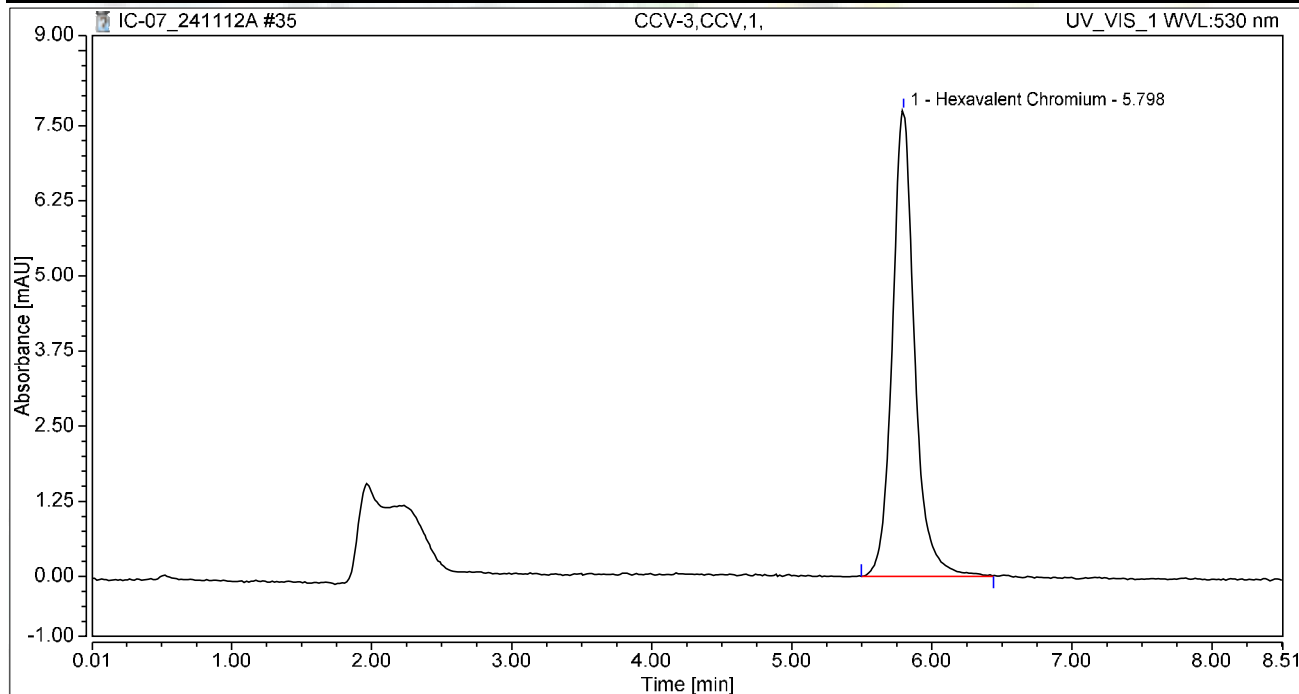
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.731	1.694	9.323	100.00	100.00	5.9686
Total:			1.694	9.323	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-3,CCV,1,	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 13:32	Sample Weight:	1.0000

Chromatogram



Integration Results

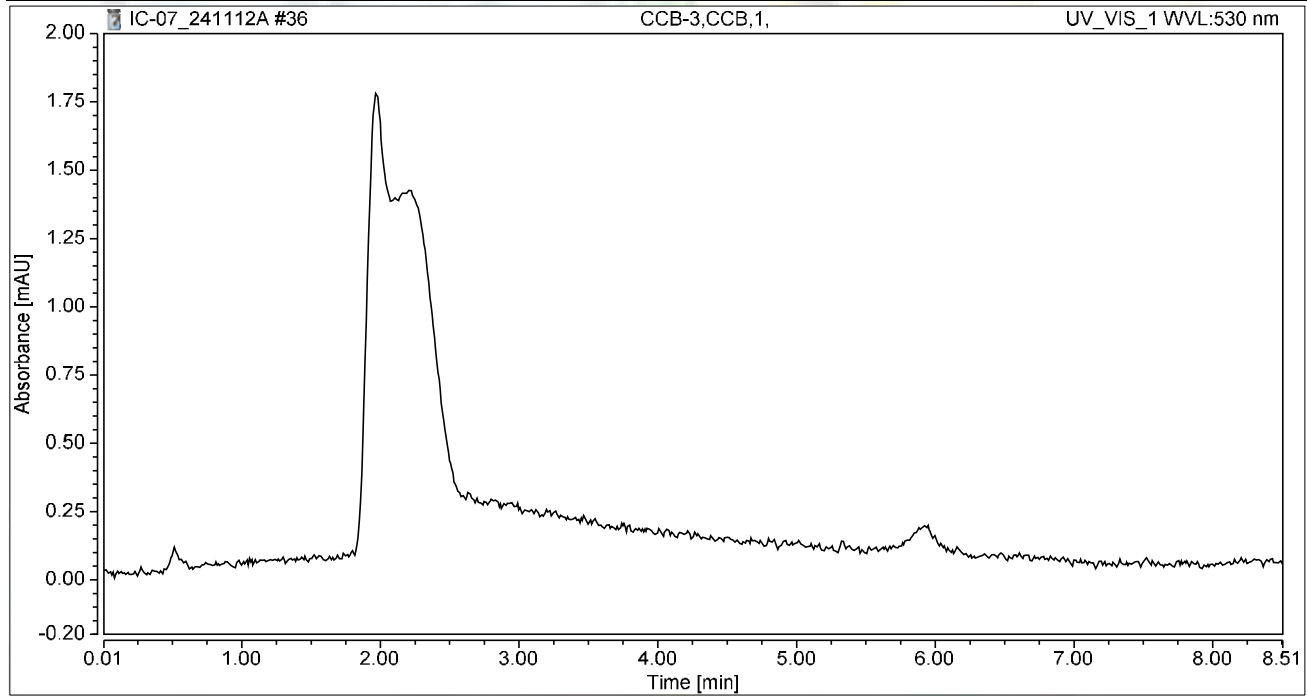
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.798	1.422	7.753	100.00	100.00	5.0119
Total:			1.422	7.753	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-3,CCB,1,	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 13:41	Sample Weight:	1.0000

Chromatogram



Integration Results

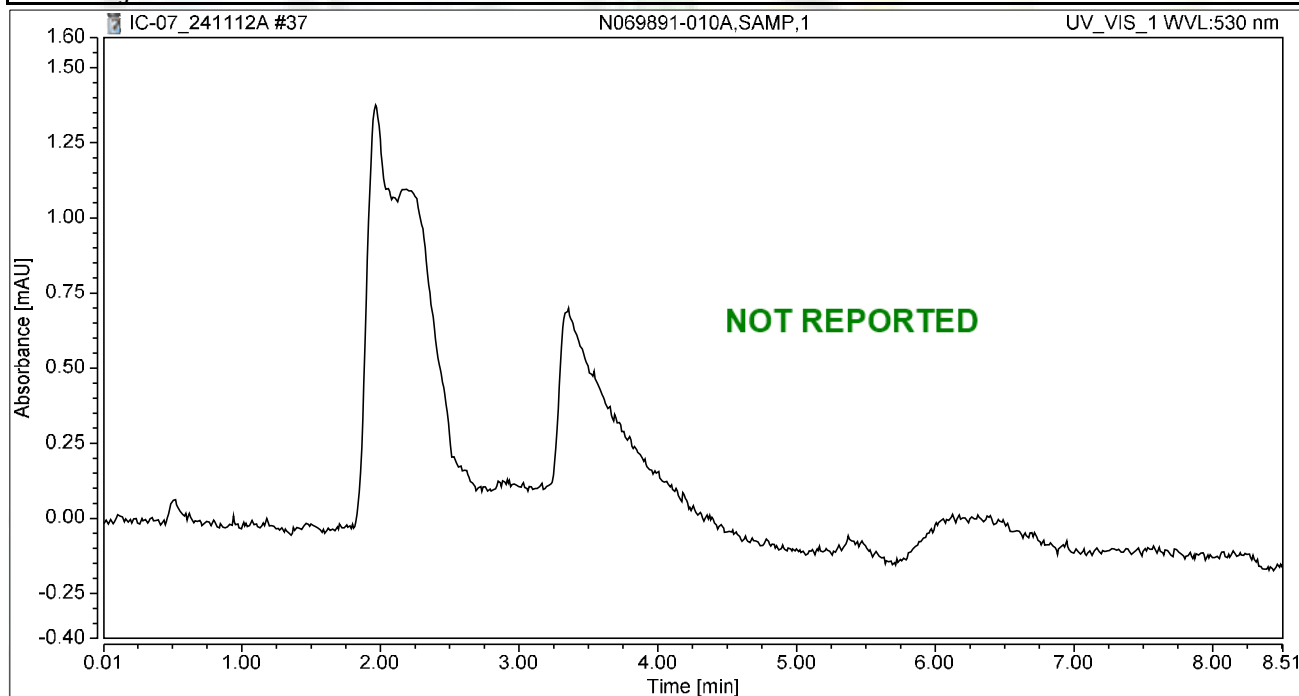
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-010A,SAMP,1	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 13:51	Sample Weight:	1.0000

Chromatogram



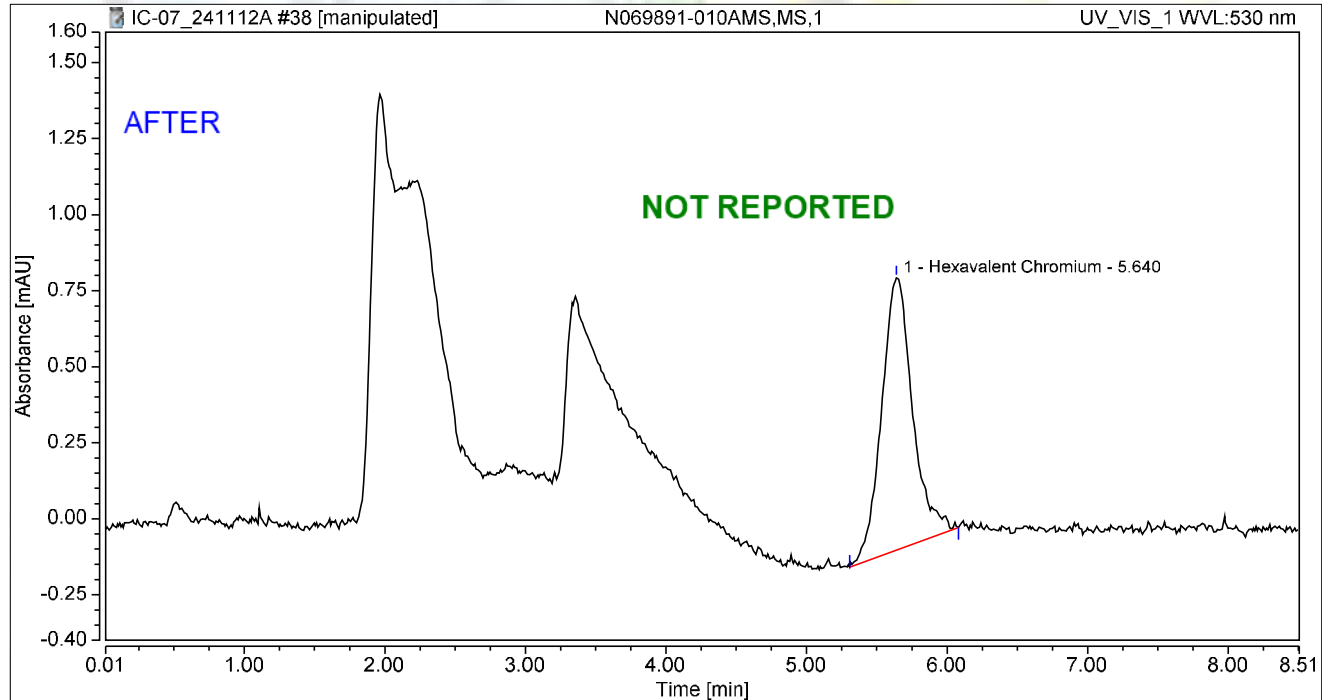
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069891-010AMS,MS,1	Run Time (min): 8.49
Vial Number:	10	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Nov/24 14:00	Sample Weight: 1.0000

Chromatogram



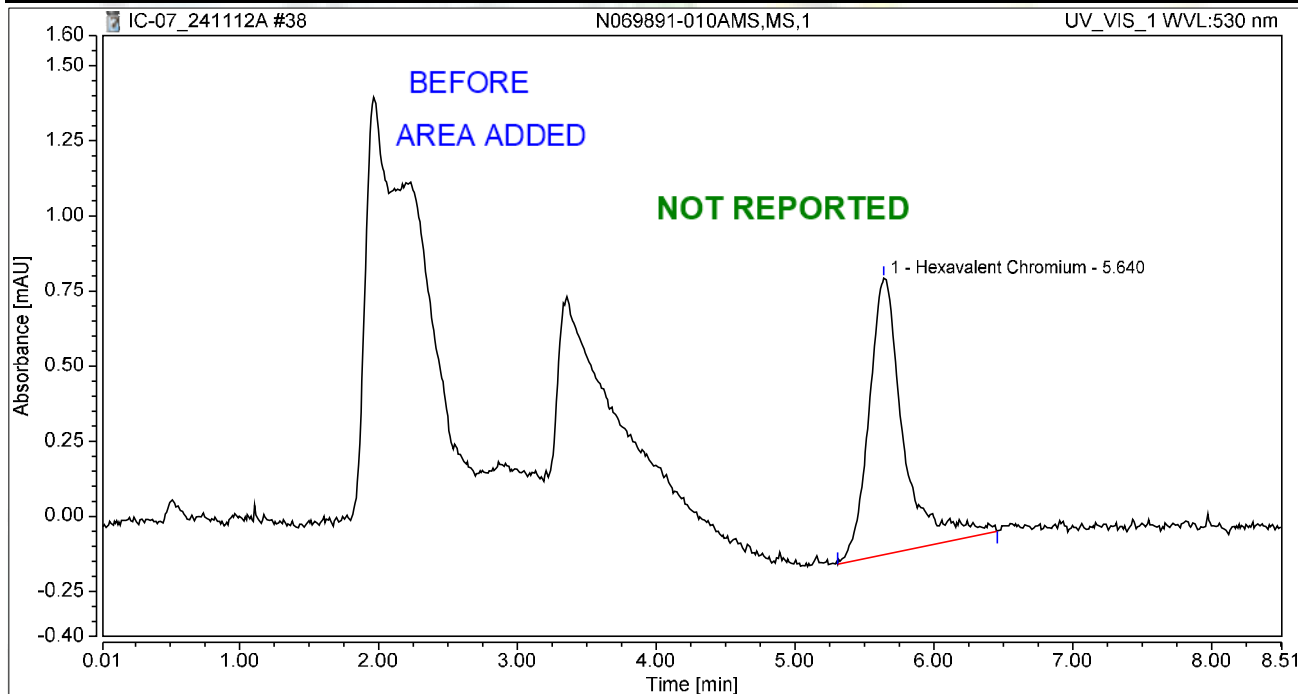
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.640	0.229	0.896	100.00	100.00	0.8055
Total:			0.229	0.896	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-010AMS,MS,1	Run Time (min):	8.49
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 14:00	Sample Weight:	1.0000

Chromatogram



Integration Results

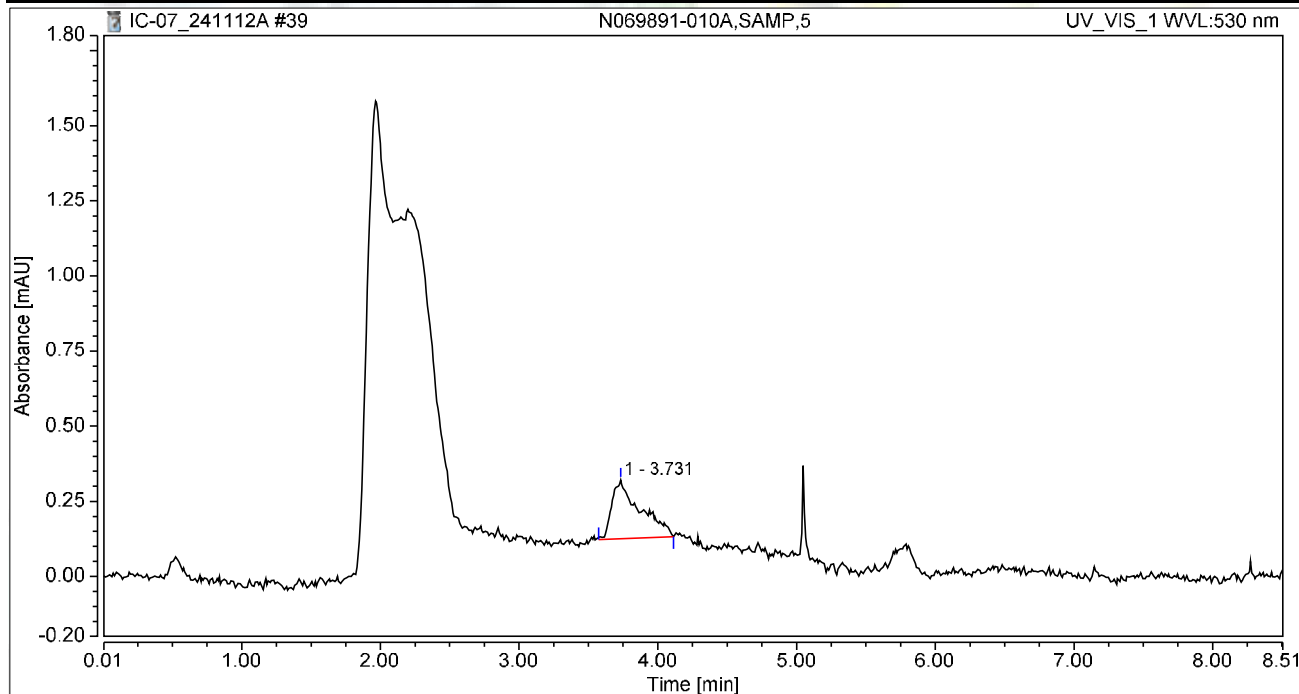
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.640	0.265	0.920	100.00	100.00	0.9344
Total:			0.265	0.920	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-010A,SAMP,5	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 14:10	Sample Weight:	1.0000

Chromatogram



Integration Results

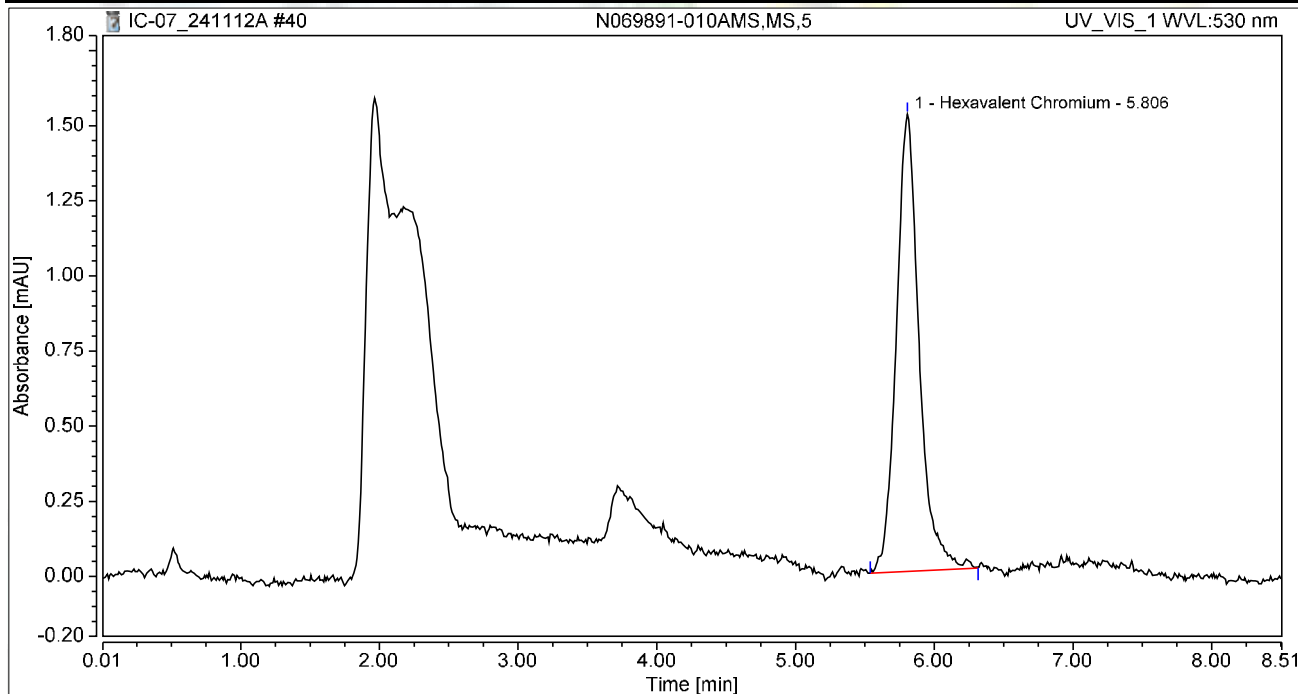
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.731	0.046	0.195	100.00	100.00	n.a.
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.046	0.195	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-010AMS,MS,5	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 14:19	Sample Weight:	1.0000

Chromatogram



Integration Results

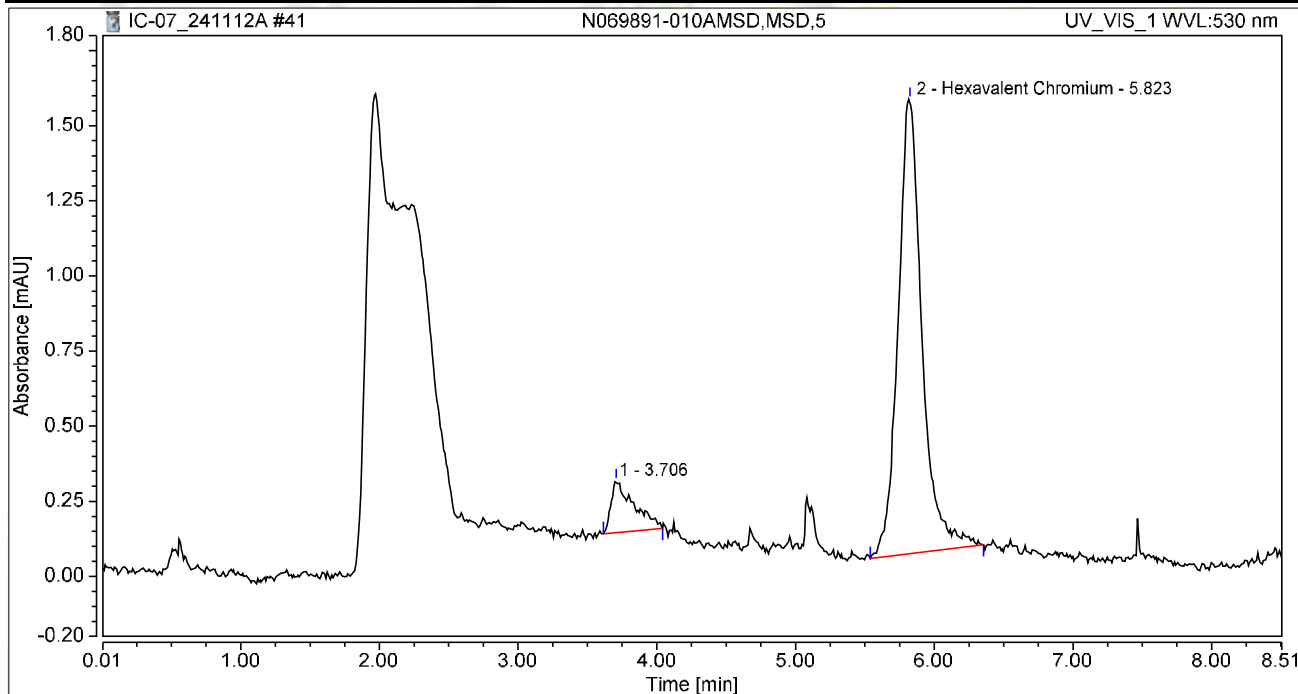
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.806	0.291	1.522	100.00	100.00	1.0242
Total:			0.291	1.522	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-010AMSD,MSD,5	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 14:29	Sample Weight:	1.0000

Chromatogram



Integration Results

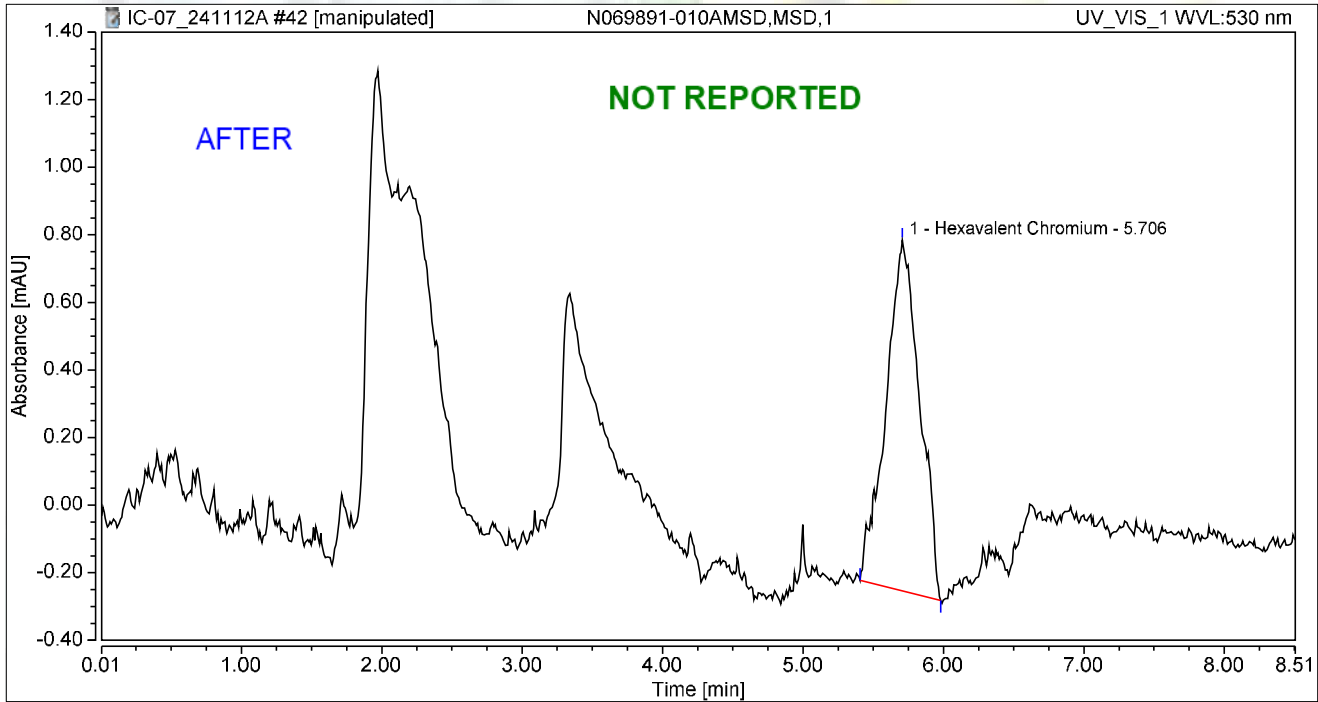
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.706	0.033	0.173	9.80	10.25	n.a.
2	Hexavalent Chromium	5.823	0.301	1.513	90.20	89.75	1.0623
Total:			0.334	1.686	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-010AMSD,MSD,1	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 14:38	Sample Weight:	1.0000

Chromatogram



Integration Results

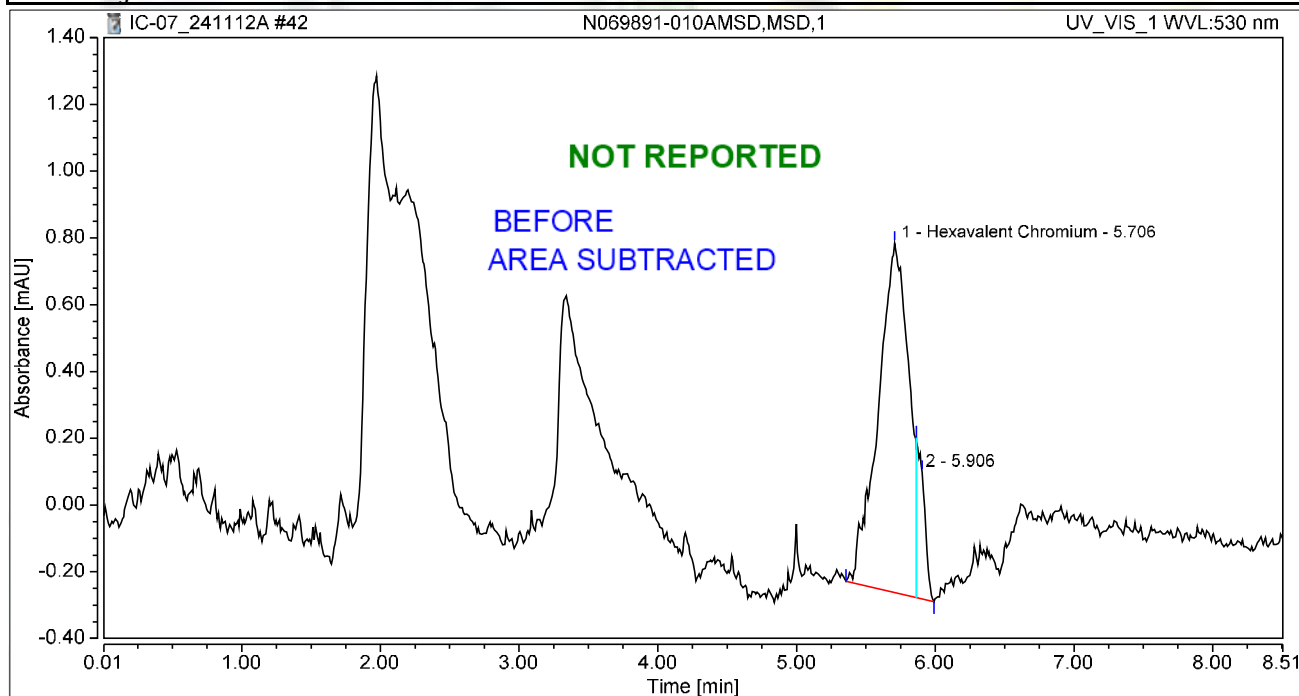
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	0.288	1.038	100.00	100.00	1.0138
Total:			0.288	1.038	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-010AMSD,MSD,1	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 14:38	Sample Weight:	1.0000

Chromatogram



Integration Results

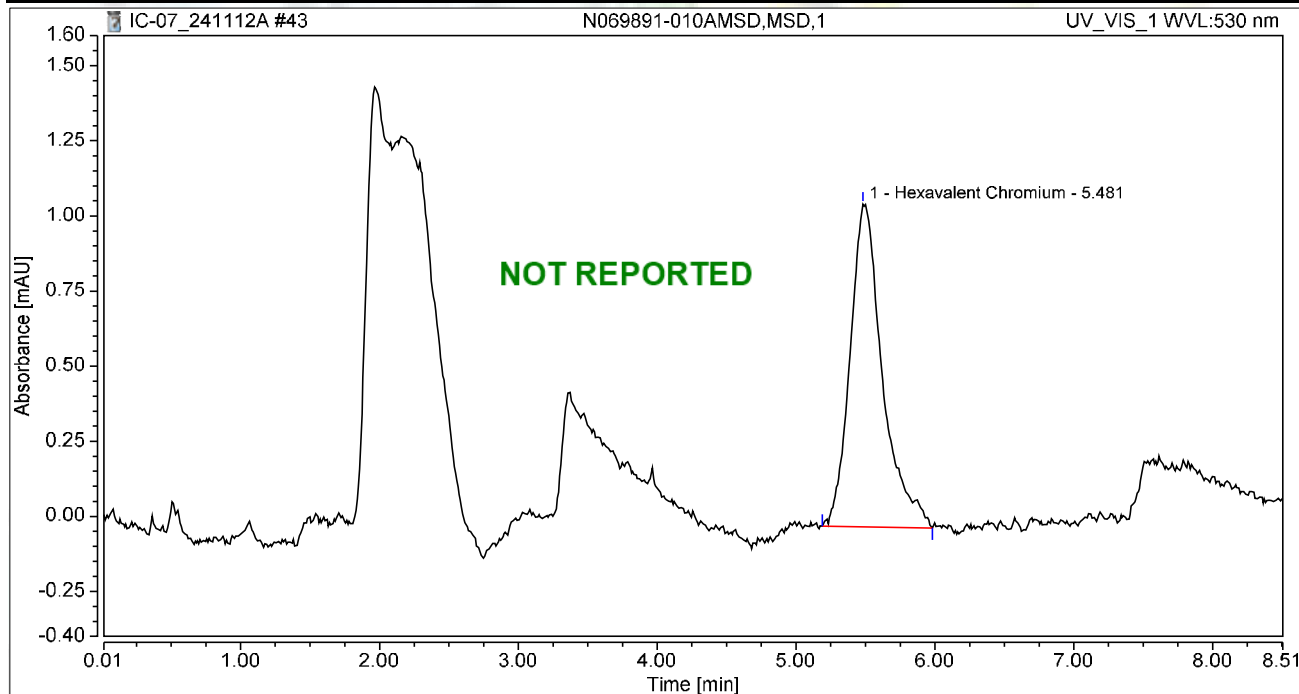
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.706	0.264	1.047	90.00	73.38	0.9312
2		5.906	0.029	0.380	10.00	26.62	n.a.
Total:			0.294	1.426	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-010AMSD,MSD,1	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 15:50	Sample Weight:	1.0000

Chromatogram



Integration Results

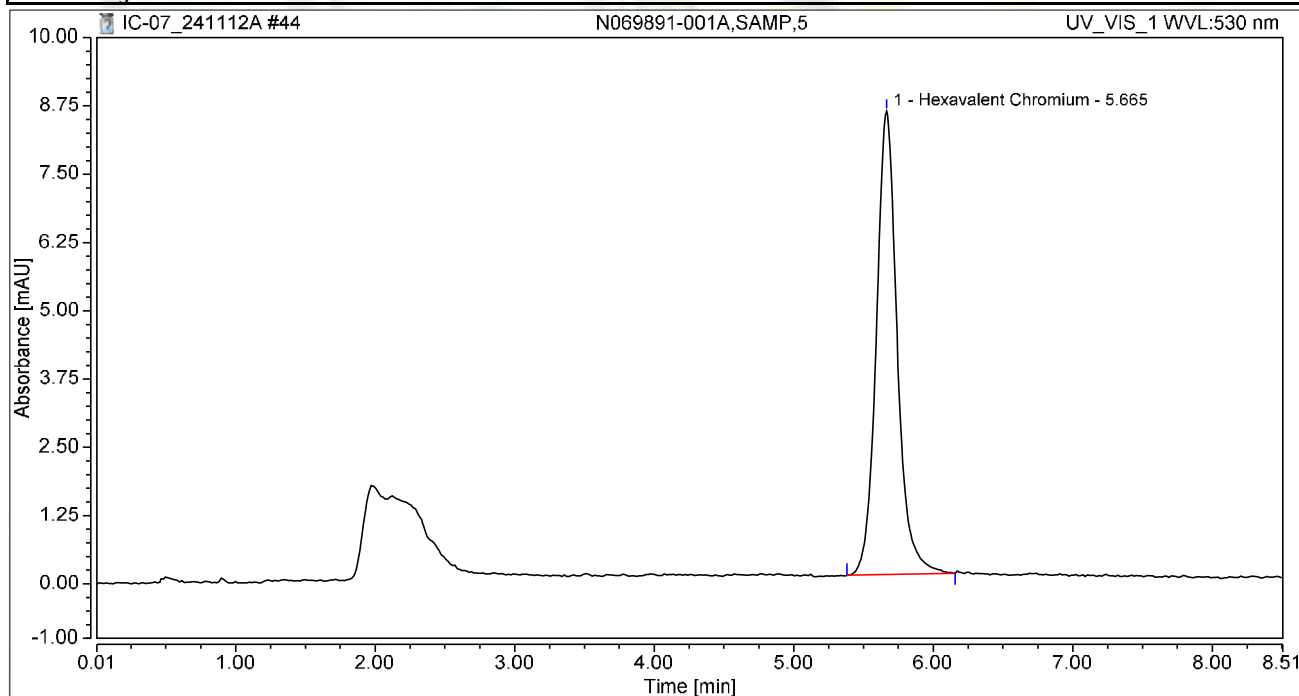
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.481	0.290	1.075	100.00	100.00	1.0231
Total:			0.290	1.075	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-001A,SAMP,5 / 50	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 16:02	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	1.468	8.481	100.00	100.00	5.1720
Total:			1.468	8.481	100.00	100.00	

Nancy

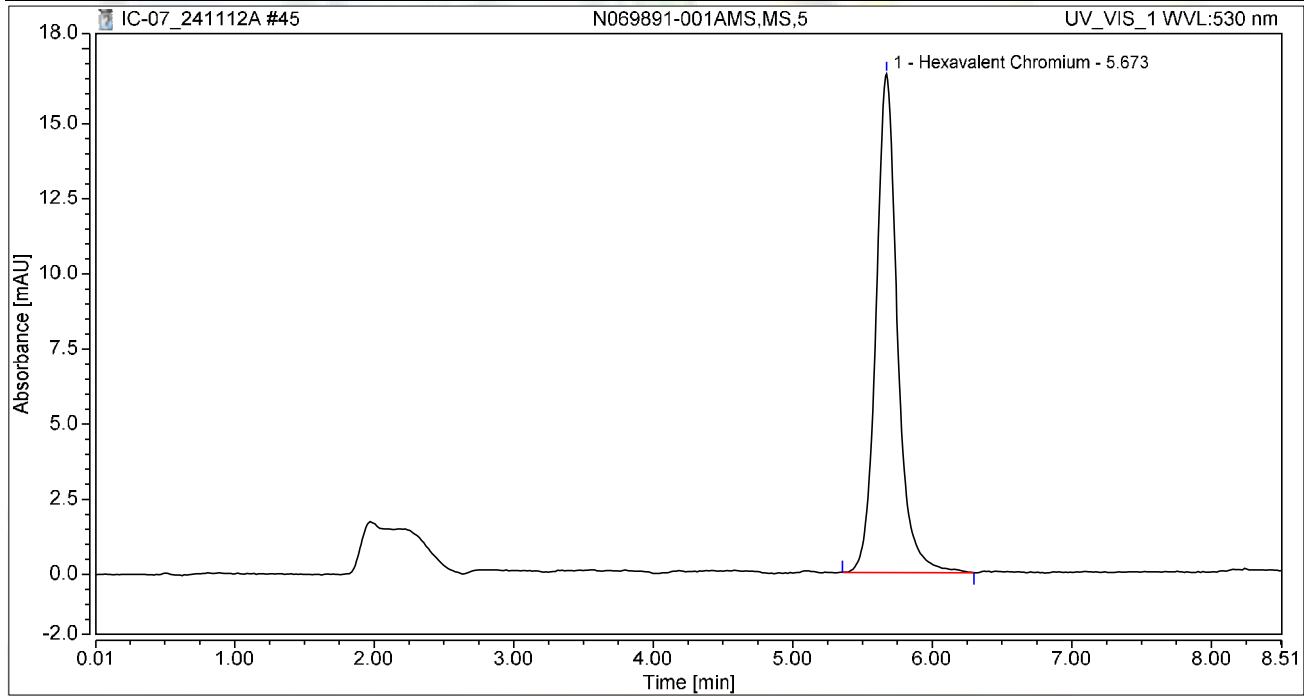
12/02/2024
for RBA

Chromatogram and Results

Injection Details

Injection Name:	N069891-001AMS,MS,5	50	Run Time (min):	8.50
Vial Number:	3		Injection Volume:	1000.00
Injection Type:	Unknown		Channel:	UV_VIS_1
Calibration Level:			Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm		Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH		Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 16:11		Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	2.944	16.606	100.00	100.00	10.3765
Total:			2.944	16.606	100.00	100.00	

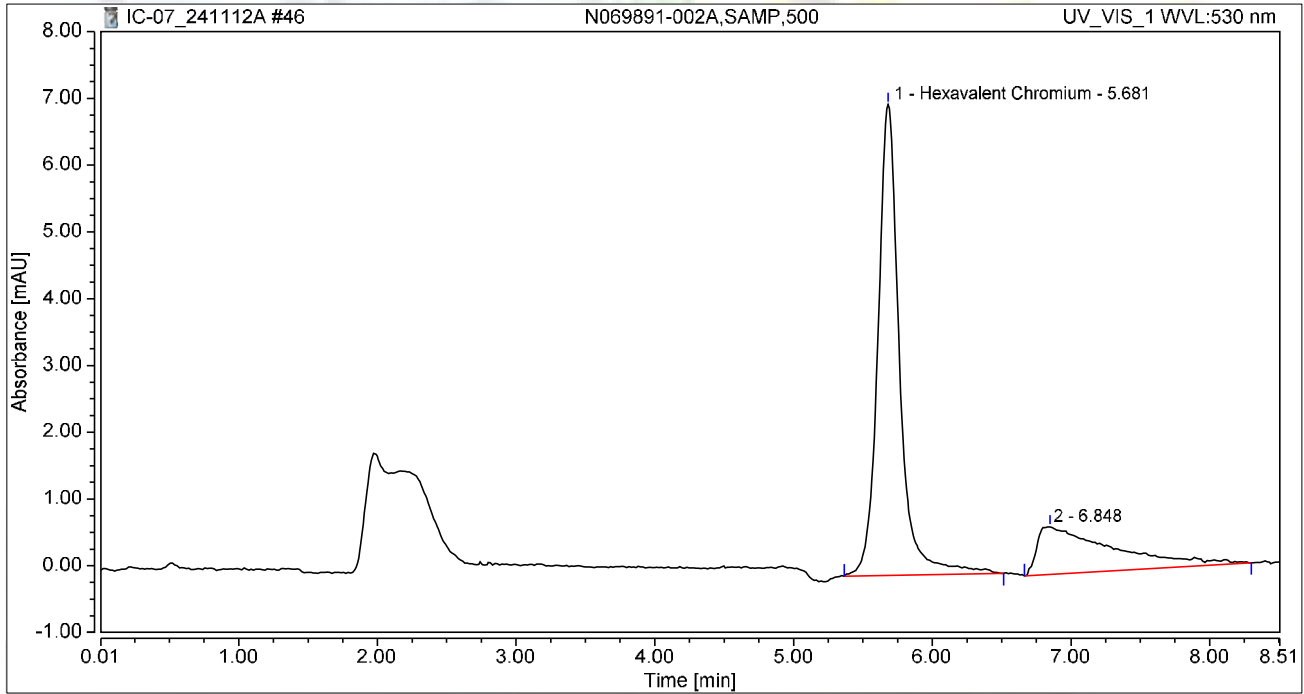
Nancy 12/02/2024
for RBA
My first report/Integration

Chromatogram and Results

Injection Details

Injection Name:	N069891-002A,SAMP,500	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 16:20	Sample Weight:	1.0000

Chromatogram



Integration Results

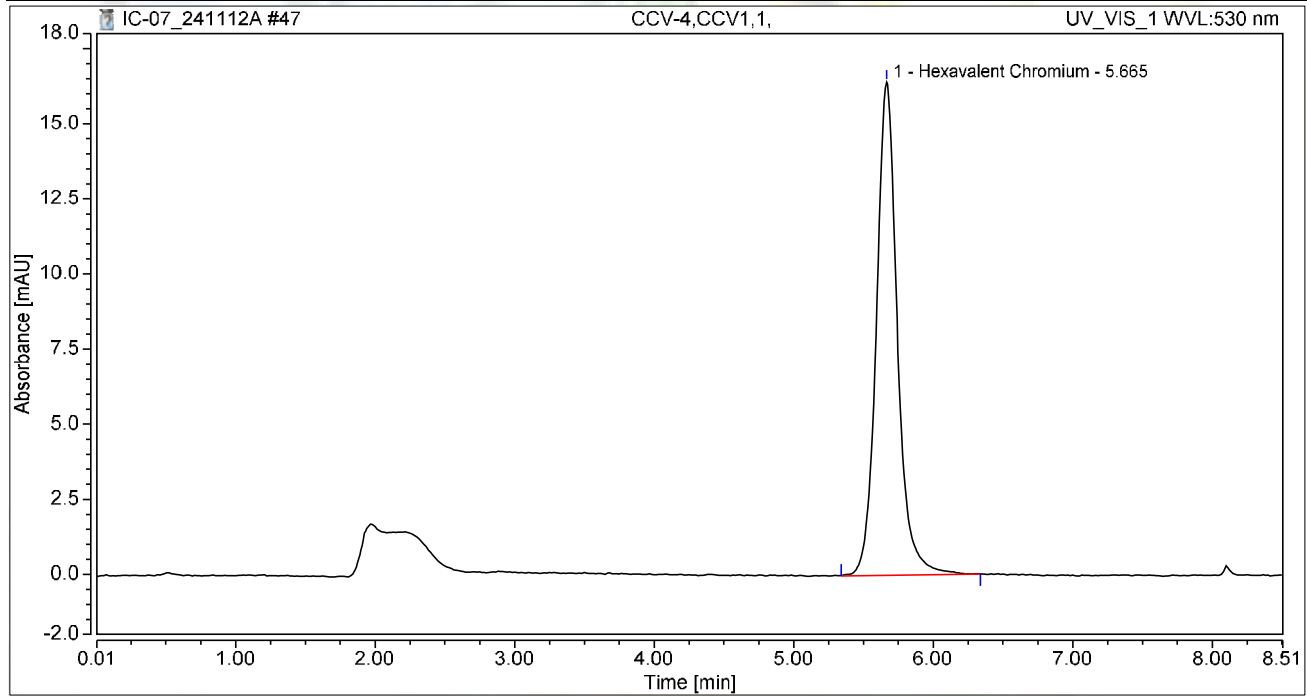
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	1.276	7.052	74.14	90.87	4.4962
2		6.848	0.445	0.709	25.86	9.13	n.a.
Total:			1.721	7.761	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-4,CCV1,1,	Run Time (min):	8.50
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 16:30	Sample Weight:	1.0000

Chromatogram



Integration Results

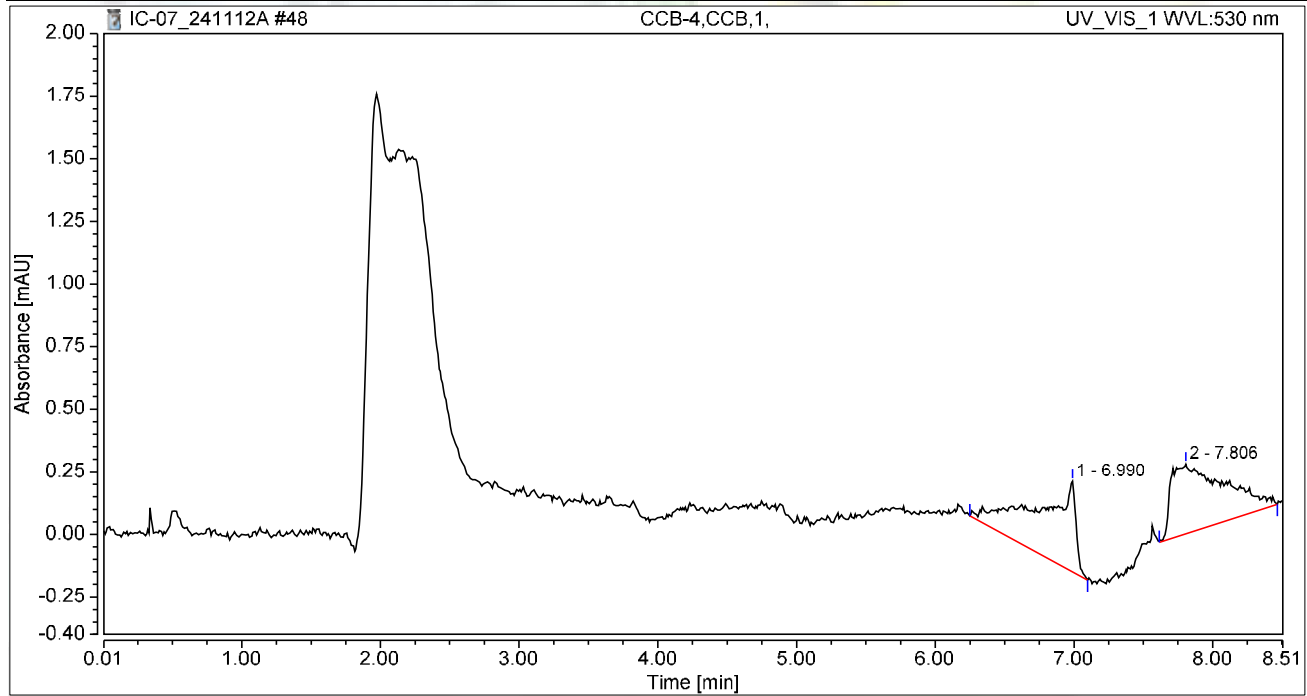
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	2.856	16.413	100.00	100.00	10.0646
Total:			2.856	16.413	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-4,CCB,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 16:39	Sample Weight:	1.0000

Chromatogram



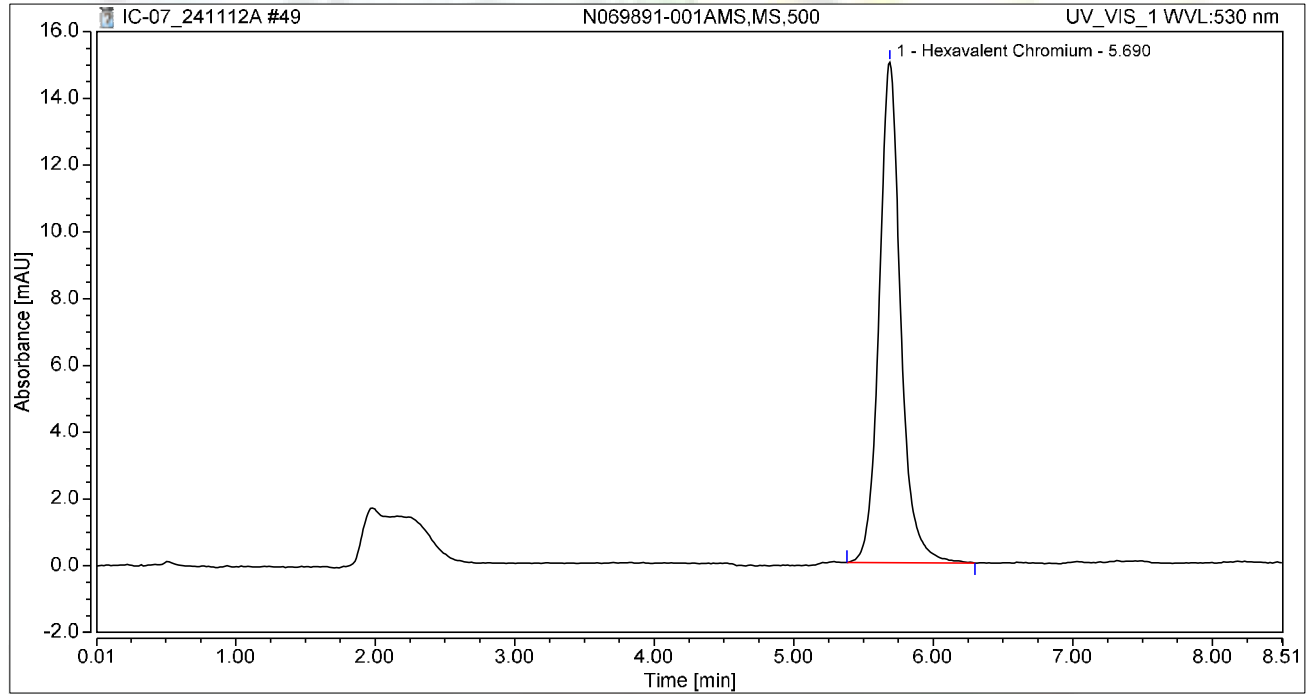
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		6.990	0.116	0.362	48.71	56.49	n.a.
2		7.806	0.122	0.279	51.29	43.51	n.a.
Total:			0.237	0.641	100.00	100.00	

Chromatogram and Results

Injection Details		2
Injection Name:	N069891-001AMS,MS,500	Run Time (min): 8.50
Vial Number:	7	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Nov/24 16:49	Sample Weight: 1.0000

Chromatogram



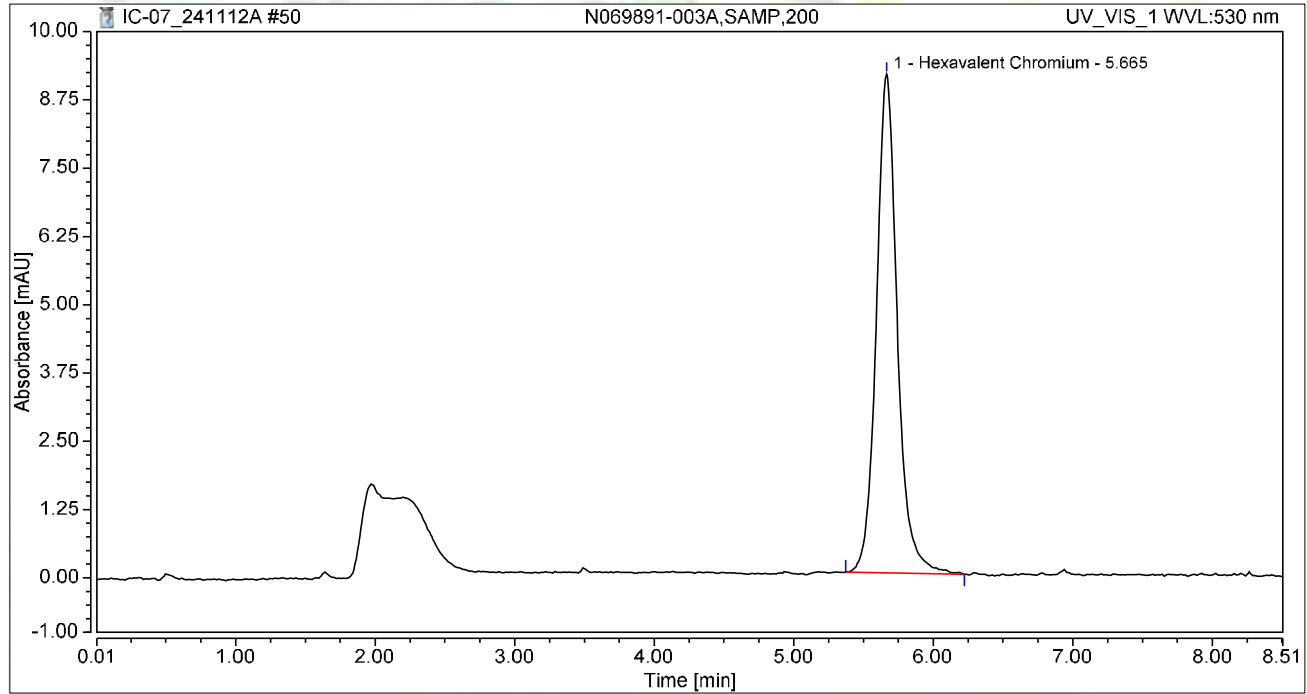
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	2.677	14.994	100.00	100.00	9.4337
Total:			2.677	14.994	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-003A,SAMP,200	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 16:58	Sample Weight:	1.0000

Chromatogram



Integration Results

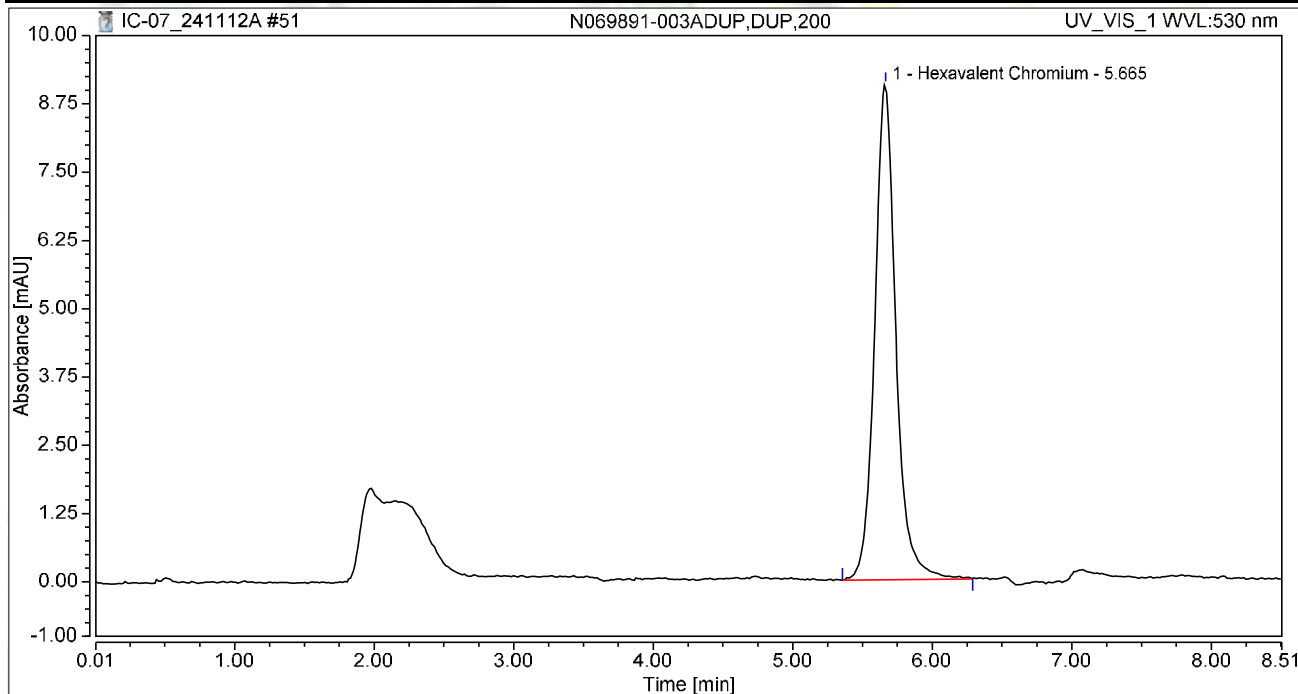
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	1.582	9.128	100.00	100.00	5.5767
Total:			1.582	9.128	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-003ADUP,DUP,200	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 17:11	Sample Weight:	1.0000

Chromatogram



Integration Results

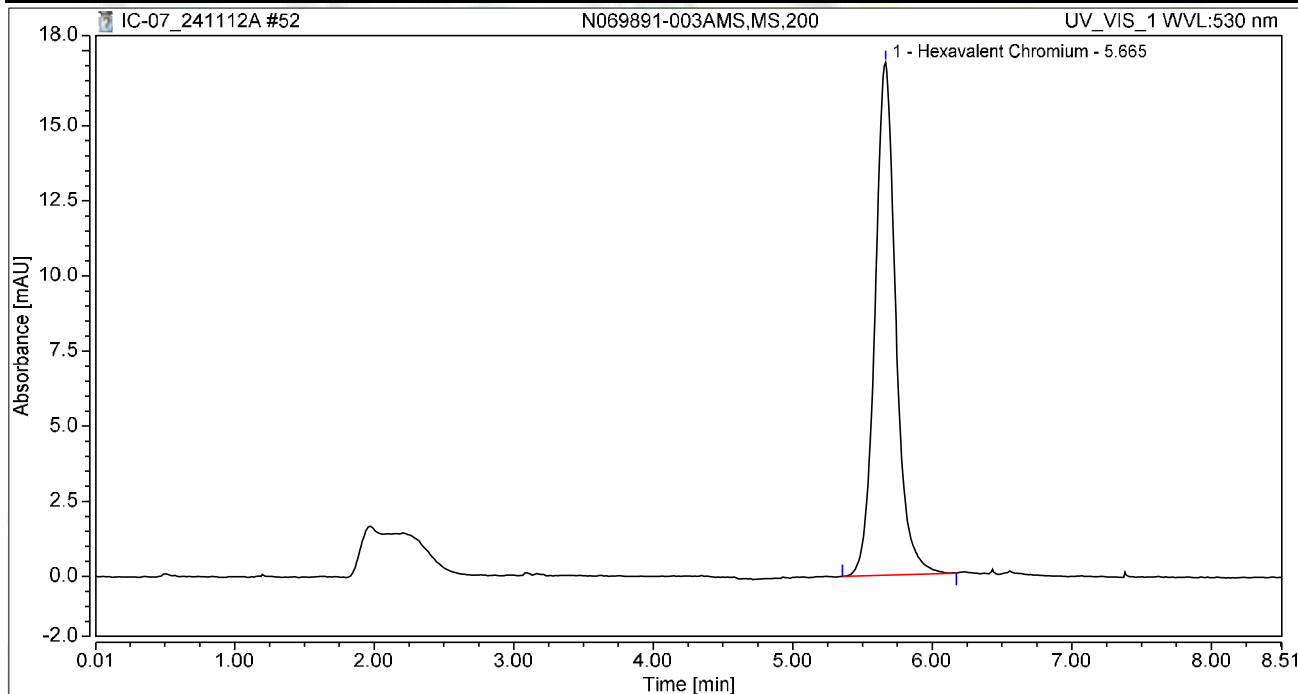
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	1.591	9.069	100.00	100.00	5.6083
Total:			1.591	9.069	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-003AMS,MS,200	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 17:20	Sample Weight:	1.0000

Chromatogram



Integration Results

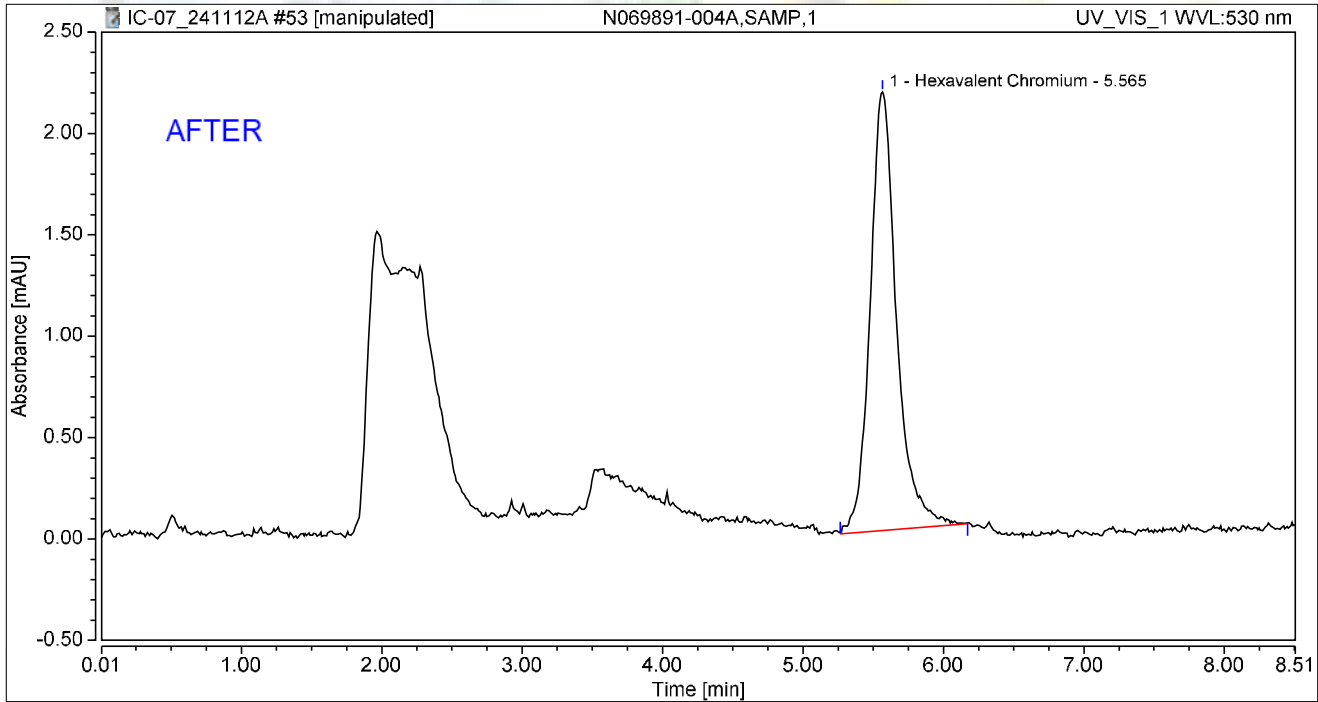
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	2.940	17.063	100.00	100.00	10.3601
Total:			2.940	17.063	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-004A,SAMP,1	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 17:30	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.565	0.472	2.163	100.00	100.00	1.6642
Total:			0.472	2.163	100.00	100.00	

Reviewed by:

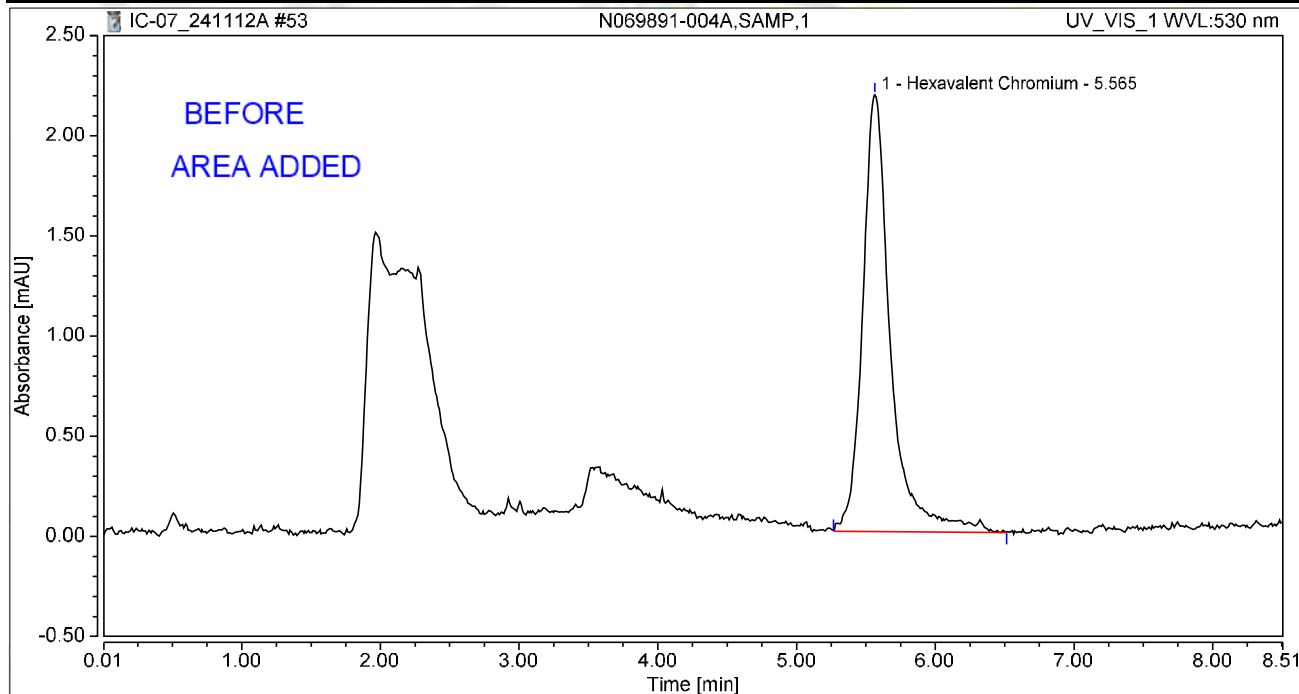
MRecha 11/24/2024

Chromatogram and Results

Injection Details

Injection Name:	N069891-004A,SAMP,1	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 17:30	Sample Weight:	1.0000

Chromatogram



Integration Results

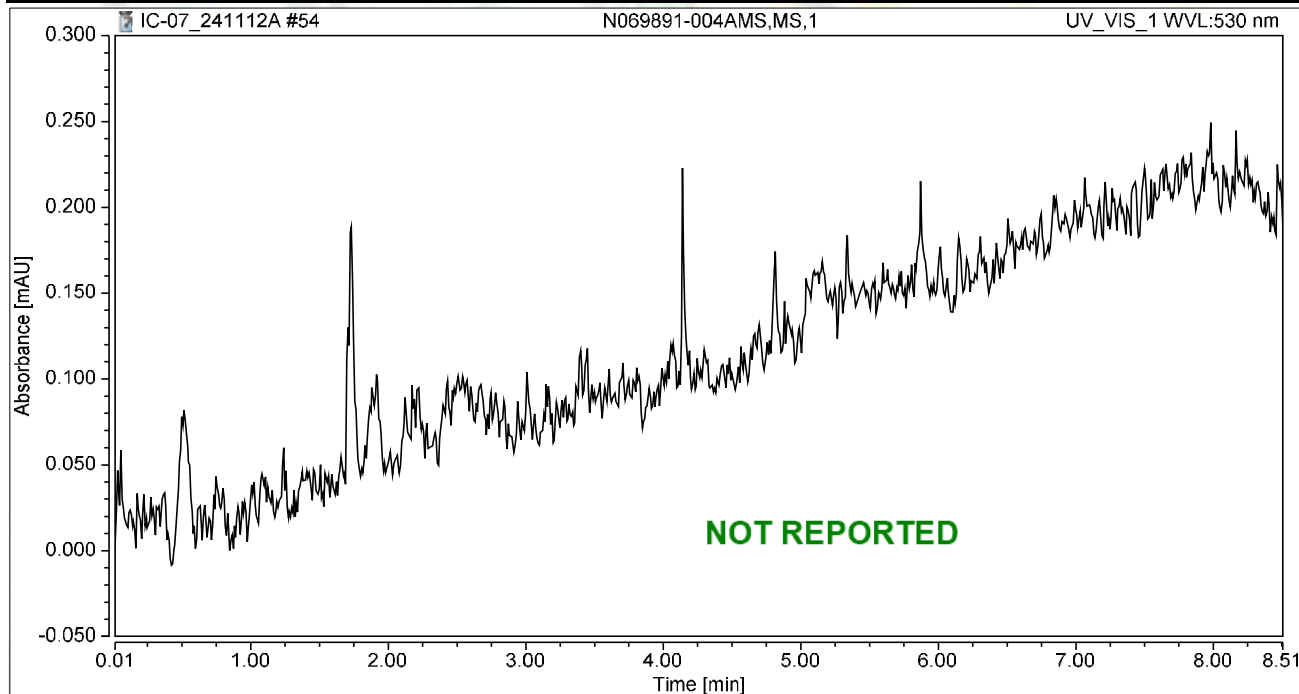
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.565	0.507	2.181	100.00	100.00	1.7868
Total:			0.507	2.181	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-004AMS,MS,1	Run Time (min):	8.49
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 17:56	Sample Weight:	1.0000

Chromatogram



Integration Results

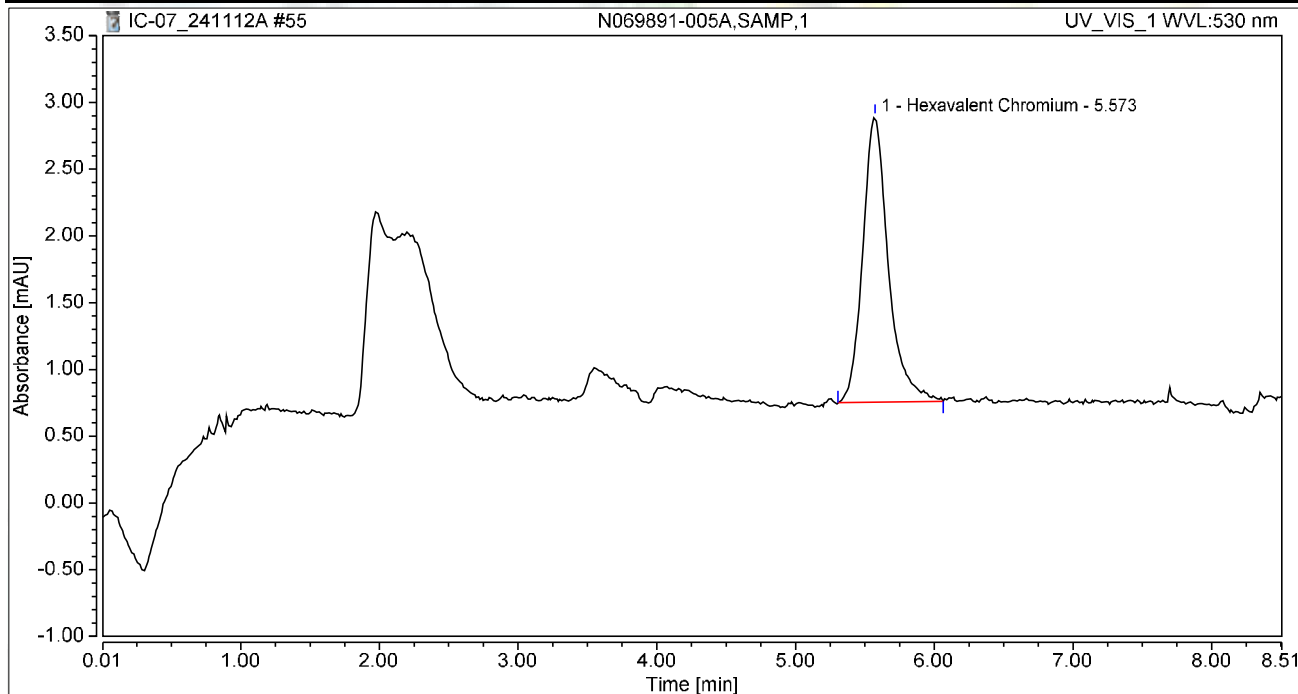
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-005A,SAMP,1	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 18:09	Sample Weight:	1.0000

Chromatogram



Integration Results

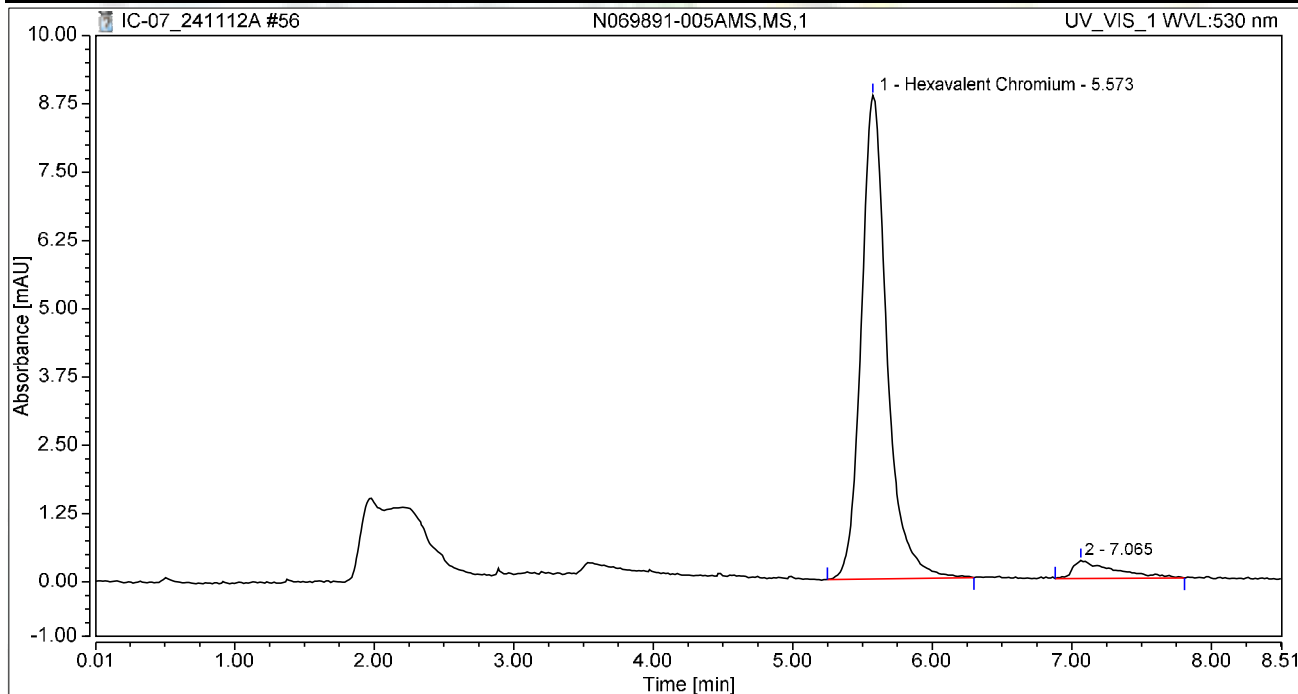
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.573	0.456	2.140	100.00	100.00	1.6086
Total:			0.456	2.140	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-005AMS,MS,1	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 18:19	Sample Weight:	1.0000

Chromatogram



Integration Results

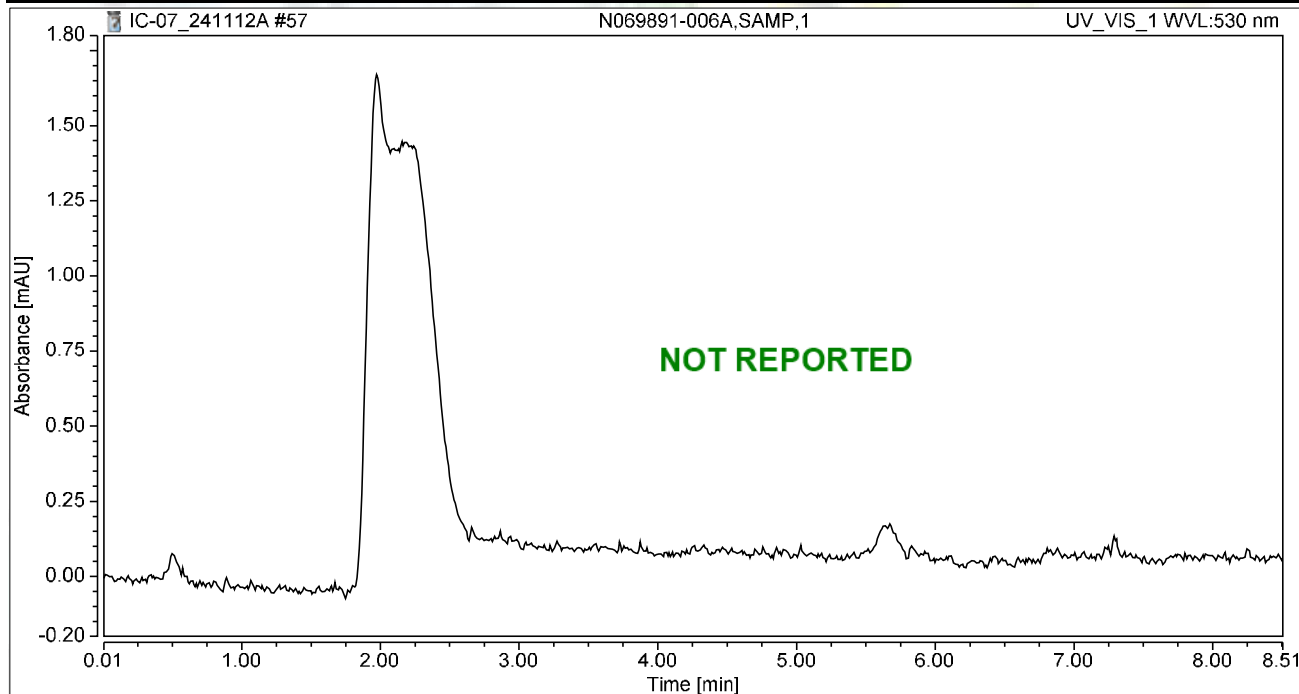
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.573	1.893	8.852	94.28	96.37	6.6696
2		7.065	0.115	0.334	5.72	3.63	n.a.
Total:			2.007	9.185	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-006A,SAMP,1	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 18:28	Sample Weight:	1.0000

Chromatogram



Integration Results

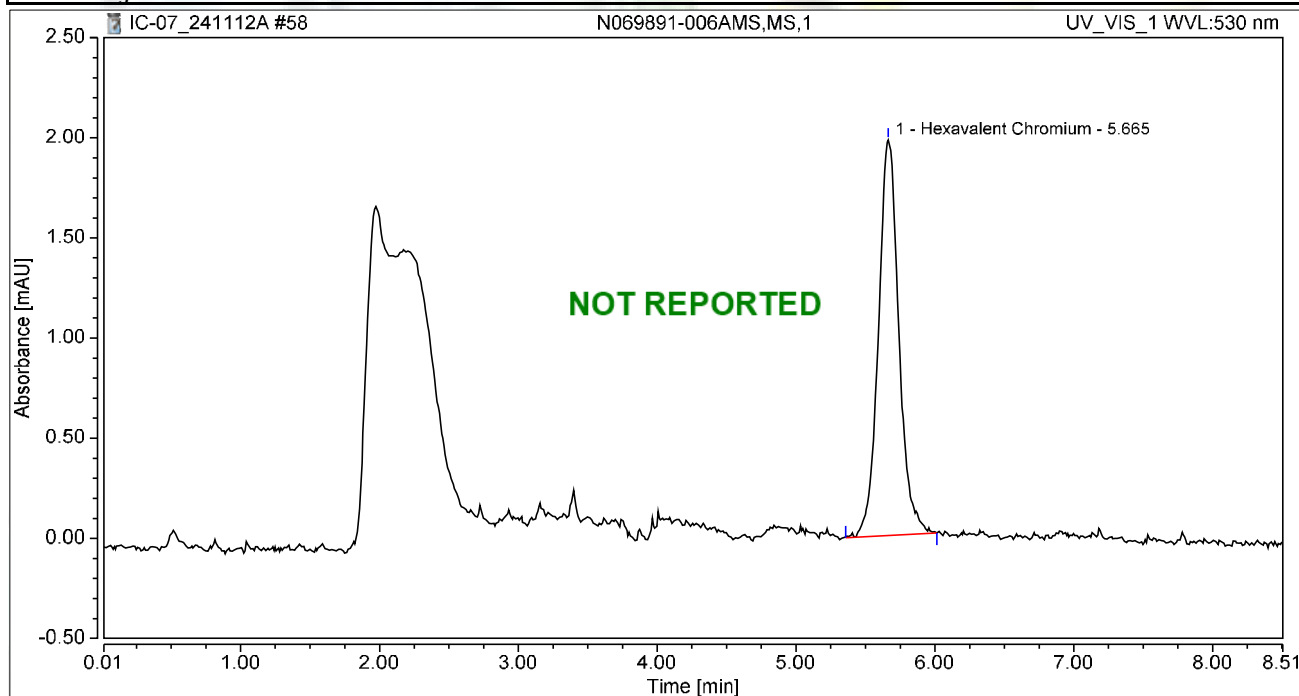
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-006AMS,MS,1	Run Time (min):	8.49
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 18:37	Sample Weight:	1.0000

Chromatogram



Integration Results

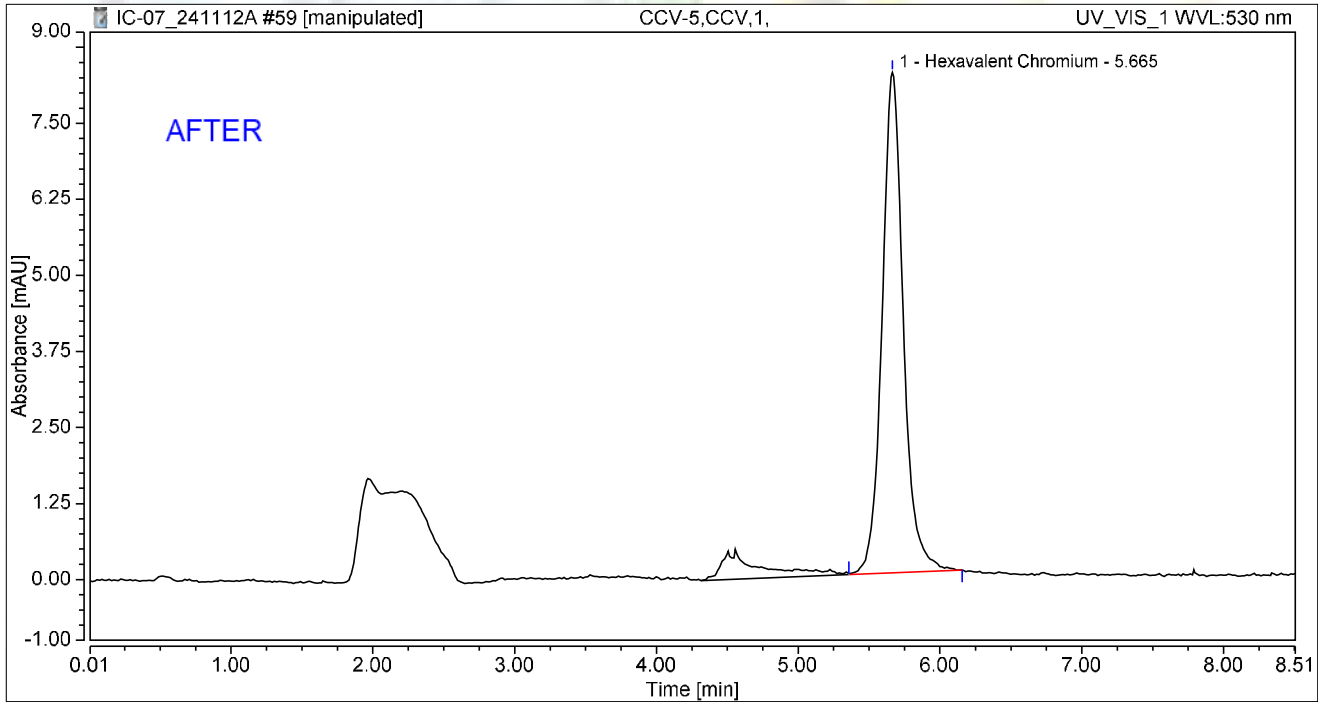
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.337	1.976	100.00	100.00	1.1891
Total:			0.337	1.976	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 18:47	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	1.424	8.225	100.00	100.00	5.0168
Total:			1.424	8.225	100.00	100.00	

Reviewed by:

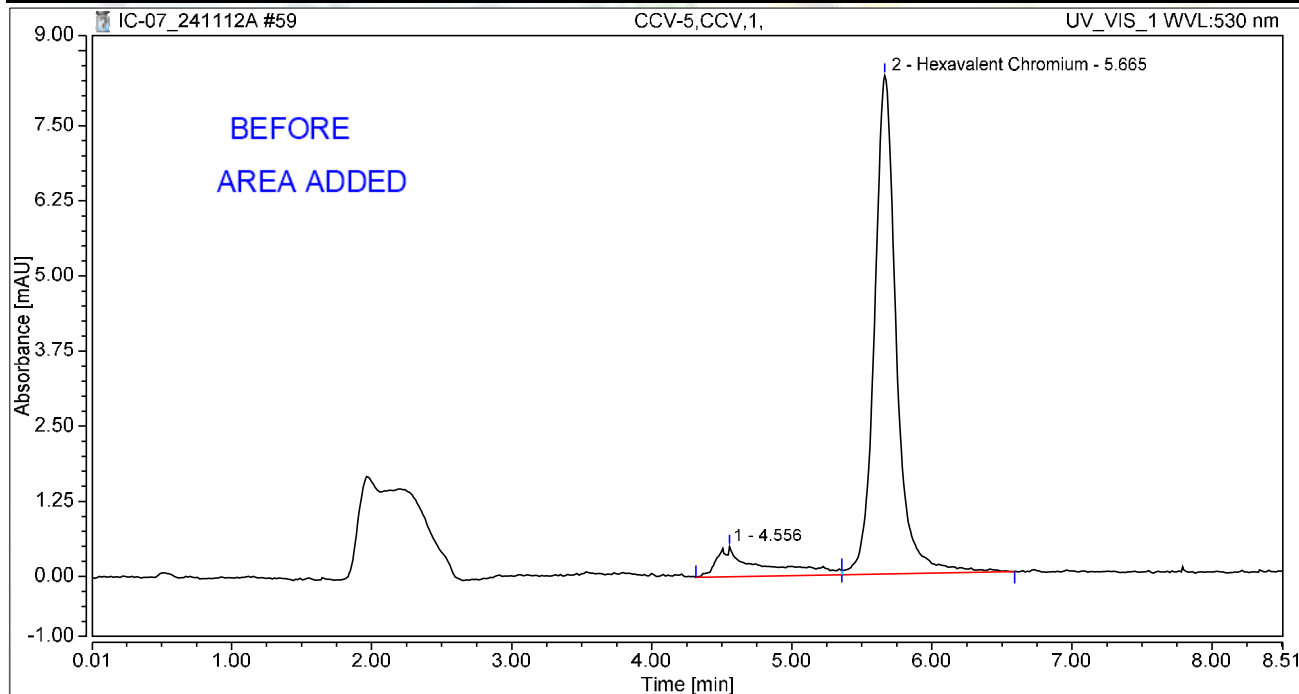
M. Rocha 11/24/2024

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 18:47	Sample Weight:	1.0000

Chromatogram



Integration Results

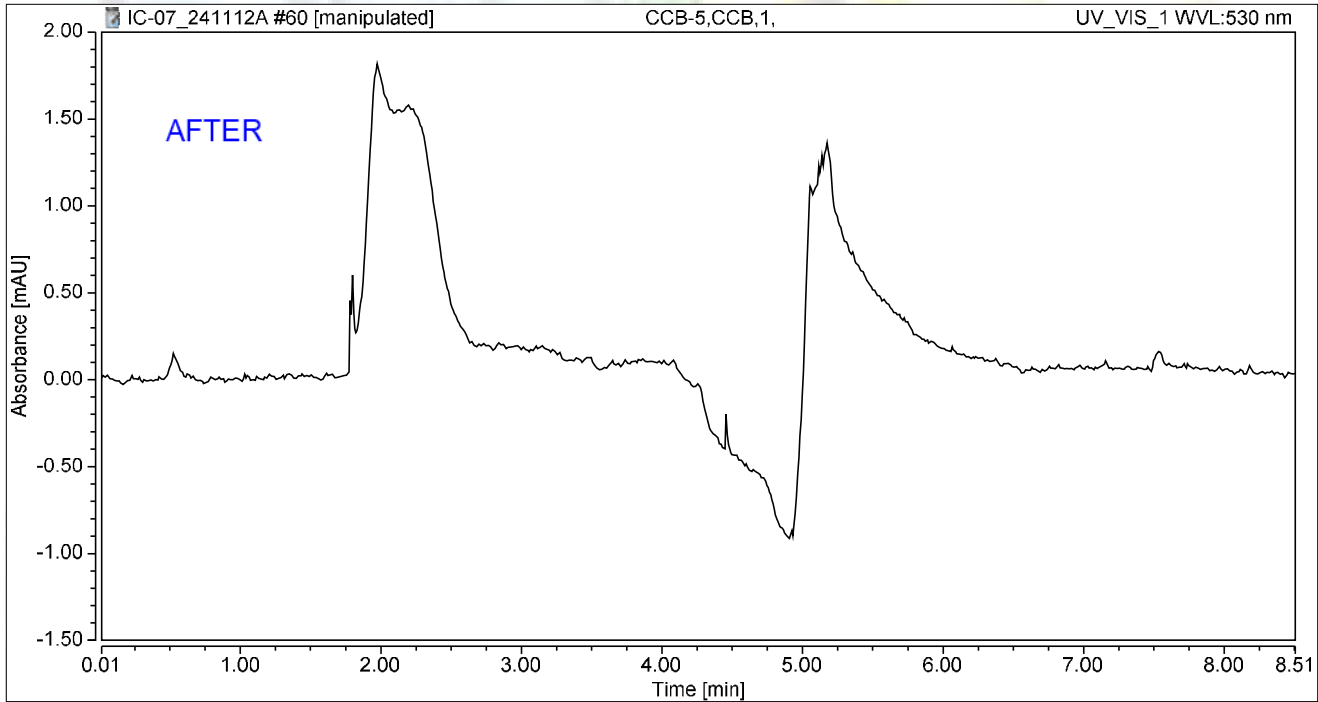
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		4.556	0.179	0.501	10.64	5.69	n.a.
2	Hexavalent Chromium	5.665	1.499	8.294	89.36	94.31	5.2843
Total:			1.678	8.795	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.49
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 18:56	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Reviewed by:

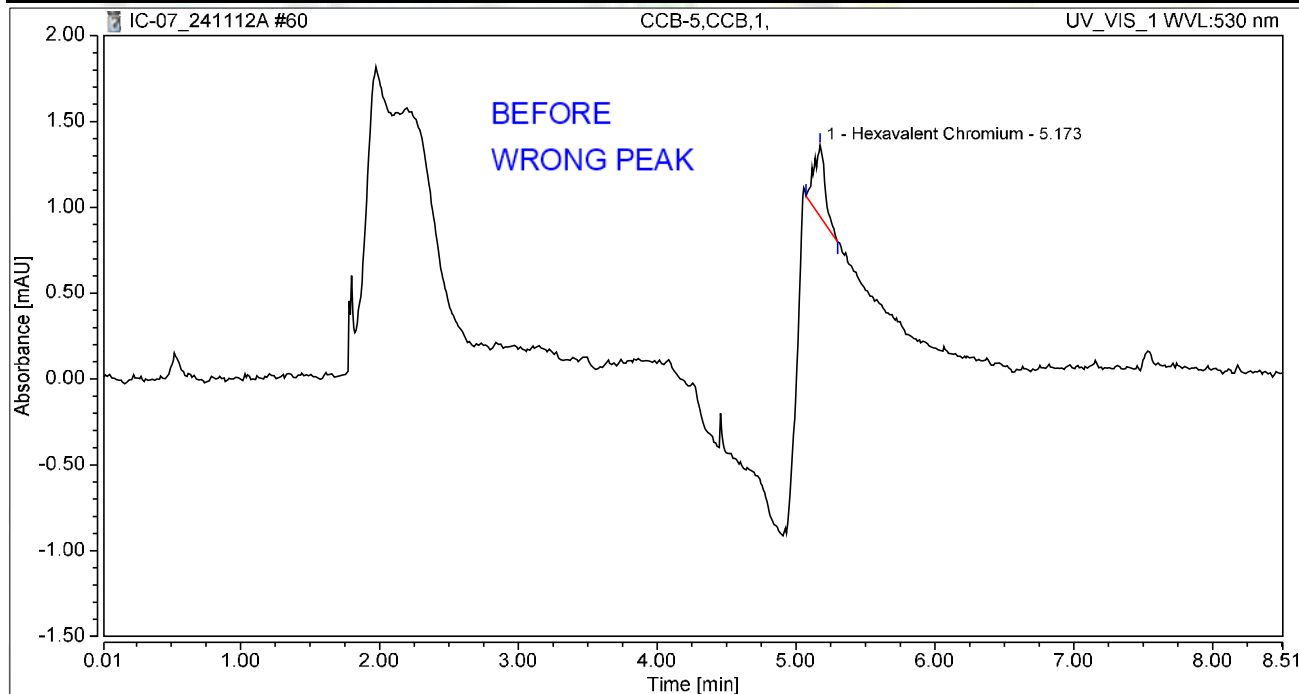
d/Rocha 11/24/2024

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.49
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 18:56	Sample Weight:	1.0000

Chromatogram



Integration Results

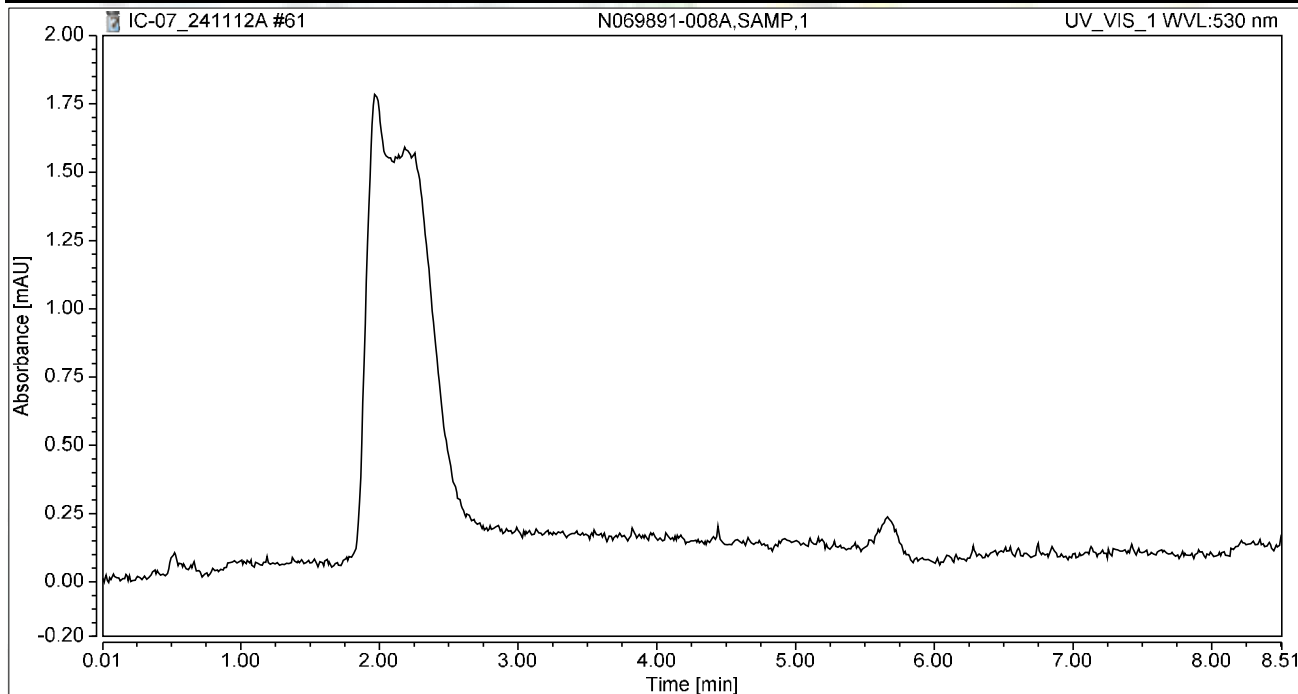
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.173	0.039	0.416	100.00	100.00	0.1373
Total:			0.039	0.416	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-008A,SAMP,1	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 19:09	Sample Weight:	1.0000

Chromatogram



Integration Results

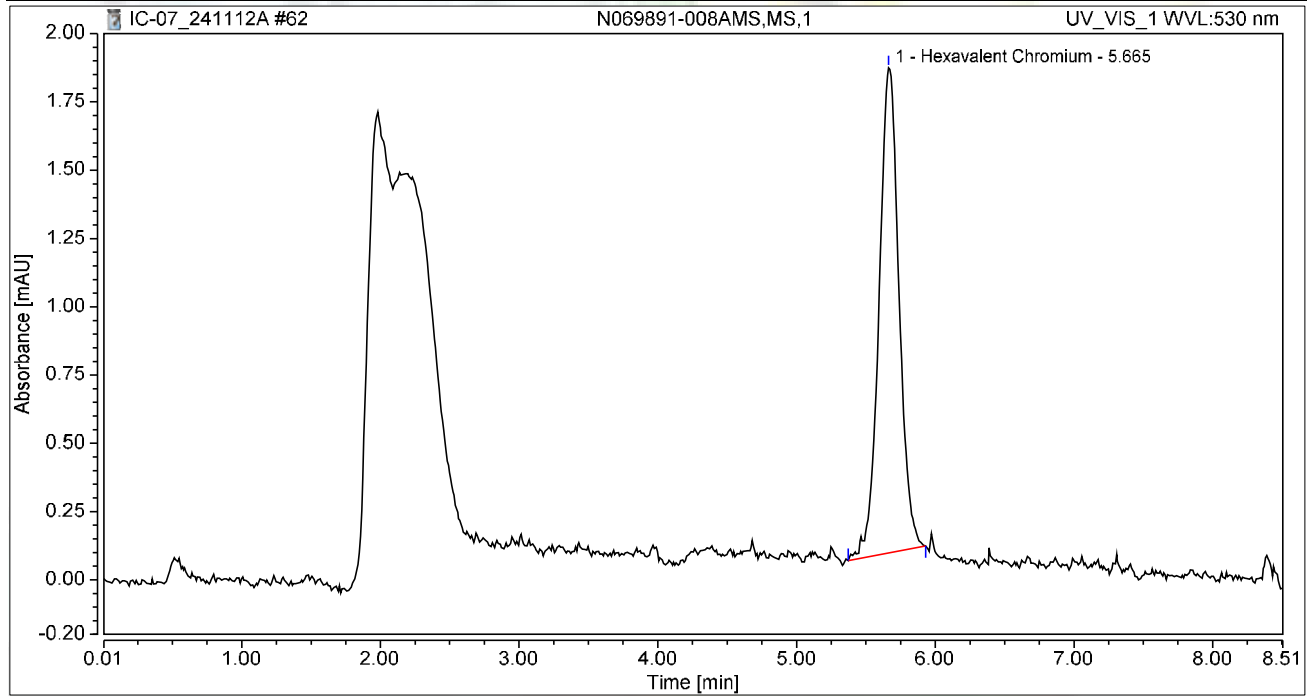
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-008AMS,MS,1	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 19:18	Sample Weight:	1.0000

Chromatogram



Integration Results

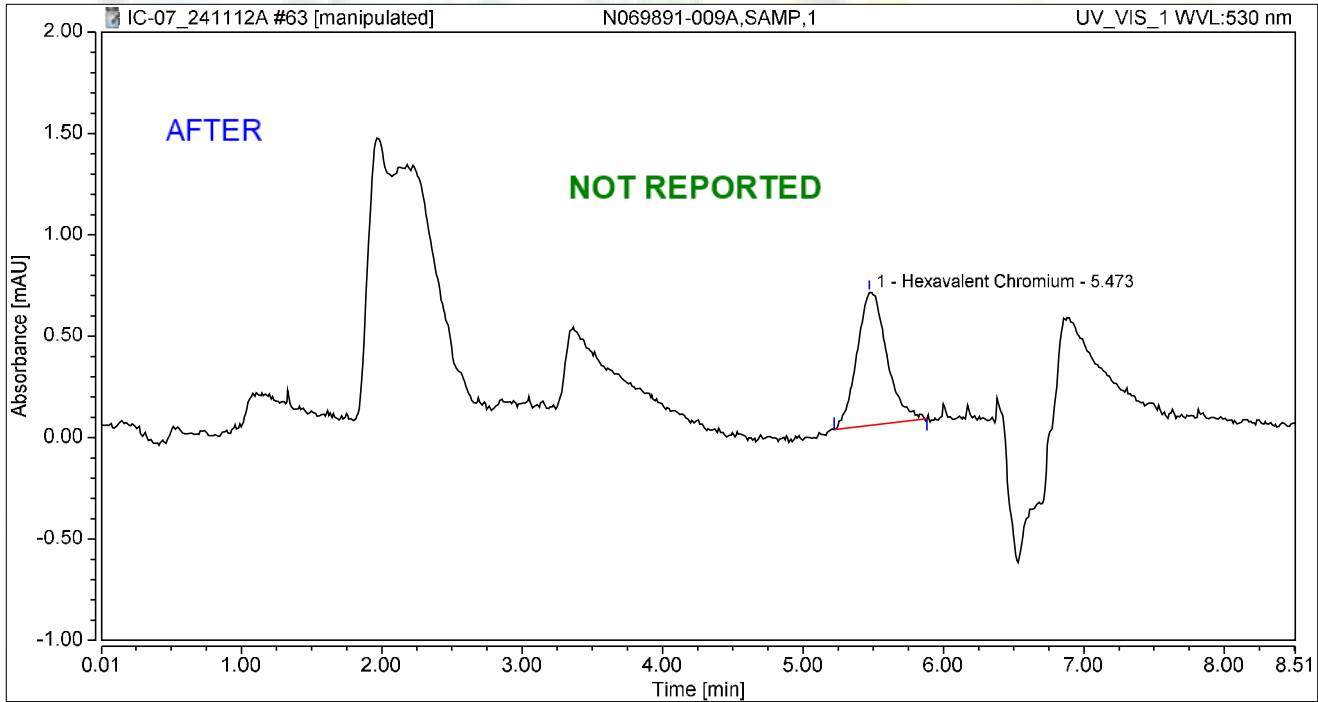
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.296	1.777	100.00	100.00	1.0441
Total:			0.296	1.777	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-009A,SAMP,1	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 19:28	Sample Weight:	1.0000

Chromatogram



Integration Results

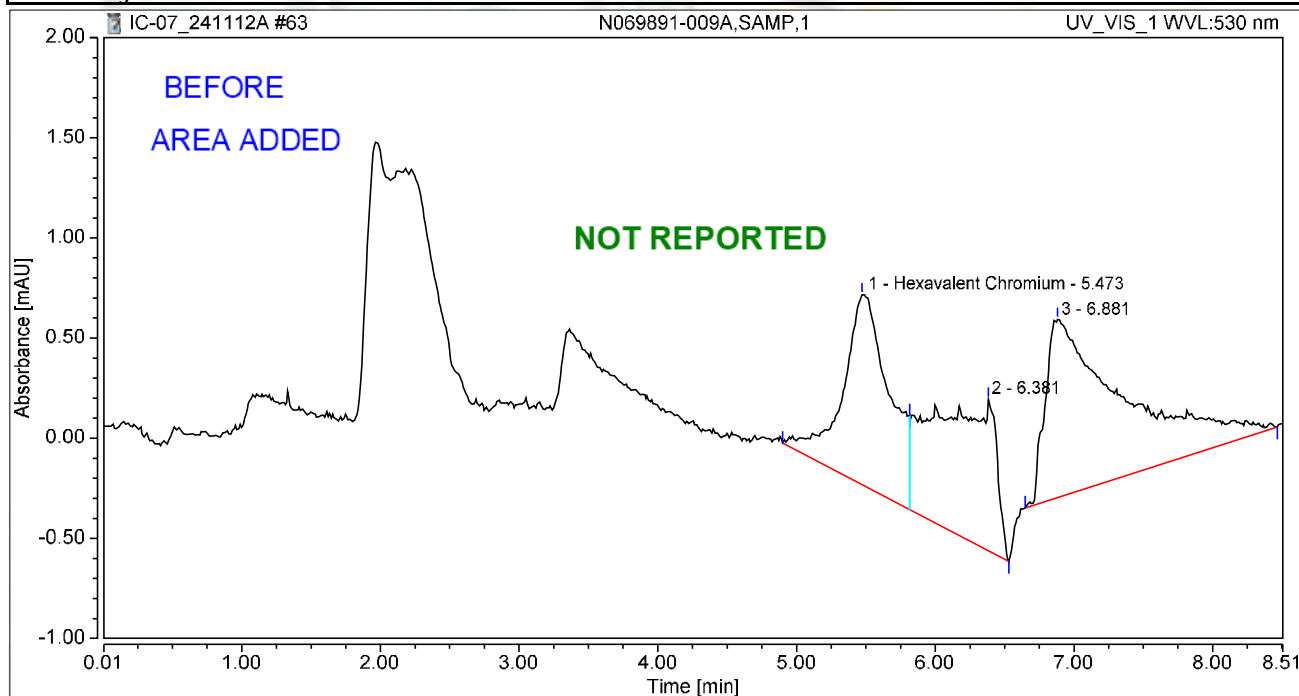
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.473	0.161	0.655	100.00	100.00	0.5680
Total:			0.161	0.655	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-009A,SAMP,1	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 19:28	Sample Weight:	1.0000

Chromatogram



Integration Results

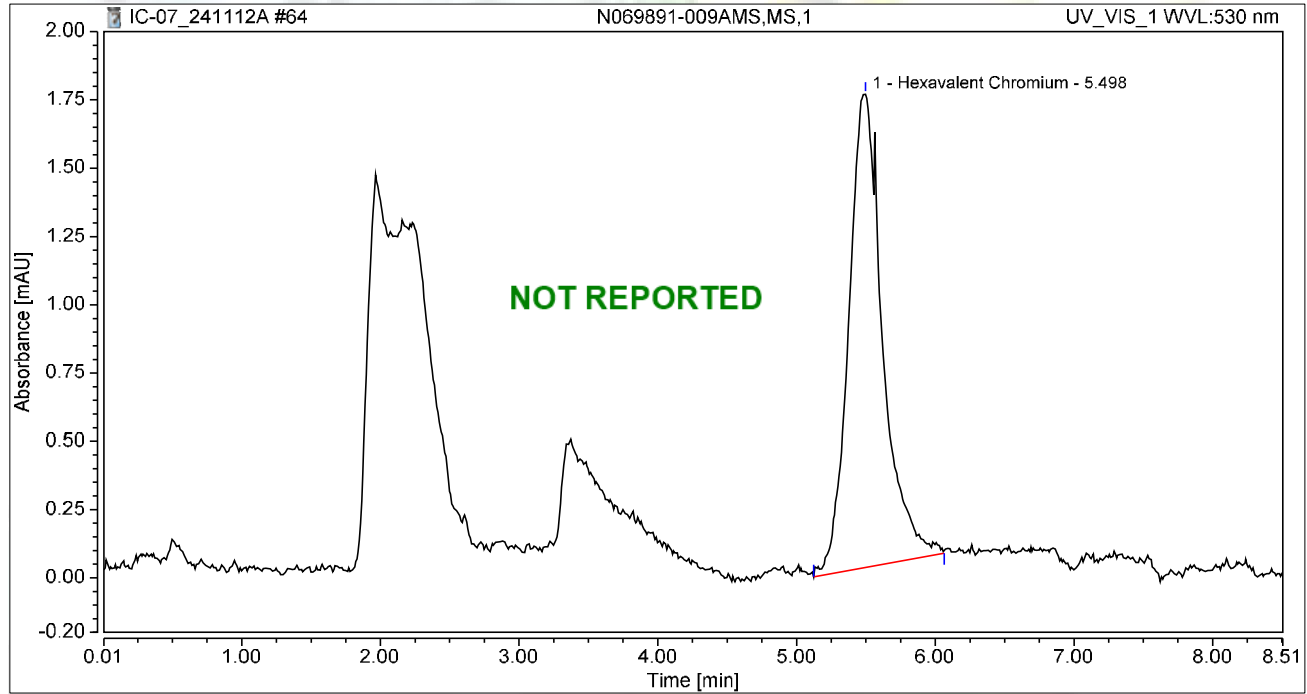
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.473	0.374	0.948	28.33	36.57	1.3184
2		6.381	0.376	0.755	28.48	29.13	n.a.
3		6.881	0.570	0.889	43.19	34.31	n.a.
Total:			1.321	2.591	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-009AMS,MS,1	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 19:37	Sample Weight:	1.0000

Chromatogram



Integration Results

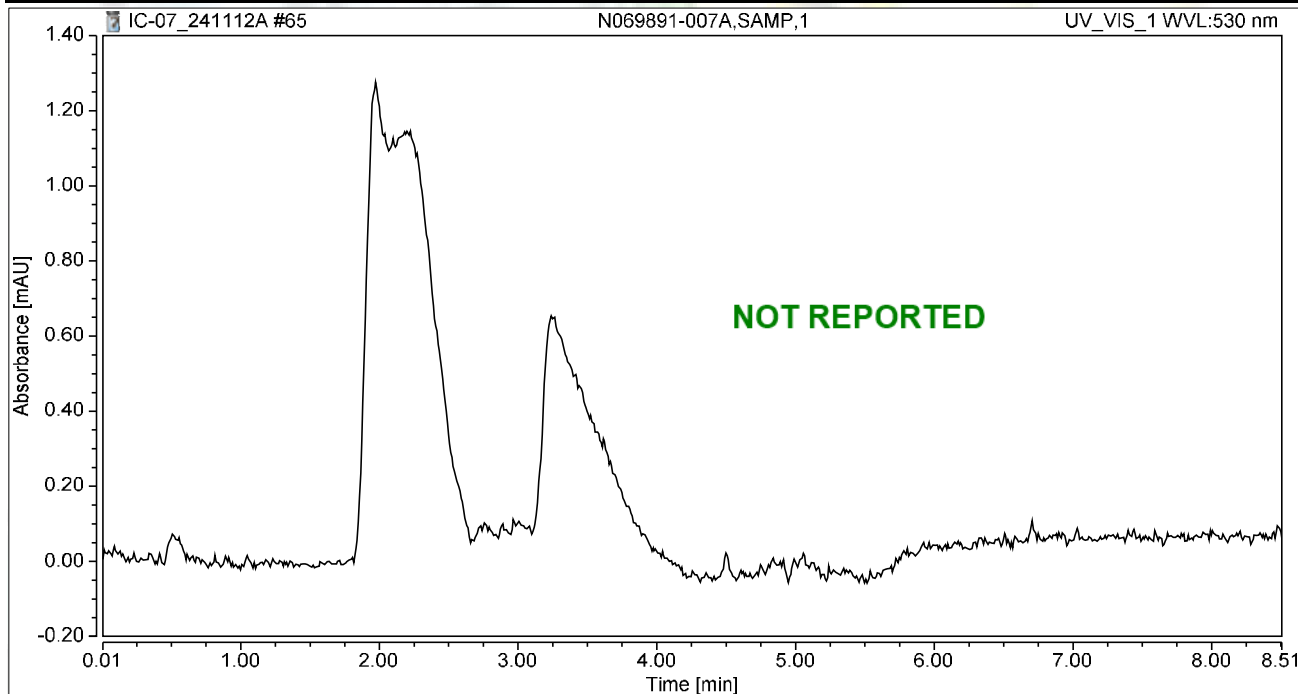
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.498	0.493	1.732	100.00	100.00	1.7358
Total:			0.493	1.732	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-007A,SAMP,1	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 19:46	Sample Weight:	1.0000

Chromatogram



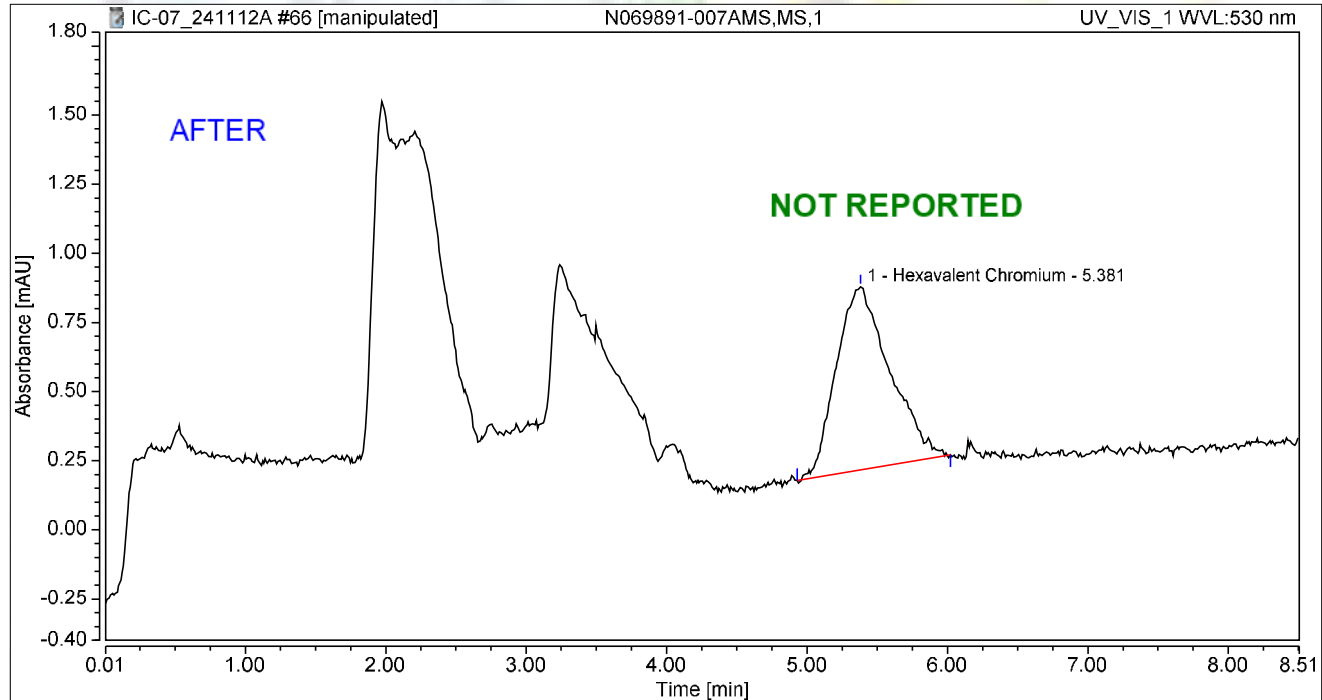
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069891-007AMS,MS,1	Run Time (min): 8.50
Vial Number:	13	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Nov/24 19:56	Sample Weight: 1.0000

Chromatogram



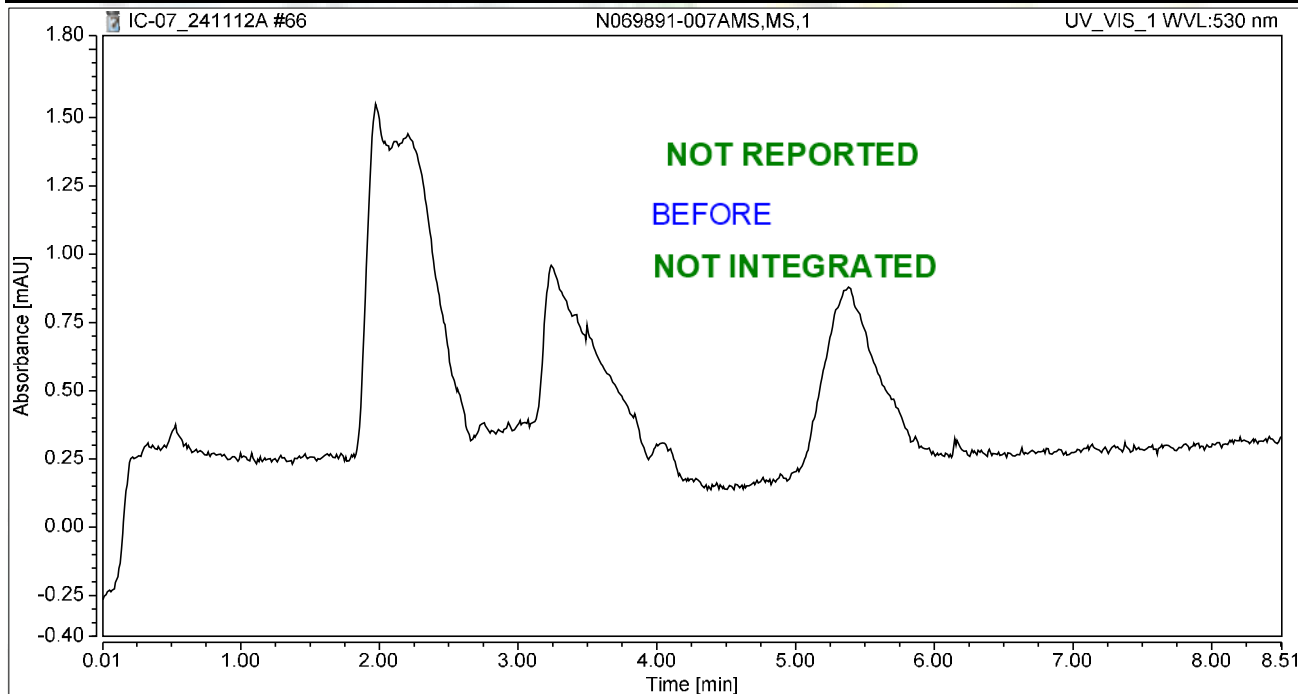
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.381	0.291	0.662	100.00	100.00	1.0262
Total:			0.291	0.662	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-007AMS,MS,1	Run Time (min):	8.50
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 19:56	Sample Weight:	1.0000

Chromatogram



Integration Results

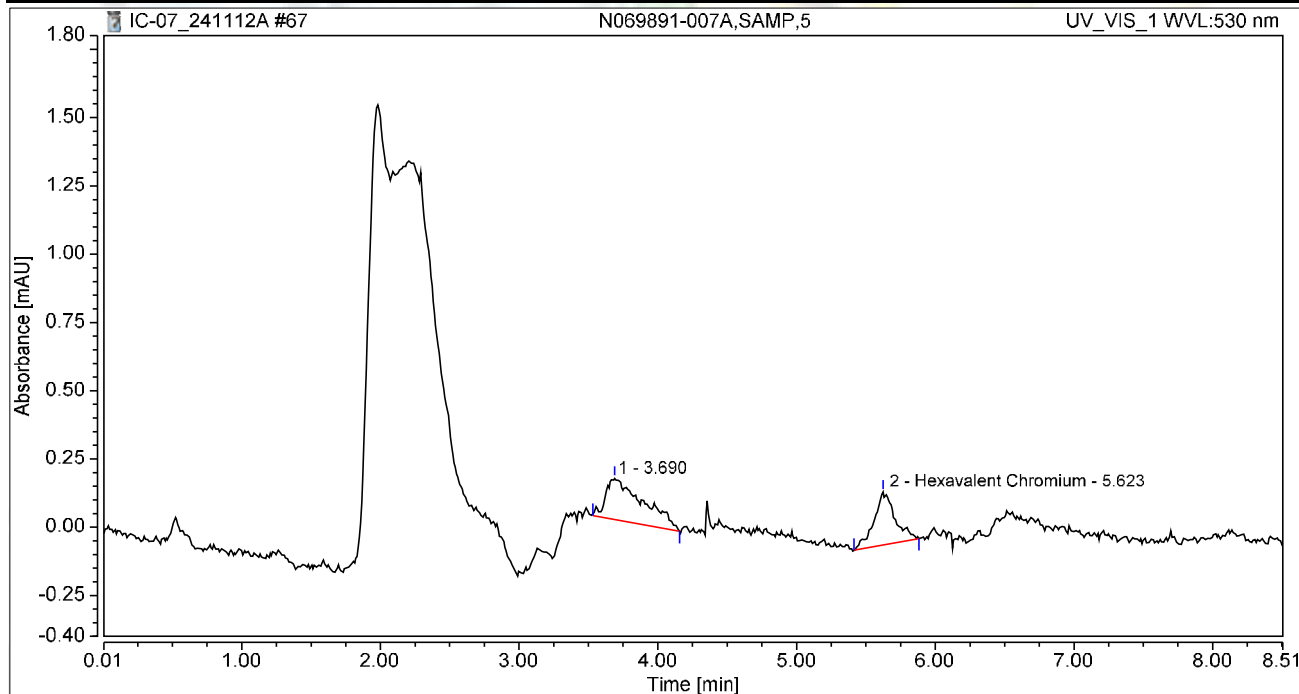
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-007A,SAMP,5	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 20:05	Sample Weight:	1.0000

Chromatogram



Integration Results

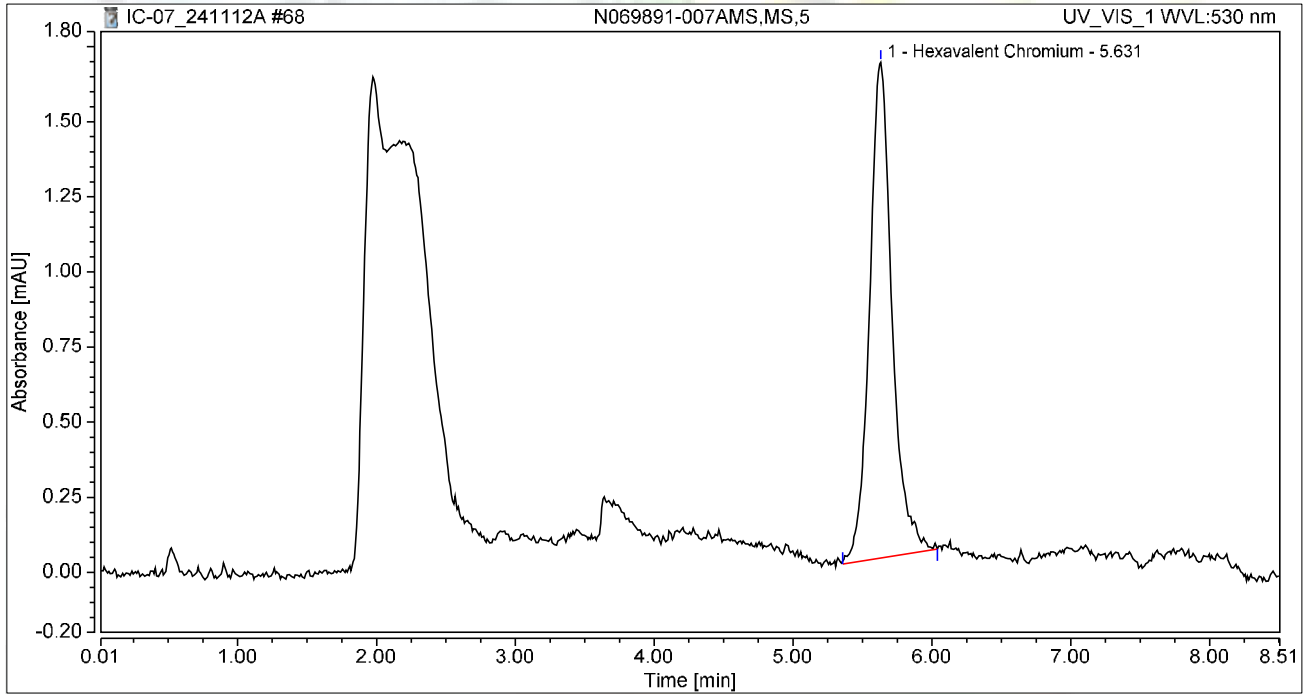
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.690	0.049	0.150	58.94	43.54	n.a.
2	Hexavalent Chromium	5.623	0.034	0.195	41.06	56.46	0.1193
Total:			0.082	0.345	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-007AMS,MS,5	Run Time (min):	8.49
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 20:15	Sample Weight:	1.0000

Chromatogram



Integration Results

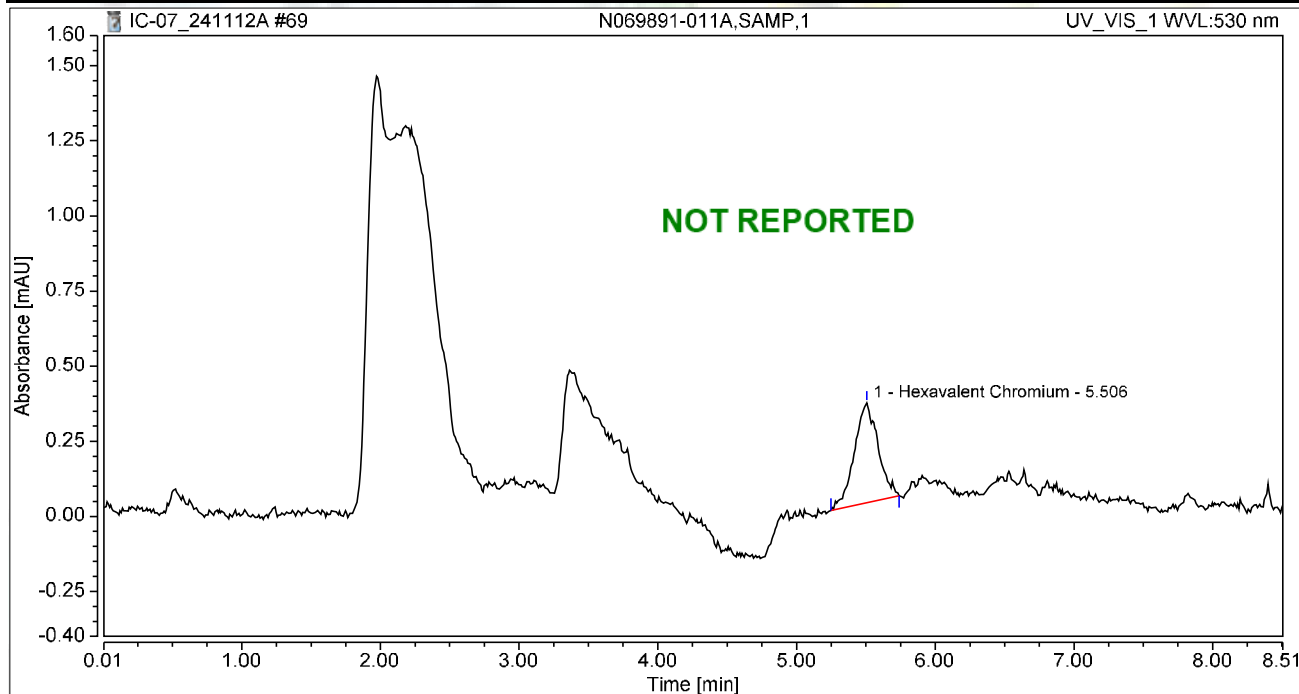
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.631	0.311	1.650	100.00	100.00	1.0946
Total:			0.311	1.650	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-011A,SAMP,1	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 20:24	Sample Weight:	1.0000

Chromatogram



Integration Results

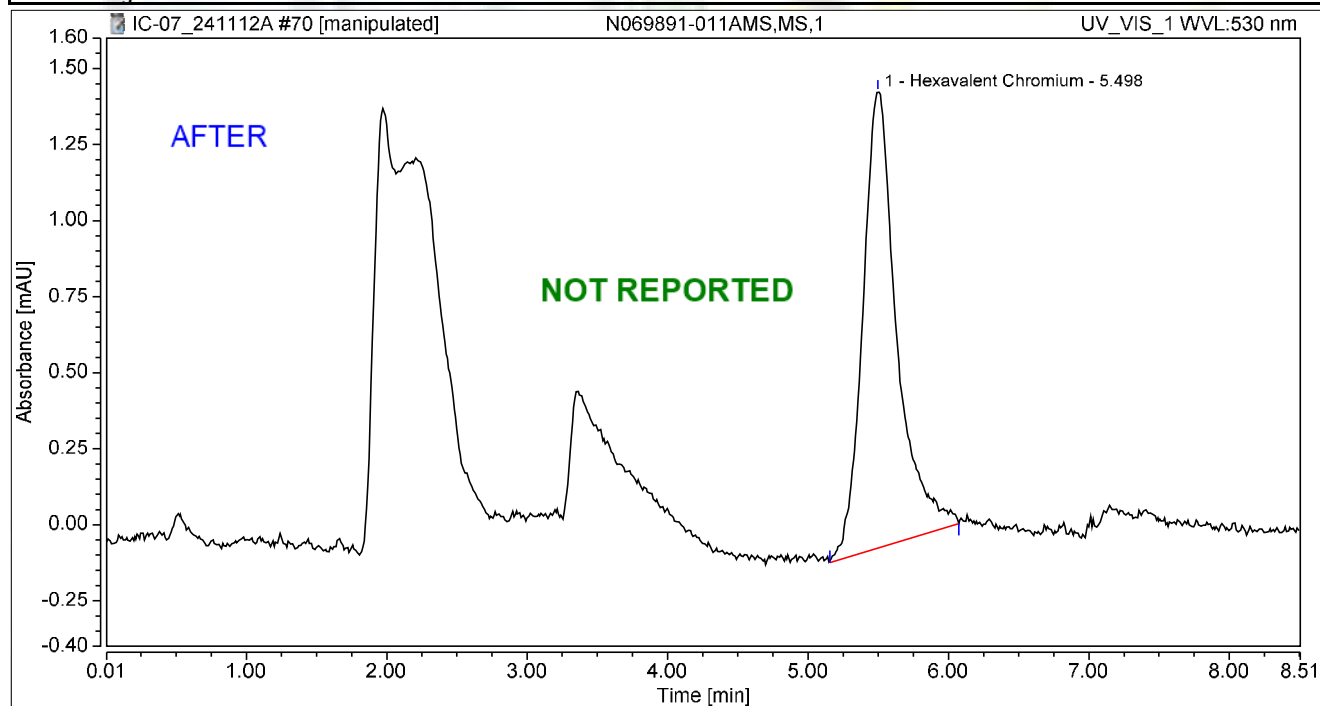
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.506	0.066	0.331	100.00	100.00	0.2322
Total:			0.066	0.331	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-011AMS,MS,1	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 20:34	Sample Weight:	1.0000

Chromatogram



Integration Results

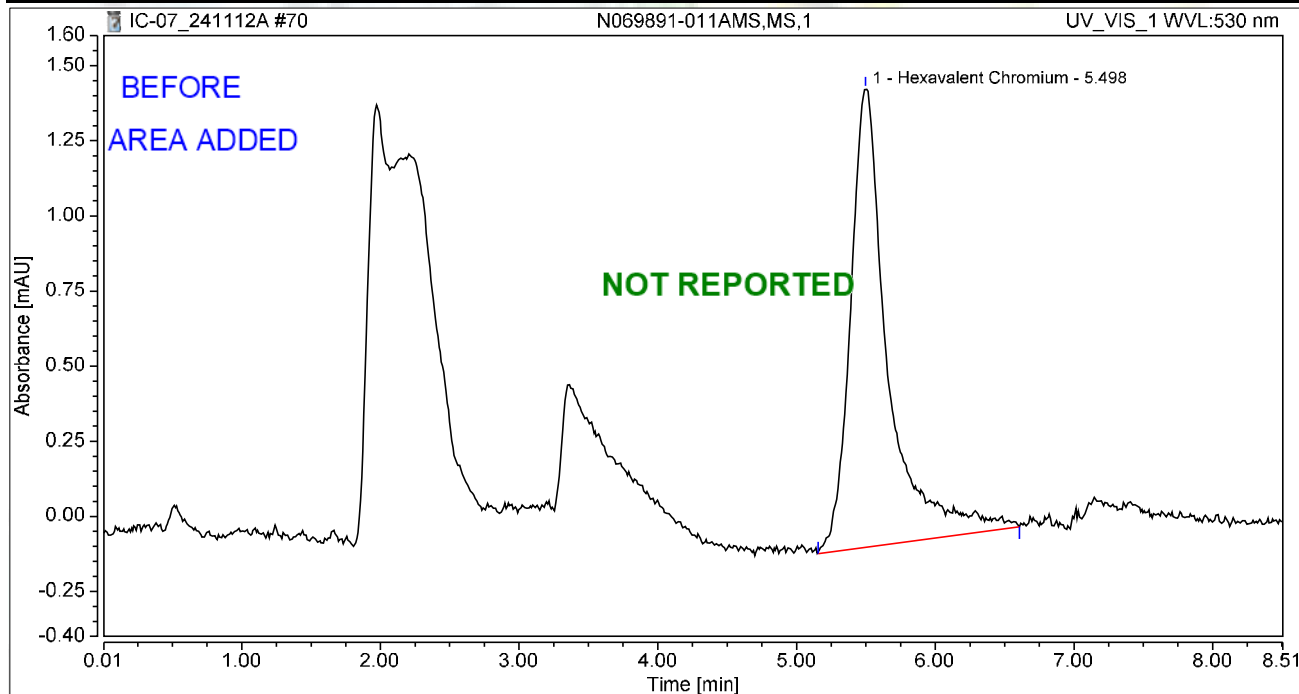
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.498	0.421	1.499	100.00	100.00	1.4844
Total:			0.421	1.499	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-011AMS,MS,1	Run Time (min):	8.50
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 20:34	Sample Weight:	1.0000

Chromatogram



Integration Results

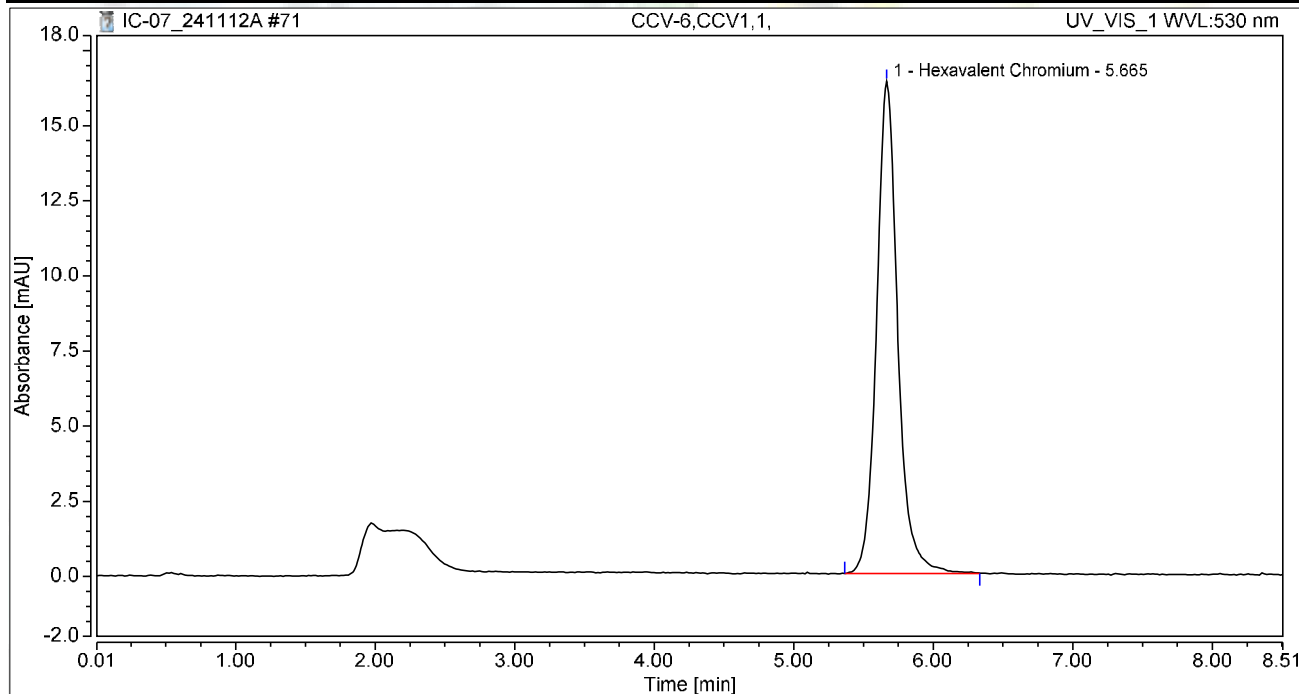
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.498	0.480	1.526	100.00	100.00	1.6931
Total:			0.480	1.526	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-6,CCV1,1,	Run Time (min):	8.50
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 20:43	Sample Weight:	1.0000

Chromatogram



Integration Results

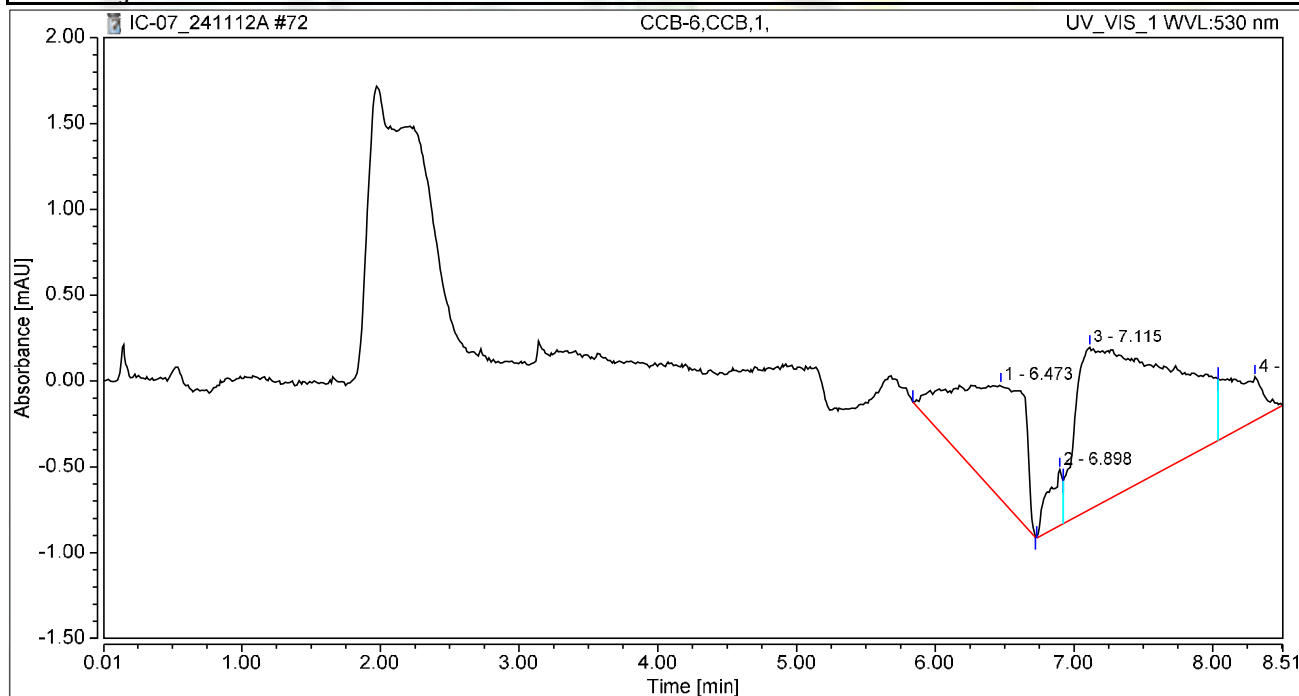
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	2.877	16.380	100.00	100.00	10.1405
Total:			2.877	16.380	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-6,CCB,1,	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 20:53	Sample Weight:	1.0000

Chromatogram



Integration Results

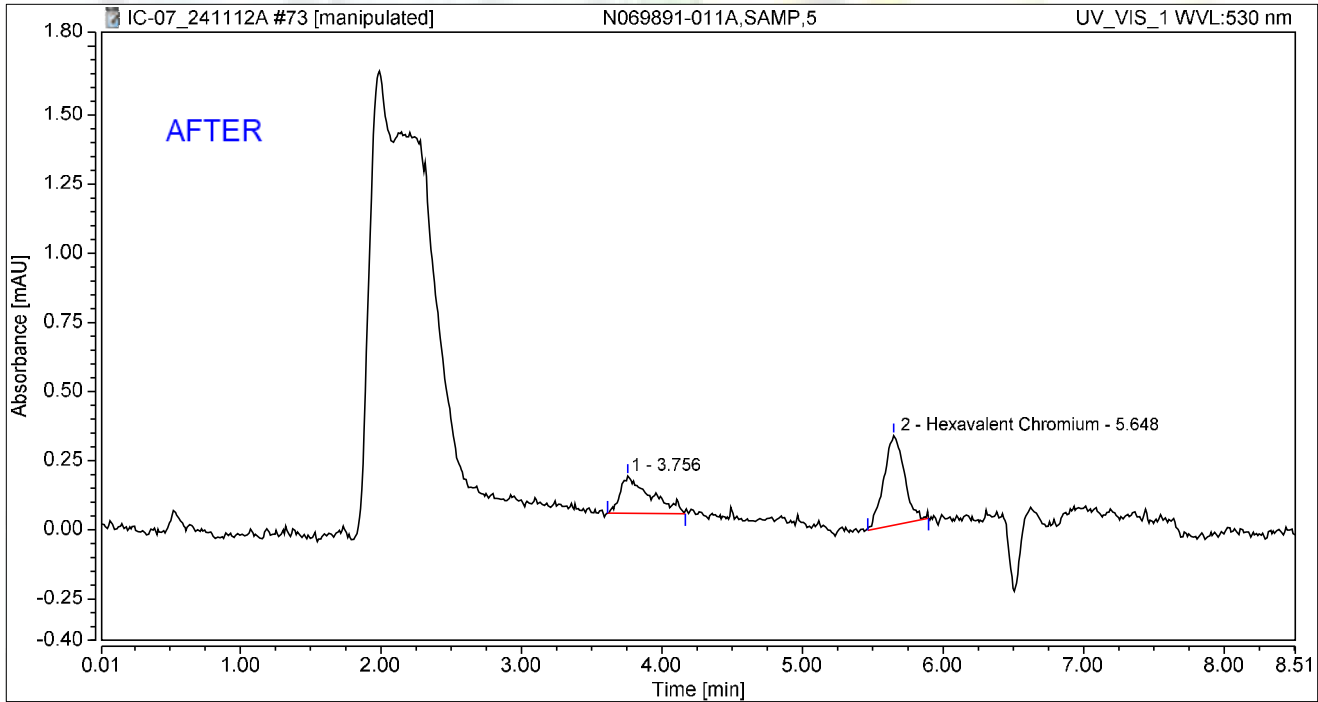
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		6.473	0.370	0.665	30.32	30.42	n.a.
2		6.898	0.040	0.325	3.28	14.87	n.a.
3		7.115	0.713	0.944	58.51	43.16	n.a.
4		8.306	0.096	0.253	7.89	11.55	n.a.
Total:			1.219	2.188	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-011A,SAMP,5	Run Time (min):	8.49
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 21:02	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.756	0.034	0.134	37.94	29.32	n.a.
2	Hexavalent Chromium	5.648	0.055	0.324	62.06	70.68	0.1932
Total:			0.088	0.459	100.00	100.00	

Reviewed by:

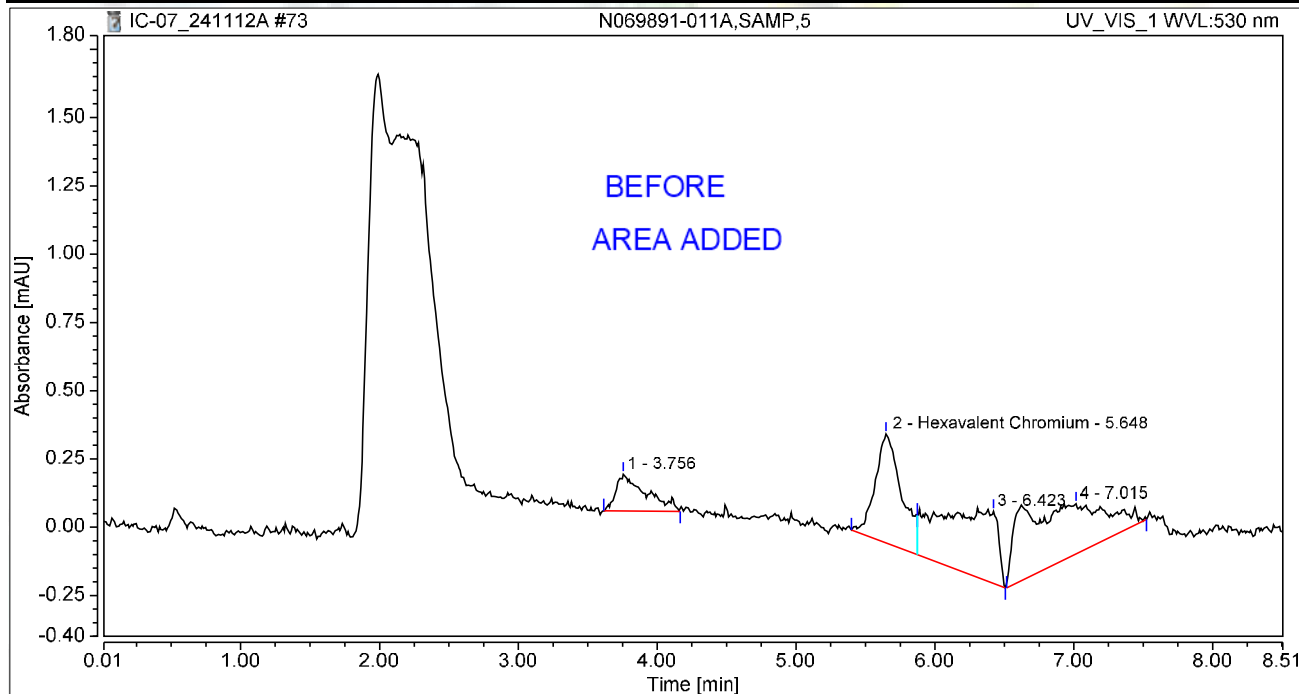
MRecha 11/24/2024

Chromatogram and Results

Injection Details

Injection Name:	N069891-011A,SAMP,5	Run Time (min):	8.49
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 21:02	Sample Weight:	1.0000

Chromatogram



Integration Results

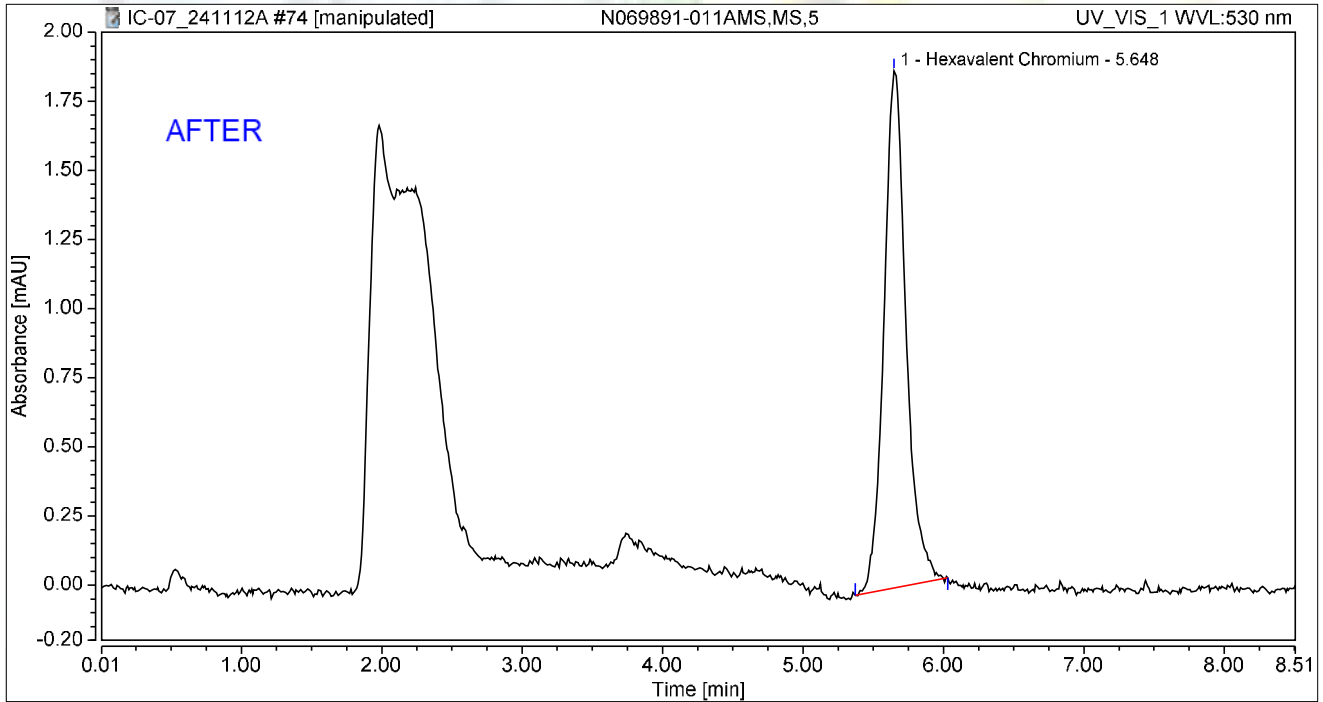
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.756	0.034	0.134	8.75	13.72	n.a.
2	Hexavalent Chromium	5.648	0.088	0.399	23.07	40.67	0.3114
3		6.423	0.120	0.264	31.35	26.93	n.a.
4		7.015	0.141	0.183	36.82	18.68	n.a.
Total:			0.383	0.980	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-011AMS,MS,5	Run Time (min):	8.50
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 21:12	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.648	0.341	1.870	100.00	100.00	1.2007
Total:			0.341	1.870	100.00	100.00	

Reviewed by:

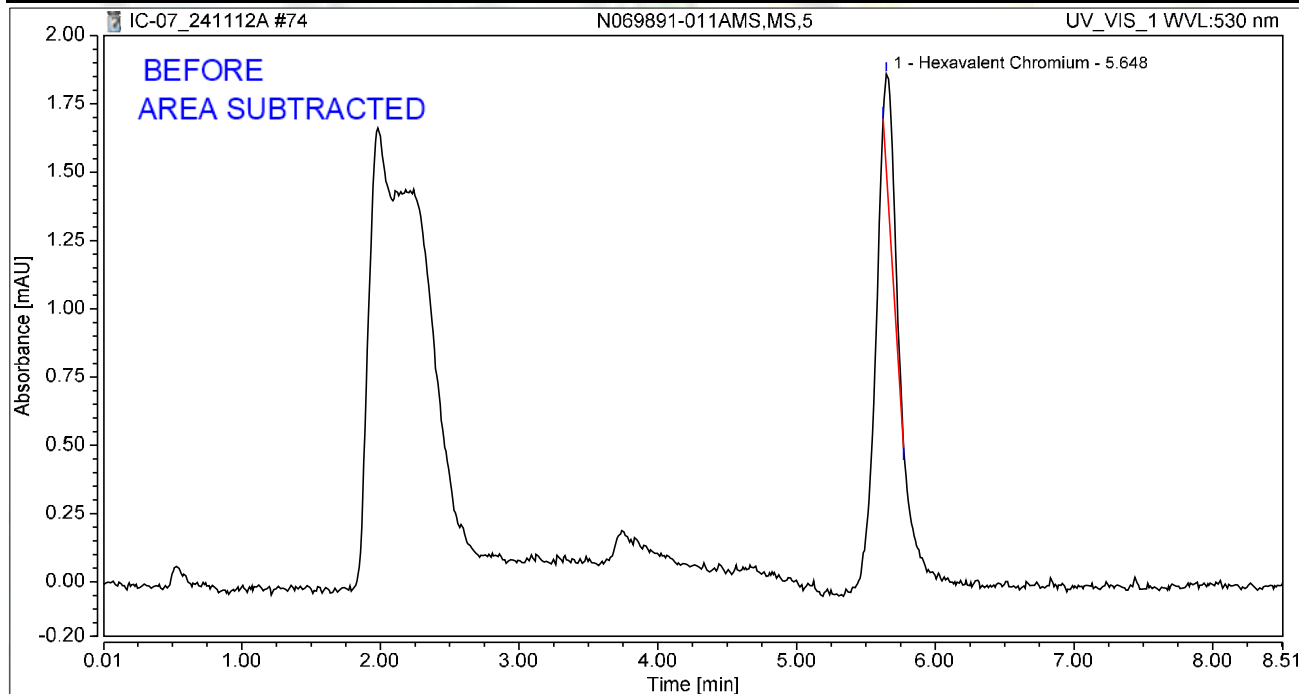
M/Rocha 11/24/2024

Chromatogram and Results

Injection Details

Injection Name:	N069891-011AMS,MS,5	Run Time (min):	8.50
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 21:12	Sample Weight:	1.0000

Chromatogram



Integration Results

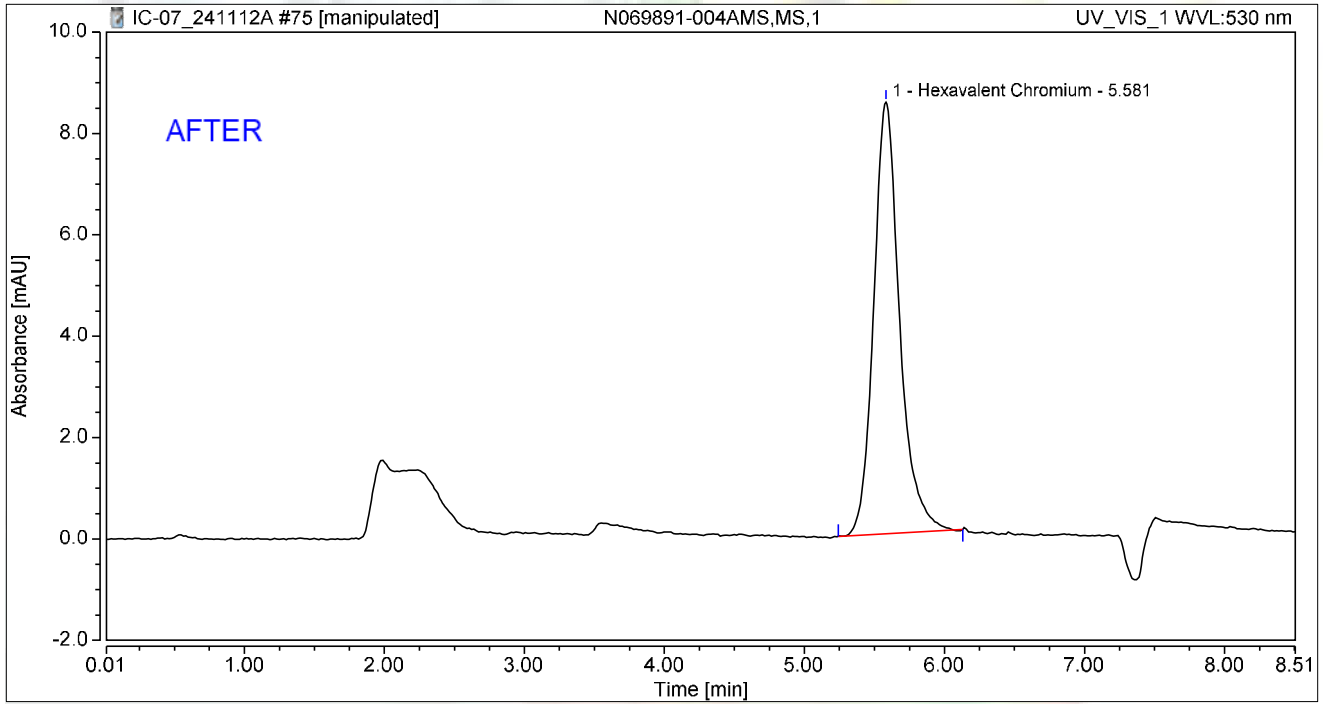
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.648	0.037	0.364	100.00	100.00	0.1317
Total:			0.037	0.364	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-004AMS,MS,1	Run Time (min):	8.49
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 21:21	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.581	1.825	8.519	100.00	100.00	6.4330
Total:			1.825	8.519	100.00	100.00	

Reviewed by:

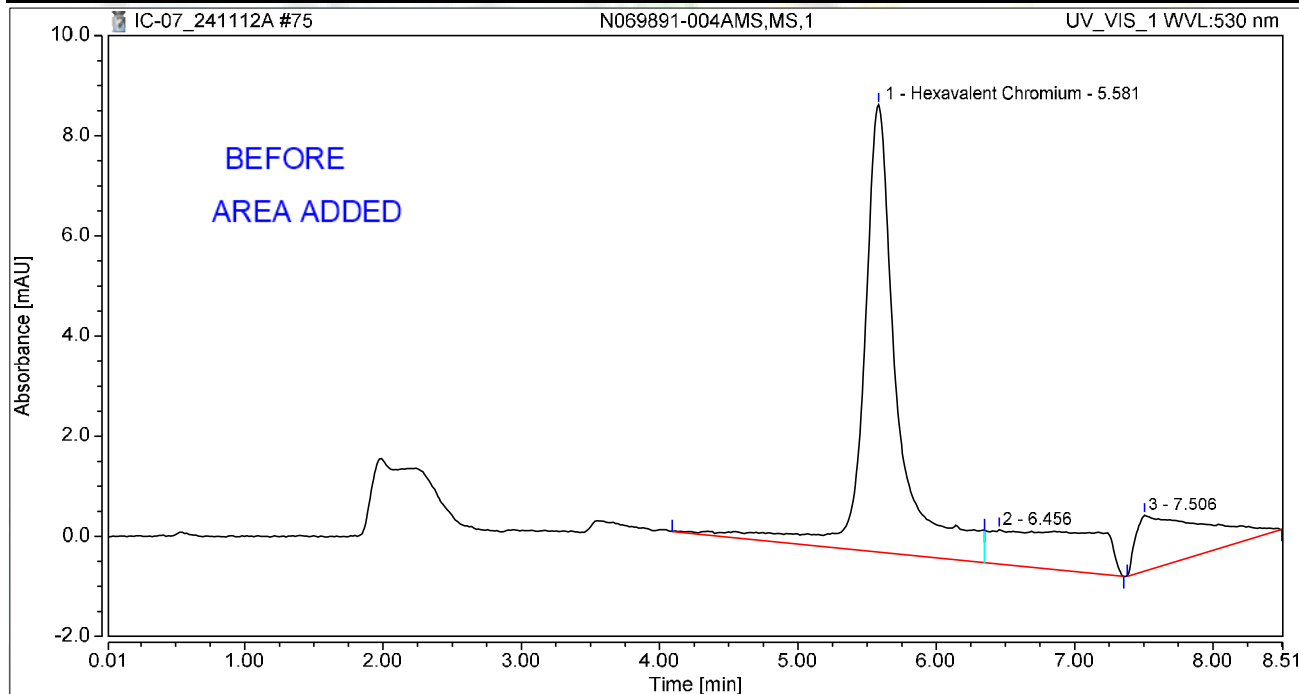
d/Rocha 11/24/2024

Chromatogram and Results

Injection Details

Injection Name:	N069891-004AMS,MS,1	Run Time (min):	8.49
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 21:21	Sample Weight:	1.0000

Chromatogram



Integration Results

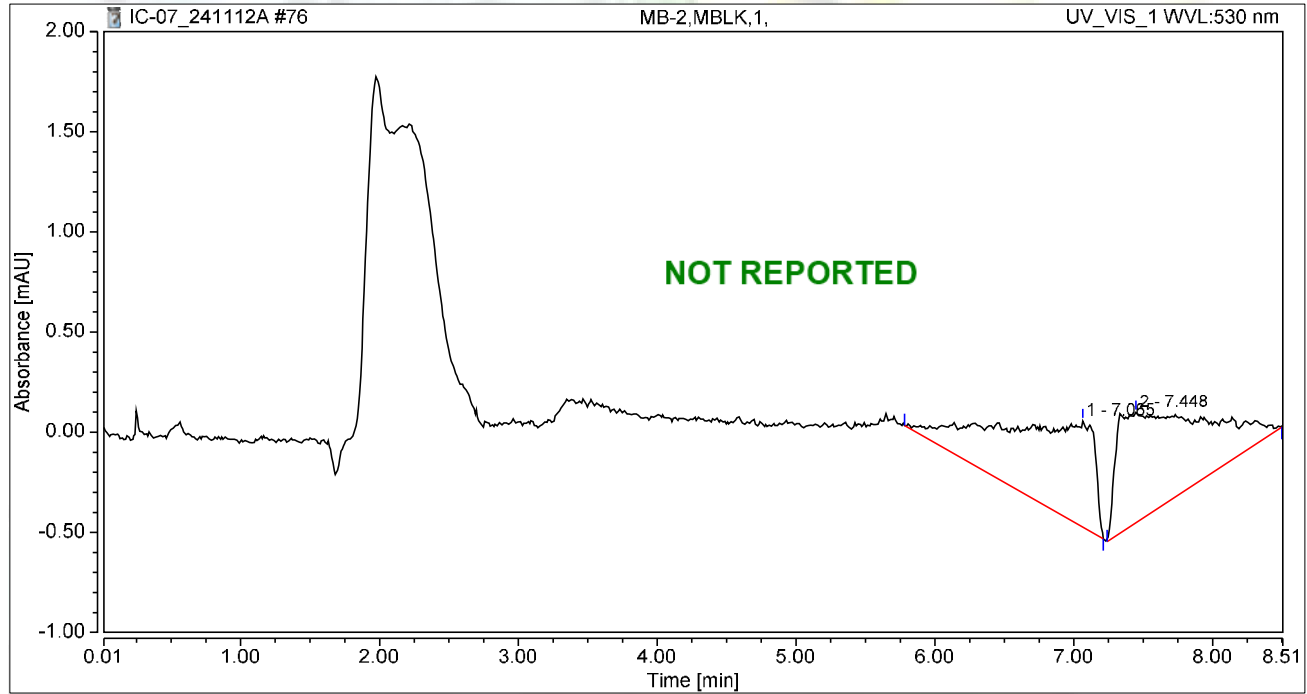
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.581	2.524	8.936	66.07	83.17	8.8944
2		6.456	0.696	0.689	18.22	6.41	n.a.
3		7.506	0.600	1.120	15.72	10.43	n.a.
Total:			3.820	10.745	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-2,MBLK,1,	Run Time (min):	8.49
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 21:31	Sample Weight:	1.0000

Chromatogram



Integration Results

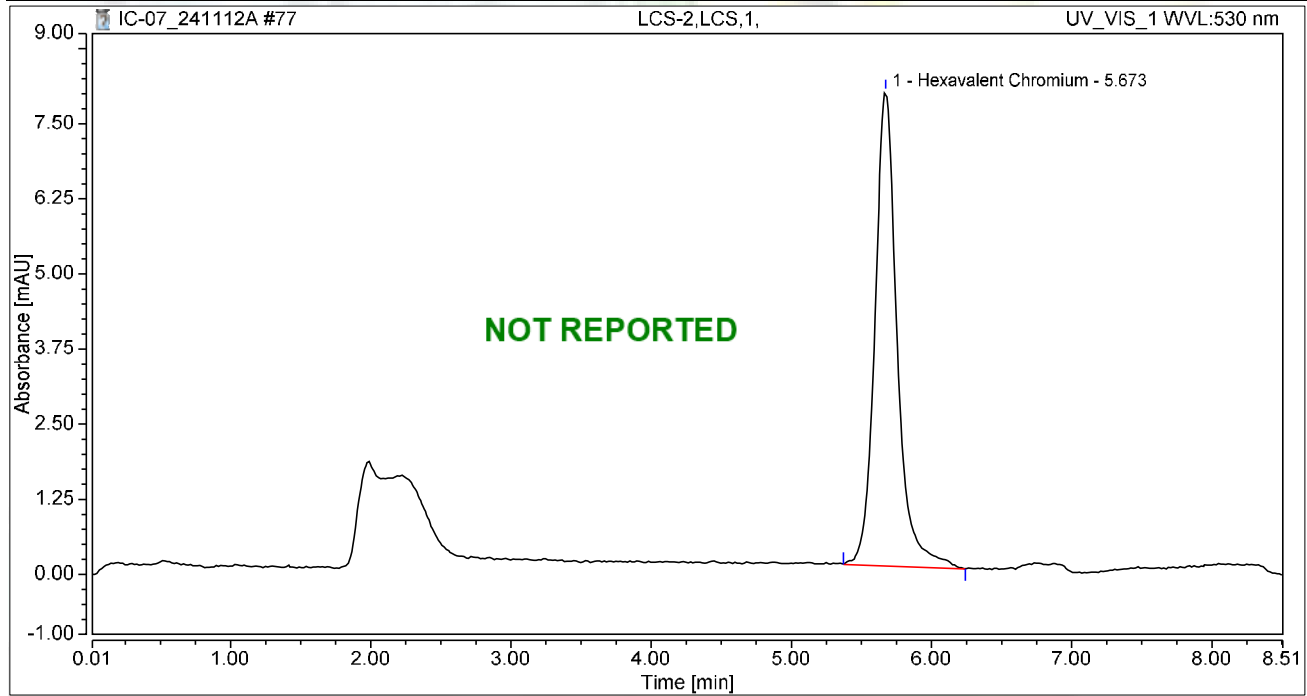
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1		7.065	0.368	0.530	49.60	49.06	n.a.
2		7.448	0.374	0.550	50.40	50.94	n.a.
Total:			0.742	1.080	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-2,LCS,1,	Run Time (min):	8.49
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 21:40	Sample Weight:	1.0000

Chromatogram



Integration Results

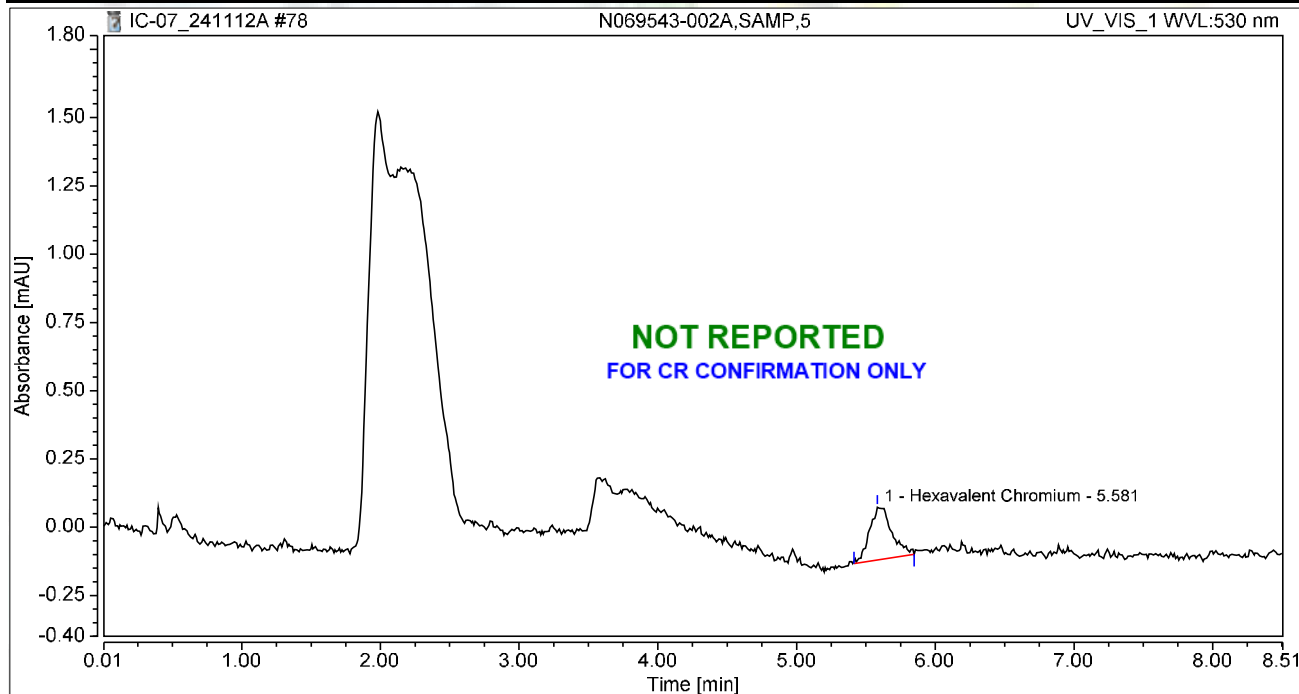
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	1.449	7.893	100.00	100.00	5.1066
Total:			1.449	7.893	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-002A,SAMP,5	Run Time (min):	8.50
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 21:49	Sample Weight:	1.0000

Chromatogram



Integration Results

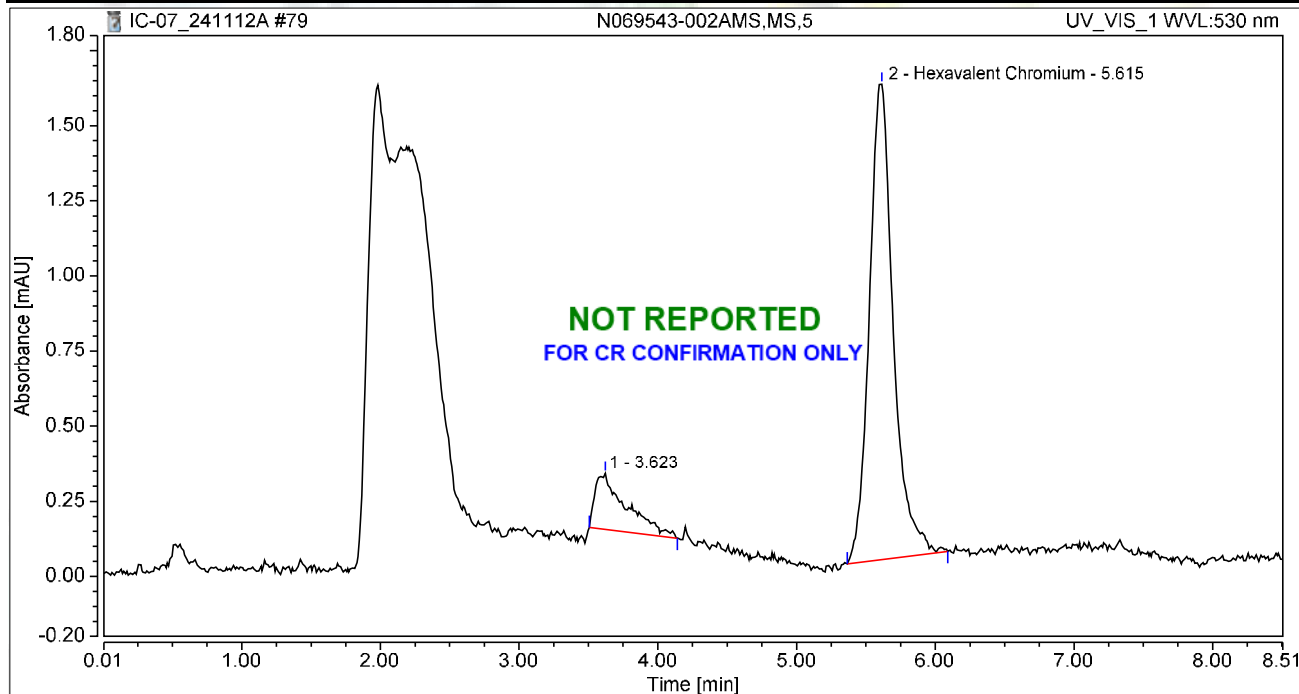
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.581	0.036	0.194	100.00	100.00	0.1272
Total:			0.036	0.194	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 21:59	Sample Weight:	1.0000

Chromatogram



Integration Results

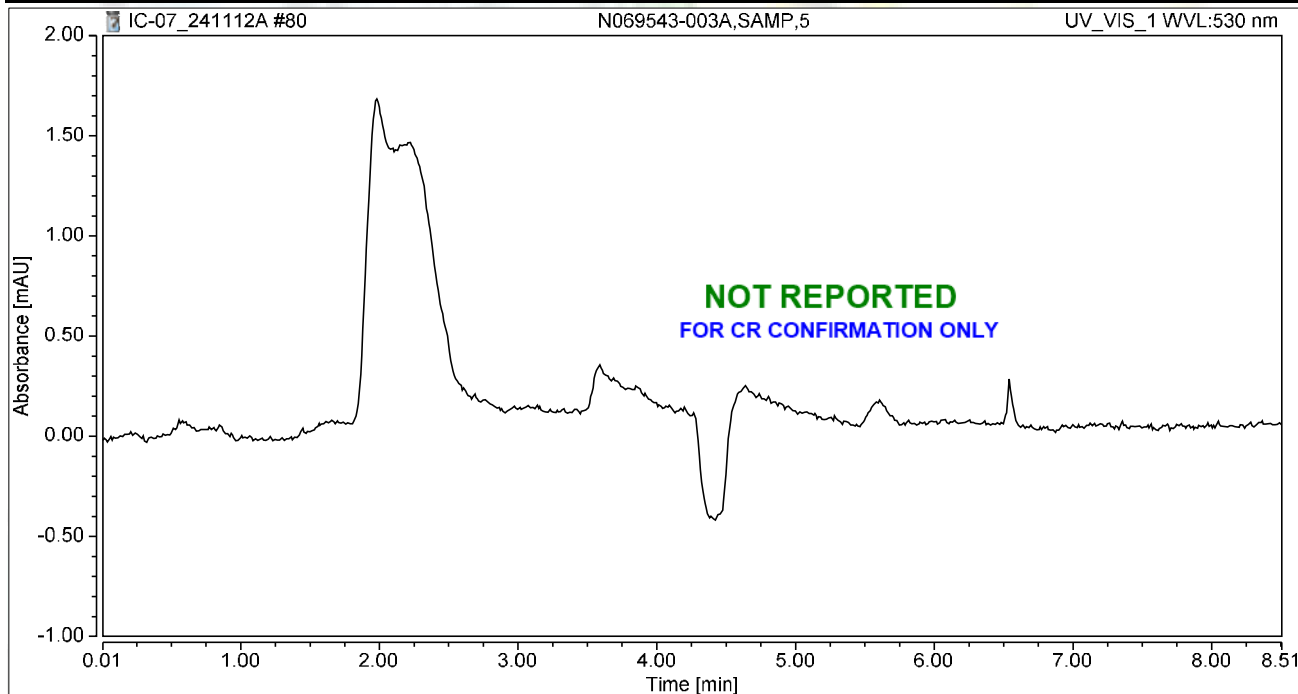
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.623	0.049	0.186	13.32	10.52	n.a.
2	Hexavalent Chromium	5.615	0.317	1.582	86.68	89.48	1.1170
Total:			0.366	1.768	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-003A,SAMP,5	Run Time (min):	8.50
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 22:08	Sample Weight:	1.0000

Chromatogram



Integration Results

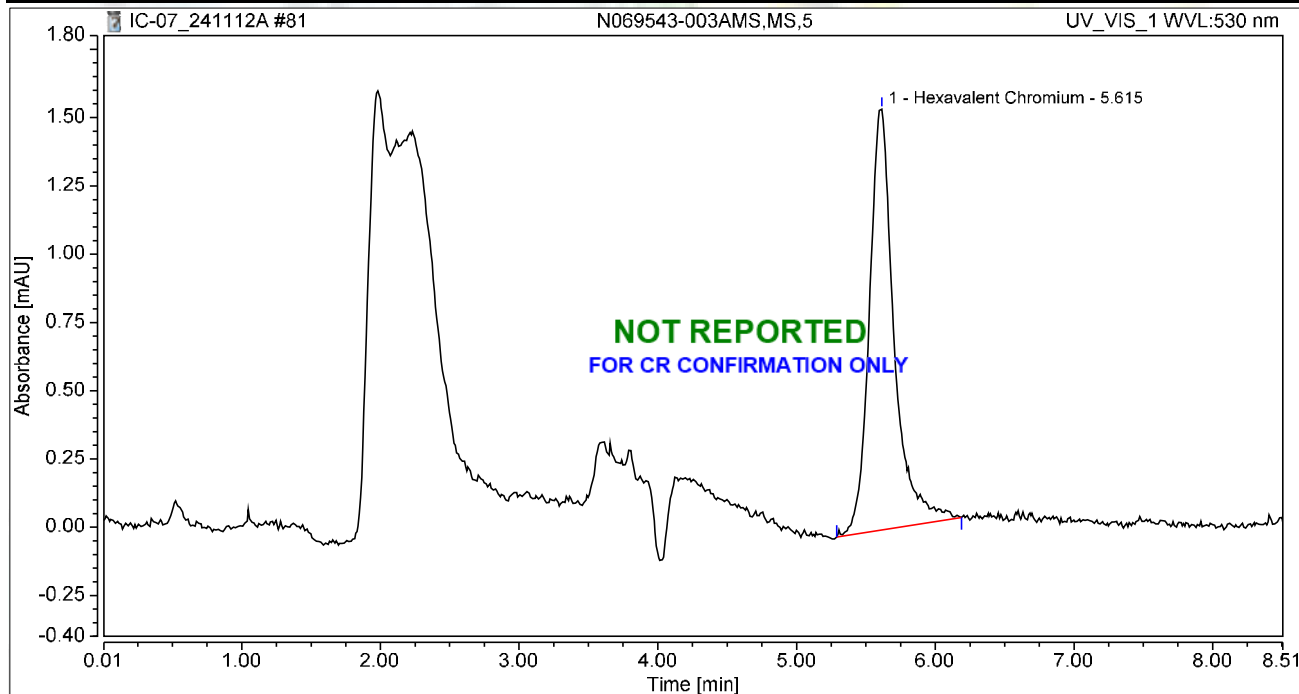
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-003AMS,MS,5	Run Time (min):	8.50
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 22:18	Sample Weight:	1.0000

Chromatogram



Integration Results

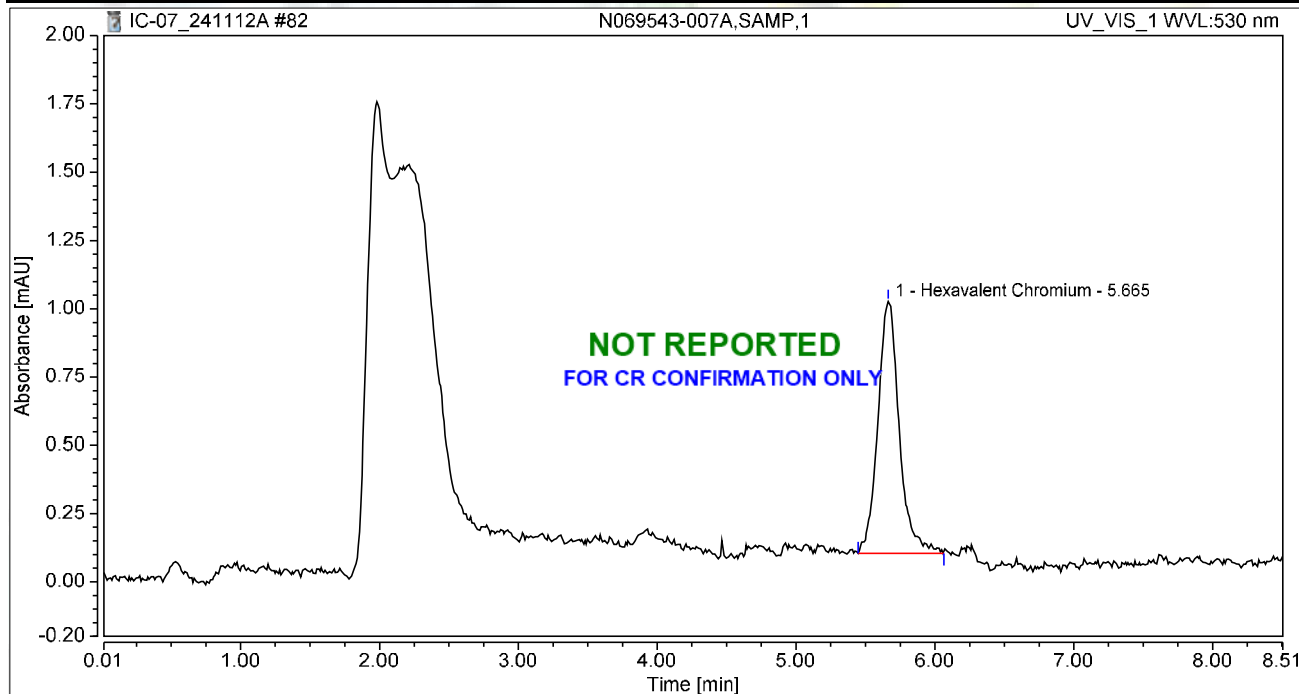
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.615	0.319	1.541	100.00	100.00	1.1249
Total:			0.319	1.541	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-007A,SAMP,1	Run Time (min):	8.49
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 22:27	Sample Weight:	1.0000

Chromatogram



Integration Results

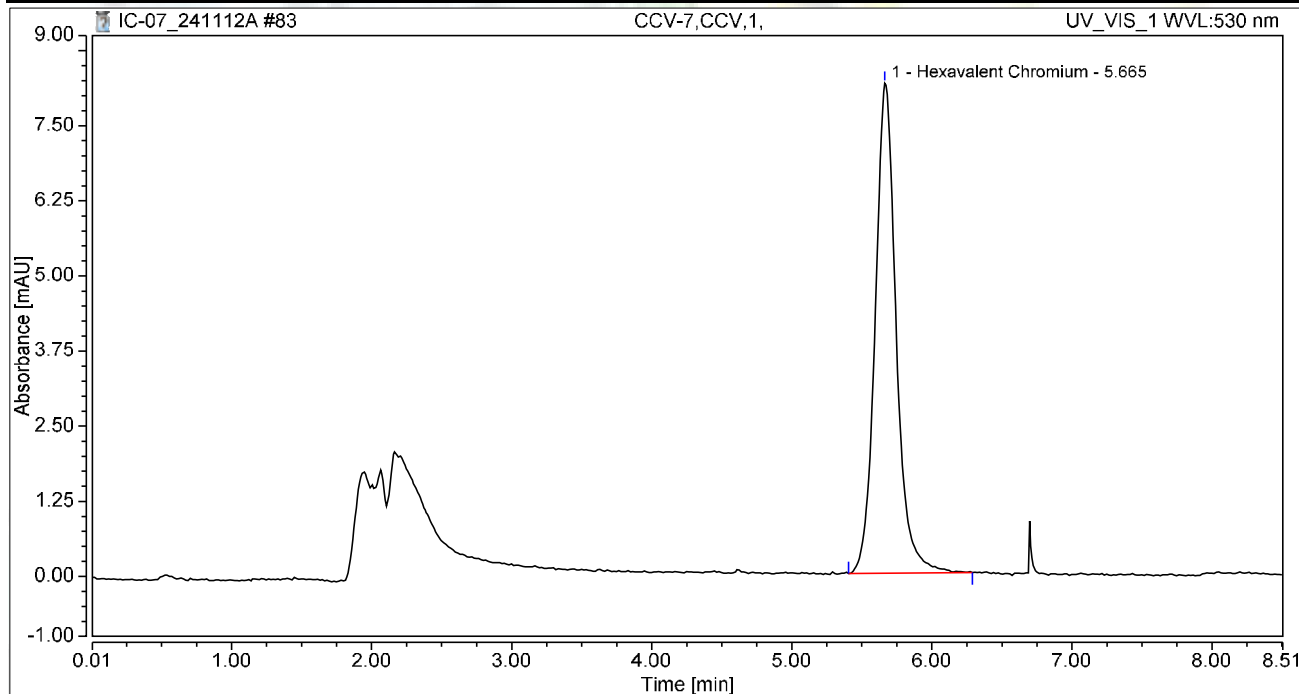
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	0.166	0.922	100.00	100.00	0.5837
Total:			0.166	0.922	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-7,CCV,1,	Run Time (min):	8.50
Vial Number:	30	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 22:37	Sample Weight:	1.0000

Chromatogram



Integration Results

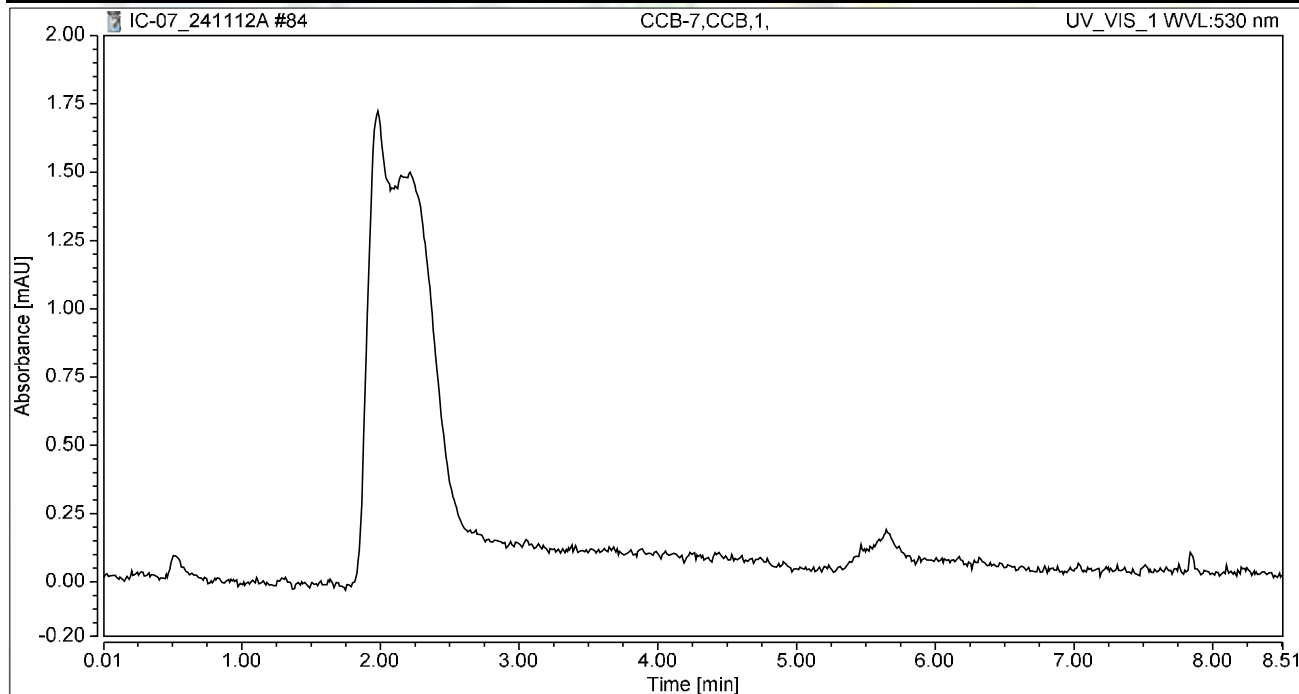
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	1.420	8.156	100.00	100.00	5.0029
Total:			1.420	8.156	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-7,CCB,1,	Run Time (min):	8.50
Vial Number:	31	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 22:46	Sample Weight:	1.0000

Chromatogram



Integration Results

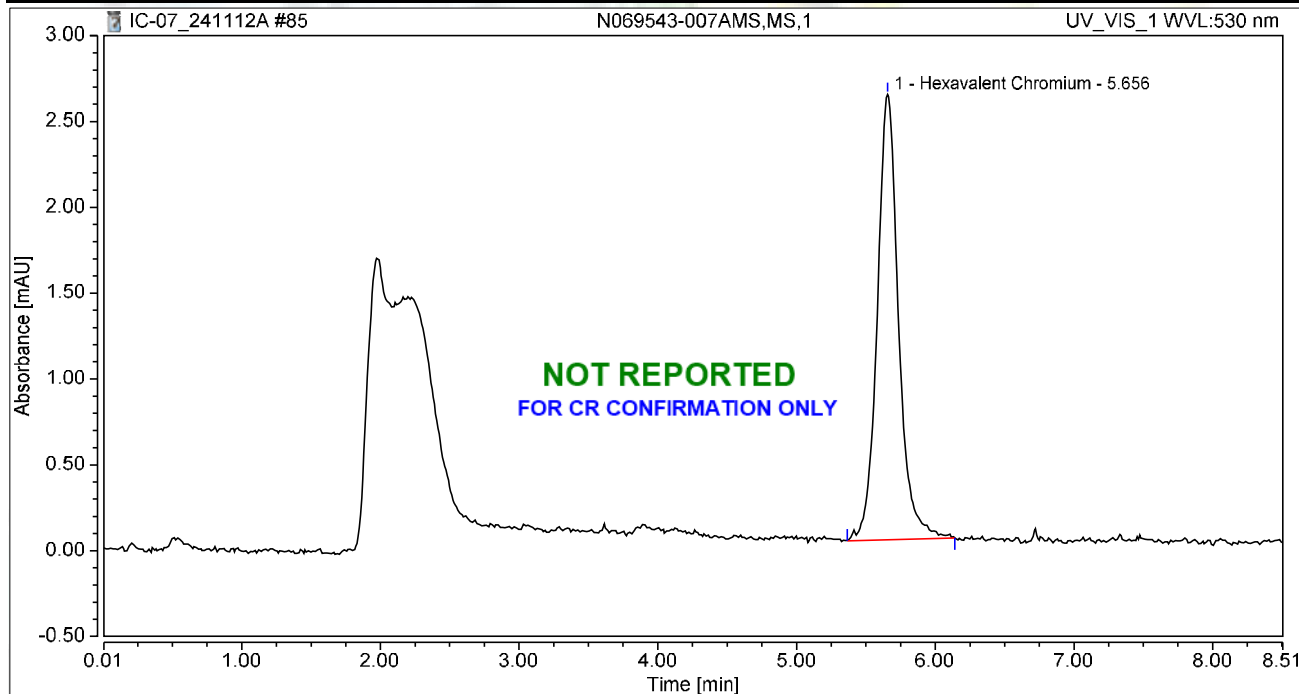
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-007AMS,MS,1	Run Time (min):	8.50
Vial Number:	32	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 22:56	Sample Weight:	1.0000

Chromatogram



Integration Results

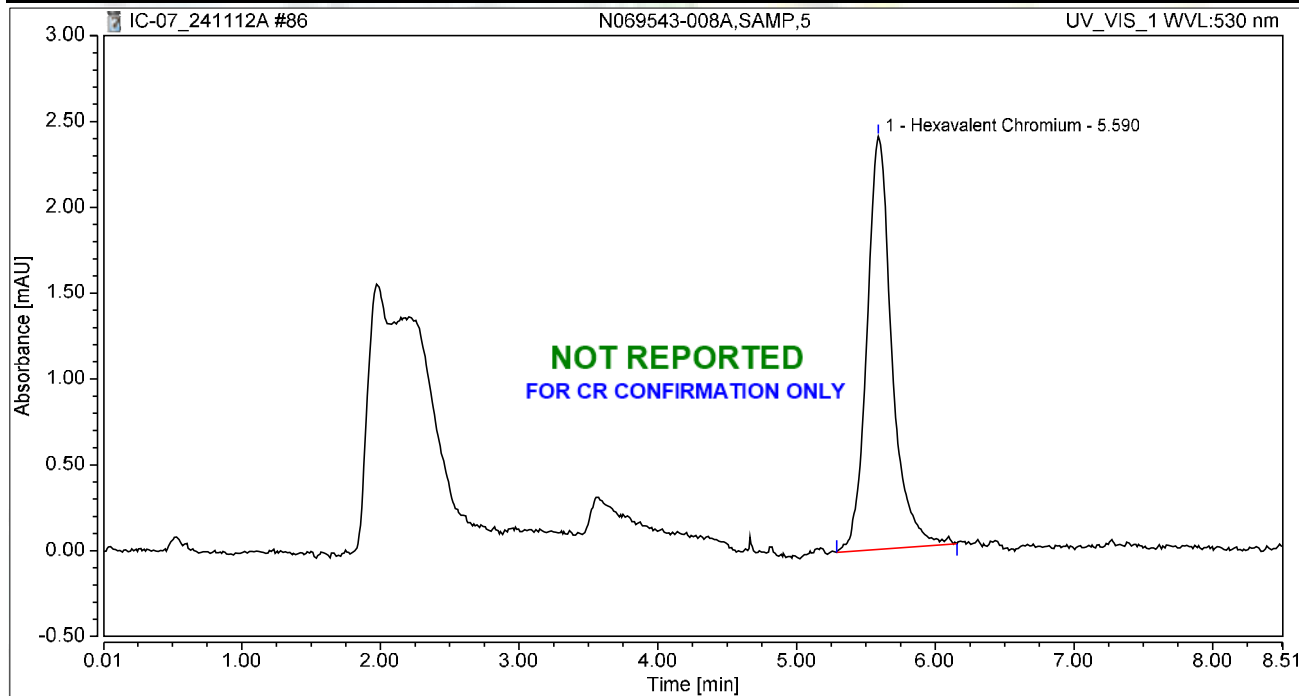
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.656	0.461	2.593	100.00	100.00	1.6237
Total:			0.461	2.593	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-008A,SAMP,5	Run Time (min):	8.50
Vial Number:	33	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 23:05	Sample Weight:	1.0000

Chromatogram



Integration Results

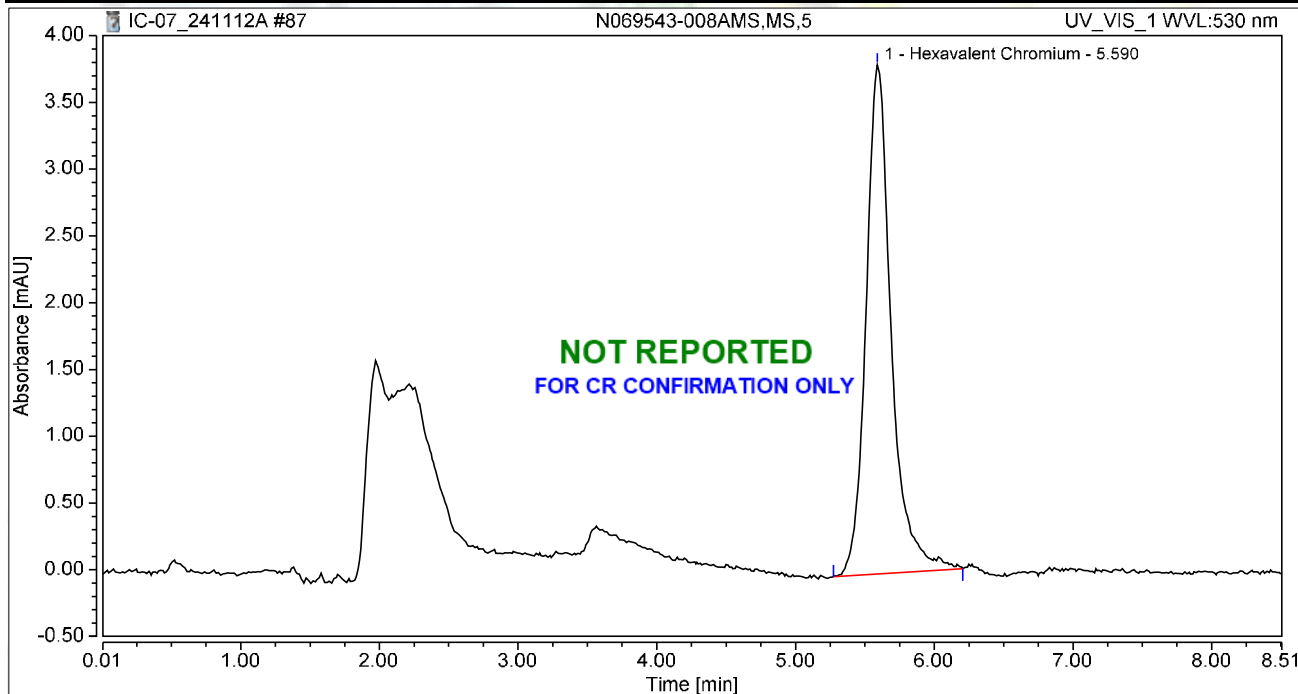
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.590	0.501	2.404	100.00	100.00	1.7668
Total:			0.501	2.404	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-008AMS,MS,5	Run Time (min):	8.50
Vial Number:	34	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 23:15	Sample Weight:	1.0000

Chromatogram



Integration Results

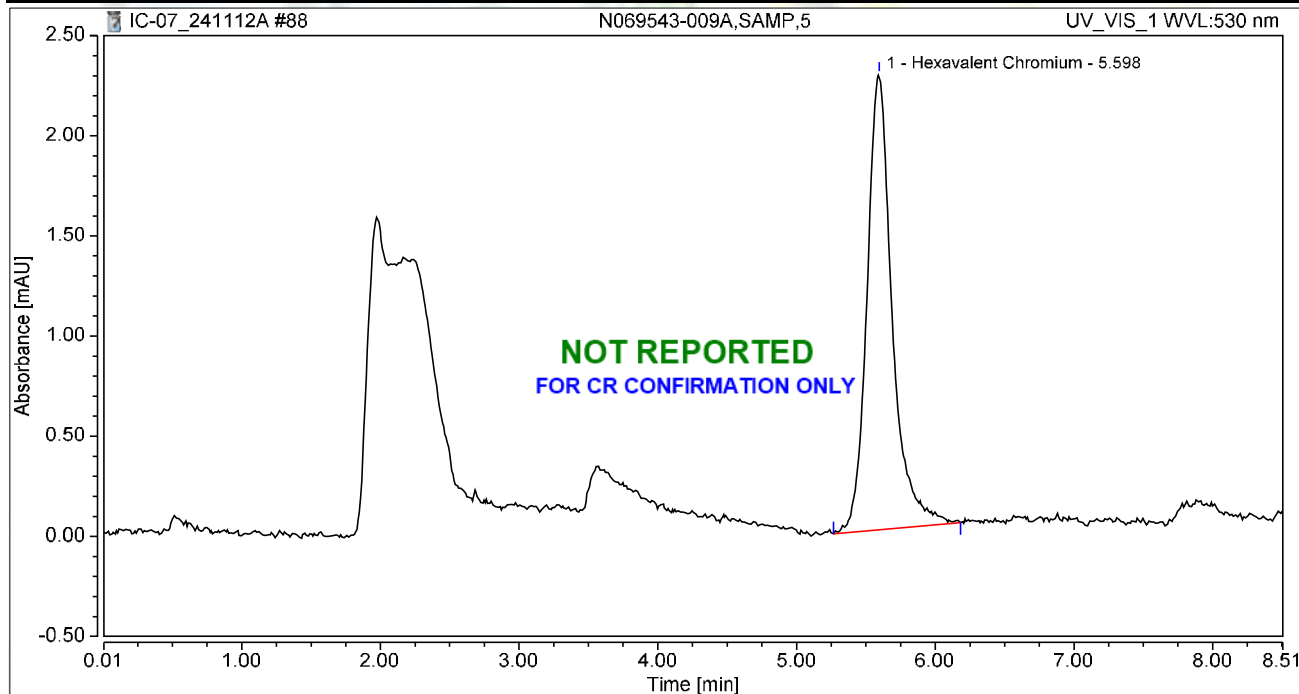
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.590	0.802	3.814	100.00	100.00	2.8274
Total:			0.802	3.814	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-009A,SAMP,5	Run Time (min):	8.50
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 23:24	Sample Weight:	1.0000

Chromatogram



Integration Results

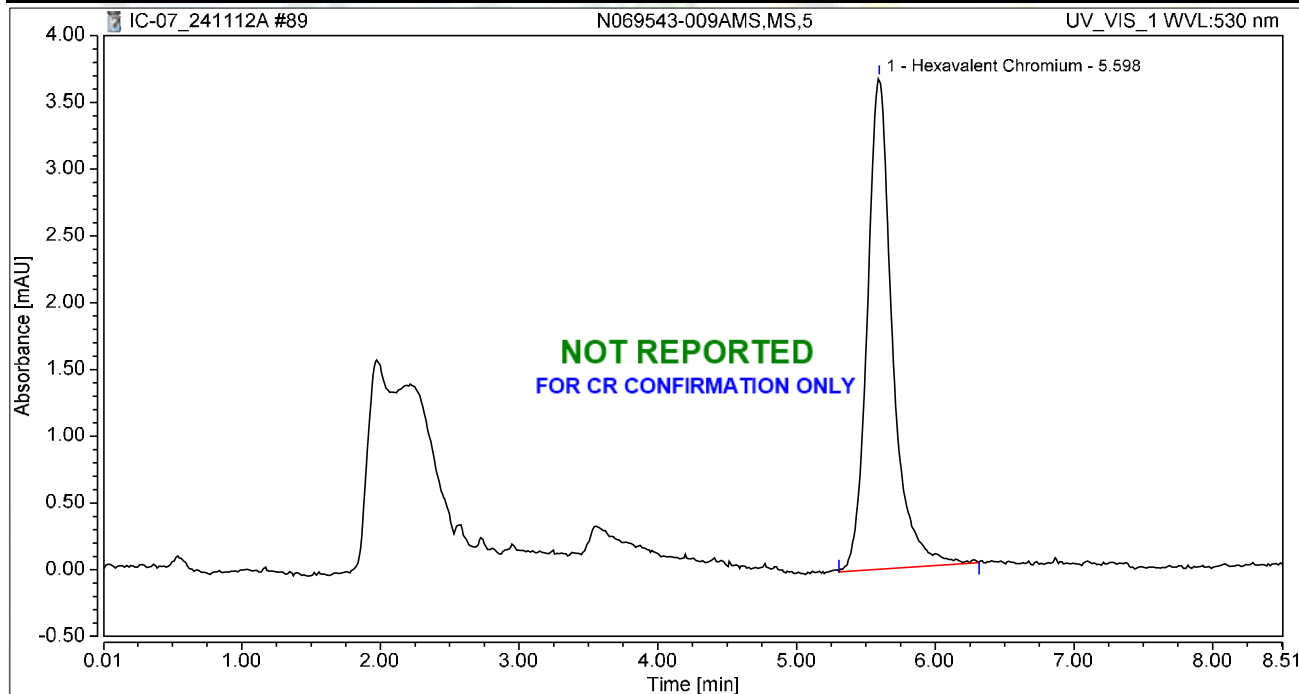
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.598	0.478	2.276	100.00	100.00	1.6859
Total:			0.478	2.276	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-009AMS,MS,5	Run Time (min):	8.50
Vial Number:	36	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 23:34	Sample Weight:	1.0000

Chromatogram



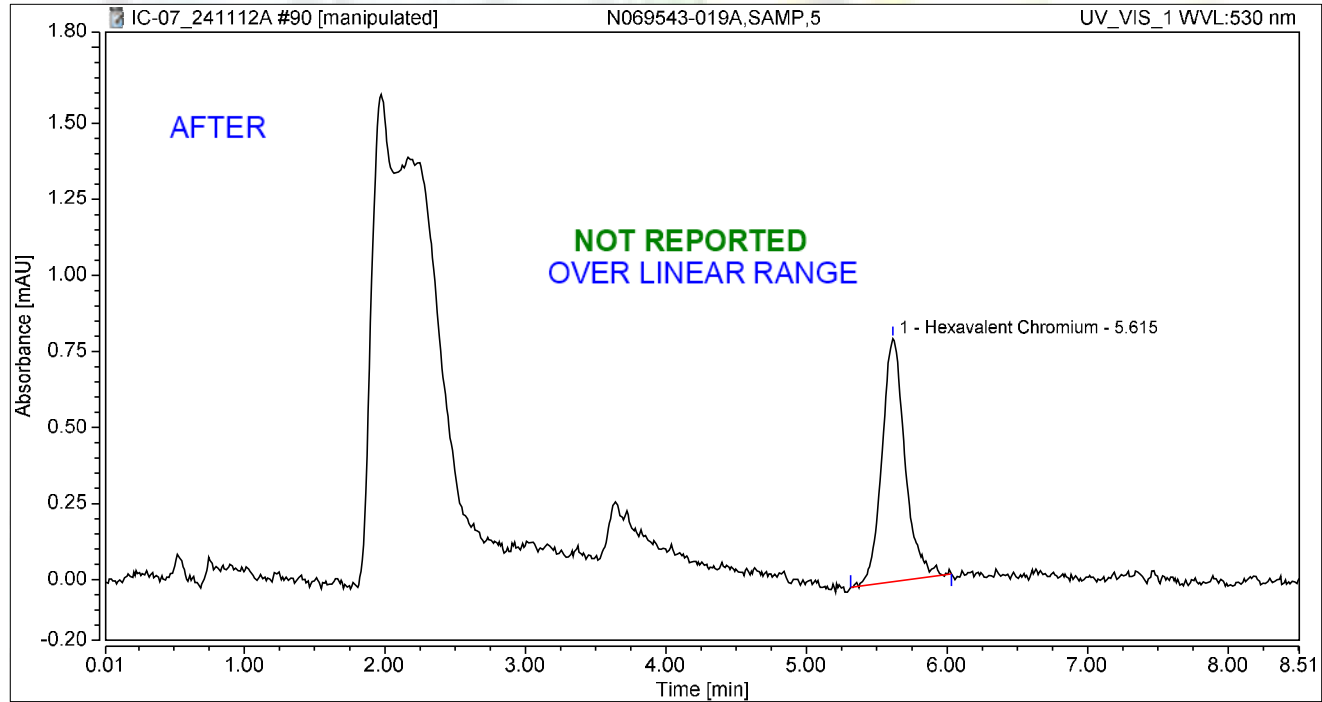
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.598	0.773	3.684	100.00	100.00	2.7228
Total:			0.773	3.684	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069543-019A,SAMP,5	Run Time (min): 8.49
Vial Number:	37	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	12/Nov/24 23:43	Sample Weight: 1.0000

Chromatogram



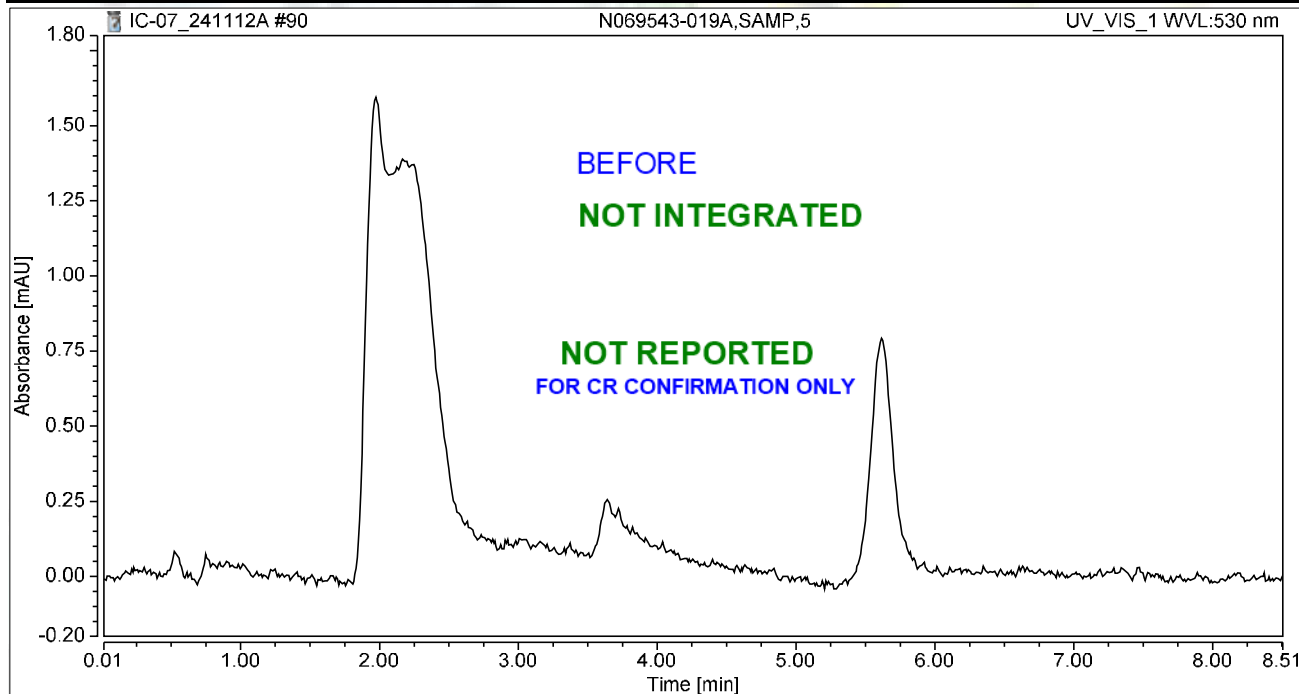
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.615	0.152	0.799	100.00	100.00	0.5357
Total:			0.152	0.799	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-019A,SAMP,5	Run Time (min):	8.49
Vial Number:	37	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 23:43	Sample Weight:	1.0000

Chromatogram



Integration Results

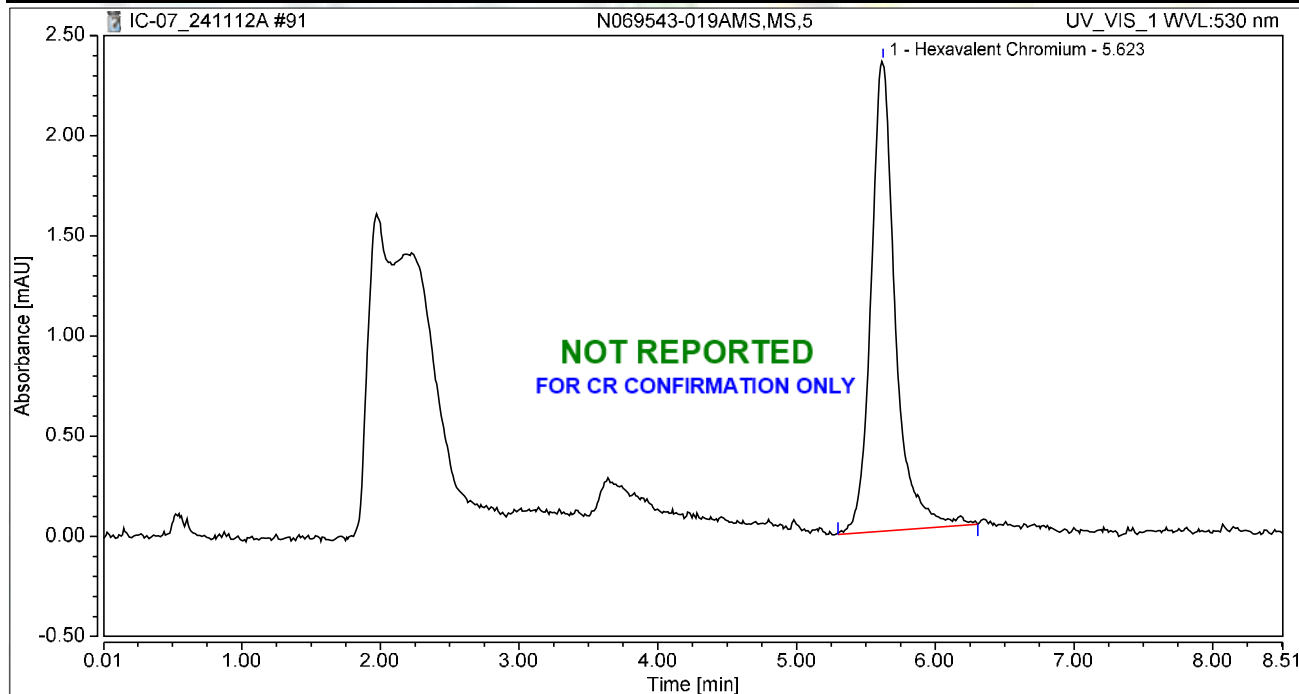
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-019AMS,MS,5	Run Time (min):	8.50
Vial Number:	38	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	12/Nov/24 23:52	Sample Weight:	1.0000

Chromatogram



Integration Results

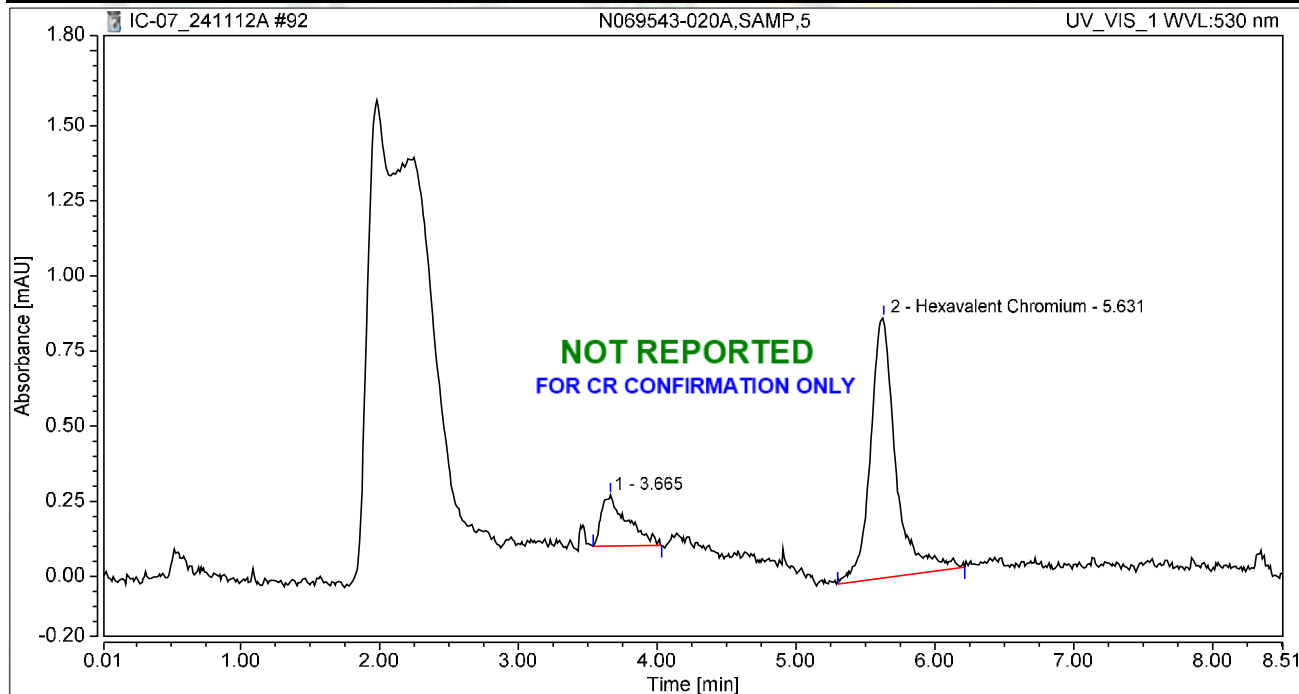
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.623	0.476	2.348	100.00	100.00	1.6770
Total:			0.476	2.348	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-020A,SAMP,5	Run Time (min):	8.49
Vial Number:	39	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 00:02	Sample Weight:	1.0000

Chromatogram



Integration Results

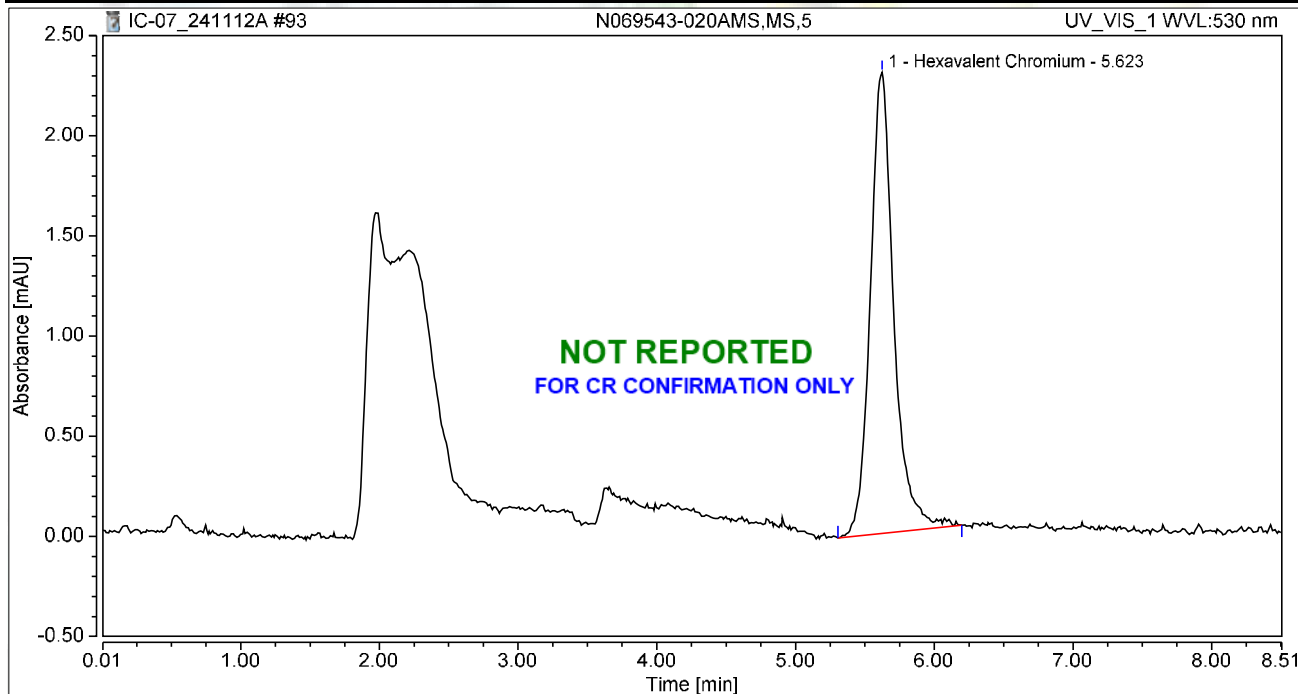
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.665	0.037	0.171	16.65	16.45	n.a.
2	Hexavalent Chromium	5.631	0.183	0.866	83.35	83.55	0.6455
Total:			0.220	1.037	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-020AMS,MS,5	Run Time (min):	8.50
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 00:11	Sample Weight:	1.0000

Chromatogram



Integration Results

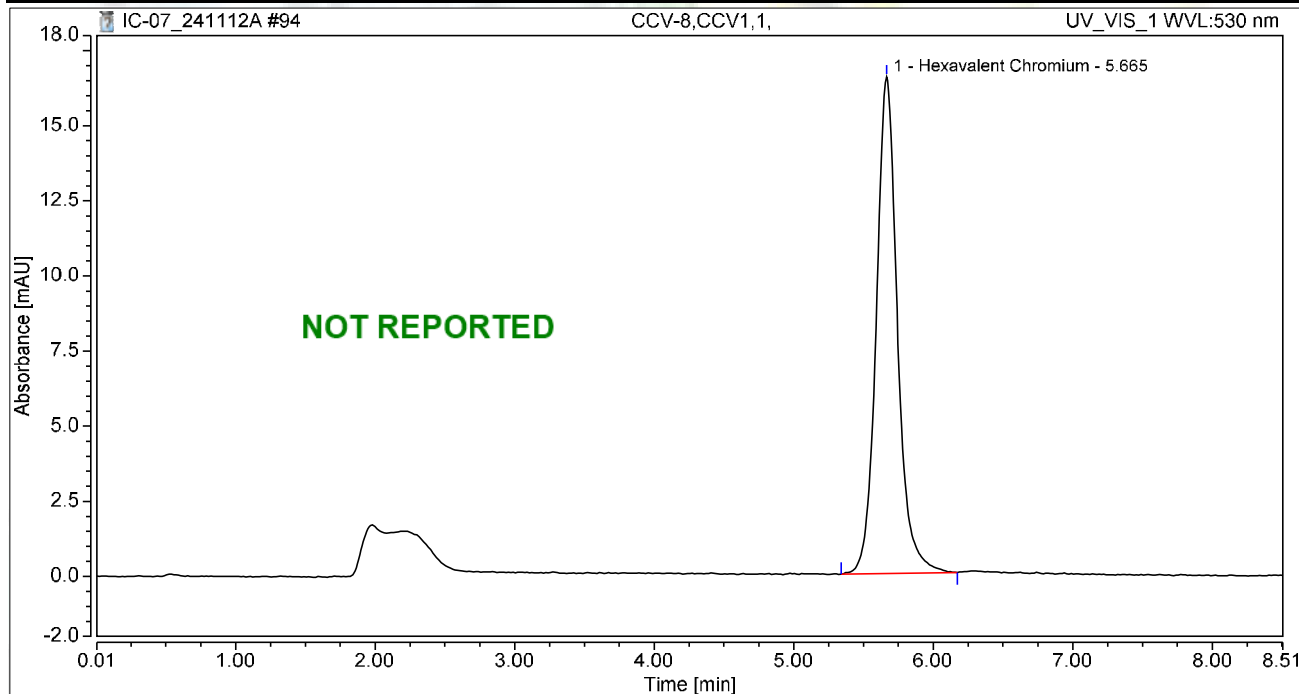
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.623	0.452	2.301	100.00	100.00	1.5919
Total:			0.452	2.301	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-8,CCV1,1,	Run Time (min):	8.50
Vial Number:	41	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 00:21	Sample Weight:	1.0000

Chromatogram



Integration Results

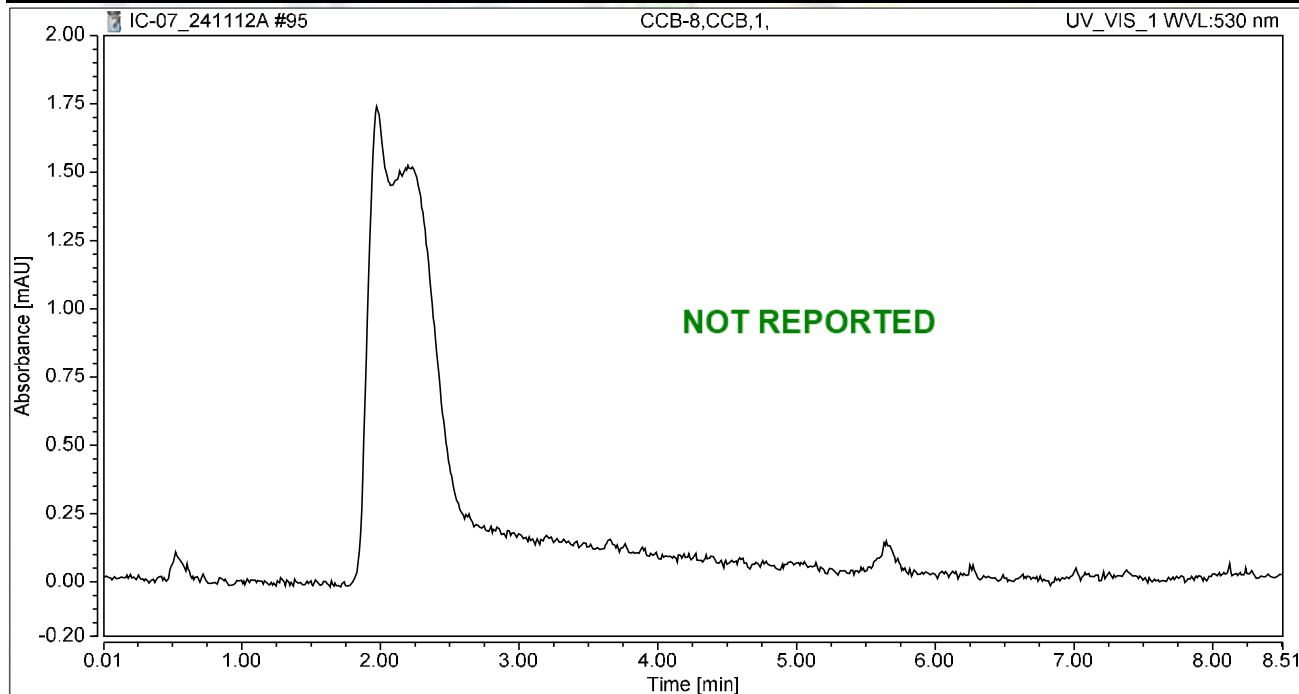
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.665	2.896	16.528	100.00	100.00	10.2070
Total:			2.896	16.528	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-8,CCB,1,	Run Time (min):	8.50
Vial Number:	42	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 00:30	Sample Weight:	1.0000

Chromatogram



Integration Results

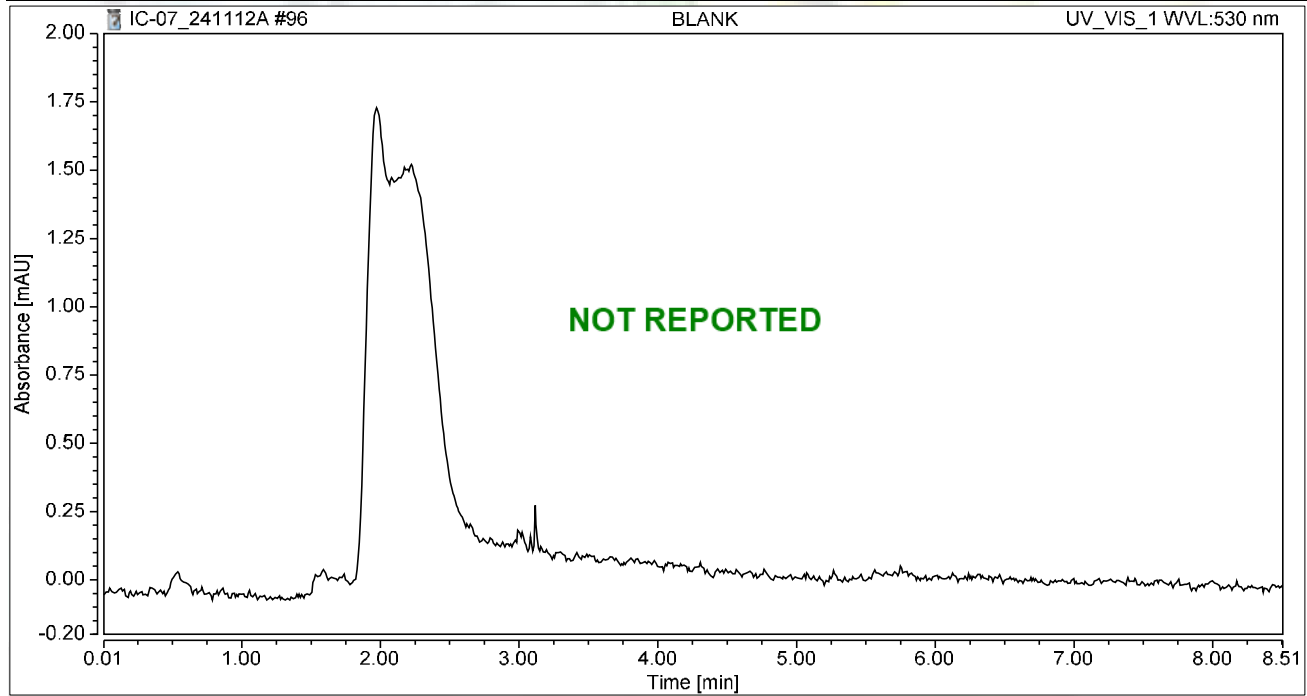
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	43	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 00:40	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

RAW DATA



ASSET LABORATORIES
INTEGRATION • ANALYSIS • REPORTING • SUPPORT

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"Serving Clients with Passion and Professionalism"

INJECTION LOG: 241113A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
1	BLANK	BLANK	1	Hexavalent Chromium	10/28/24 9:30 AM	Not Reported
2	iBLANK	iBLANK	1	Hexavalent Chromium	10/28/24 9:43 AM	Reported
3	STD-0.2 ppb	ICAL	1	Hexavalent Chromium	10/28/24 9:52 AM	Reported
4	STD-1.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:02 AM	Reported
5	STD-5.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:11 AM	Reported
6	STD-10.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:21 AM	Reported
7	STD-15.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:30 AM	Reported
8	STD-20.0 ppb	ICAL	1	Hexavalent Chromium	10/28/24 10:40 AM	Reported
9	BLANK	BLANK	1	Hexavalent Chromium	11/13/24 8:49 AM	Not Reported
10	CCV-1	CCV	1	Hexavalent Chromium	11/13/24 9:02 AM	Reported
11	PQL@0.2ppb	CCV2	1	Hexavalent Chromium	11/13/24 9:11 AM	Reported
12	CCB-1	CCB	1	Hexavalent Chromium	11/13/24 9:21 AM	Reported
13	MB-R195632	MBLK	1	Hexavalent Chromium	11/13/24 9:30 AM	Reported
14	LCS-R195632	LCS	1	Hexavalent Chromium	11/13/24 9:40 AM	Reported
15	N069927-001B	SAMP	5	Hexavalent Chromium	11/13/24 9:49 AM	Reported
16	N069927-002B	SAMP	10	Hexavalent Chromium	11/13/24 9:59 AM	Reported
17	N069927-004B	SAMP	5	Hexavalent Chromium	11/13/24 10:08 AM	Reported
18	N069927-005B	SAMP	5	Hexavalent Chromium	11/13/24 10:17 AM	Reported
19	N069927-006B	SAMP	2	Hexavalent Chromium	11/13/24 10:27 AM	Reported
20	N069927-003A	SAMP	1	Hexavalent Chromium	11/13/24 10:36 AM	Reported
21	N069927-001BREP	DUP	5	Hexavalent Chromium	11/13/24 10:46 AM	Reported
22	N069927-002BREP	DUP	10	Hexavalent Chromium	11/13/24 10:55 AM	Reported
23	CCV-2	CCV1	1	Hexavalent Chromium	11/13/24 11:05 AM	Reported
24	CCB-2	CCB	1	Hexavalent Chromium	11/13/24 11:14 AM	Reported
25	N069927-004BREP	DUP	5	Hexavalent Chromium	11/13/24 11:24 AM	Reported
26	N069927-005BREP	DUP	5	Hexavalent Chromium	11/13/24 11:33 AM	Reported
27	N069927-006BREP	DUP	2	Hexavalent Chromium	11/13/24 11:43 AM	Reported
28	N069927-003AREP	DUP	1	Hexavalent Chromium	11/13/24 11:52 AM	Reported
29	N069927-001BMS	MS	5	Hexavalent Chromium	11/13/24 12:02 PM	Reported
30	N069927-002BMS	MS	10	Hexavalent Chromium	11/13/24 12:11 PM	Reported
31	N069927-002BMSD	MSD	10	Hexavalent Chromium	11/13/24 12:20 PM	Reported
32	N069927-004BMS	MS	5	Hexavalent Chromium	11/13/24 12:30 PM	Reported
33	N069927-005BMS	MS	5	Hexavalent Chromium	11/13/24 12:39 PM	Reported
34	N069927-006BMS	MS	2	Hexavalent Chromium	11/13/24 12:49 PM	Reported
35	CCV-3	CCV	1	Hexavalent Chromium	11/13/24 12:58 PM	Reported
36	CCB-3	CCB	1	Hexavalent Chromium	11/13/24 1:08 PM	Reported
37	N069927-003AMS	MS	1	Hexavalent Chromium	11/13/24 1:17 PM	Reported
38	N069891-006A	SAMP	1	Hexavalent Chromium	11/13/24 1:27 PM	Reported
39	N069891-006AMS	MS	1	Hexavalent Chromium	11/13/24 1:36 PM	Reported
40	N069891-009A	SAMP	1	Hexavalent Chromium	11/13/24 1:46 PM	Reported
41	N069891-009AMS	MS	1	Hexavalent Chromium	11/13/24 1:55 PM	Reported
42	N069891-016A	SAMP	5	Hexavalent Chromium	11/13/24 2:05 PM	Reported

Nancy 11/14/2024

INJECTION LOG: 241113A

Instrument ID: NV00922-IC7

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
43	N069891-016AMS	MS	5	Hexavalent Chromium	11/13/24 2:14 PM	Reported
44	N069891-012A	SAMP	1	Hexavalent Chromium	11/13/24 2:23 PM	Reported
45	N069891-012AMS	MS	1	Hexavalent Chromium	11/13/24 2:33 PM	Reported
46	N069891-014A	SAMP	1	Hexavalent Chromium	11/13/24 2:42 PM	Reported
47	CCV-4	CCV1	1	Hexavalent Chromium	11/13/24 2:52 PM	Reported
48	CCB-4	CCB	1	Hexavalent Chromium	11/13/24 3:01 PM	Reported
49	N069891-014AMS	MS	1	Hexavalent Chromium	11/13/24 3:11 PM	Reported
50	N069543-003A	SAMP	5	Hexavalent Chromium	11/13/24 3:36 PM	Reported
51	N069543-003AMS	MS	5	Hexavalent Chromium	11/13/24 3:48 PM	Reported
52	N069891-012A	SAMP	5	Hexavalent Chromium	11/13/24 3:58 PM	Not Reported
53	N069891-012AMS	MS	5	Hexavalent Chromium	11/13/24 4:07 PM	Not Reported
54	N069891-014A	SAMP	5	Hexavalent Chromium	11/13/24 4:16 PM	Not Reported
55	N069891-014AMS	MS	5	Hexavalent Chromium	11/13/24 4:26 PM	Not Reported
56	N069891-015A	SAMP	5	Hexavalent Chromium	11/13/24 4:35 PM	Reported
57	N069891-015AMS	MS	5	Hexavalent Chromium	11/13/24 4:45 PM	Reported
58	N069891-013A	SAMP	1	Hexavalent Chromium	11/13/24 4:54 PM	Reported
59	CCV-5	CCV	1	Hexavalent Chromium	11/13/24 5:04 PM	Reported
60	CCB-5	CCB	1	Hexavalent Chromium	11/13/24 5:13 PM	Reported
61	N069891-013AMS	MS	1	Hexavalent Chromium	11/13/24 5:23 PM	Reported
62	N069891-017A	SAMP	1	Hexavalent Chromium	11/13/24 5:32 PM	Reported
63	N069891-017AMS	MS	1	Hexavalent Chromium	11/13/24 5:42 PM	Reported
64	N069889-001A	SAMP	1	Hexavalent Chromium	11/13/24 5:51 PM	Not Reported
65	N069889-001AMS	MS	1	Hexavalent Chromium	11/13/24 6:01 PM	Not Reported
66	N069889-002A	SAMP	1	Hexavalent Chromium	11/13/24 6:10 PM	Not Reported
67	N069889-002AMS	MS	1	Hexavalent Chromium	11/13/24 6:19 PM	Not Reported
68	N069889-003A	SAMP	1	Hexavalent Chromium	11/13/24 6:29 PM	Not Reported
69	N069889-003AMS	MS	1	Hexavalent Chromium	11/13/24 6:38 PM	Not Reported
70	N069923-001A	SAMP	1	Hexavalent Chromium	11/13/24 6:48 PM	Reported
71	CCV-6	CCV1	1	Hexavalent Chromium	11/13/24 6:57 PM	Reported
72	CCB-6	CCB	1	Hexavalent Chromium	11/13/24 7:07 PM	Reported
73	N069923-001AMS	MS	1	Hexavalent Chromium	11/13/24 7:16 PM	Not Reported
74	N069923-002A	SAMP	1	Hexavalent Chromium	11/13/24 7:26 PM	Not Reported
75	N069923-002AMS	MS	1	Hexavalent Chromium	11/13/24 7:35 PM	Not Reported
76	N069923-003A	SAMP	1	Hexavalent Chromium	11/13/24 7:45 PM	Not Reported
77	N069923-003AMS	MS	1	Hexavalent Chromium	11/13/24 7:54 PM	Not Reported
78	N069889-001A	SAMP	5	Hexavalent Chromium	11/13/24 8:04 PM	Reported
79	N069889-001AMS	MS	5	Hexavalent Chromium	11/13/24 8:13 PM	Reported
80	N069889-002A	SAMP	5	Hexavalent Chromium	11/13/24 8:22 PM	Reported
81	N069889-002AMS	MS	5	Hexavalent Chromium	11/13/24 8:32 PM	Reported
82	CCV-7	CCV	1	Hexavalent Chromium	11/13/24 8:41 PM	Reported
83	CCB-7	CCB	1	Hexavalent Chromium	11/13/24 8:51 PM	Reported
84	N069889-003A	SAMP	5	Hexavalent Chromium	11/13/24 9:00 PM	Reported

INJECTION LOG: 241113A**Instrument ID: NV00922-IC7**

Sample No	Sample Name	Type	DF	Peak Name	Injection Date/Time	Comments
85	N069889-003AMS	MS	5	Hexavalent Chromium	11/13/24 9:10 PM	Reported
86	N069923-001A	SAMP	5	Hexavalent Chromium	11/13/24 9:19 PM	Reported
87	N069923-001AMS	MS	5	Hexavalent Chromium	11/13/24 9:29 PM	Reported
88	N069923-002A	SAMP	5	Hexavalent Chromium	11/13/24 9:38 PM	Reported
89	N069923-002AMS	MS	5	Hexavalent Chromium	11/13/24 9:48 PM	Reported
90	N069923-003A	SAMP	5	Hexavalent Chromium	11/13/24 9:57 PM	Not Reported
91	N069923-003AMS	MS	5	Hexavalent Chromium	11/13/24 10:07 PM	Not Reported
92	N069891-015A	SAMP	1	Hexavalent Chromium	11/13/24 10:16 PM	Not Reported
93	N069891-015AMS	MS	1	Hexavalent Chromium	11/13/24 10:25 PM	Not Reported
94	CCV-8	CCV1	1	Hexavalent Chromium	11/13/24 10:35 PM	Reported
95	CCB-8	CCB	1	Hexavalent Chromium	11/13/24 10:44 PM	Reported
96	BLANK	BLANK	1	Hexavalent Chromium	11/13/24 10:54 PM	Not Reported

Injection Log Summary

Sequence Details

Name:	IC-07_241113A	Created On:	24/Jul/12 17:17:21
Directory:	Instrument Data\IC-7\2023\IC7	Created By:	ics 5000
Data Vault:	ChromeleonLocal4	Updated On:	13/Nov/24 23:24:37
No. of Injections:	99	Updated By:	ics 5000

Injection Details

No.	Injection Name	Position	Volume µL	Type	Level	Inject Time	Status	Comment
1	BLANK	1	1000	Unknown		10/28/2024 09:30	Finished	BLANK
2	iBLANK	2	1000	Unknown		10/28/2024 09:43	Finished	INSTRUMENT BLANK
3	STD1-0.2 ppb	3	1000	Calibration Standard	01	10/28/2024 09:52	Finished	0.2 ppb, IWST-240729A, 2uL>
4	STD2-1.0 ppb	4	1000	Calibration Standard	02	10/28/2024 10:02	Finished	1.0 ppb, IWST-240729A, 10uL>
5	STD3-5.0 ppb	5	1000	Calibration Standard	03	10/28/2024 10:11	Finished	5.0 ppb, IWST-240729A, 50uL>
6	STD4-10.0 ppb	6	1000	Calibration Standard	04	10/28/2024 10:21	Finished	10 ppb, IWST-240729A, 100uL>
7	STD5-15.0 ppb	7	1000	Calibration Standard	05	10/28/2024 10:30	Finished	15 ppb, IWST-240729A, 150uL>
8	STD6-20.0 ppb	8	1000	Calibration Standard	06	10/28/2024 10:40	Finished	20 ppb, IWST-240729A, 200uL>
9	BLANK	1	1000	Unknown		11/13/2024 08:49	Finished	BLANK
10	CCV-1,CCV,1,	2	1000	Unknown		11/13/2024 09:02	Finished	CCV @5ppb, IWST-240729A
11	PQL@0.2ppb,CCV2,	3	1000	Unknown		11/13/2024 09:11	Finished	PQL @ 0.2ppb
12	CCB-1,CCB,1,	4	1000	Unknown		11/13/2024 09:21	Finished	CCB R241001A
13	MB-H2O,MBLK,1,	5	1000	Unknown		11/13/2024 09:30	Finished	MB R241001A
14	LCS-H2O,LCS,1,	6	1000	Unknown		11/13/2024 09:40	Finished	LCS @5ppb, IWST-240729B
15	N069927-001B,SAMP	7	1000	Unknown		11/13/2024 09:49	Finished	SAMP,2>10 mL
16	N069927-002B,SAMP	8	1000	Unknown		11/13/2024 09:59	Finished	SAMP,1>10 mL
17	N069927-004B,SAMP	9	1000	Unknown		11/13/2024 10:08	Finished	SAMP,2>10 mL
18	N069927-005B,SAMP	10	1000	Unknown		11/13/2024 10:17	Finished	SAMP,2>10 mL
19	N069927-006B,SAMP	11	1000	Unknown		11/13/2024 10:27	Finished	SAMP,5>10 mL
20	N069927-003A,SAMP	12	1000	Unknown		11/13/2024 10:36	Finished	SAMP,10 mL
21	N069927-001BREP,D	13	1000	Unknown		11/13/2024 10:46	Finished	REP,2>10 mL
22	N069927-002BREP,D	14	1000	Unknown		11/13/2024 10:55	Finished	REP,1>10 mL
23	CCV-2,CCV1,1,	15	1000	Unknown		11/13/2024 11:05	Finished	CCV @10ppb, IWST-240729A
24	CCB-2,CCB,1,	16	1000	Unknown		11/13/2024 11:14	Finished	CCB R241001A
25	N069927-004BREP,D	17	1000	Unknown		11/13/2024 11:24	Finished	REP,2>10 mL
26	N069927-005BREP,D	18	1000	Unknown		11/13/2024 11:33	Finished	REP,2>10 mL
27	N069927-006BREP,D	19	1000	Unknown		11/13/2024 11:43	Finished	REP,5>10 mL
28	N069927-003AREP,D	20	1000	Unknown		11/13/2024 11:52	Finished	REP,10 mL
29	N069927-001BMS,M	21	1000	Unknown		11/13/2024 12:02	Finished	MS (5ppb), IWST-240729B,2>
30	N069927-002BMS,M	22	1000	Unknown		11/13/2024 12:11	Finished	MS (5ppb), IWST-240729B,1>
31	N069927-002BMSD,N	23	1000	Unknown		11/13/2024 12:20	Finished	MSD (5ppb), IWST-240729B,1>
32	N069927-004BMS,M	24	1000	Unknown		11/13/2024 12:30	Finished	MS (5ppb), IWST-240729B,2>
33	N069927-005BMS,M	25	1000	Unknown		11/13/2024 12:39	Finished	MS (5ppb), IWST-240729B,2>
34	N069927-006BMS,M	26	1000	Unknown		11/13/2024 12:49	Finished	MS (5ppb), IWST-240729B,5>
35	CCV-3,CCV,1,	27	1000	Unknown		11/13/2024 12:58	Finished	CCV @5ppb, IWST-240729A
36	CCB-3,CCB,1,	28	1000	Unknown		11/13/2024 13:08	Finished	CCB R241001A
37	N069927-003AMS,M	29	1000	Unknown		11/13/2024 13:17	Finished	MS (1ppb), IWST-240729B,10r
38	N069891-006A,SAMP	30	1000	Unknown		11/13/2024 13:27	Finished	SAMP,10 mL
39	N069891-006AMS,M	31	1000	Unknown		11/13/2024 13:36	Finished	MS (1ppb), IWST-240729B,10r
40	N069891-009A,SAMP	32	1000	Unknown		11/13/2024 13:46	Finished	SAMP,10 mL
41	N069891-009AMS,M	33	1000	Unknown		11/13/2024 13:55	Finished	MS (1ppb), IWST-240729B,10r
42	N069891-016A,SAMP	34	1000	Unknown		11/13/2024 14:05	Finished	SAMP,2>10 mL
43	N069891-016AMS,M	35	1000	Unknown		11/13/2024 14:14	Finished	MS (5ppb), IWST-240729B,2>
44	N069891-012A,SAMP	36	1000	Unknown		11/13/2024 14:23	Finished	SAMP,10 mL
45	N069891-012AMS,M	37	1000	Unknown		11/13/2024 14:33	Finished	MS (1ppb), IWST-240729B,10r
46	N069891-014A,SAMP	38	1000	Unknown		11/13/2024 14:42	Finished	SAMP,10 mL
47	CCV-4,CCV1,1,	39	1000	Unknown		11/13/2024 14:52	Finished	CCV @10ppb, IWST-240729A
48	CCB-4,CCB,1,	40	1000	Unknown		11/13/2024 15:01	Finished	CCB R241001A
49	N069891-014AMS,M	41	1000	Unknown		11/13/2024 15:11	Finished	MS (1ppb), IWST-240729B,10r
50	N069543-003A,SAMP	1	1000	Unknown		11/13/2024 15:36	Finished	SAMP,2>10 mL
51	N069543-003AMS,M	2	1000	Unknown		11/13/2024 15:48	Finished	MS (1ppb), IWST-240729B,2>
52	N069891-012A,SAMP	3	1000	Unknown		11/13/2024 15:58	Finished	SAMP,2>10 mL
53	N069891-012AMS,M	4	1000	Unknown		11/13/2024 16:07	Finished	MS (1ppb), IWST-240729B,2>
54	N069891-014A,SAMP	5	1000	Unknown		11/13/2024 16:16	Finished	SAMP,2>10 mL
55	N069891-014AMS,M	6	1000	Unknown		11/13/2024 16:26	Finished	MS (1ppb), IWST-240729B,2>
56	N069891-015A,SAMP	7	1000	Unknown		11/13/2024 16:35	Finished	SAMP,2>10 mL
57	N069891-015AMS,M	8	1000	Unknown		11/13/2024 16:45	Finished	MS (1ppb), IWST-240729B,2>
58	N069891-013A,SAMP	9	1000	Unknown		11/13/2024 16:54	Finished	SAMP,10 mL
59	CCV-5,CCV,1,	10	1000	Unknown		11/13/2024 17:04	Finished	CCV @5ppb, IWST-240729A
60	CCB-5,CCB,1,	11	1000	Unknown		11/13/2024 17:13	Finished	CCB R241001A

61	N069891-013AMS.MS	12	1000	Unknown	11/13/2024 17:23	Finished	MS (1ppb), IWST-240729B,10r
62	N069891-017A,SAMP	13	1000	Unknown	11/13/2024 17:32	Finished	SAMP,10 mL
63	N069891-017AMS.MS	14	1000	Unknown	11/13/2024 17:42	Finished	MS (1ppb), IWST-240729B,10r
64	N069889-001A,SAMP	15	1000	Unknown	11/13/2024 17:51	Finished	SAMP,10 mL
65	N069889-001AMS.MS	16	1000	Unknown	11/13/2024 18:01	Finished	MS (1ppb), IWST-240729B,10r
66	N069889-002A,SAMP	17	1000	Unknown	11/13/2024 18:10	Finished	SAMP,10 mL
67	N069889-002AMS.MS	18	1000	Unknown	11/13/2024 18:19	Finished	MS (1ppb), IWST-240729B,10r
68	N069889-003A,SAMP	19	1000	Unknown	11/13/2024 18:29	Finished	SAMP,10 mL
69	N069889-003AMS.MS	20	1000	Unknown	11/13/2024 18:38	Finished	MS (1ppb), IWST-240729B,10r
70	N069923-001A,SAMP	21	1000	Unknown	11/13/2024 18:48	Finished	SAMP,10 mL
71	CCV-6,CCV1,1,	22	1000	Unknown	11/13/2024 18:57	Finished	CCV @10ppb, IWST-240729A
72	CCB-6,CCB,1,	23	1000	Unknown	11/13/2024 19:07	Finished	CCB R241001A
73	N069923-001AMS.MS	24	1000	Unknown	11/13/2024 19:16	Finished	MS (1ppb), IWST-240729B,10r
74	N069923-002A,SAMP	25	1000	Unknown	11/13/2024 19:26	Finished	SAMP,10 mL
75	N069923-002AMS.MS	26	1000	Unknown	11/13/2024 19:35	Finished	MS (1ppb), IWST-240729B,10r
76	N069923-003A,SAMP	27	1000	Unknown	11/13/2024 19:45	Finished	SAMP,10 mL
77	N069923-003AMS.MS	28	1000	Unknown	11/13/2024 19:54	Finished	MS (1ppb), IWST-240729B,10r
78	N069889-001A,SAMP	29	1000	Unknown	11/13/2024 20:04	Finished	SAMP,2>10 mL
79	N069889-001AMS.MS	30	1000	Unknown	11/13/2024 20:13	Finished	MS (1ppb), IWST-240729B,2>
80	N069889-002A,SAMP	31	1000	Unknown	11/13/2024 20:22	Finished	SAMP,2>10 mL
81	N069889-002AMS.MS	32	1000	Unknown	11/13/2024 20:32	Finished	MS (1ppb), IWST-240729B,2>
82	CCV-7,CCV,1,	33	1000	Unknown	11/13/2024 20:41	Finished	CCV @5ppb, IWST-240729A
83	CCB-7,CCB,1,	34	1000	Unknown	11/13/2024 20:51	Finished	CCB R241001A
84	N069889-003A,SAMP	35	1000	Unknown	11/13/2024 21:00	Finished	SAMP,2>10 mL
85	N069889-003AMS.MS	36	1000	Unknown	11/13/2024 21:10	Finished	MS (1ppb), IWST-240729B,2>
86	N069923-001A,SAMP	37	1000	Unknown	11/13/2024 21:19	Finished	SAMP,2>10 mL
87	N069923-001AMS.MS	38	1000	Unknown	11/13/2024 21:29	Finished	MS (1ppb), IWST-240729B,2>
88	N069923-002A,SAMP	39	1000	Unknown	11/13/2024 21:38	Finished	SAMP,2>10 mL
89	N069923-002AMS.MS	40	1000	Unknown	11/13/2024 21:48	Finished	MS (1ppb), IWST-240729B,2>
90	N069923-003A,SAMP	41	1000	Unknown	11/13/2024 21:57	Finished	SAMP,2>10 mL
91	N069923-003AMS.MS	42	1000	Unknown	11/13/2024 22:07	Finished	MS (1ppb), IWST-240729B,2>
92	N069891-015A,SAMP	43	1000	Unknown	11/13/2024 22:16	Finished	SAMP,10 mL
93	N069891-015AMS.MS	44	1000	Unknown	11/13/2024 22:25	Finished	MS (1ppb), IWST-240729B,10r
94	CCV-8,CCV1,1,	45	1000	Unknown	11/13/2024 22:35	Finished	CCV @10ppb, IWST-240729A
95	CCB-8,CCB,1,	46	1000	Unknown	11/13/2024 22:44	Finished	CCB R241001A
96	BLANK	47	1000	Unknown	11/13/2024 22:54	Finished	BLANK
97	SHUTDOWN	48	1000	Unknown	11/13/2024 23:03	Finished	
98	Eluent: R241111A	49	1000	Unknown	n.a.	Finished	
99	PCR: R241111B	50	1000	Unknown	n.a.	Finished	

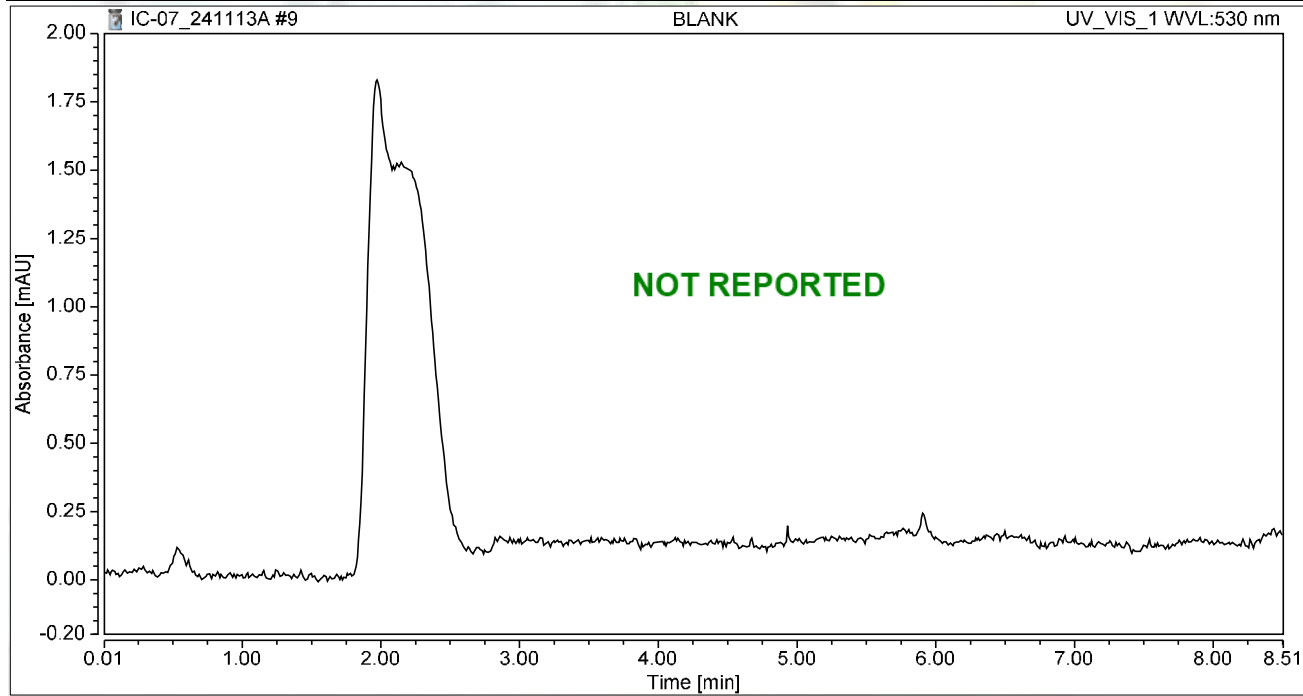


Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 08:49	Sample Weight:	1.0000

Chromatogram



Integration Results

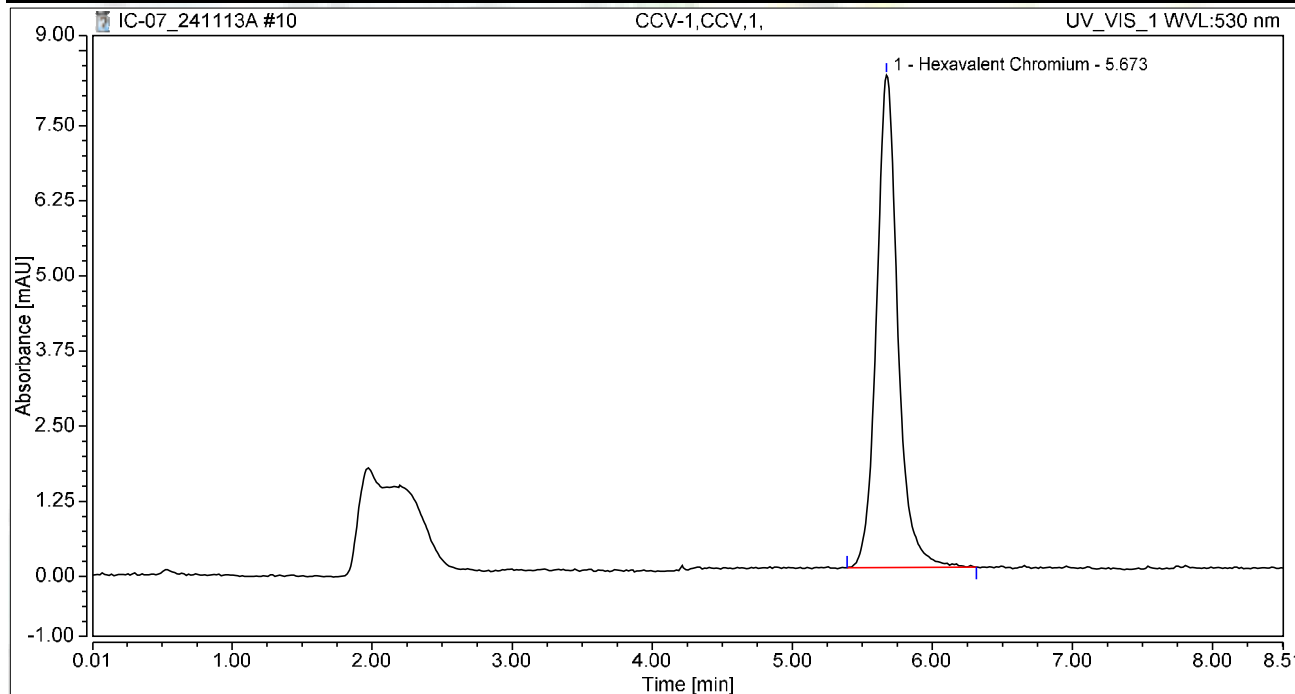
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-1,CCV,1,	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 09:02	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.673	1.451	8.195	100.00	100.00	5.1147
Total:			1.451	8.195	100.00	100.00	

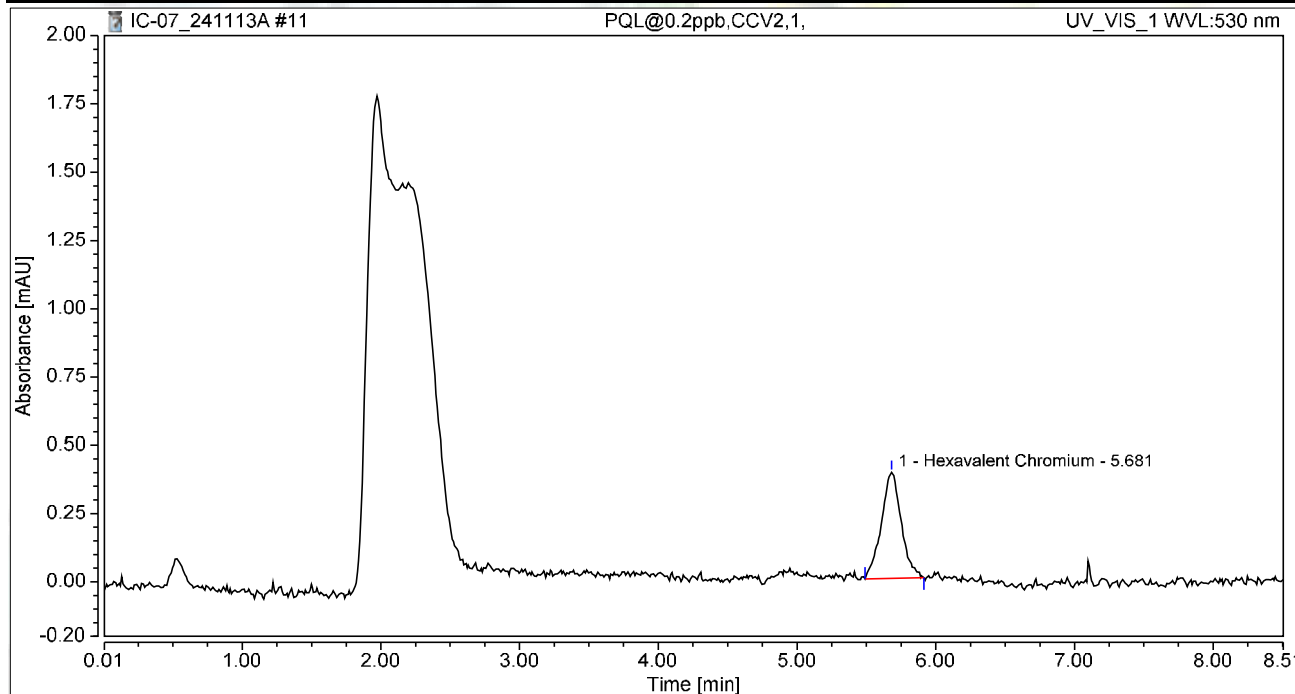
Nancy 11/14/2024

Chromatogram and Results

Injection Details

Injection Name:	PQL@0.2ppb,CCV2,1,	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 09:11	Sample Weight:	1.0000

Chromatogram



Integration Results

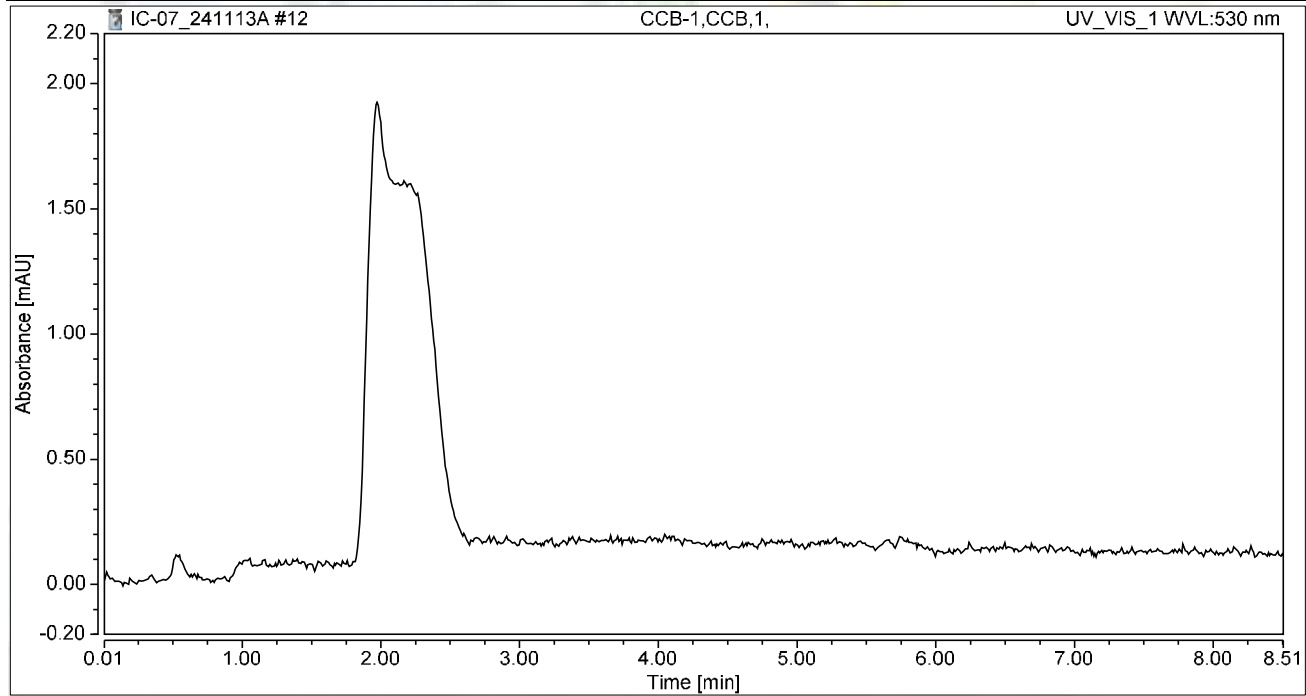
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.064	0.388	100.00	100.00	0.2271
Total:			0.064	0.388	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-1,CCB,1,	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 09:21	Sample Weight:	1.0000

Chromatogram



Integration Results

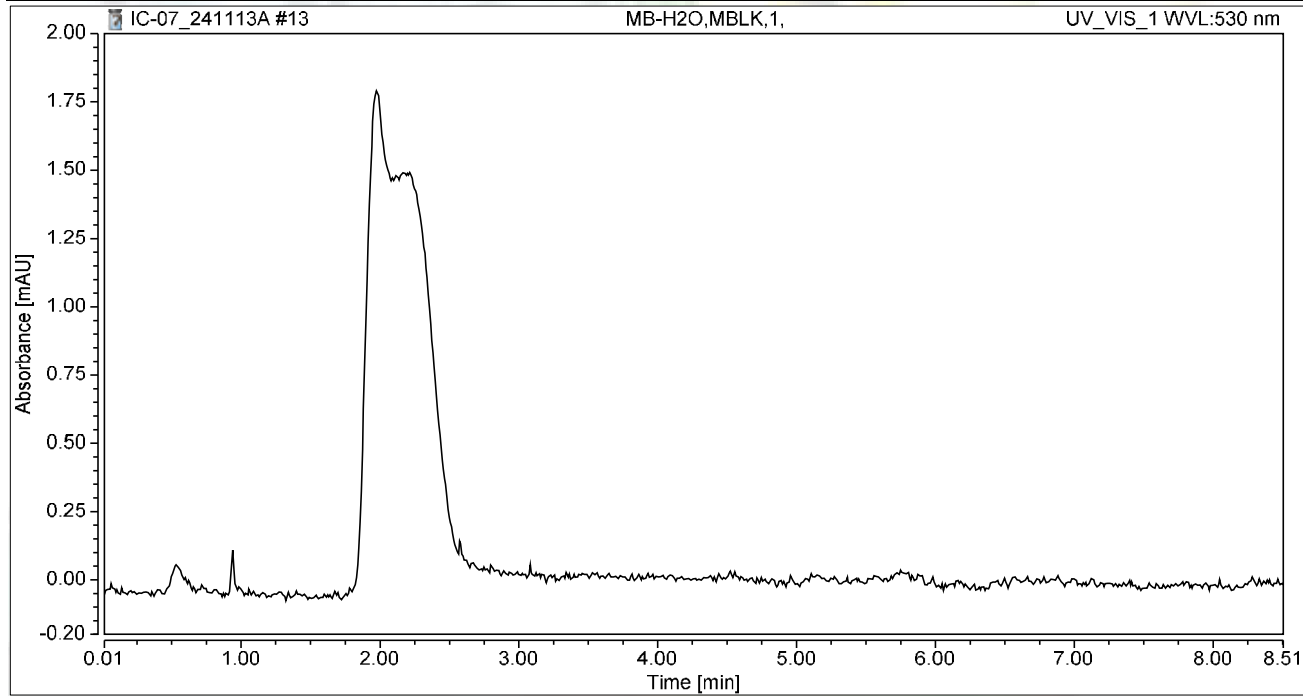
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	MB-H2O,MBLK,1,	Run Time (min):	8.49
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 09:30	Sample Weight:	1.0000

Chromatogram



Integration Results

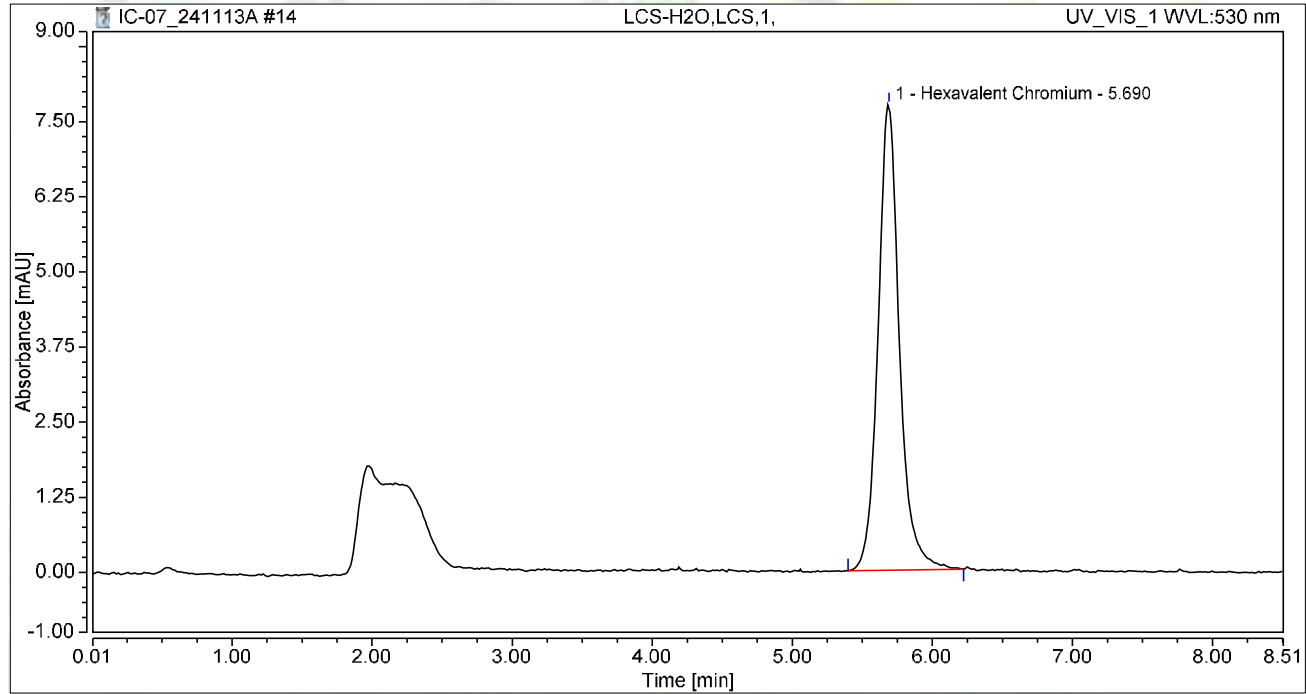
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	LCS-H2O,LCS,1,	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 09:40	Sample Weight:	1.0000

Chromatogram



Integration Results

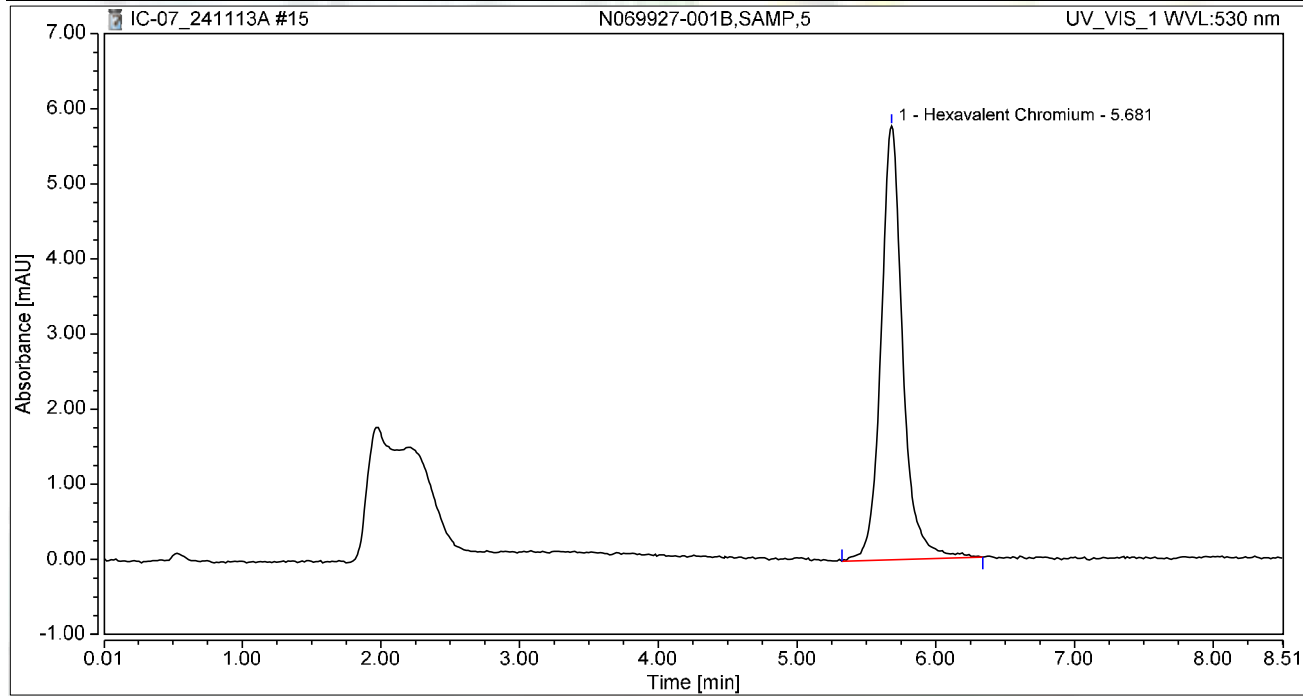
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	1.369	7.750	100.00	100.00	4.8239
Total:			1.369	7.750	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-001B,SAMP,5	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 09:49	Sample Weight:	1.0000

Chromatogram



Integration Results

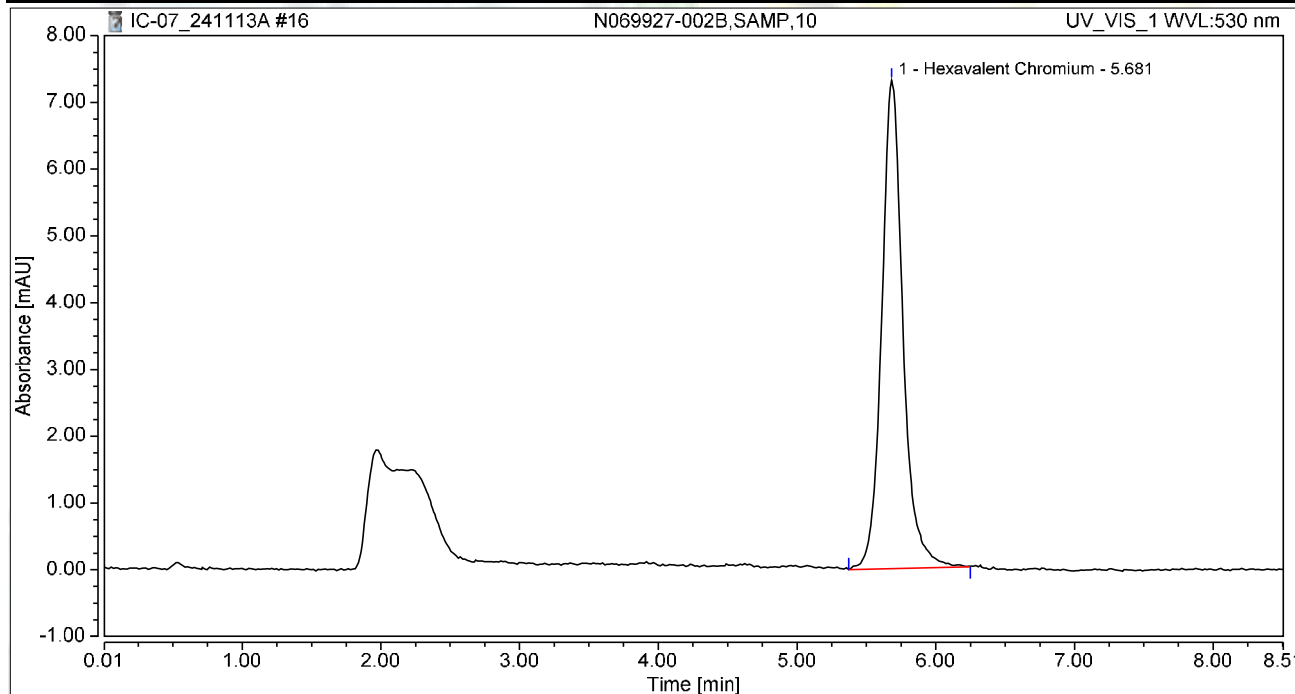
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	1.052	5.776	100.00	100.00	3.7064
Total:			1.052	5.776	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-002B,SAMP,10	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 09:59	Sample Weight:	1.0000

Chromatogram



Integration Results

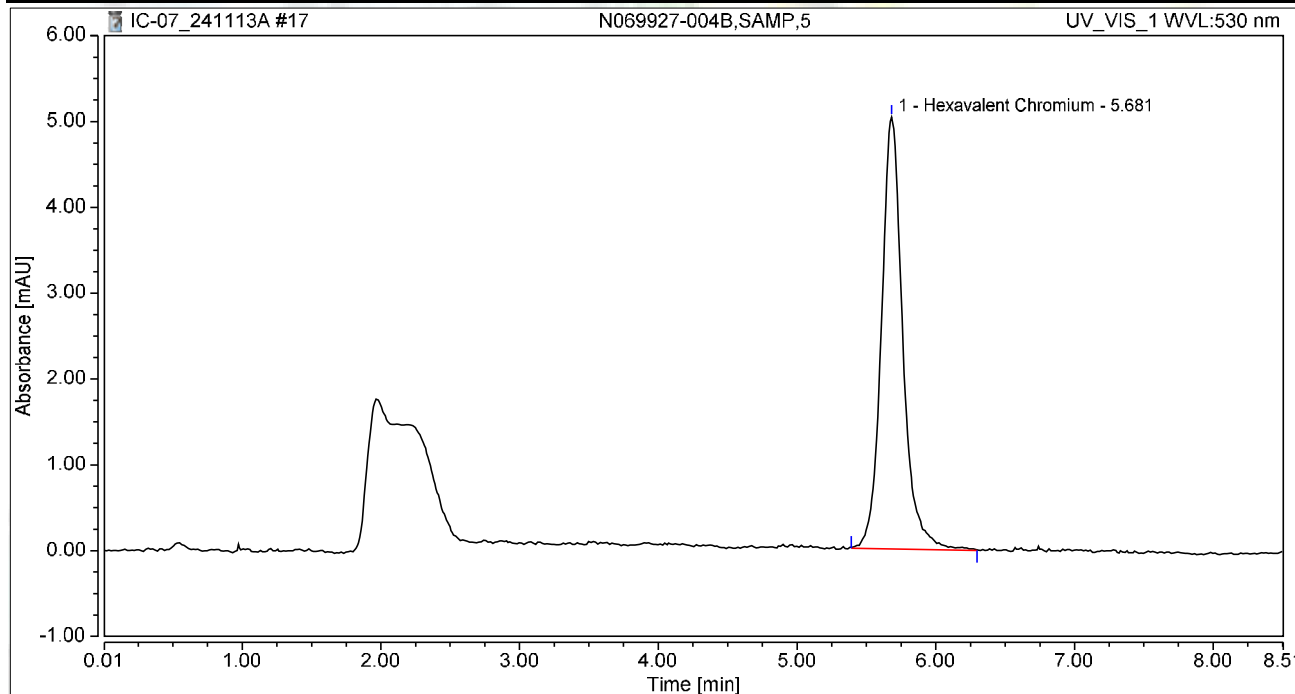
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	1.302	7.316	100.00	100.00	4.5882
Total:			1.302	7.316	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-004B,SAMP,5	Run Time (min):	8.50
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 10:08	Sample Weight:	1.0000

Chromatogram



Integration Results

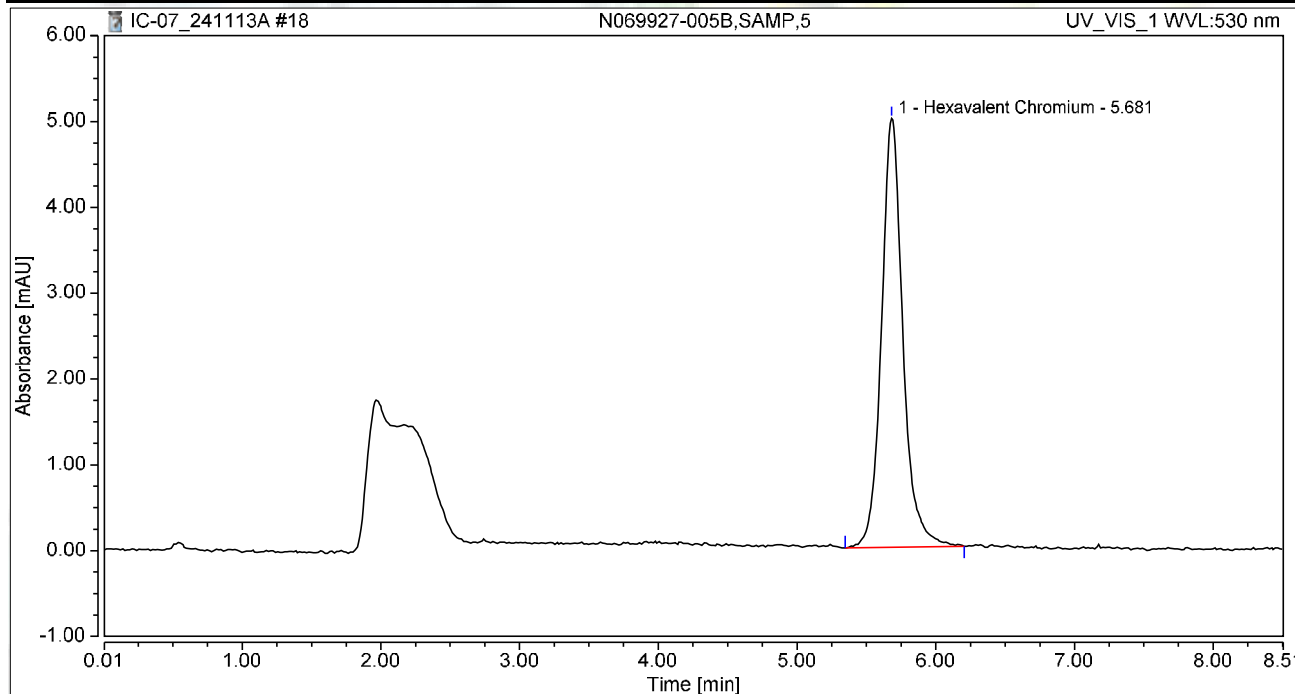
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.899	5.031	100.00	100.00	3.1668
Total:			0.899	5.031	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-005B,SAMP,5	Run Time (min):	8.50
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 10:17	Sample Weight:	1.0000

Chromatogram



Integration Results

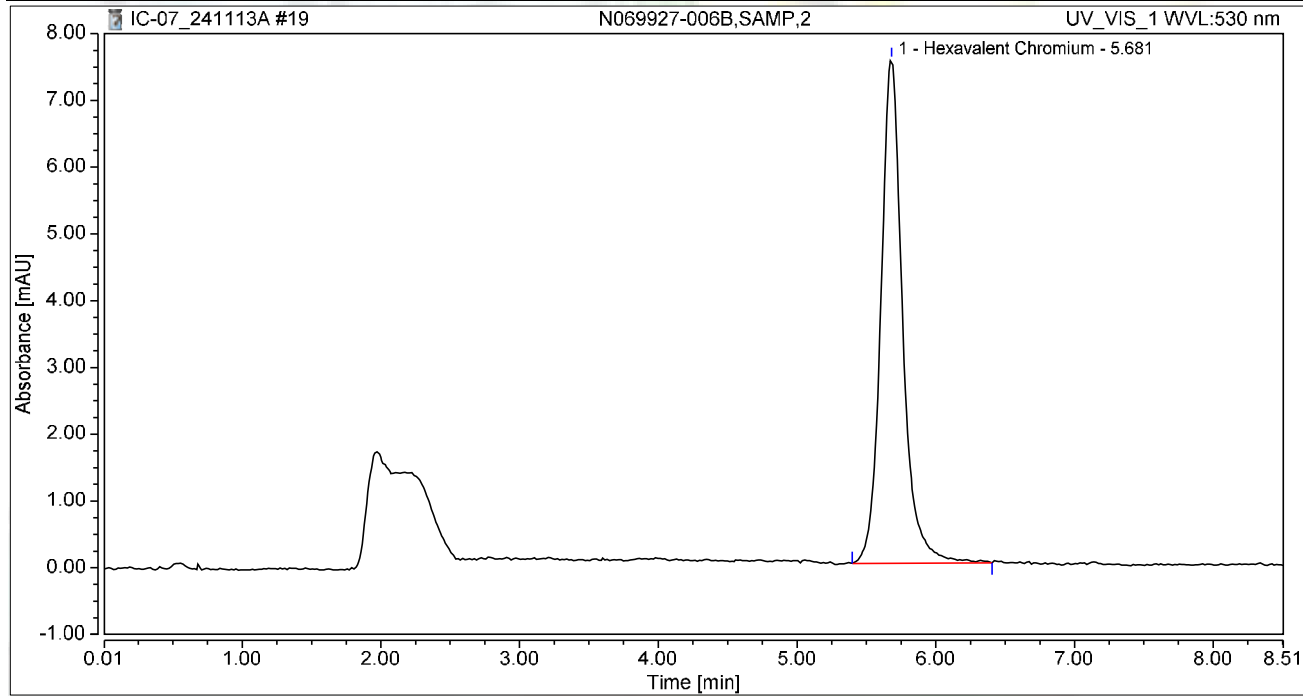
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	0.894	4.997	100.00	100.00	3.1491
Total:			0.894	4.997	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-006B,SAMP,2	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 10:27	Sample Weight:	1.0000

Chromatogram



Integration Results

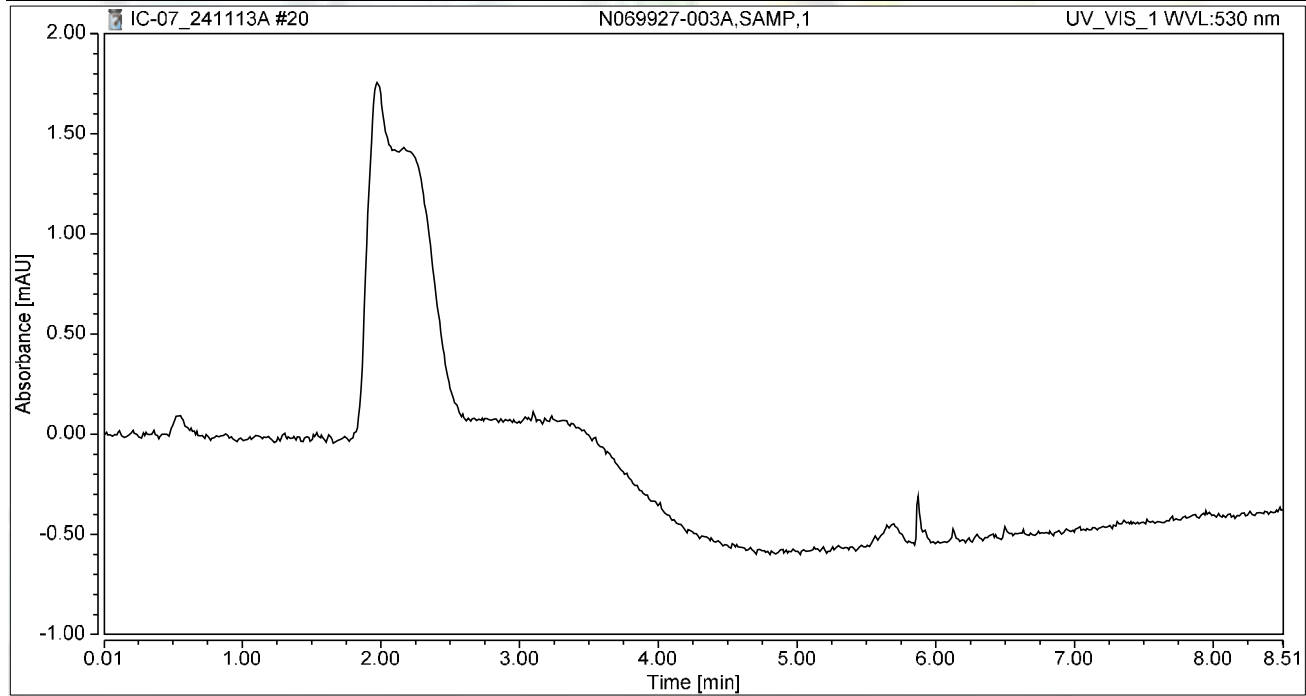
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.681	1.373	7.545	100.00	100.00	4.8386
Total:			1.373	7.545	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 10:36	Sample Weight:	1.0000

Chromatogram



Integration Results

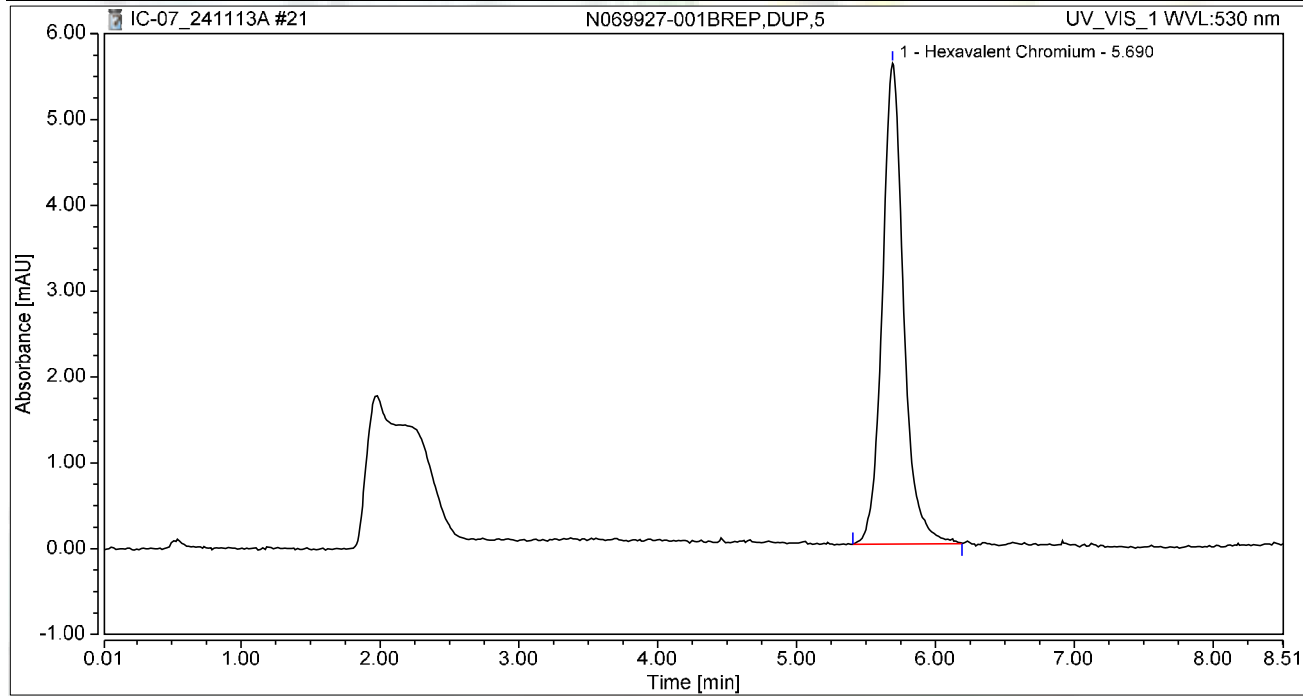
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-001BREP,DUP,5	Run Time (min):	8.49
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 10:46	Sample Weight:	1.0000

Chromatogram



Integration Results

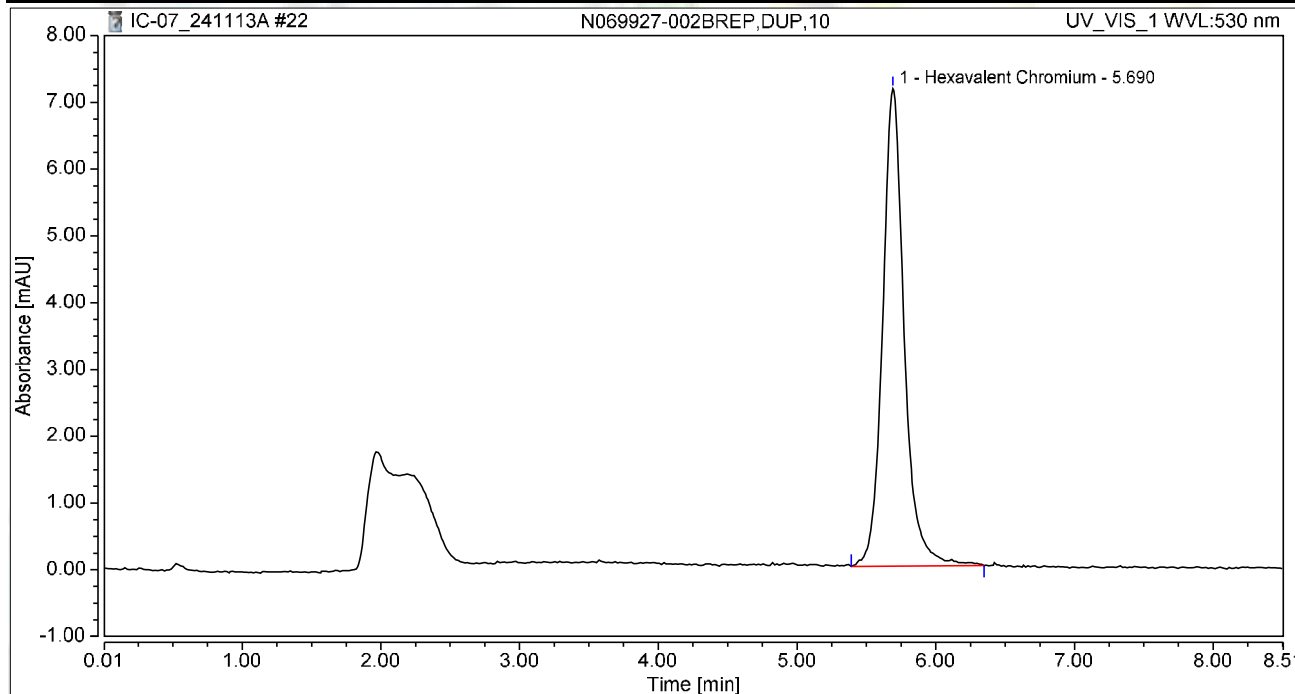
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	1.000	5.603	100.00	100.00	3.5255
Total:			1.000	5.603	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-002BREP,DUP,10	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 10:55	Sample Weight:	1.0000

Chromatogram



Integration Results

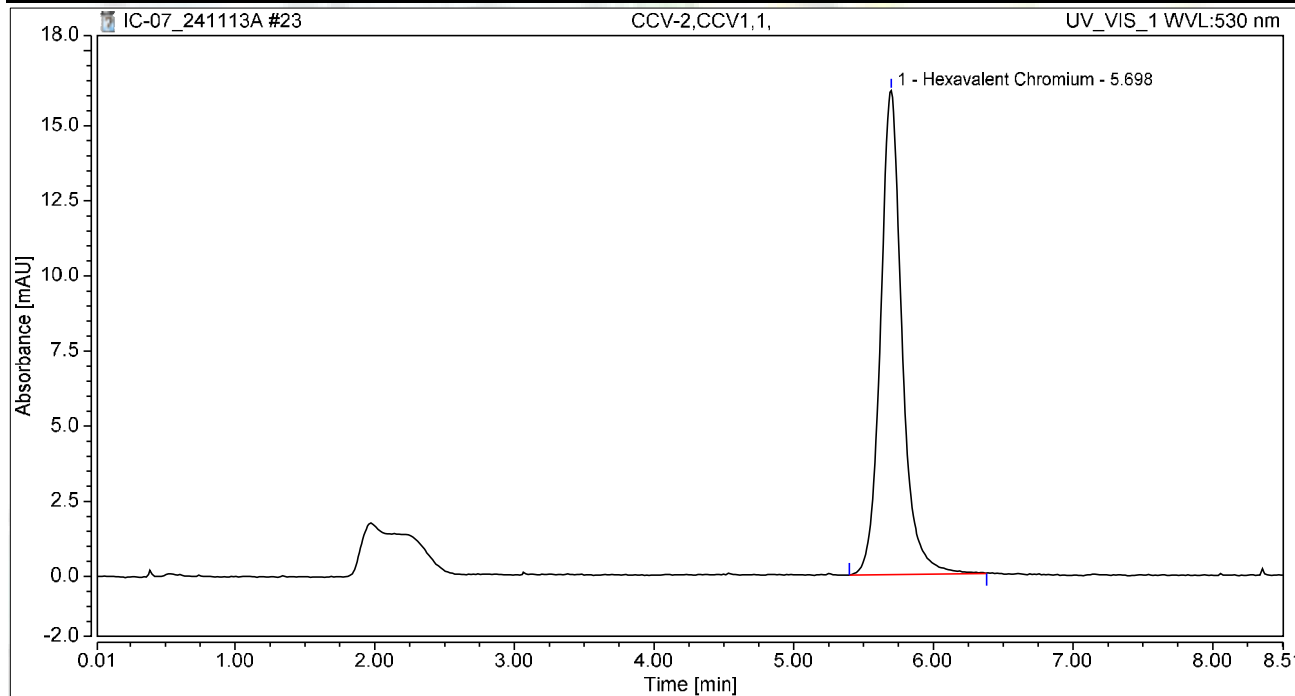
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	1.290	7.152	100.00	100.00	4.5453
Total:			1.290	7.152	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-2,CCV1,1,	Run Time (min):	8.49
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 11:05	Sample Weight:	1.0000

Chromatogram



Integration Results

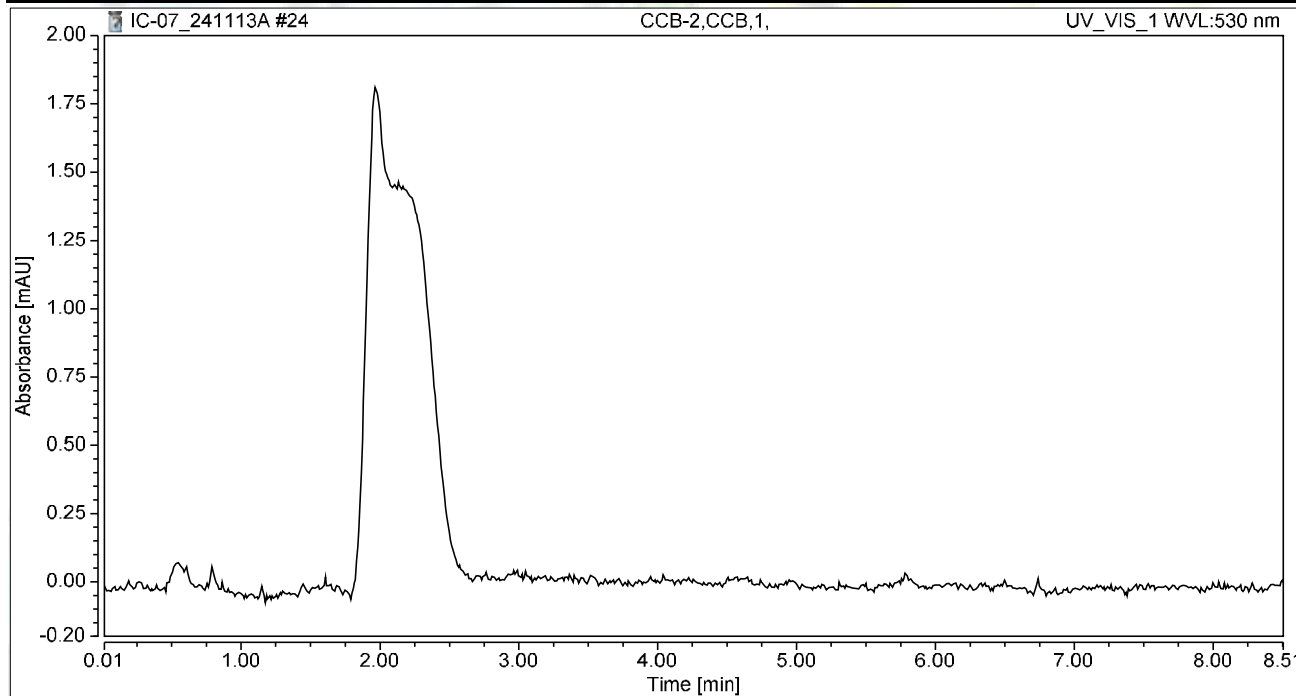
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	2.887	16.107	100.00	100.00	10.1729
Total:			2.887	16.107	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-2,CCB,1,	Run Time (min):	8.49
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 11:14	Sample Weight:	1.0000

Chromatogram



Integration Results

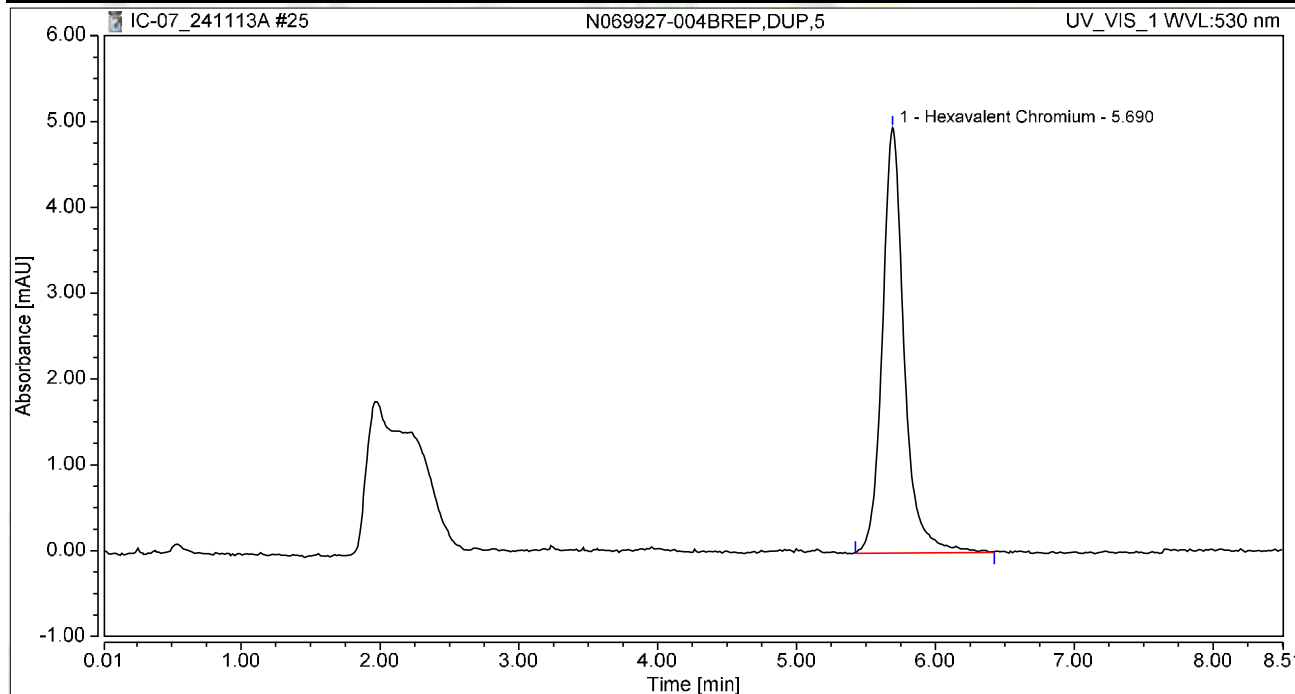
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-004BREP,DUP,5	Run Time (min):	8.49
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 11:24	Sample Weight:	1.0000

Chromatogram



Integration Results

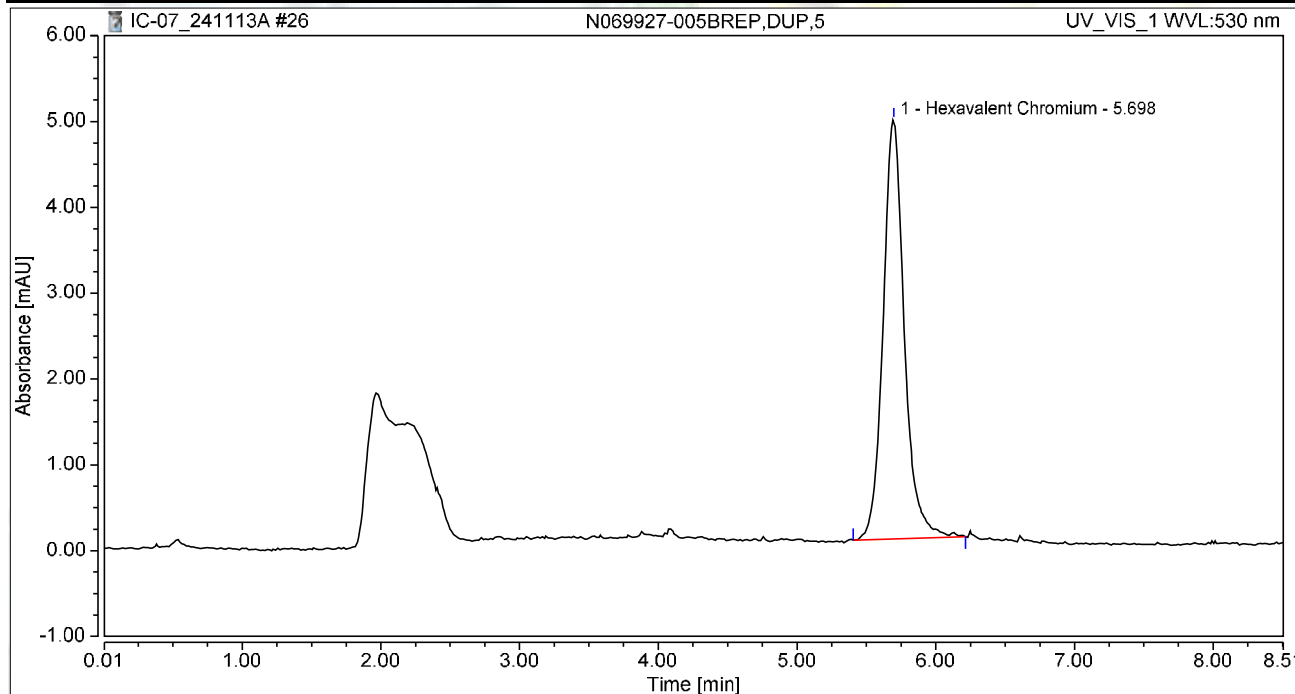
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.690	0.903	4.951	100.00	100.00	3.1833
Total:			0.903	4.951	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-005BREP,DUP,5	Run Time (min):	8.50
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 11:33	Sample Weight:	1.0000

Chromatogram



Integration Results

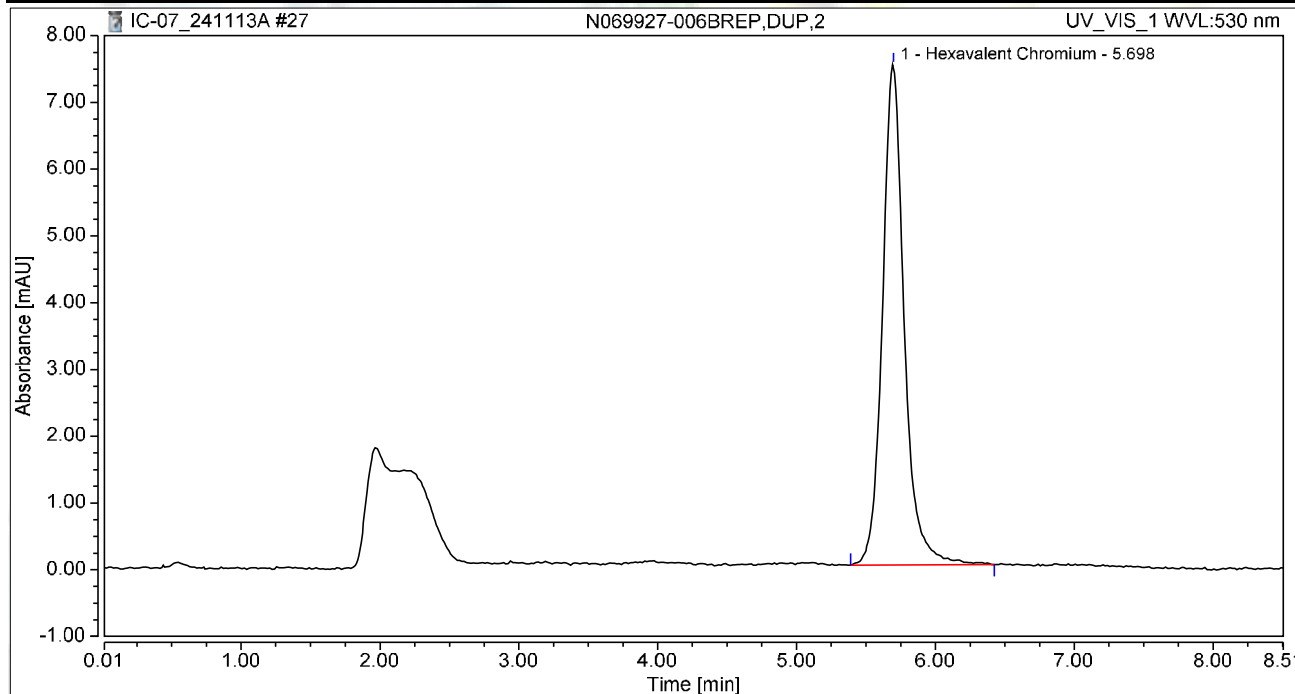
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	0.865	4.886	100.00	100.00	3.0492
Total:			0.865	4.886	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-006BREP,DUP,2	Run Time (min):	8.49
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 11:43	Sample Weight:	1.0000

Chromatogram



Integration Results

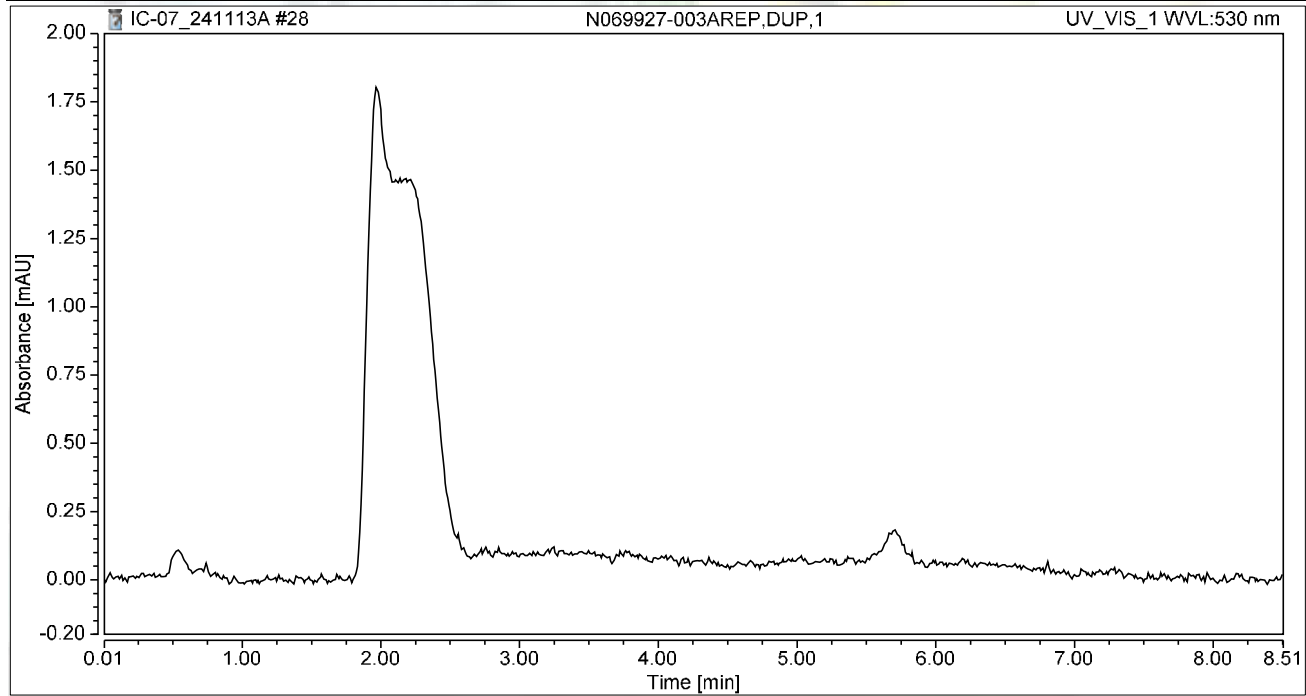
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.698	1.364	7.494	100.00	100.00	4.8065
Total:			1.364	7.494	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-003AREP,DUP,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 11:52	Sample Weight:	1.0000

Chromatogram



Integration Results

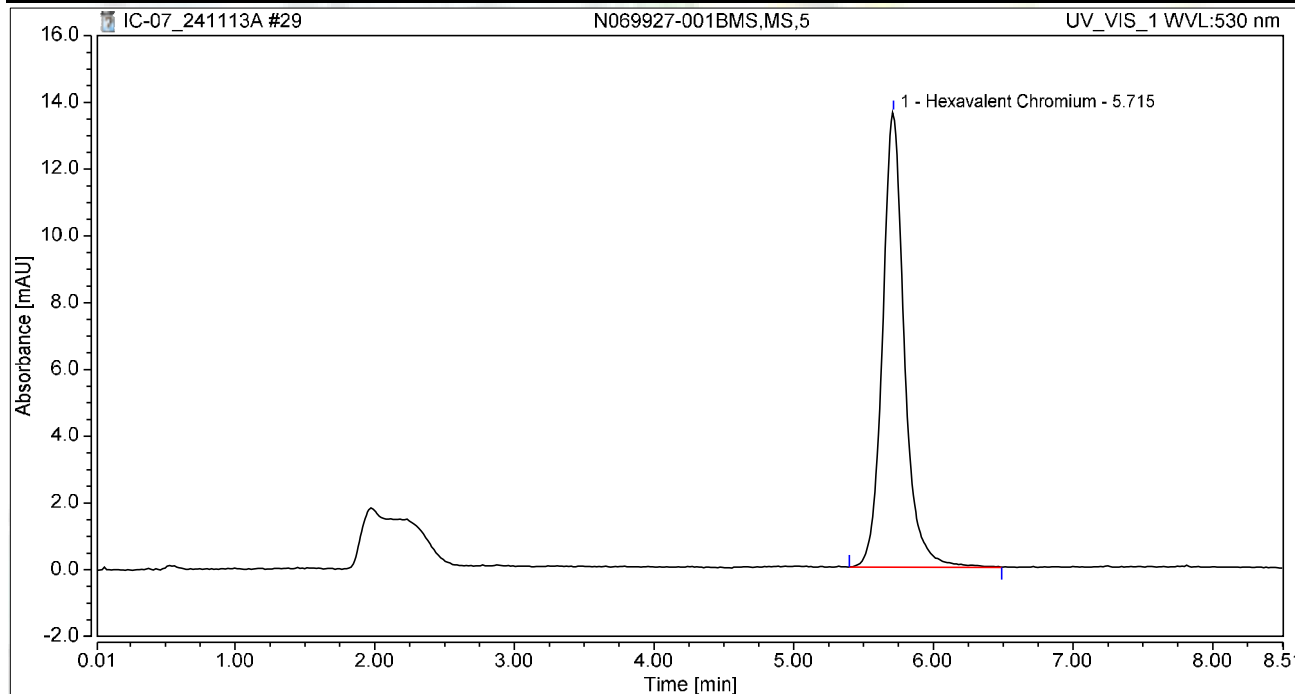
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-001BMS,MS,5	Run Time (min):	8.49
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 12:02	Sample Weight:	1.0000

Chromatogram



Integration Results

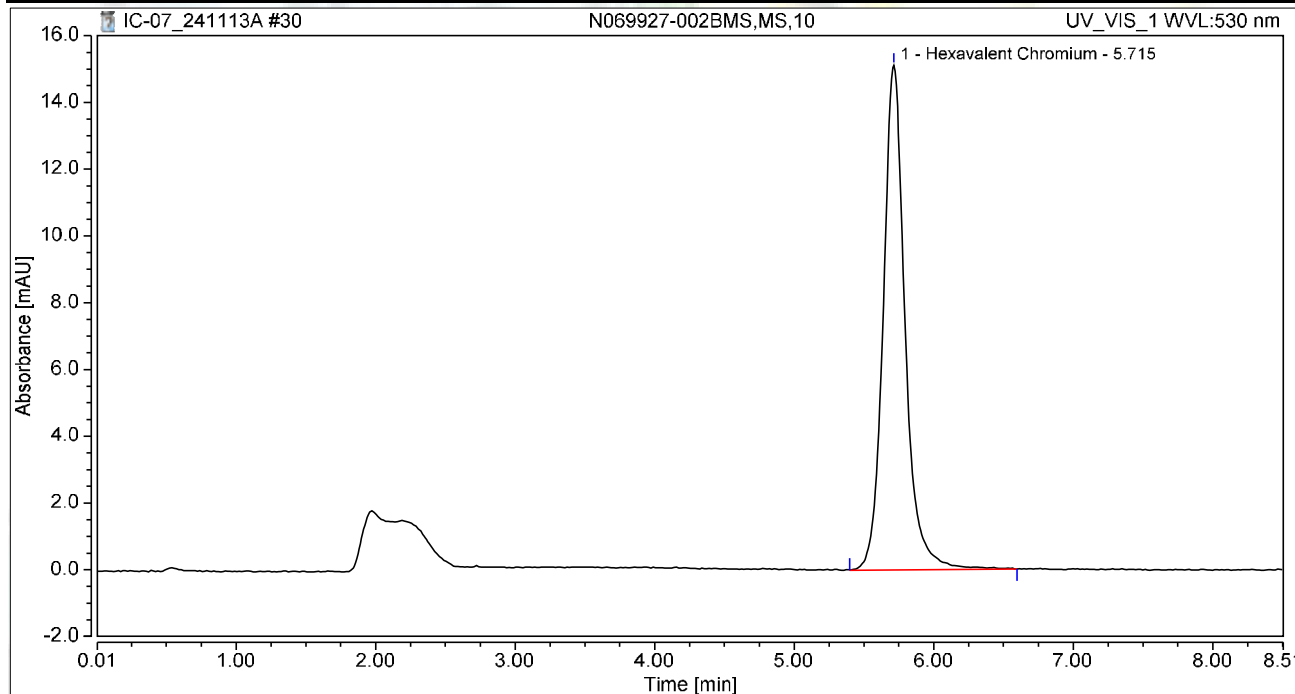
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.470	13.617	100.00	100.00	8.7043
Total:			2.470	13.617	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-002BMS,MS,10	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 12:11	Sample Weight:	1.0000

Chromatogram



Integration Results

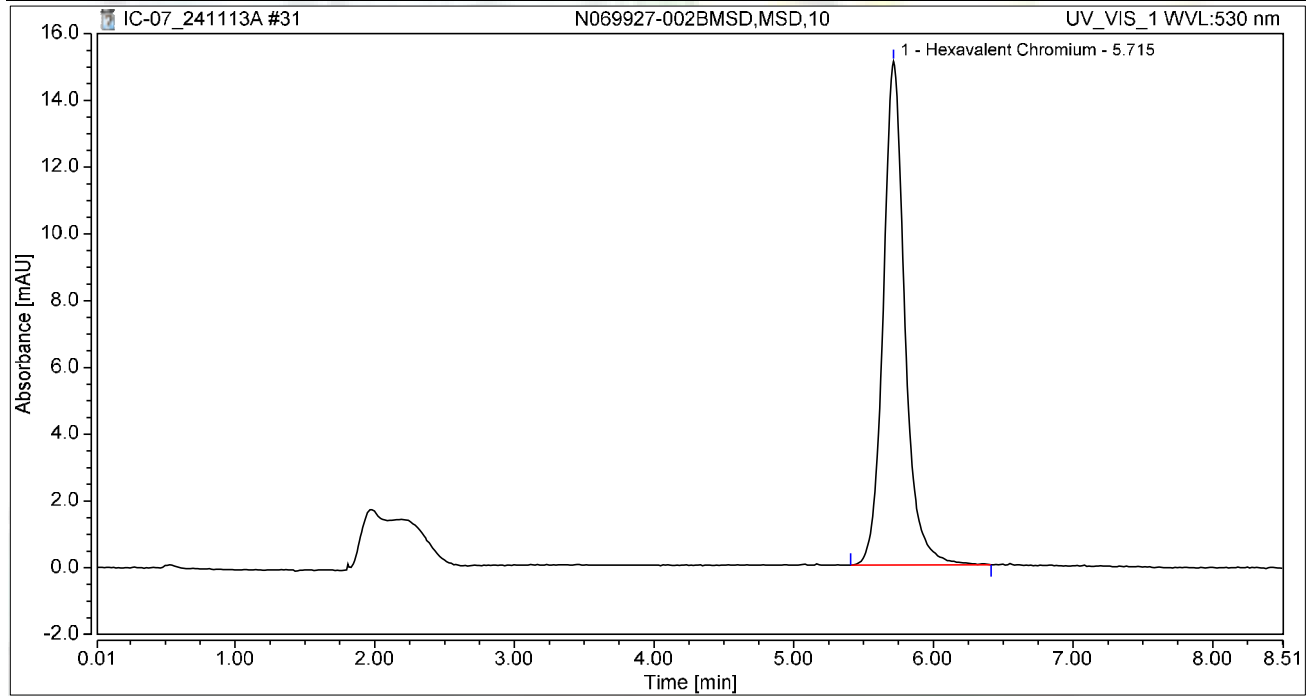
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.743	15.119	100.00	100.00	9.6685
Total:			2.743	15.119	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-002BMSD,MSD,10	Run Time (min):	8.49
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 12:20	Sample Weight:	1.0000

Chromatogram



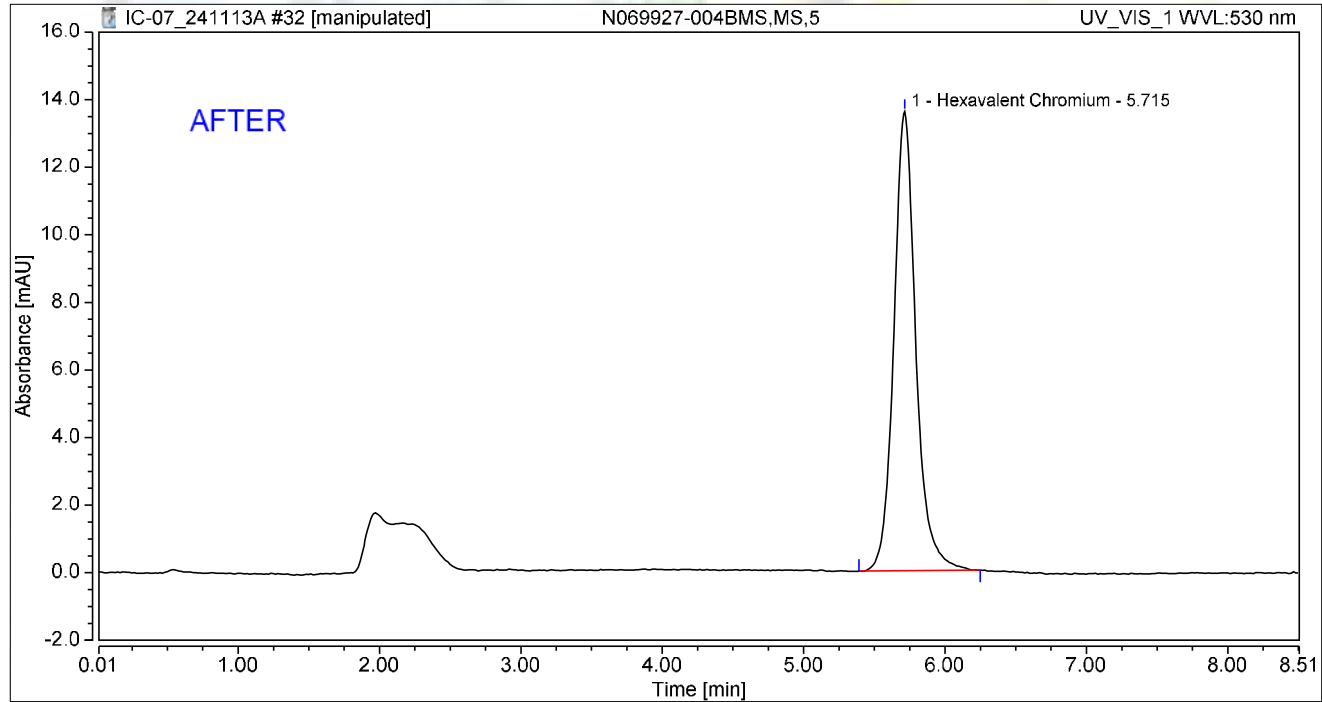
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.706	15.086	100.00	100.00	9.5382
Total:			2.706	15.086	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069927-004BMS,MS,5	Run Time (min): 8.49
Vial Number:	24	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	13/Nov/24 12:30	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.443	13.590	100.00	100.00	8.6081
Total:			2.443	13.590	100.00	100.00	

Nancy

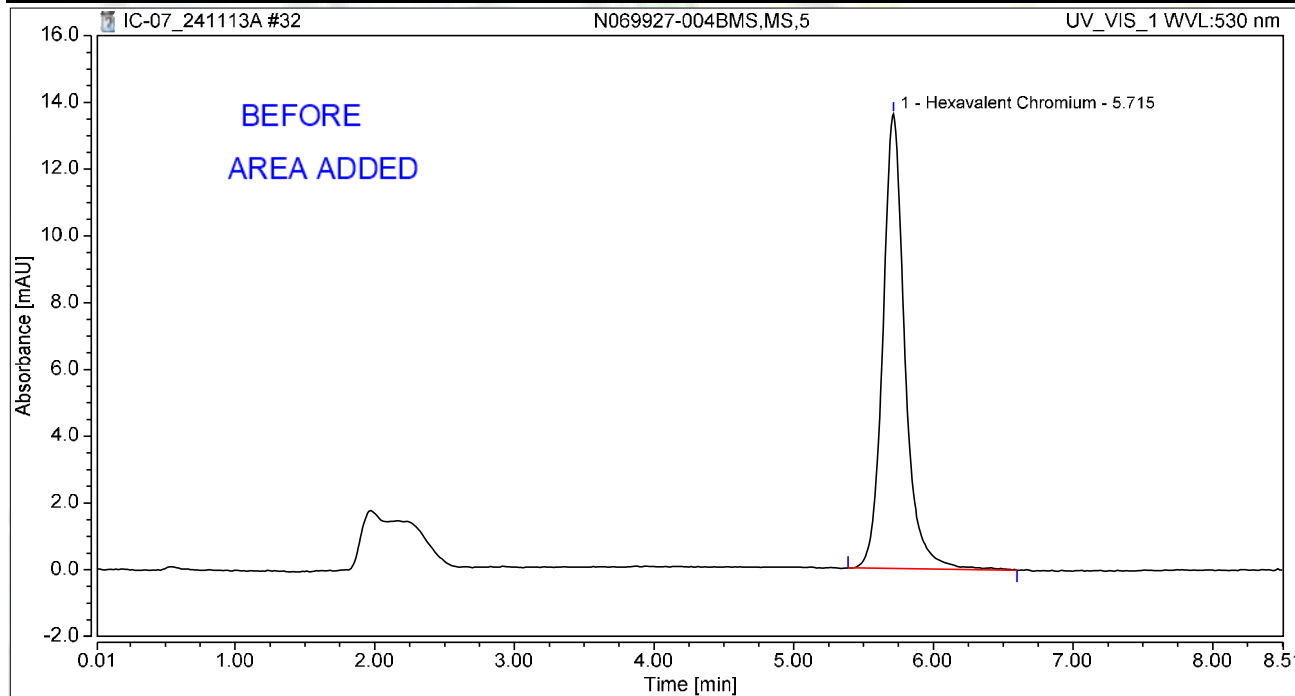
11/14/2024

Chromatogram and Results

Injection Details

Injection Name:	N069927-004BMS,MS,5	Run Time (min):	8.49
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 12:30	Sample Weight:	1.0000

Chromatogram



Integration Results

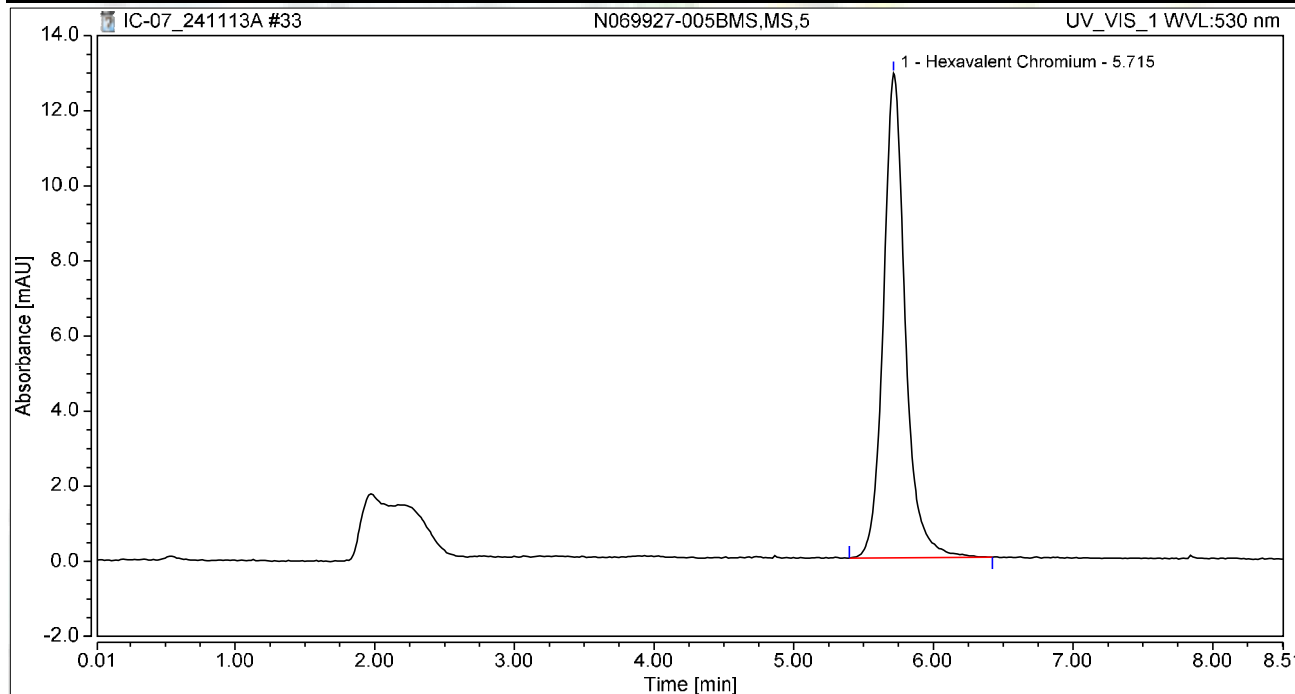
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.491	13.619	100.00	100.00	8.7771
Total:			2.491	13.619	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-005BMS,MS,5	Run Time (min):	8.49
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 12:39	Sample Weight:	1.0000

Chromatogram



Integration Results

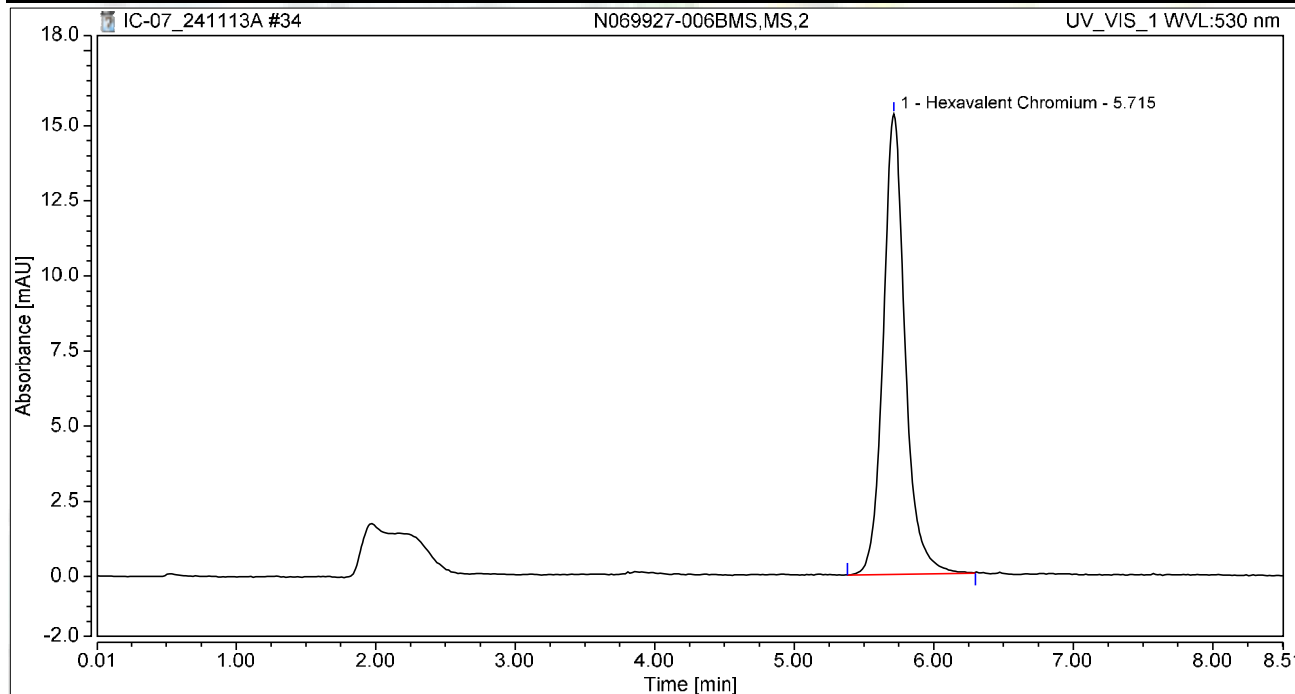
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.339	12.898	100.00	100.00	8.2415
Total:			2.339	12.898	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-006BMS,MS,2	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 12:49	Sample Weight:	1.0000

Chromatogram



Integration Results

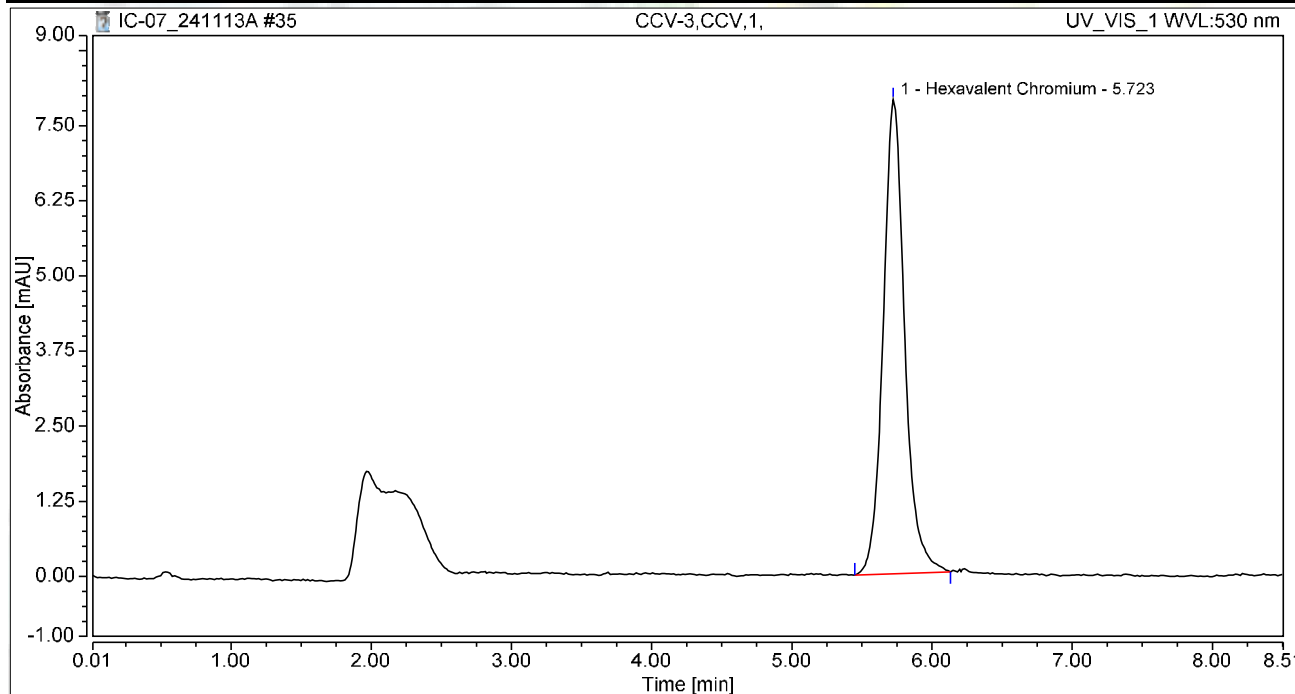
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.715	2.783	15.324	100.00	100.00	9.8069
Total:			2.783	15.324	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-3,CCV,1,	Run Time (min):	8.49
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 12:58	Sample Weight:	1.0000

Chromatogram



Integration Results

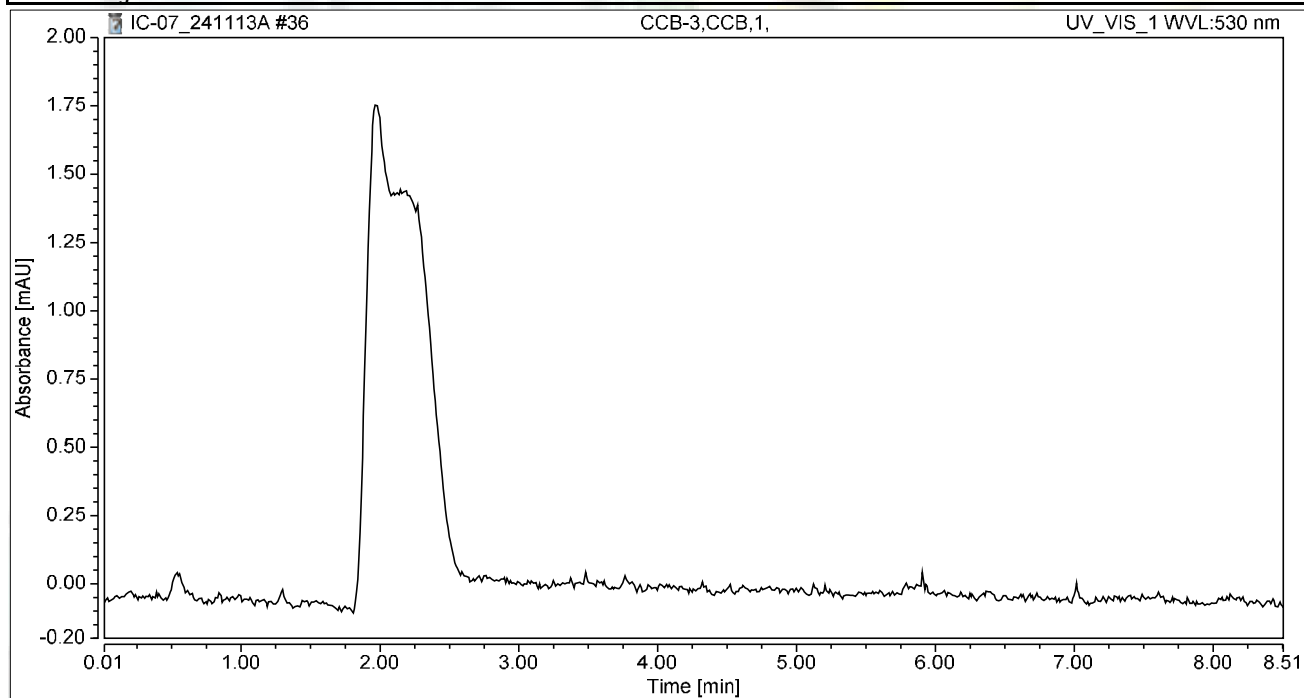
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	1.400	7.887	100.00	100.00	4.9350
Total:			1.400	7.887	100.00	100.00	

Chromatogram and Results

Injection Details

<i>Injection Name:</i>	CCB-3,CCB,1,	<i>Run Time (min):</i>	8.49
<i>Vial Number:</i>	28	<i>Injection Volume:</i>	1000.00
<i>Injection Type:</i>	Unknown	<i>Channel:</i>	UV_VIS_1
<i>Calibration Level:</i>		<i>Wavelength:</i>	530.0
<i>Instrument Method:</i>	Hex Chrom 4 mm	<i>Bandwidth:</i>	n.a.
<i>Processing Method:</i>	241028A_IC-07_Cr6_218_6_HIGH	<i>Dilution Factor:</i>	1.0000
<i>Injection Date/Time:</i>	13/Nov/24 13:08	<i>Sample Weight:</i>	1.0000

Chromatogram



Integration Results

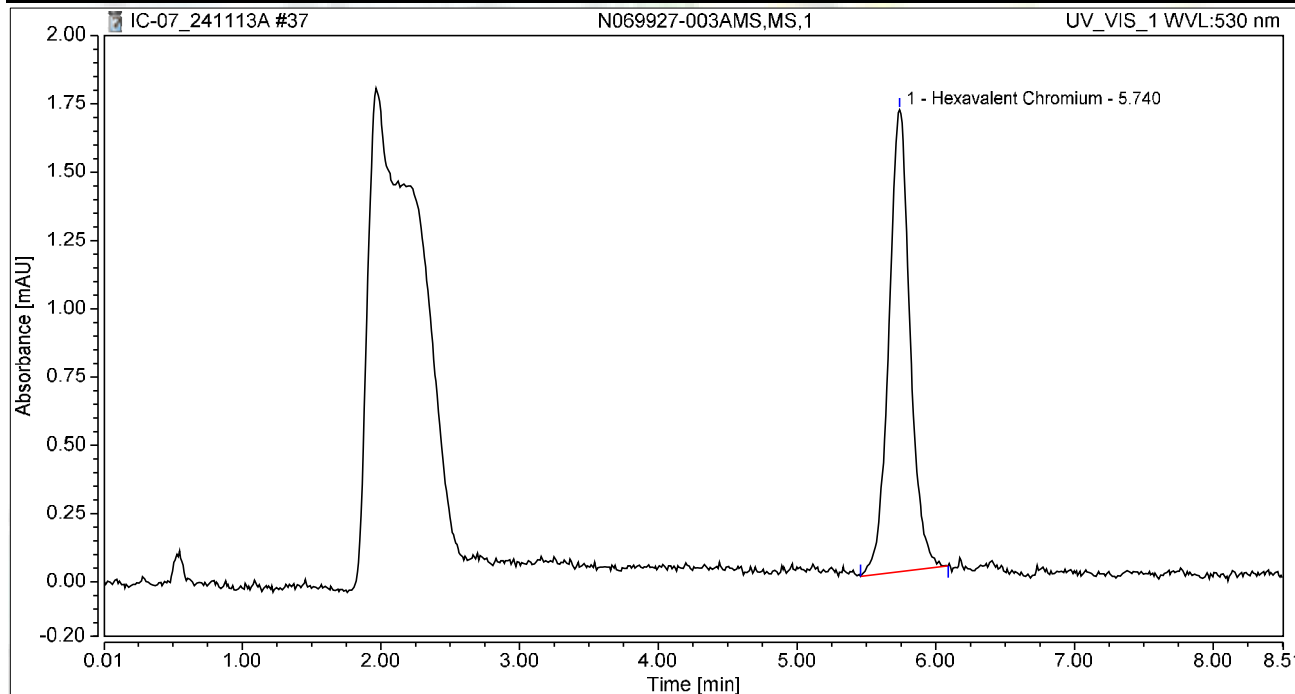
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069927-003AMS,MS,1	Run Time (min):	8.50
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 13:17	Sample Weight:	1.0000

Chromatogram



Integration Results

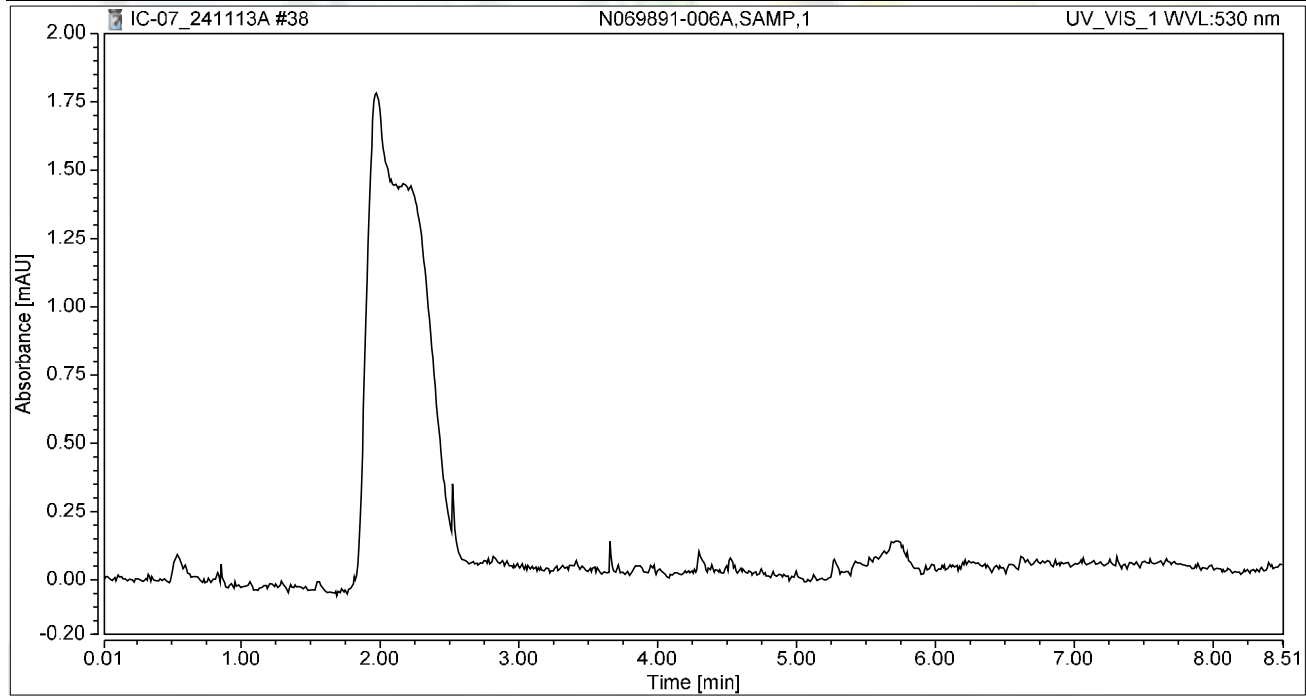
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	0.300	1.691	100.00	100.00	1.0562
Total:			0.300	1.691	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-006A,SAMP,1	Run Time (min):	8.49
Vial Number:	30	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 13:27	Sample Weight:	1.0000

Chromatogram



Integration Results

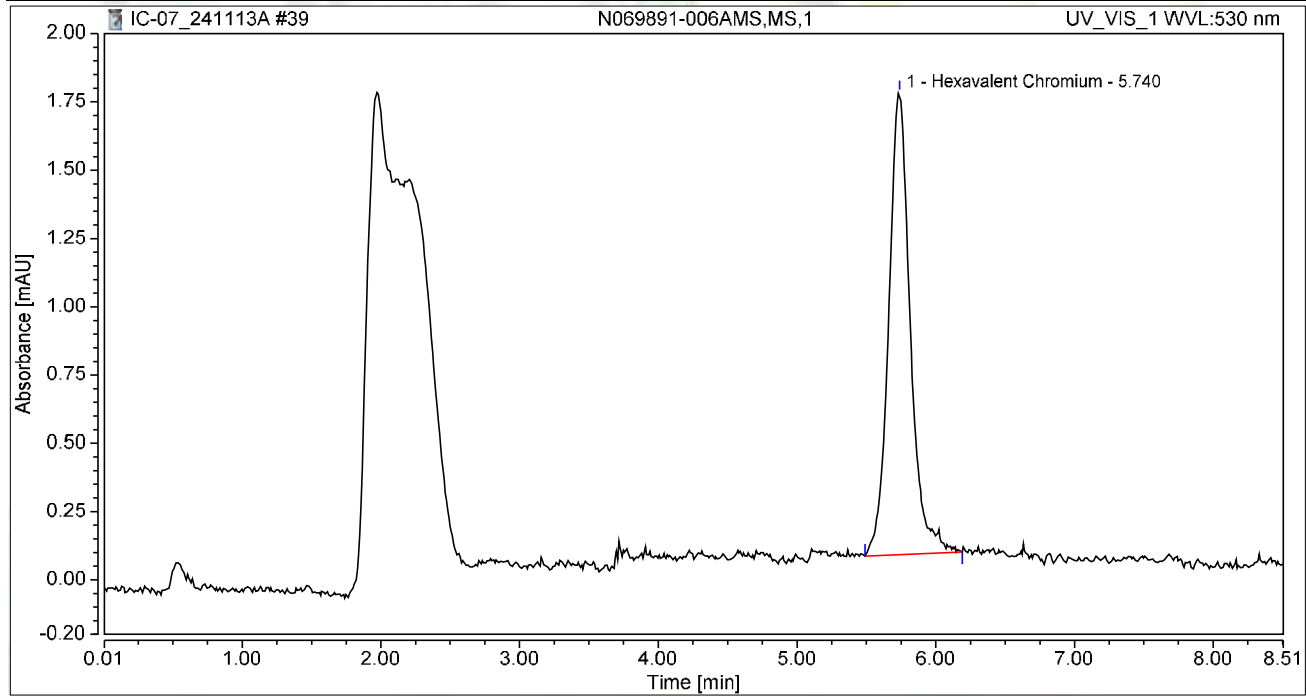
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-006AMS,MS,1	Run Time (min):	8.50
Vial Number:	31	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 13:36	Sample Weight:	1.0000

Chromatogram



Integration Results

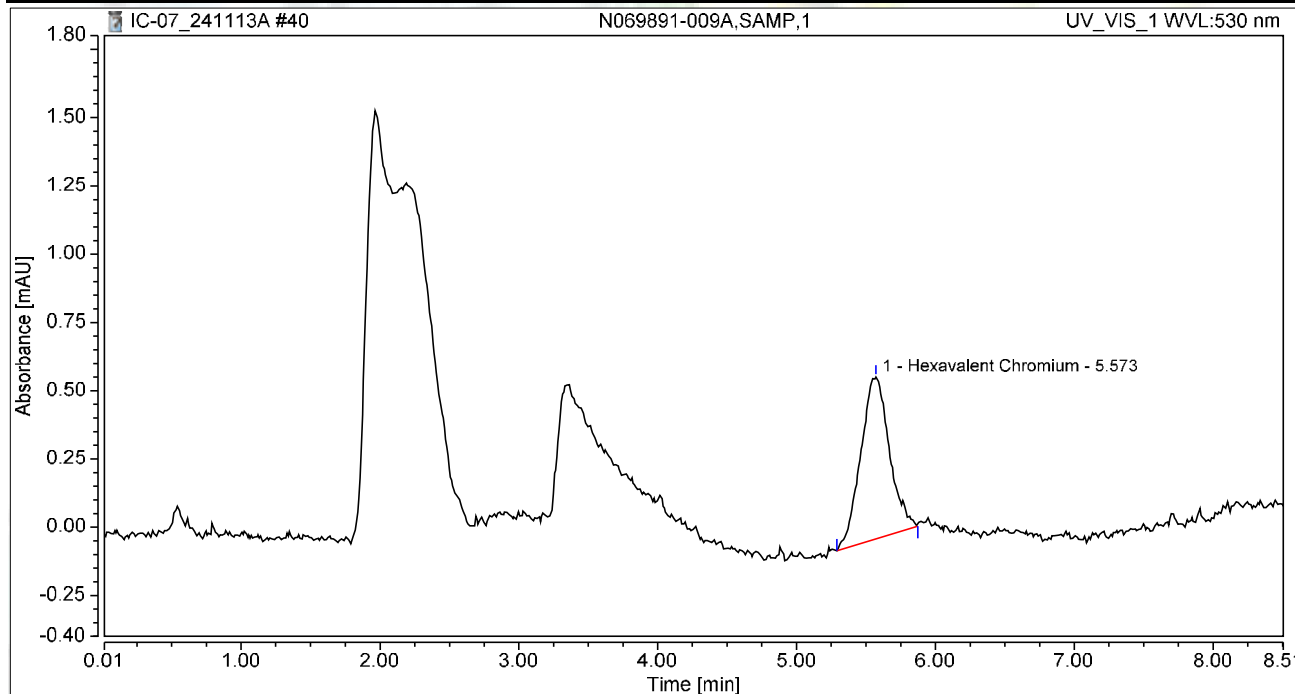
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	0.304	1.692	100.00	100.00	1.0712
Total:			0.304	1.692	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-009A,SAMP,1	Run Time (min):	8.49
Vial Number:	32	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 13:46	Sample Weight:	1.0000

Chromatogram



Integration Results

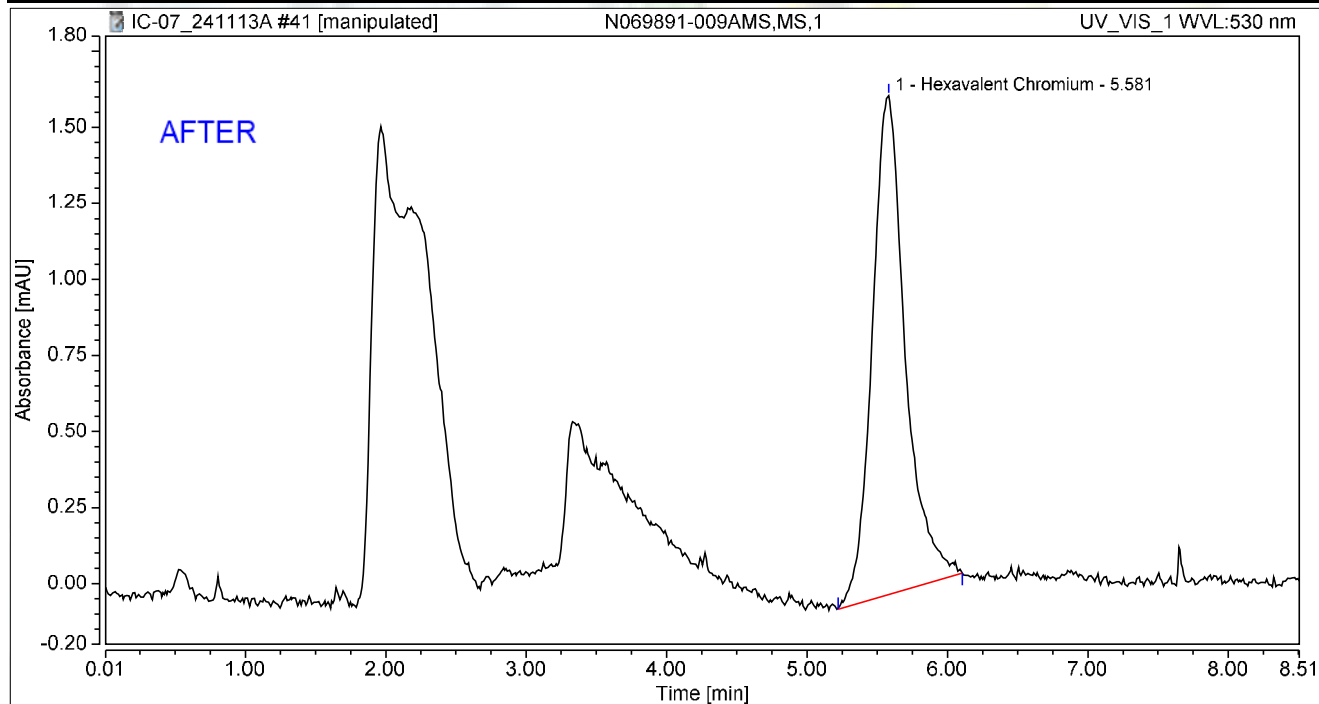
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.573	0.142	0.593	100.00	100.00	0.5013
Total:			0.142	0.593	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-009AMS,MS,1	Run Time (min):	8.50
Vial Number:	33	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 13:55	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.581	0.448	1.640	100.00	100.00	1.5803
Total:			0.448	1.640	100.00	100.00	

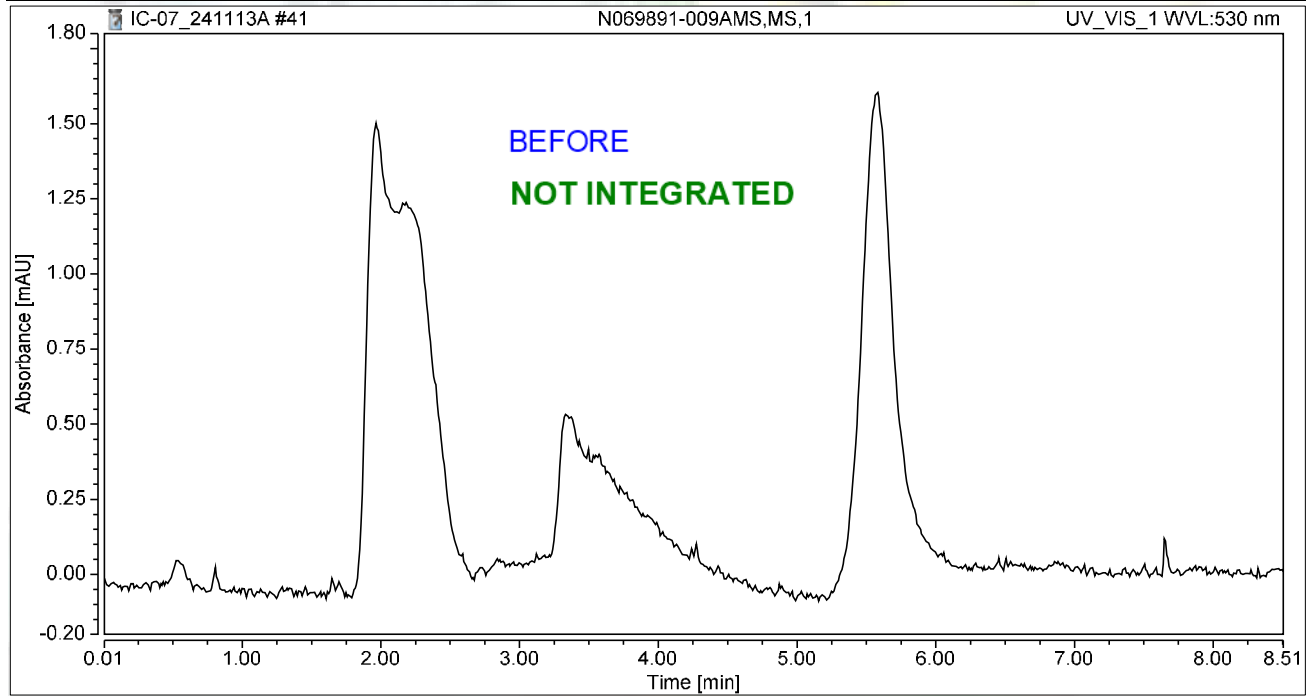
Reviewed by
 11/14/2024

Chromatogram and Results

Injection Details

Injection Name:	N069891-009AMS,MS,1	Run Time (min):	8.50
Vial Number:	33	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 13:55	Sample Weight:	1.0000

Chromatogram



Integration Results

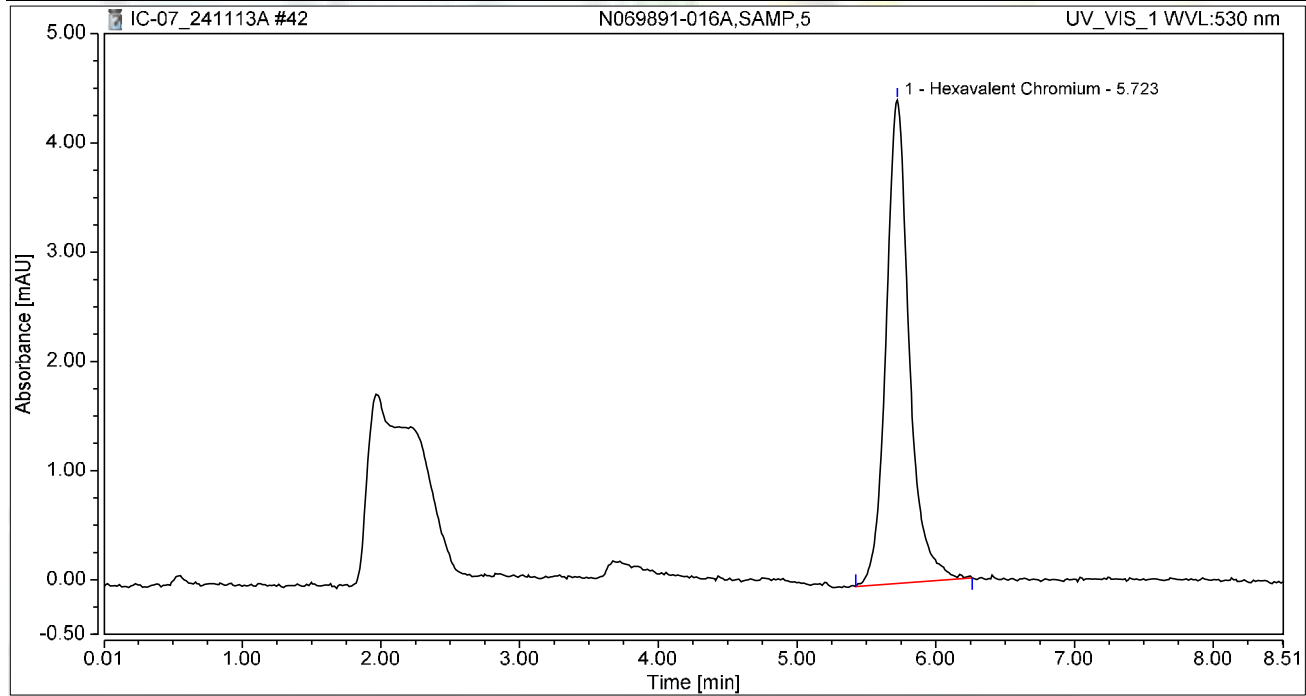
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-016A,SAMP,5	Run Time (min):	8.50
Vial Number:	34	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 14:05	Sample Weight:	1.0000

Chromatogram



Integration Results

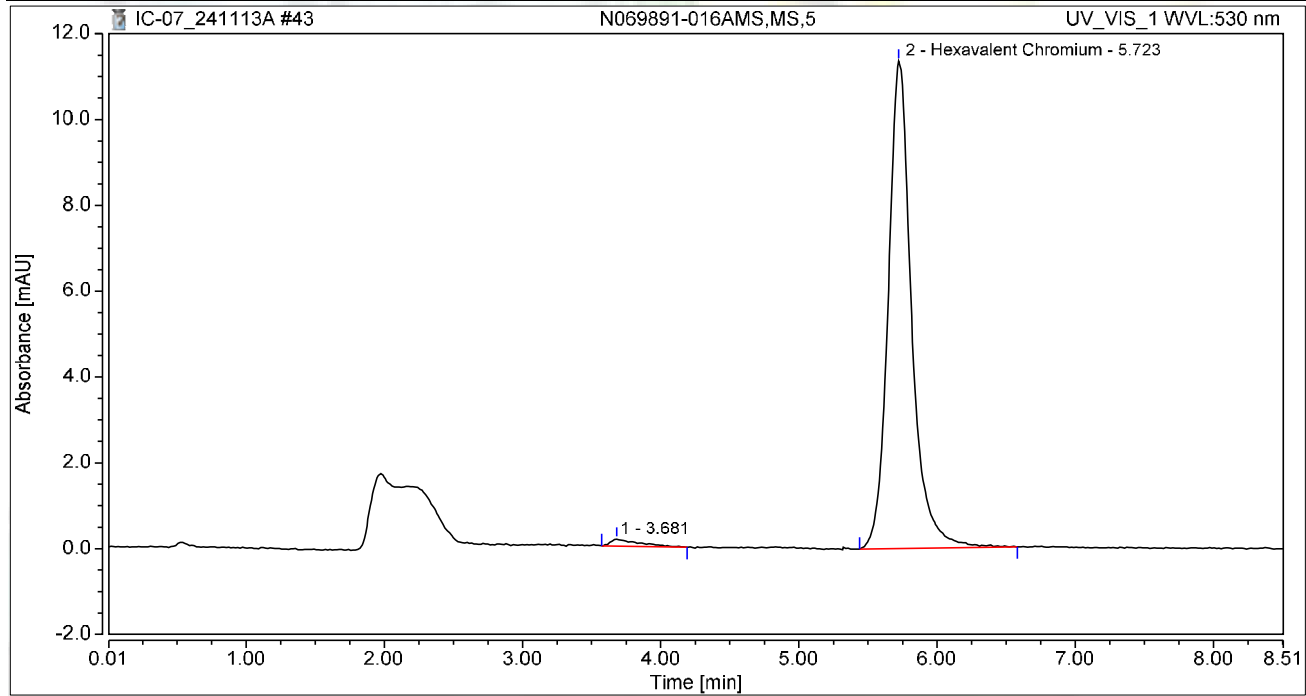
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.723	0.856	4.425	100.00	100.00	3.0182
Total:			0.856	4.425	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-016AMS,MS,5	Run Time (min):	8.50
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 14:14	Sample Weight:	1.0000

Chromatogram



Integration Results

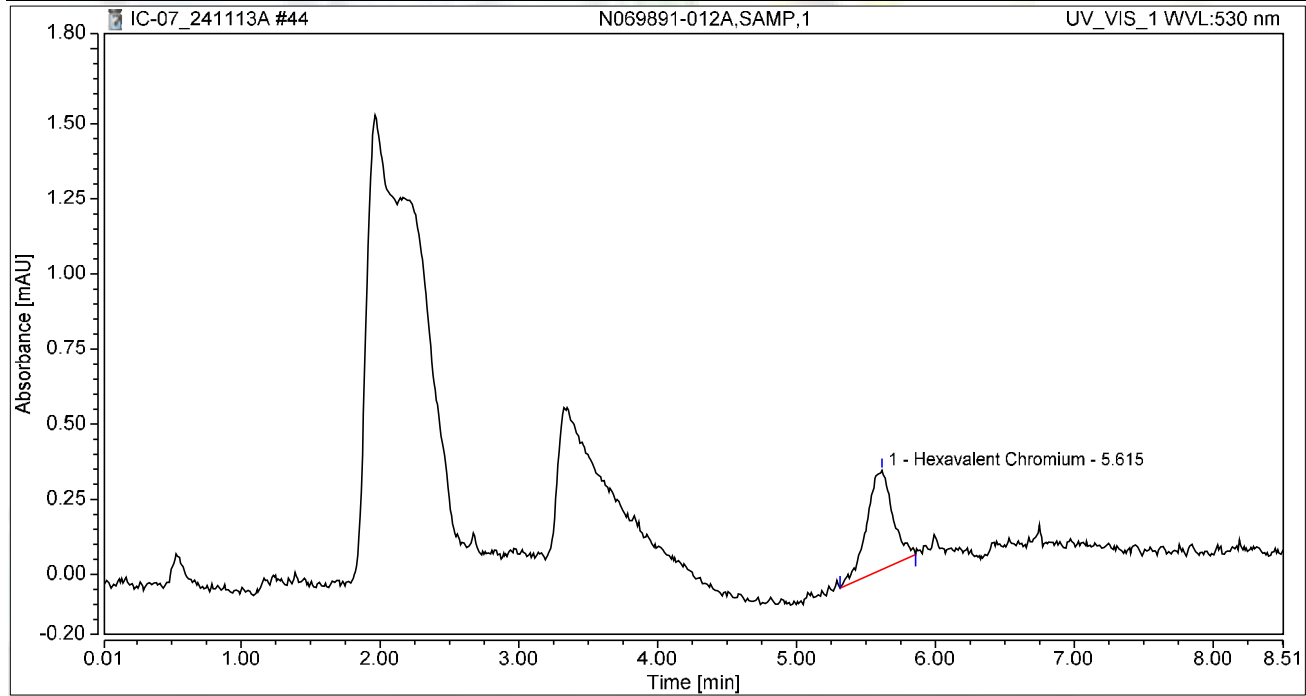
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.681	0.042	0.158	1.83	1.38	n.a.
2	Hexavalent Chromium	5.723	2.230	11.359	98.17	98.62	7.8579
Total:			2.271	11.517	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-012A,SAMP,1	Run Time (min):	8.49
Vial Number:	36	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 14:23	Sample Weight:	1.0000

Chromatogram



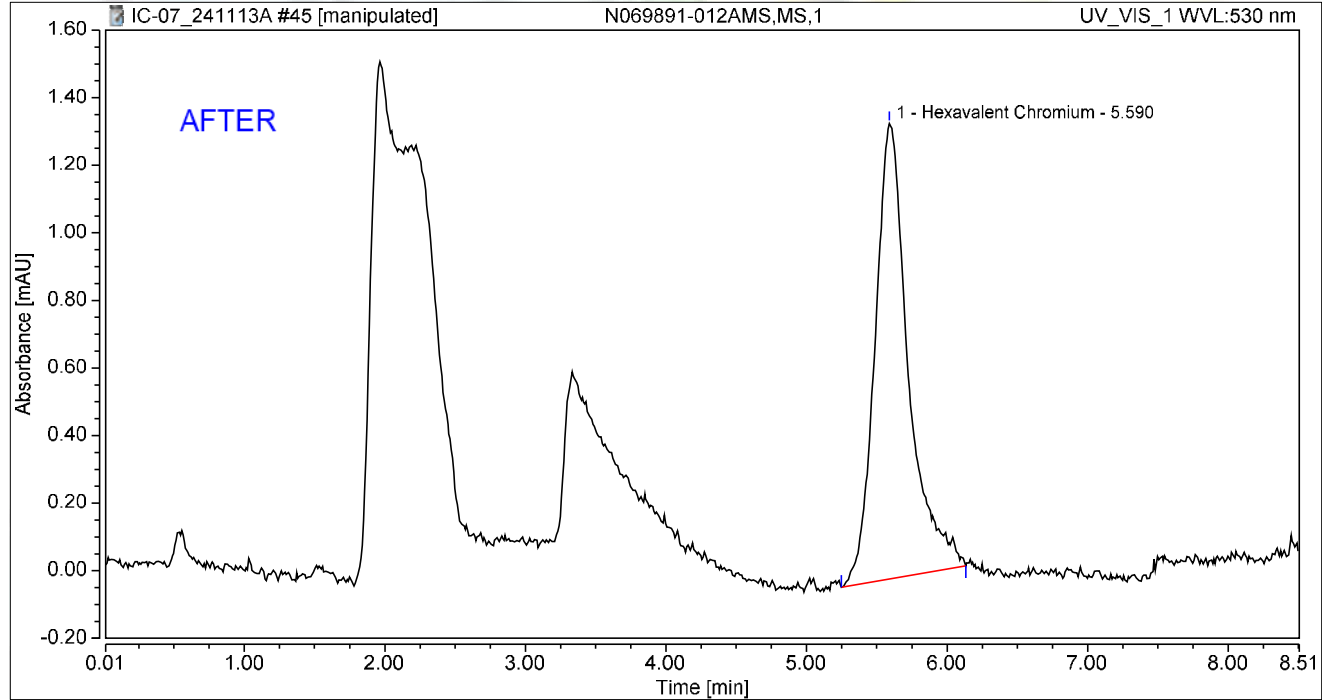
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.615	0.072	0.329	100.00	100.00	0.2536
Total:			0.072	0.329	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069891-012AMS,MS,1	Run Time (min): 8.49
Vial Number:	37	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	13/Nov/24 14:33	Sample Weight: 1.0000

Chromatogram



Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.590	0.370	1.349	100.00	100.00	1.3039
Total:			0.370	1.349	100.00	100.00	

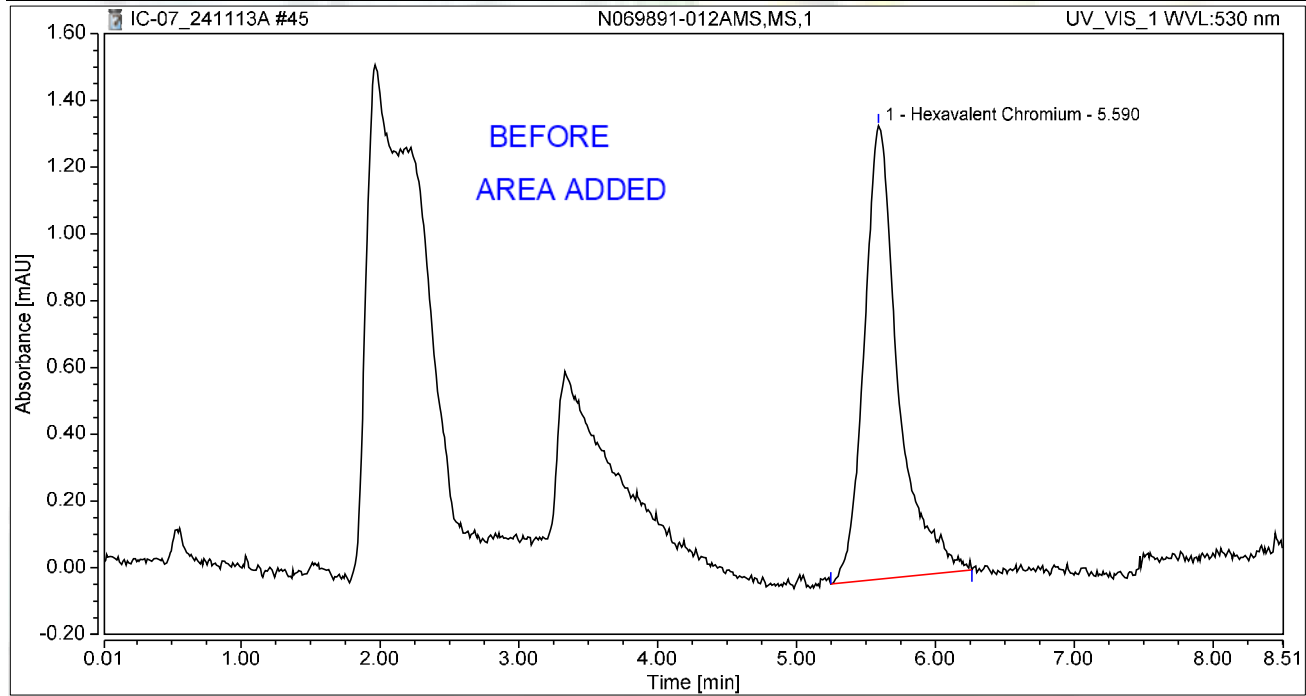
Reviewed by
 11/14/2024

Chromatogram and Results

Injection Details

Injection Name:	N069891-012AMS,MS,1	Run Time (min):	8.49
Vial Number:	37	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 14:33	Sample Weight:	1.0000

Chromatogram



Integration Results

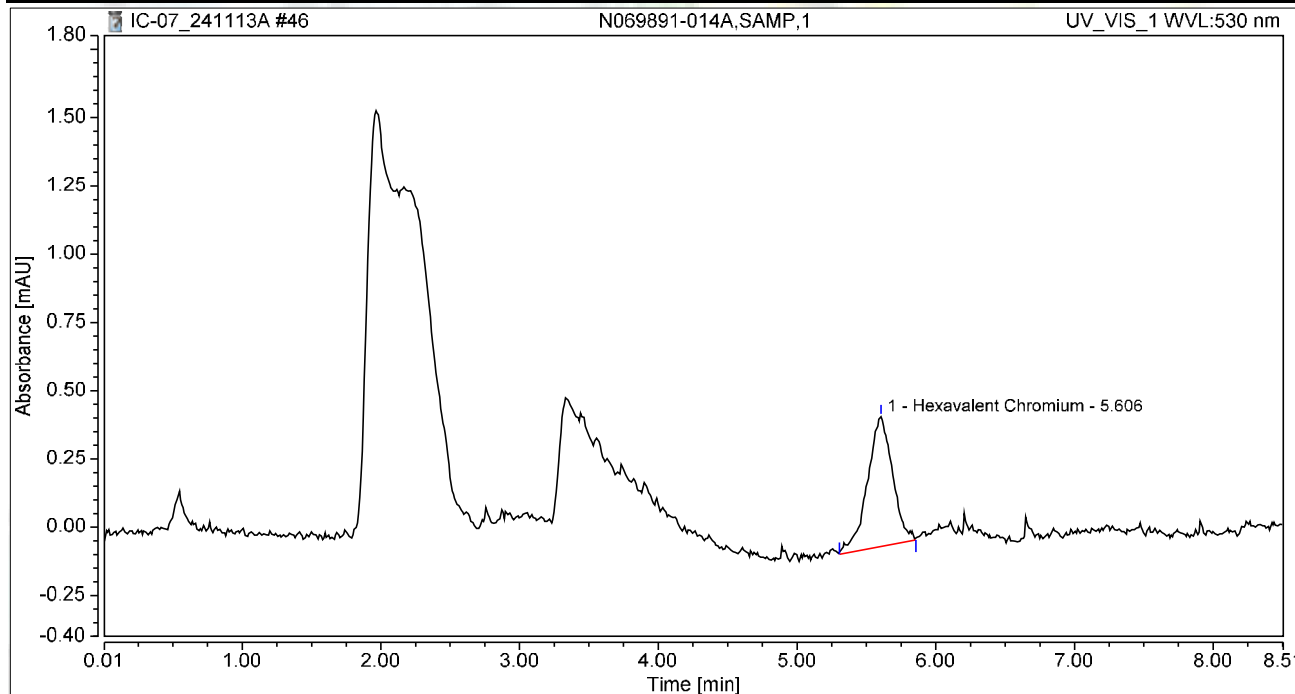
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.590	0.384	1.359	100.00	100.00	1.3548
Total:			0.384	1.359	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-014A,SAMP,1	Run Time (min):	8.50
Vial Number:	38	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 14:42	Sample Weight:	1.0000

Chromatogram



Integration Results

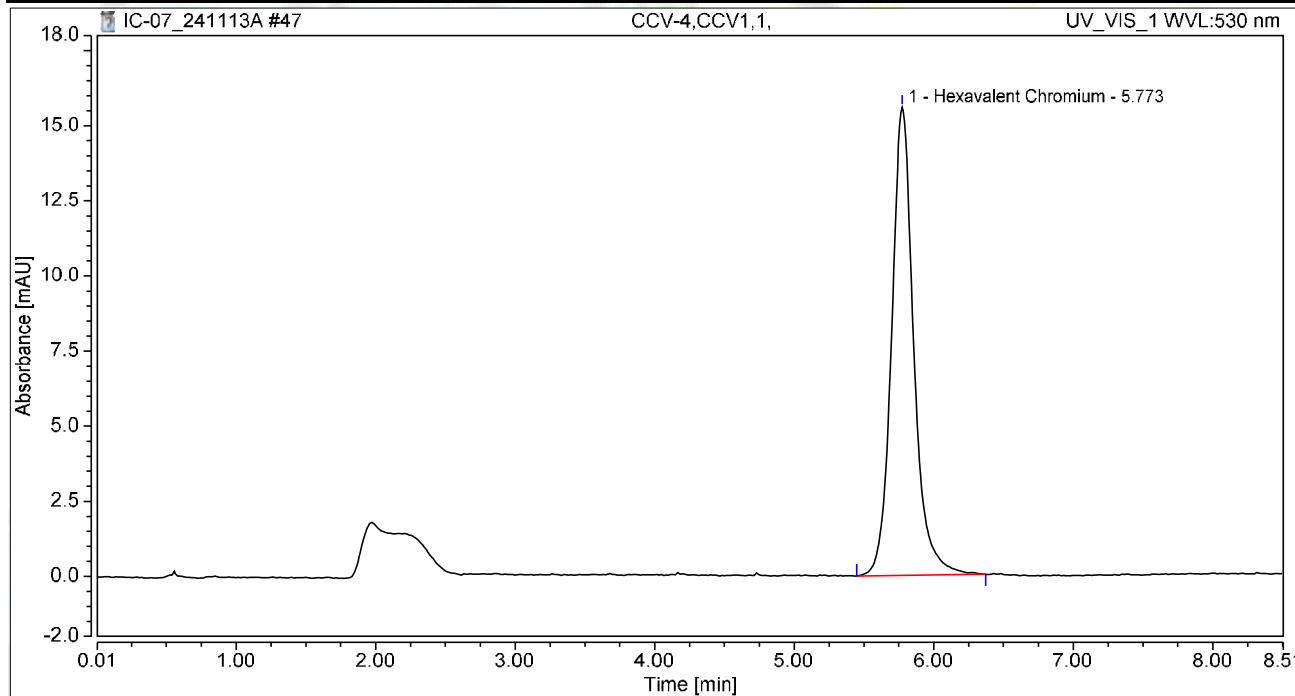
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.606	0.099	0.475	100.00	100.00	0.3505
Total:			0.099	0.475	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-4,CCV1,1,	Run Time (min):	8.50
Vial Number:	39	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 14:52	Sample Weight:	1.0000

Chromatogram



Integration Results

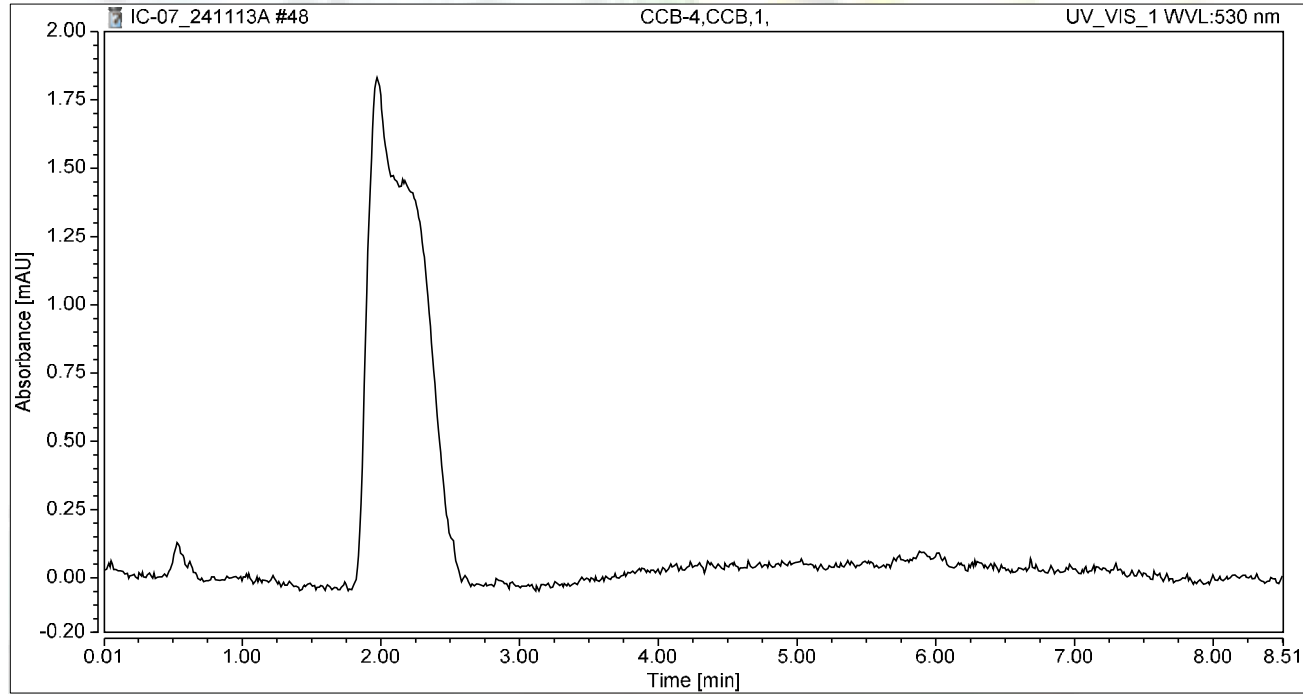
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.773	2.855	15.581	100.00	100.00	10.0600
Total:			2.855	15.581	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-4,CCB,1,	Run Time (min):	8.50
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 15:01	Sample Weight:	1.0000

Chromatogram



Integration Results

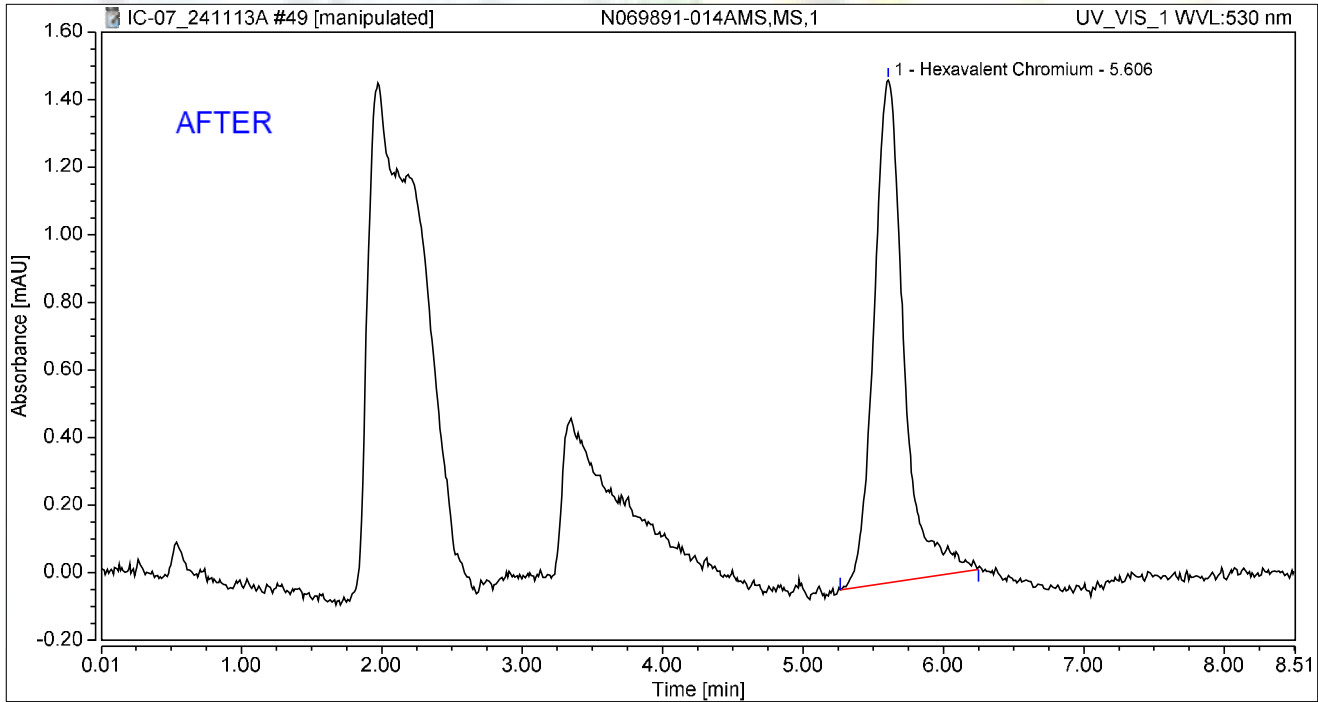
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-014AMS,MS,1	Run Time (min):	8.50
Vial Number:	41	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 15:11	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.606	0.368	1.488	100.00	100.00	1.2974
Total:			0.368	1.488	100.00	100.00	

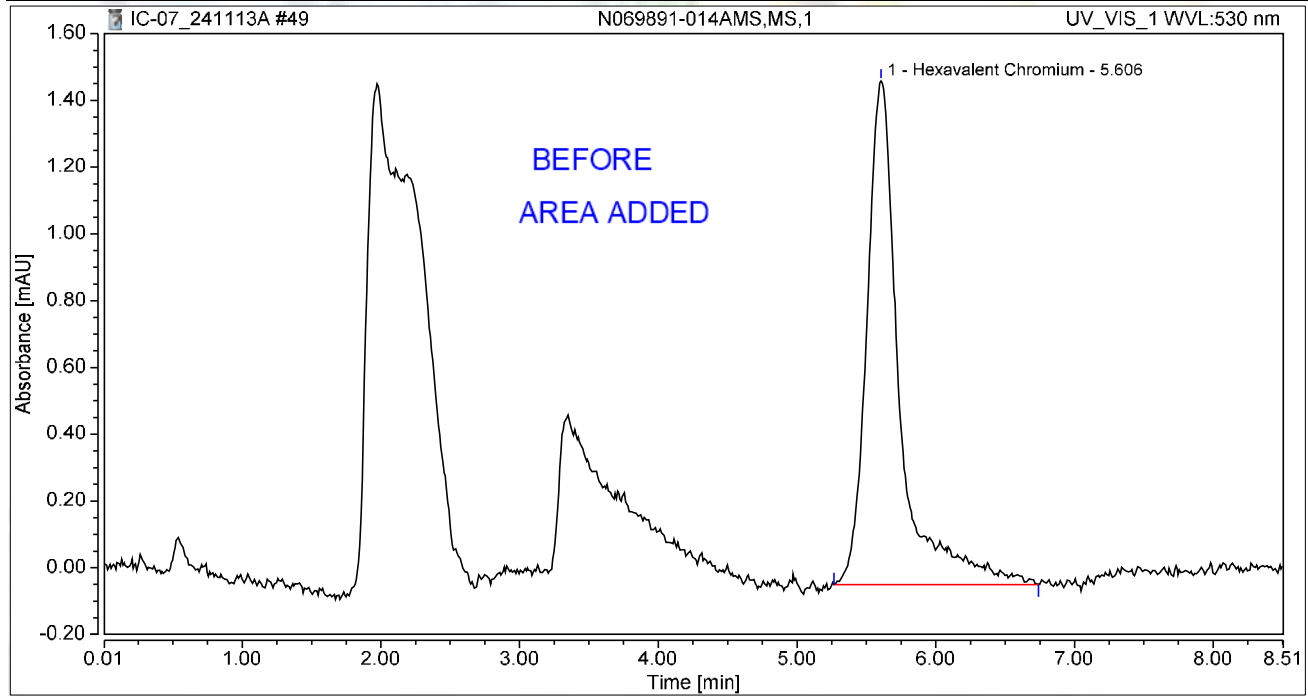
Reviewed by
 11/14/2024

Chromatogram and Results

Injection Details

Injection Name:	N069891-014AMS,MS,1	Run Time (min):	8.50
Vial Number:	41	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 15:11	Sample Weight:	1.0000

Chromatogram



Integration Results

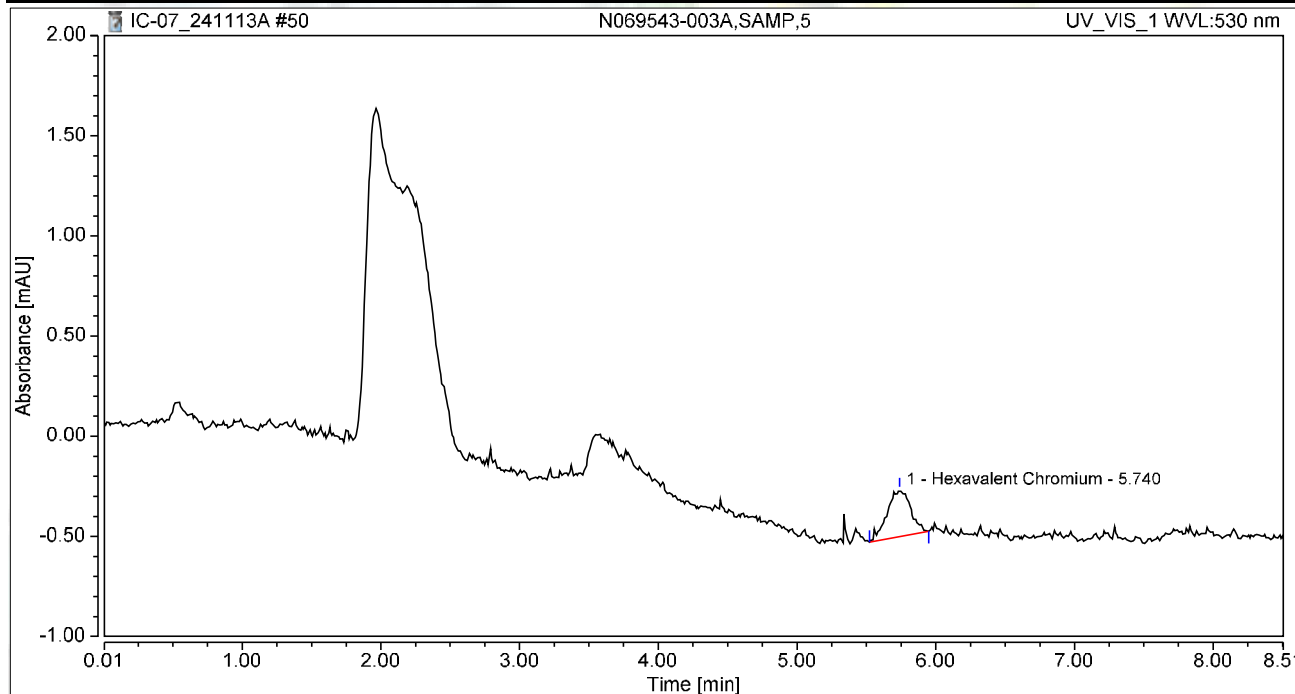
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.606	0.414	1.509	100.00	100.00	1.4601
Total:			0.414	1.509	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-003A,SAMP,5	Run Time (min):	8.50
Vial Number:	1	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 15:36	Sample Weight:	1.0000

Chromatogram



Integration Results

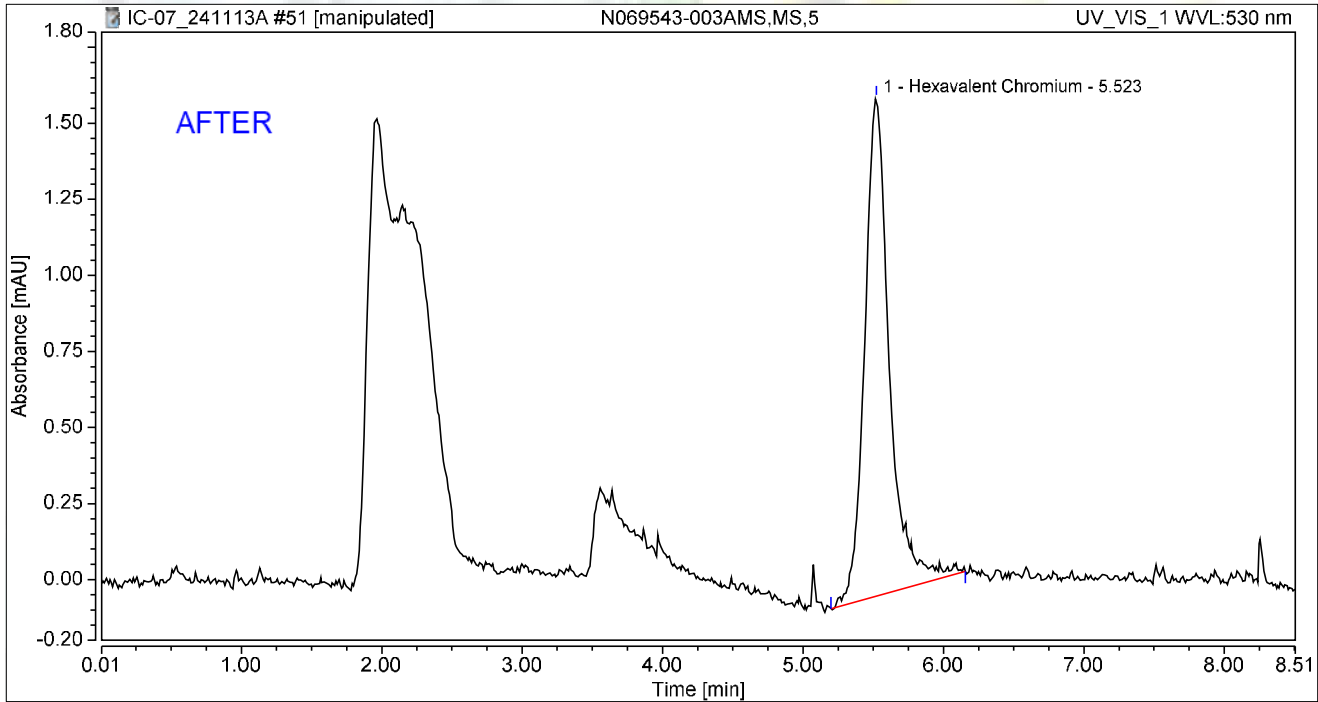
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.740	0.046	0.234	100.00	100.00	0.1617
Total:			0.046	0.234	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069543-003AMS,MS,5	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 15:48	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.523	0.336	1.638	100.00	100.00	1.1827
Total:			0.336	1.638	100.00	100.00	

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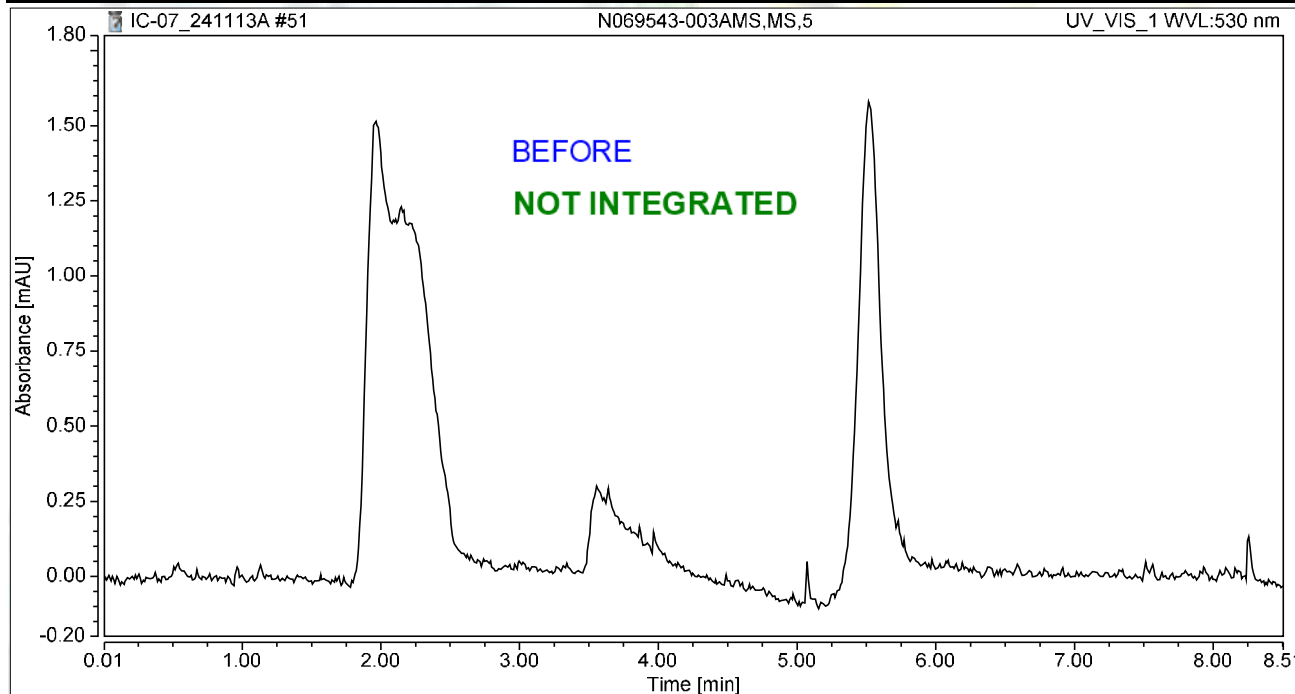
Nancy 11/14/2024

Chromatogram and Results

Injection Details

Injection Name:	N069543-003AMS,MS,5	Run Time (min):	8.50
Vial Number:	2	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 15:48	Sample Weight:	1.0000

Chromatogram



Integration Results

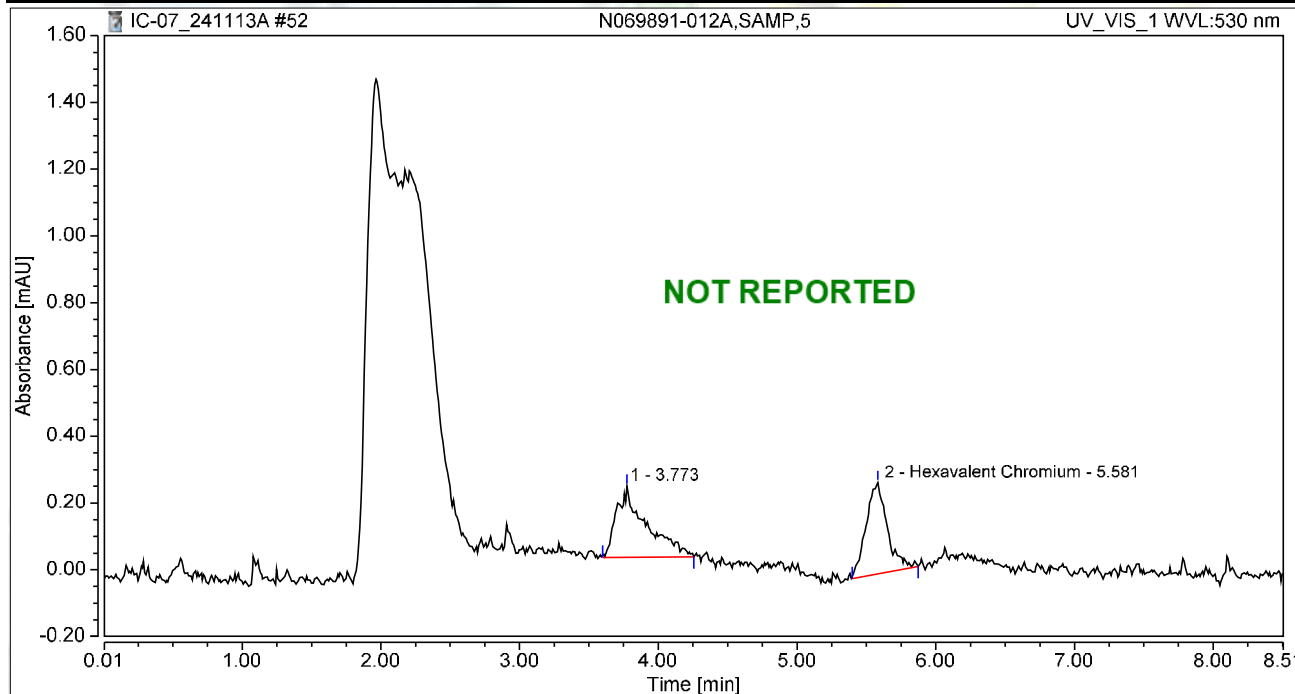
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-012A,SAMP,5	Run Time (min):	8.50
Vial Number:	3	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 15:58	Sample Weight:	1.0000

Chromatogram



Integration Results

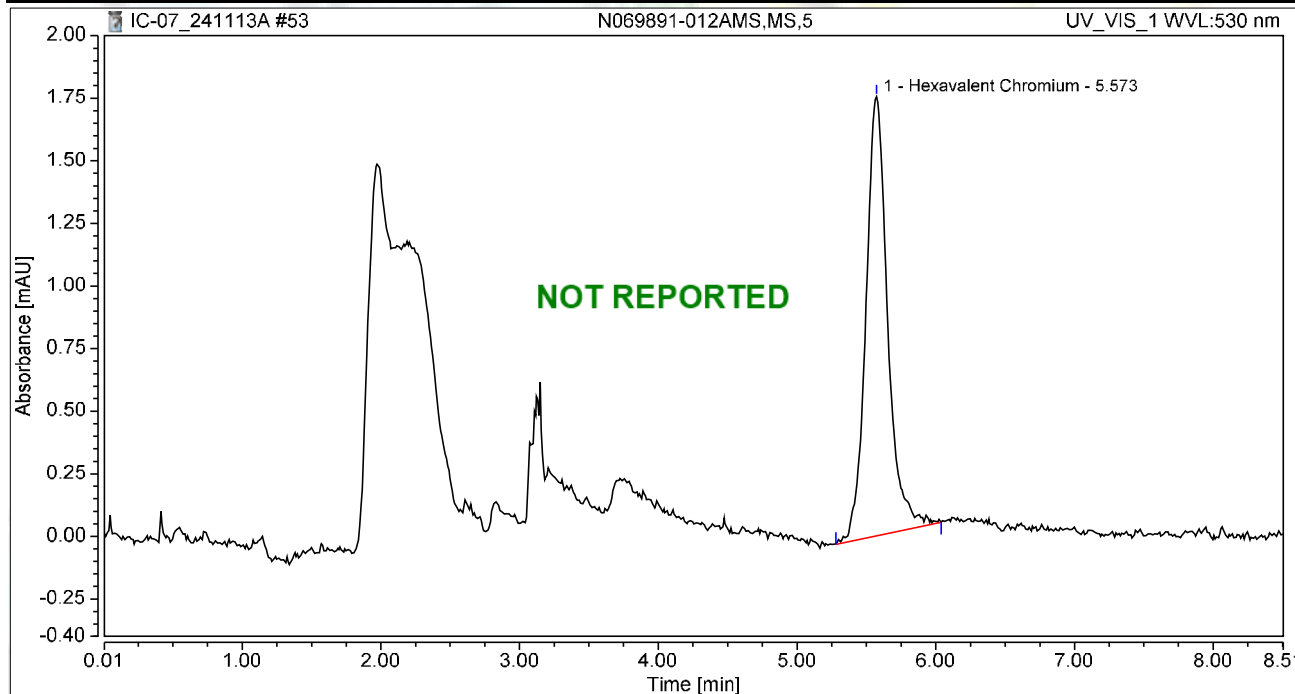
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.773	0.053	0.213	52.12	43.80	n.a.
2	Hexavalent Chromium	5.581	0.048	0.273	47.88	56.20	0.1709
Total:			0.101	0.486	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-012AMS,MS,5	Run Time (min):	8.50
Vial Number:	4	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 16:07	Sample Weight:	1.0000

Chromatogram



Integration Results

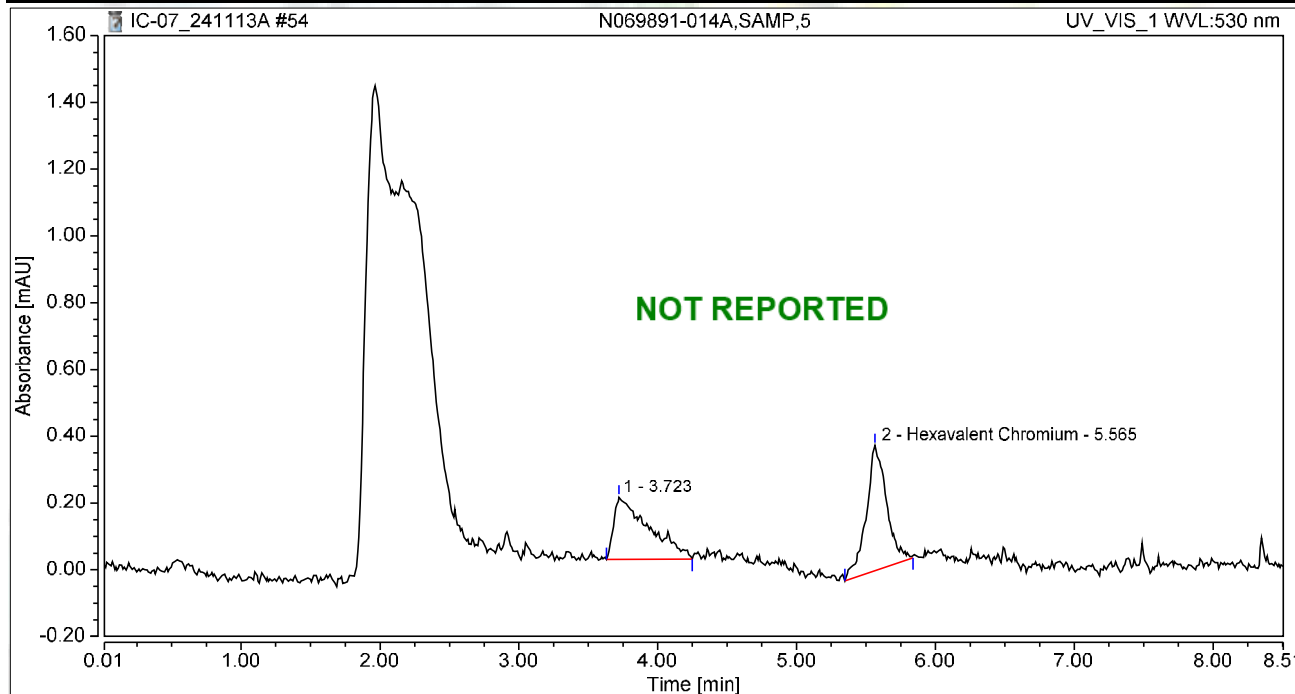
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.573	0.318	1.753	100.00	100.00	1.1210
Total:			0.318	1.753	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-014A,SAMP,5	Run Time (min):	8.49
Vial Number:	5	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 16:16	Sample Weight:	1.0000

Chromatogram



Integration Results

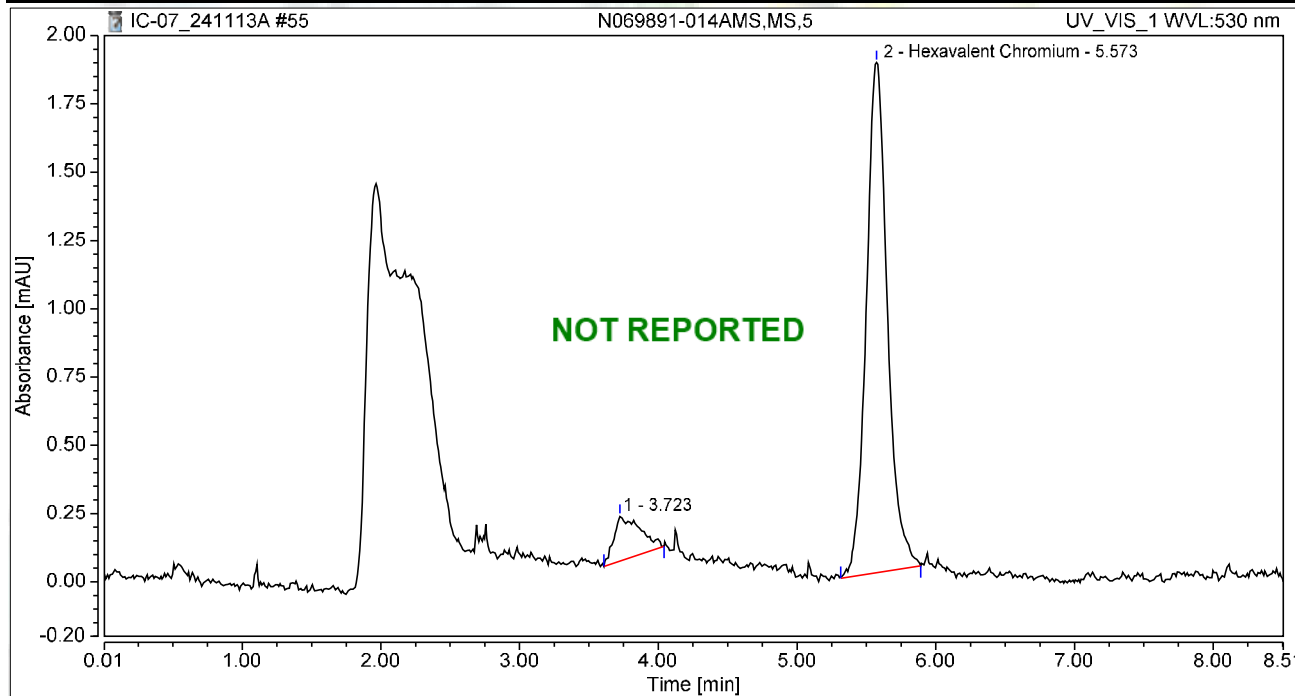
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.723	0.054	0.187	46.16	33.24	n.a.
2	Hexavalent Chromium	5.565	0.063	0.375	53.84	66.76	0.2230
Total:			0.118	0.562	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-014AMS,MS,5	Run Time (min):	8.50
Vial Number:	6	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 16:26	Sample Weight:	1.0000

Chromatogram



Integration Results

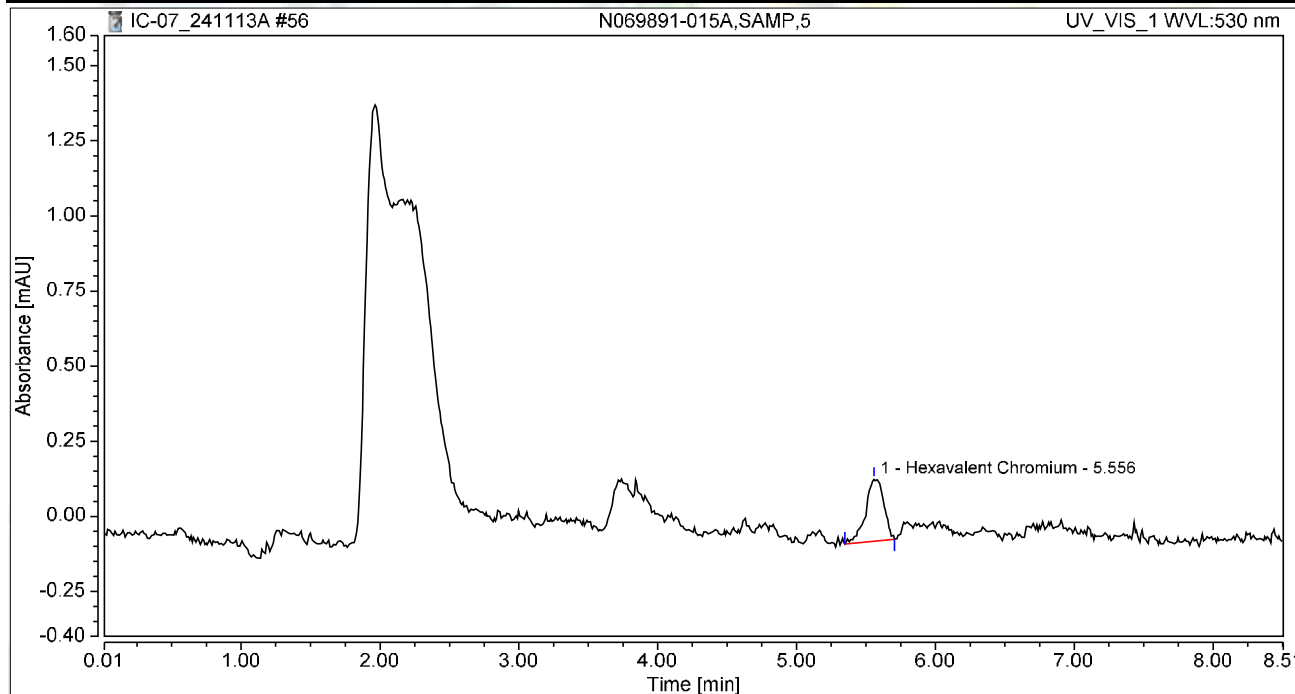
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.723	0.035	0.163	9.63	8.04	n.a.
2	Hexavalent Chromium	5.573	0.330	1.868	90.37	91.96	1.1643
Total:			0.366	2.031	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-015A,SAMP,5	Run Time (min):	8.49
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 16:35	Sample Weight:	1.0000

Chromatogram



Integration Results

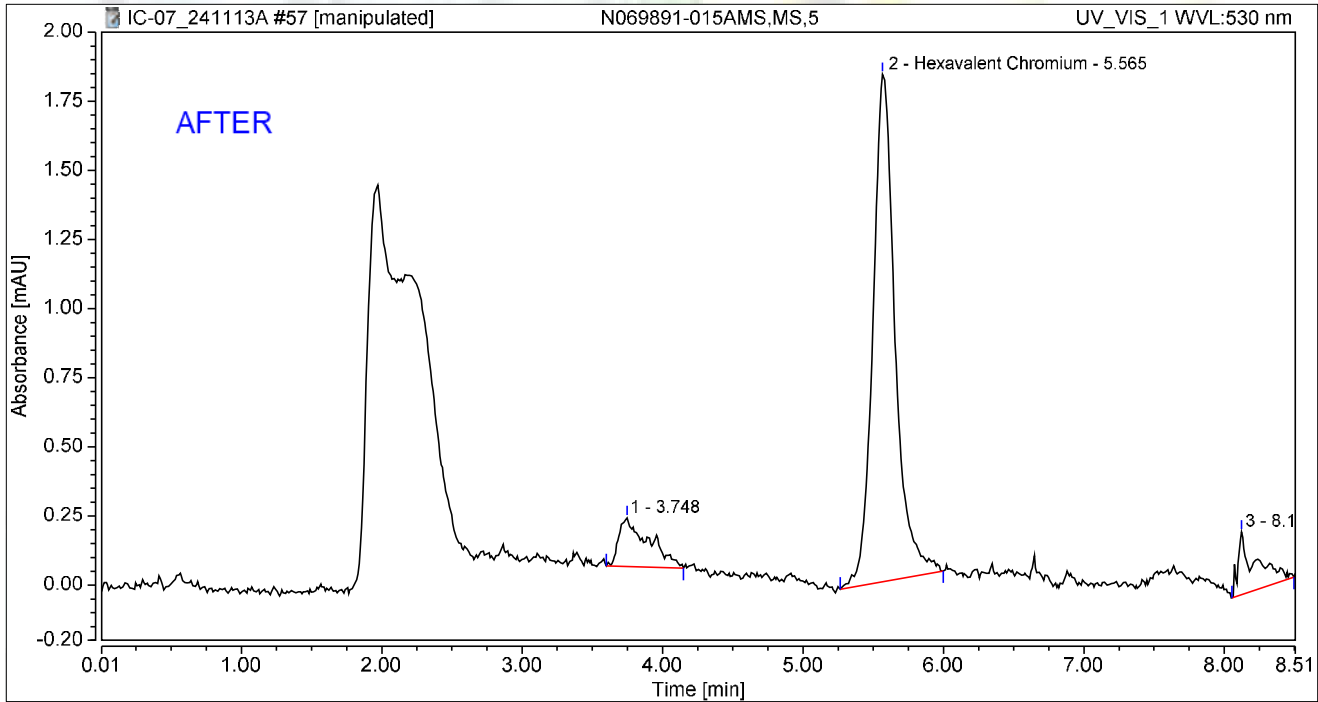
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.556	0.031	0.206	100.00	100.00	0.1096
Total:			0.031	0.206	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-015AMS,MS,5	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 16:45	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.748	0.043	0.176	10.50	7.87	n.a.
2	Hexavalent Chromium	5.565	0.336	1.836	81.37	82.02	1.1838
3		8.123	0.034	0.226	8.13	10.11	n.a.
Total:			0.413	2.238	100.00	100.00	

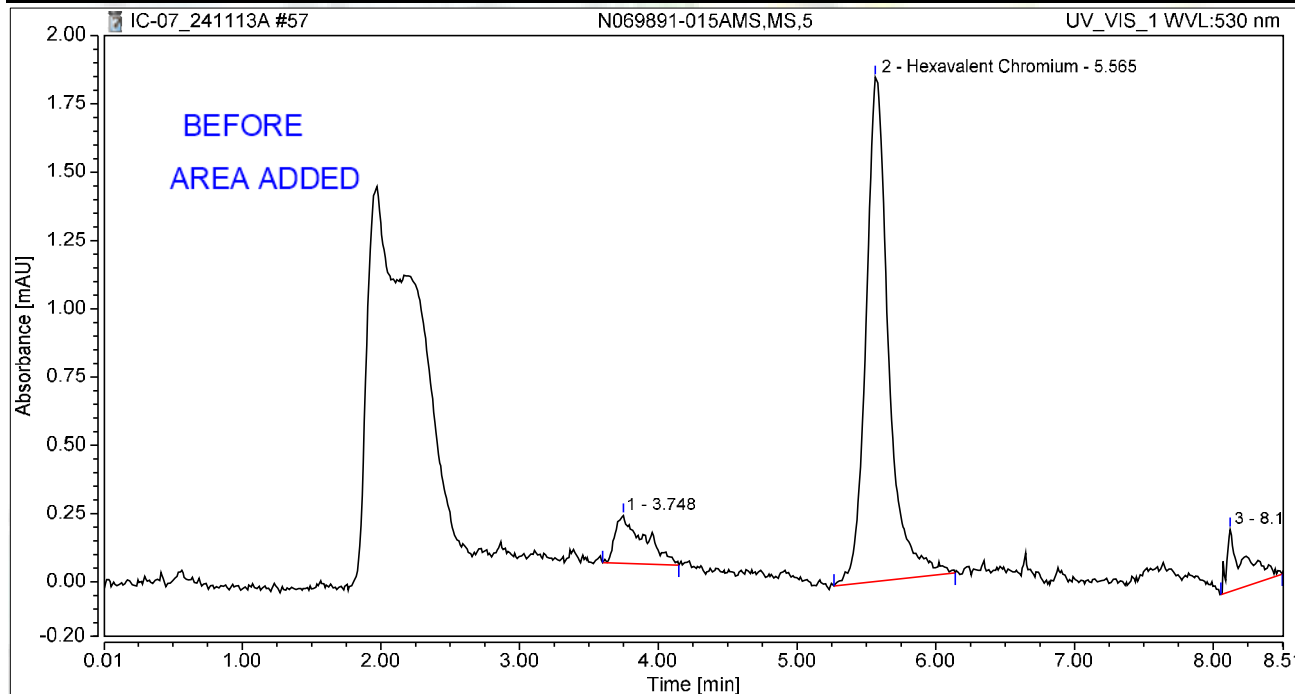
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 11/14/2024

Chromatogram and Results

Injection Details

Injection Name:	N069891-015AMS,MS,5	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 16:45	Sample Weight:	1.0000

Chromatogram



Integration Results

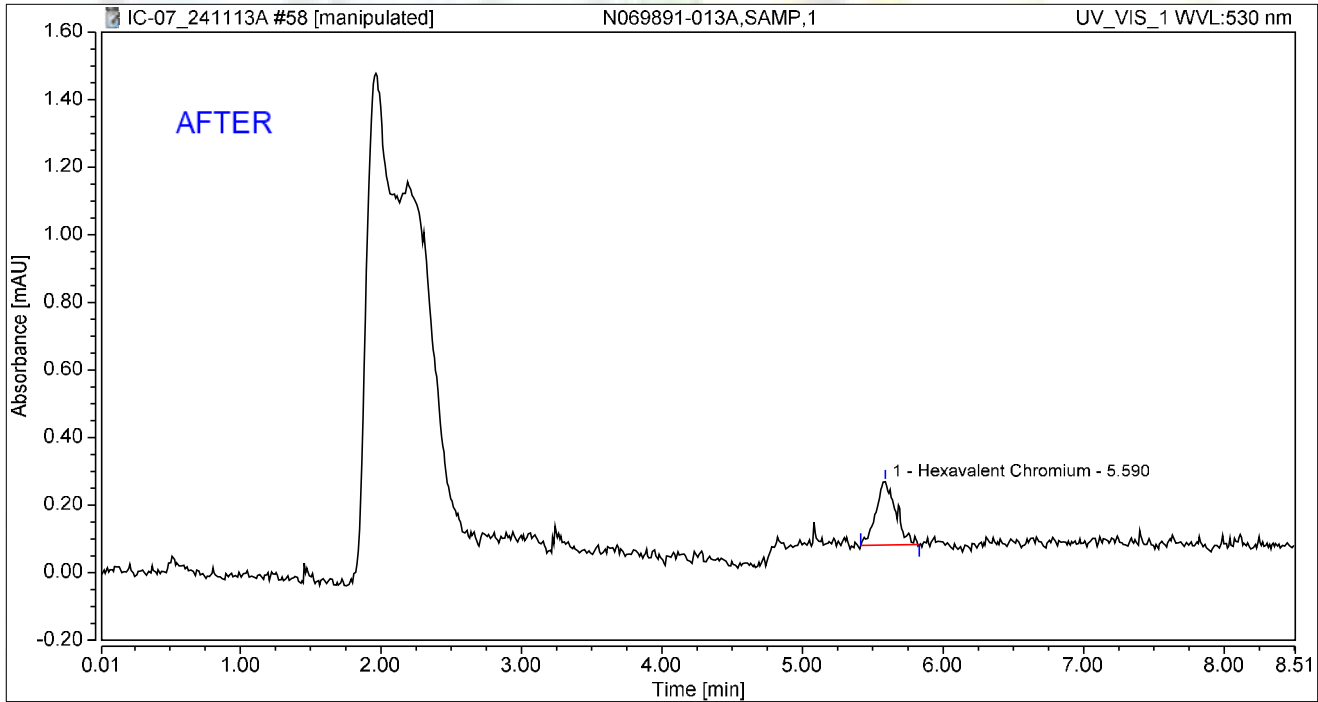
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.748	0.043	0.176	10.18	7.83	n.a.
2	Hexavalent Chromium	5.565	0.349	1.846	81.94	82.11	1.2294
3		8.123	0.034	0.226	7.88	10.06	n.a.
Total:			0.426	2.249	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-013A,SAMP,1	Run Time (min):	8.49
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 16:54	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.590	0.031	0.187	100.00	100.00	0.1100
Total:			0.031	0.187	100.00	100.00	

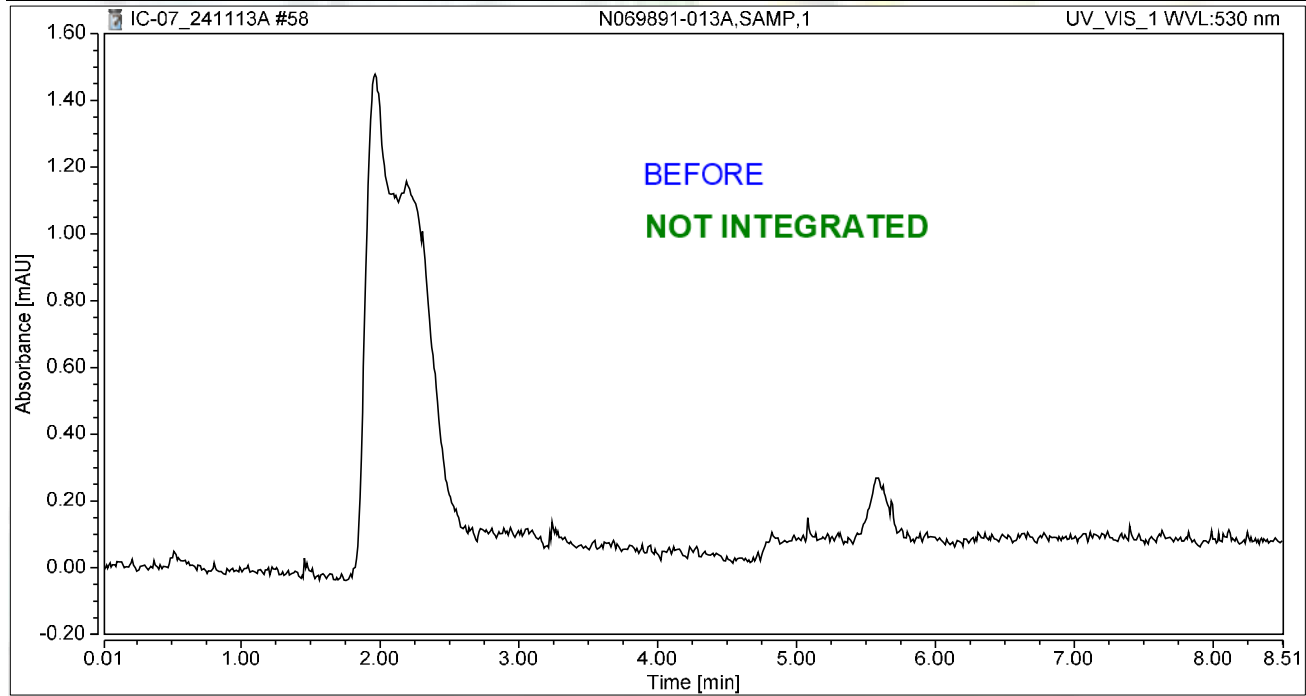
Reviewed by
 11/14/2024

Chromatogram and Results

Injection Details

Injection Name:	N069891-013A,SAMP,1	Run Time (min):	8.49
Vial Number:	9	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 16:54	Sample Weight:	1.0000

Chromatogram



Integration Results

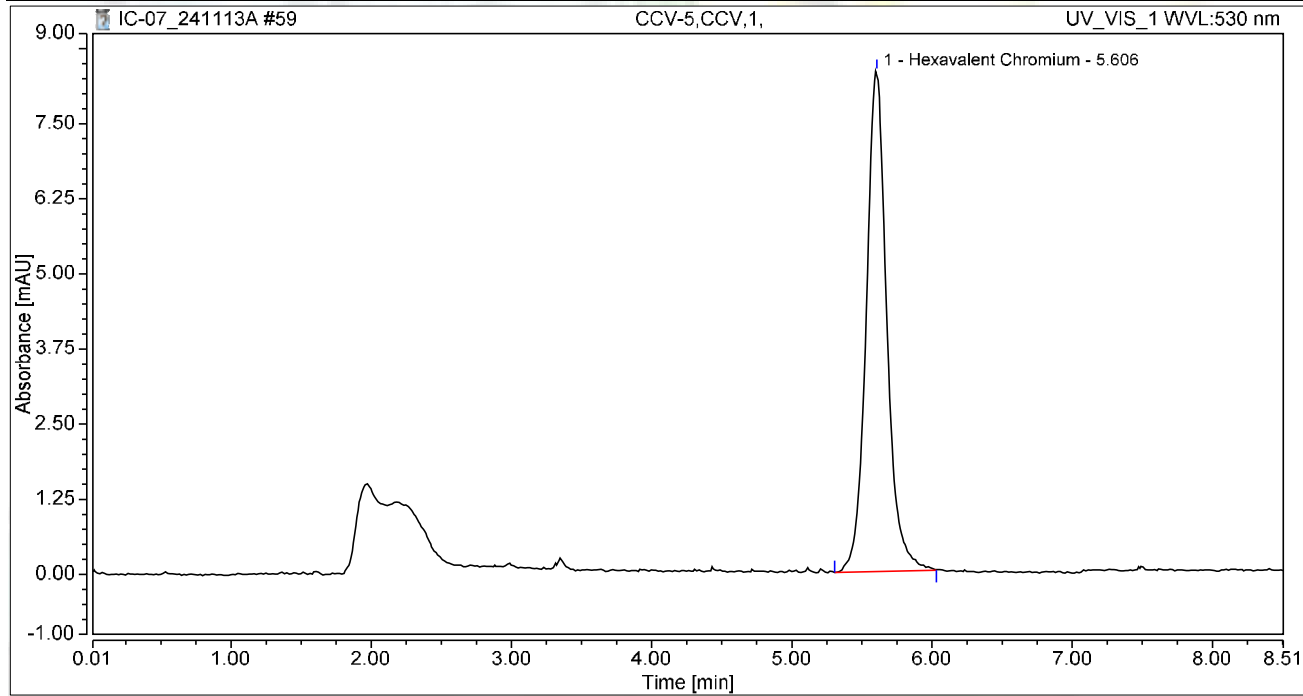
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-5,CCV,1,	Run Time (min):	8.49
Vial Number:	10	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 17:04	Sample Weight:	1.0000

Chromatogram



Integration Results

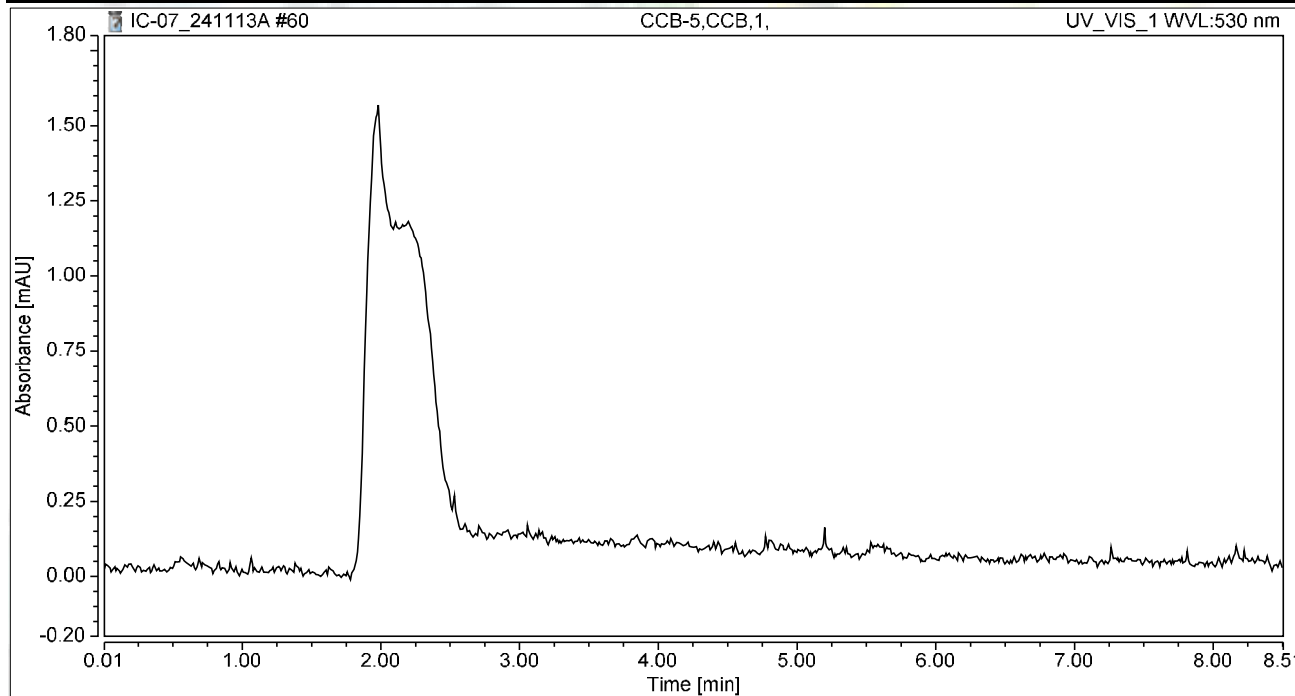
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.606	1.418	8.326	100.00	100.00	4.9968
Total:			1.418	8.326	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-5,CCB,1,	Run Time (min):	8.50
Vial Number:	11	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 17:13	Sample Weight:	1.0000

Chromatogram



Integration Results

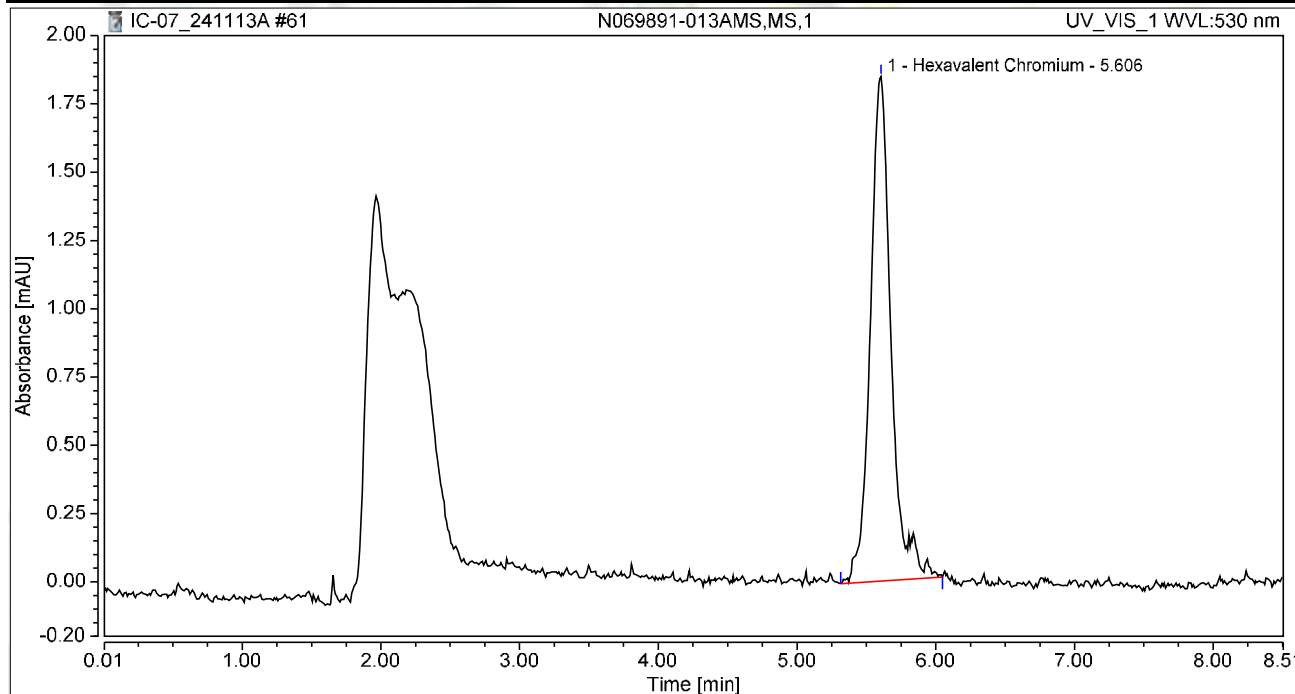
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-013AMS,MS,1	Run Time (min):	8.50
Vial Number:	12	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 17:23	Sample Weight:	1.0000

Chromatogram



Integration Results

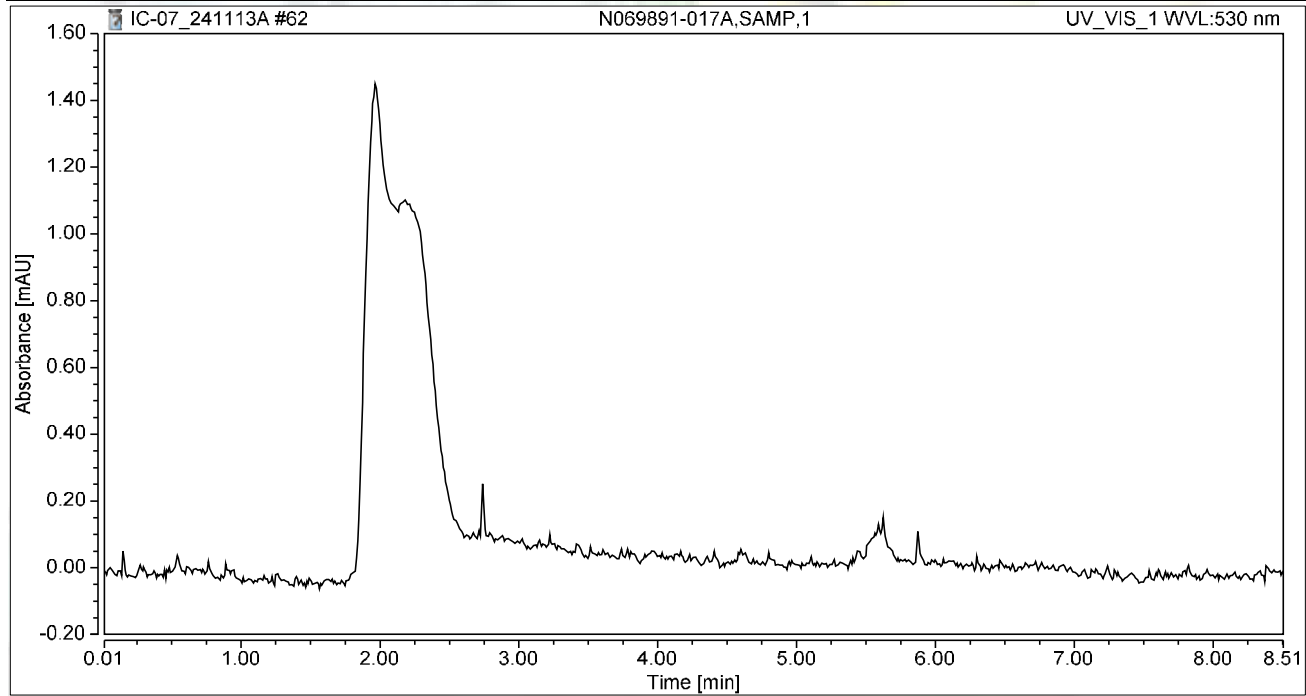
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.606	0.320	1.847	100.00	100.00	1.1280
Total:			0.320	1.847	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-017A,SAMP,1	Run Time (min):	8.49
Vial Number:	13	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 17:32	Sample Weight:	1.0000

Chromatogram



Integration Results

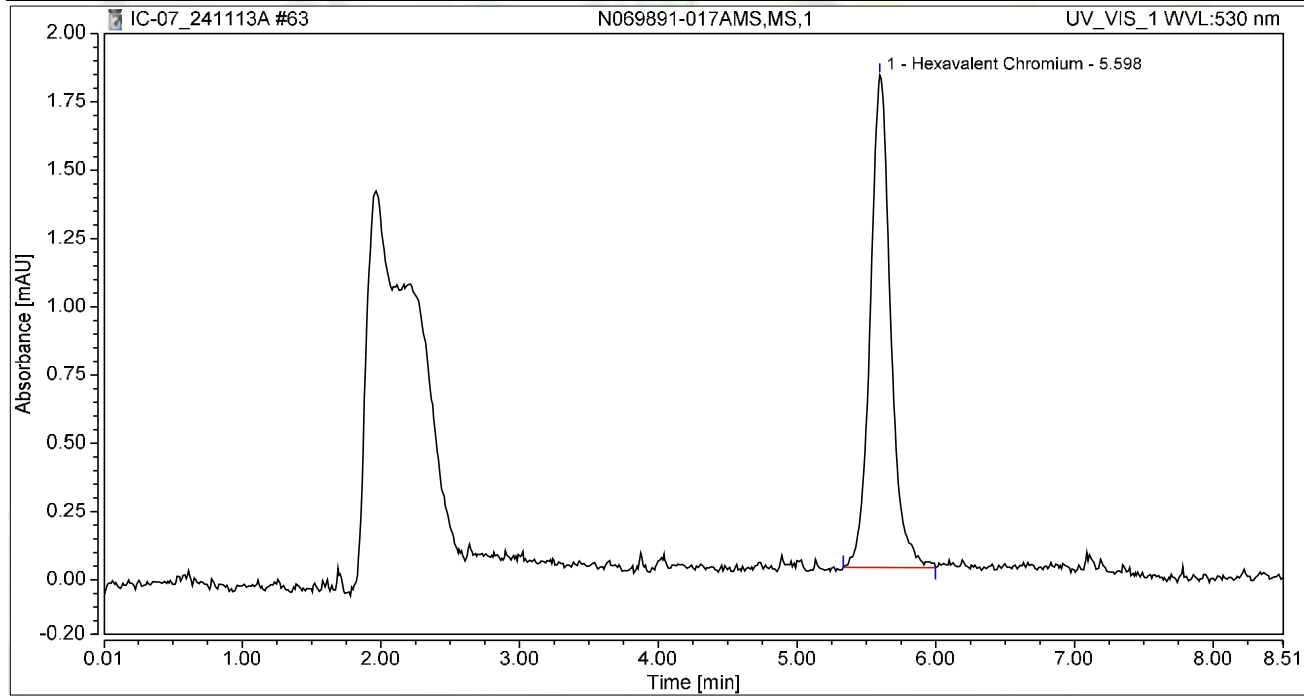
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-017AMS,MS,1	Run Time (min):	8.50
Vial Number:	14	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 17:42	Sample Weight:	1.0000

Chromatogram



Integration Results

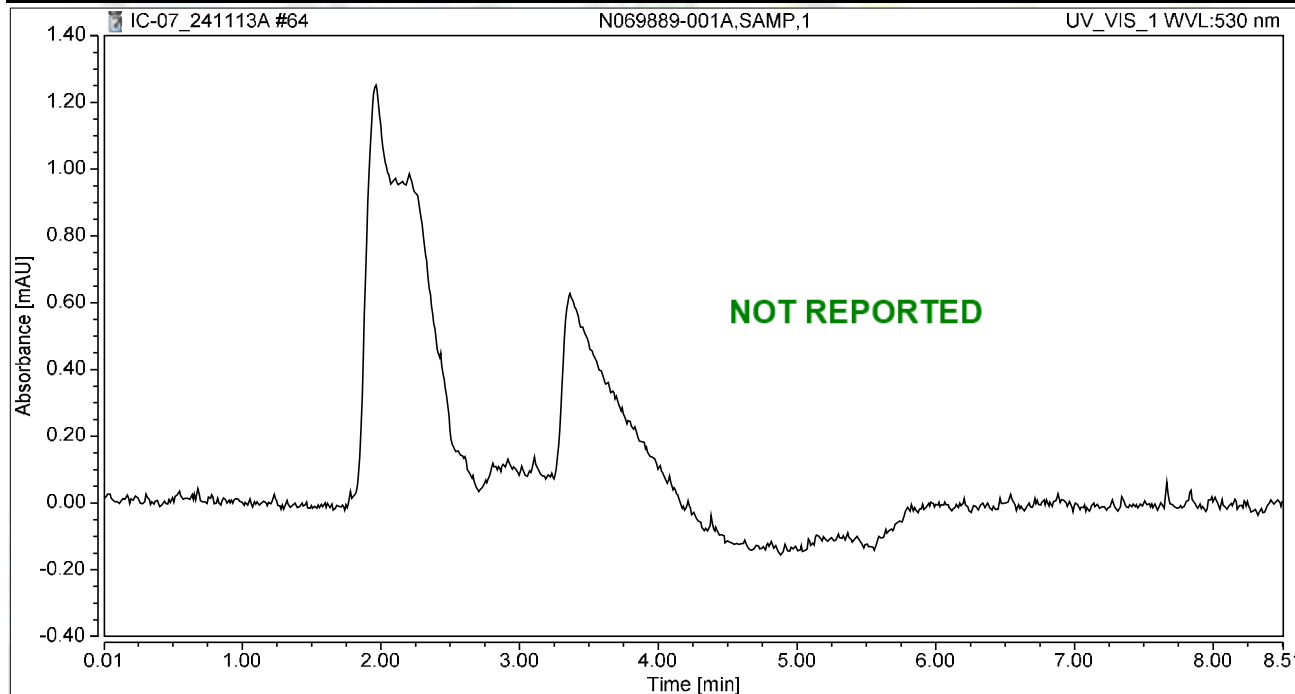
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.598	0.307	1.803	100.00	100.00	1.0822
Total:			0.307	1.803	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069889-001A,SAMP,1	Run Time (min):	8.50
Vial Number:	15	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 17:51	Sample Weight:	1.0000

Chromatogram



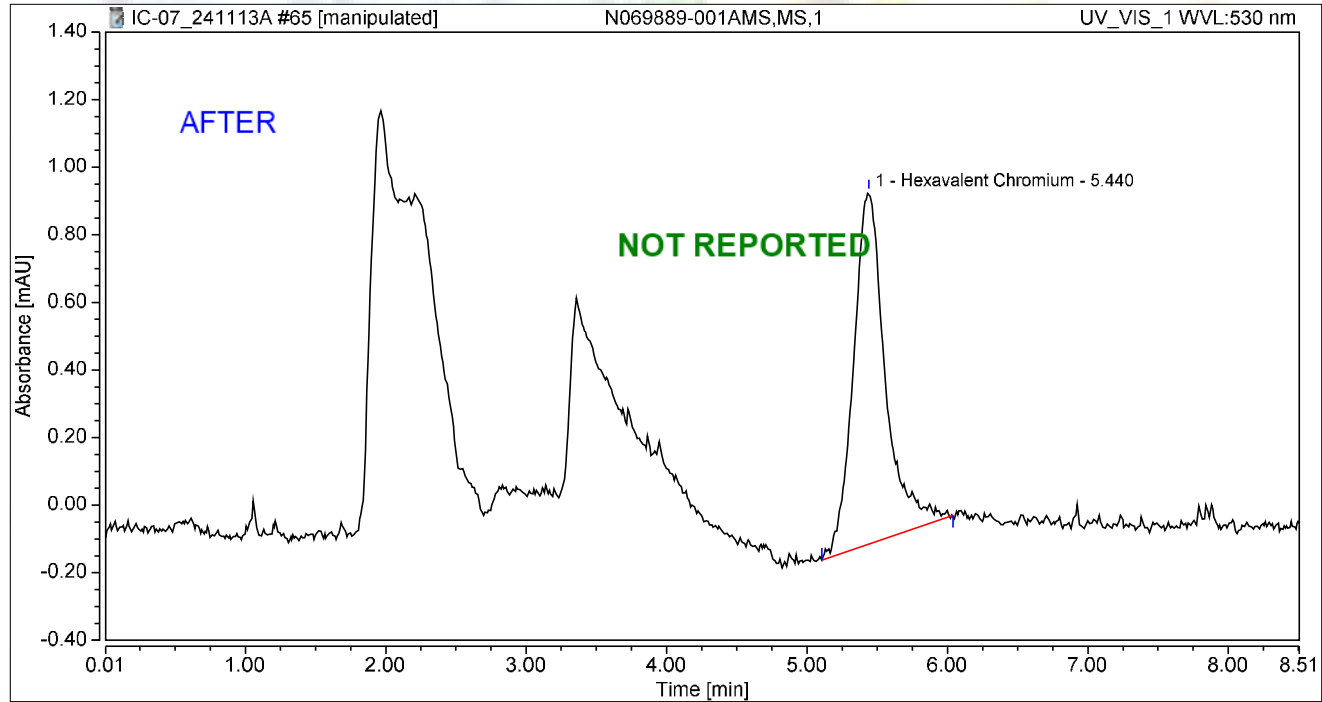
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069889-001AMS,MS,1	Run Time (min): 8.50
Vial Number:	16	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	13/Nov/24 18:01	Sample Weight: 1.0000

Chromatogram



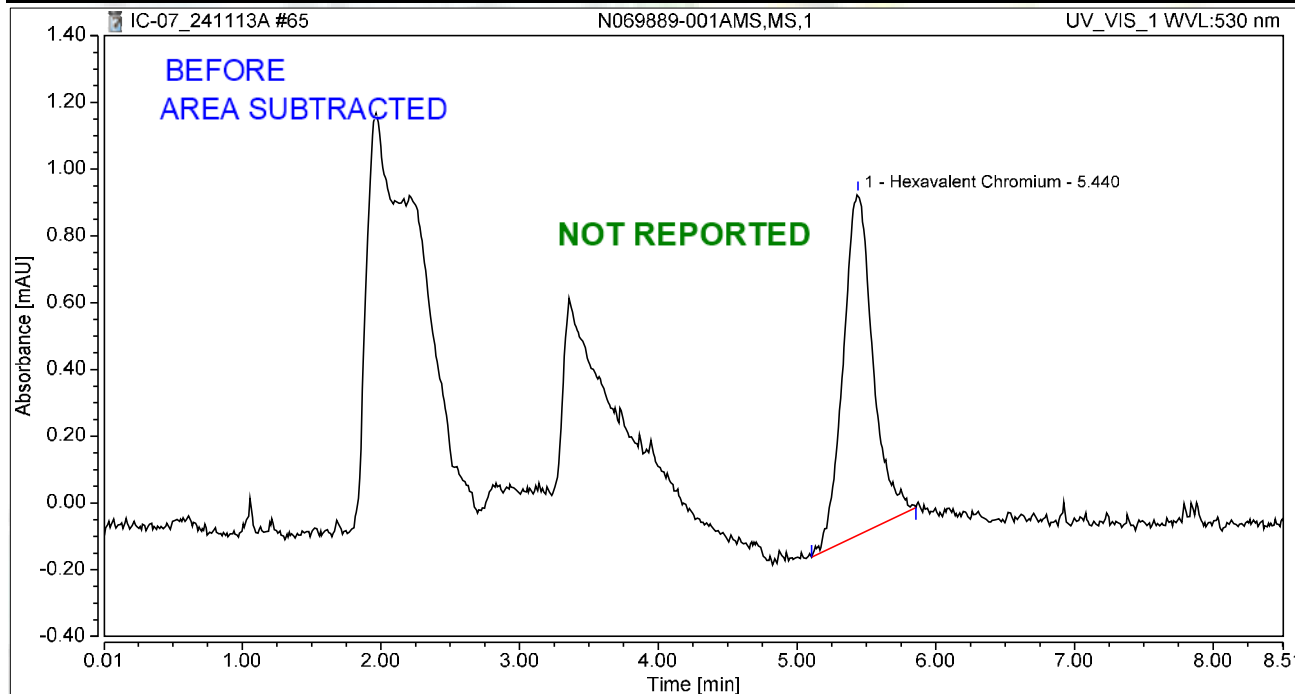
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.440	0.275	1.043	100.00	100.00	0.9675
Total:			0.275	1.043	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069889-001AMS,MS,1	Run Time (min):	8.50
Vial Number:	16	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 18:01	Sample Weight:	1.0000

Chromatogram



Integration Results

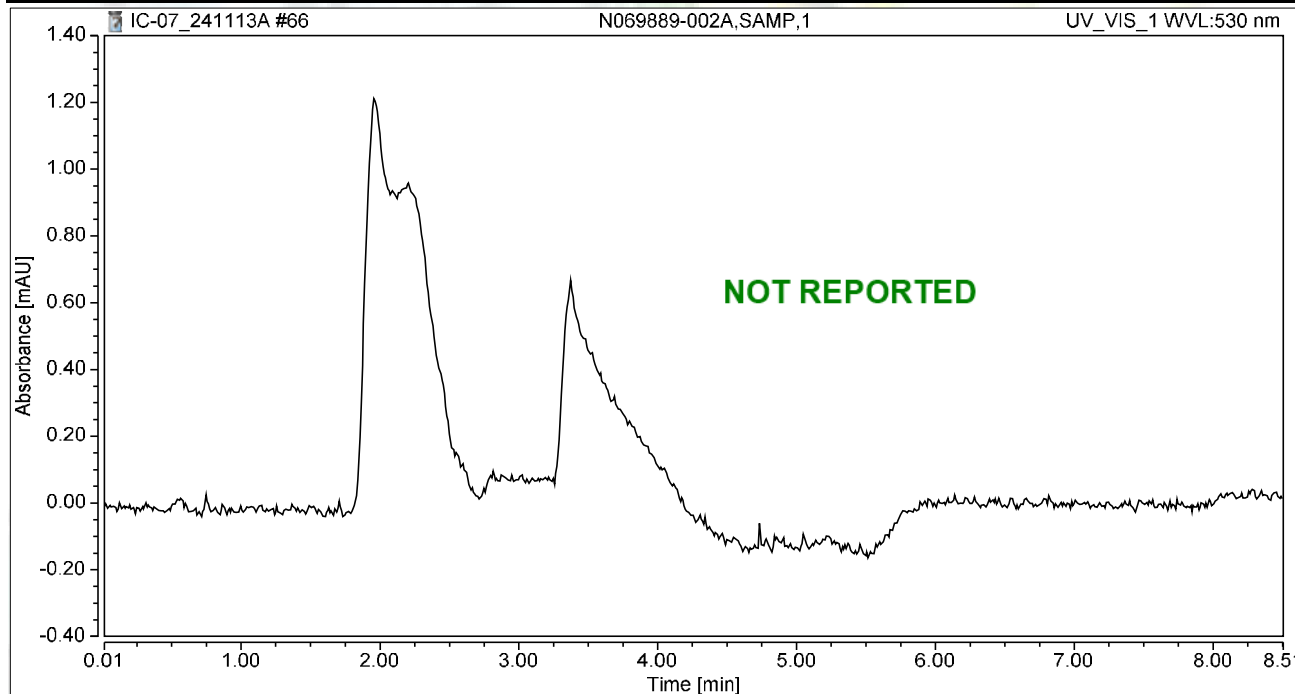
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.440	0.255	1.024	100.00	100.00	0.8978
Total:			0.255	1.024	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069889-002A,SAMP,1	Run Time (min):	8.49
Vial Number:	17	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 18:10	Sample Weight:	1.0000

Chromatogram



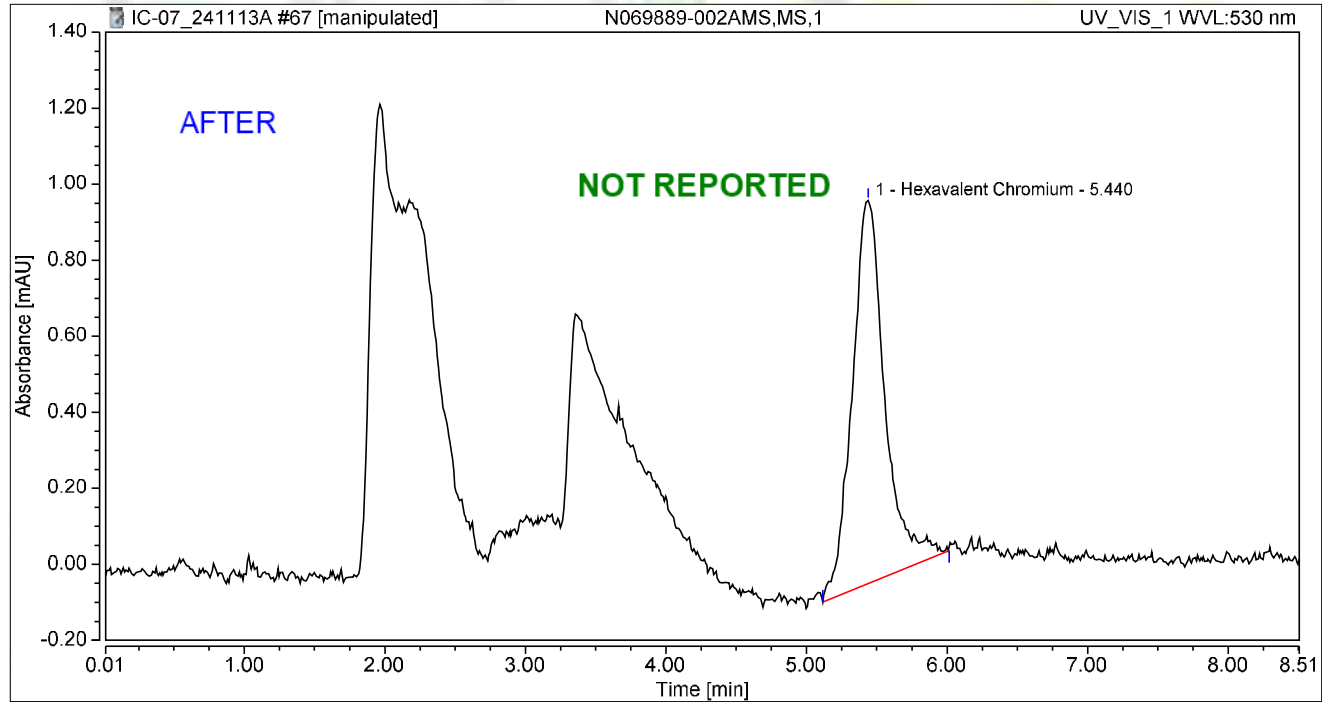
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069889-002AMS,MS,1	Run Time (min): 8.49
Vial Number:	18	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	13/Nov/24 18:19	Sample Weight: 1.0000

Chromatogram



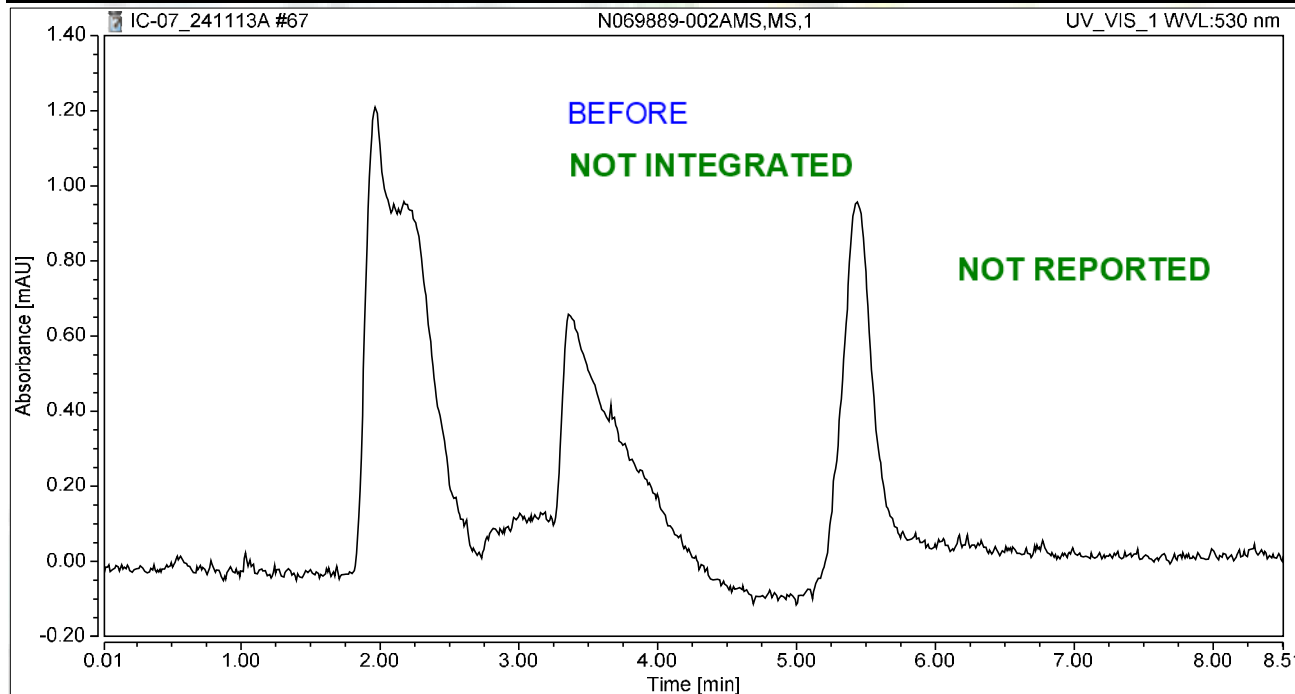
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.440	0.271	1.008	100.00	100.00	0.9564
Total:			0.271	1.008	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069889-002AMS,MS,1	Run Time (min):	8.49
Vial Number:	18	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 18:19	Sample Weight:	1.0000

Chromatogram



Integration Results

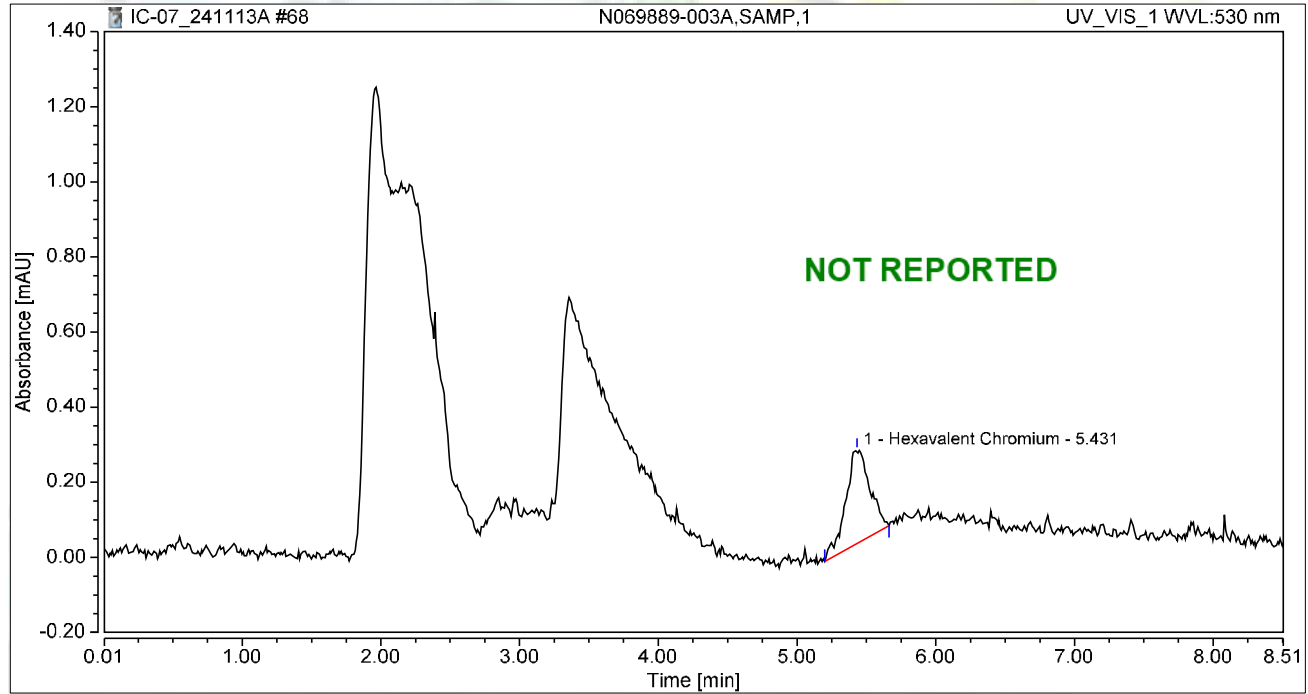
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069889-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	19	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 18:29	Sample Weight:	1.0000

Chromatogram



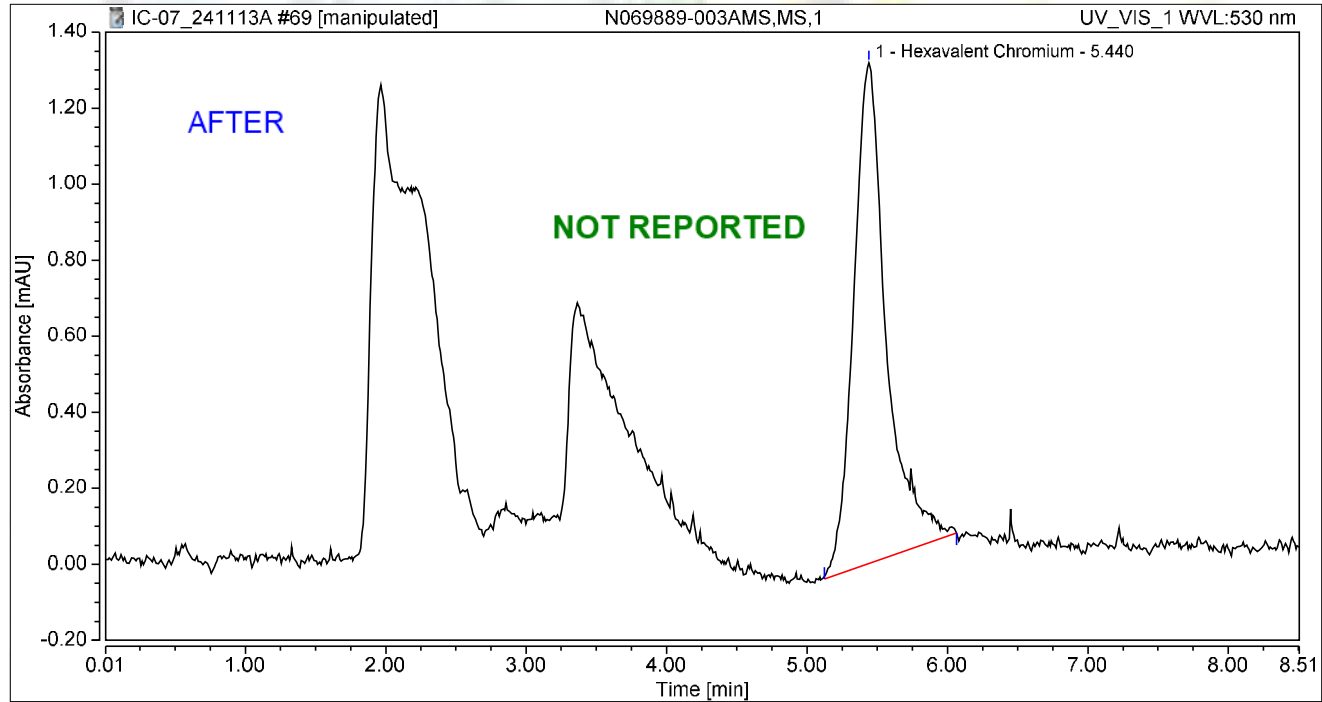
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.431	0.051	0.248	100.00	100.00	0.1782
Total:			0.051	0.248	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069889-003AMS,MS,1	Run Time (min): 8.50
Vial Number:	20	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	13/Nov/24 18:38	Sample Weight: 1.0000

Chromatogram



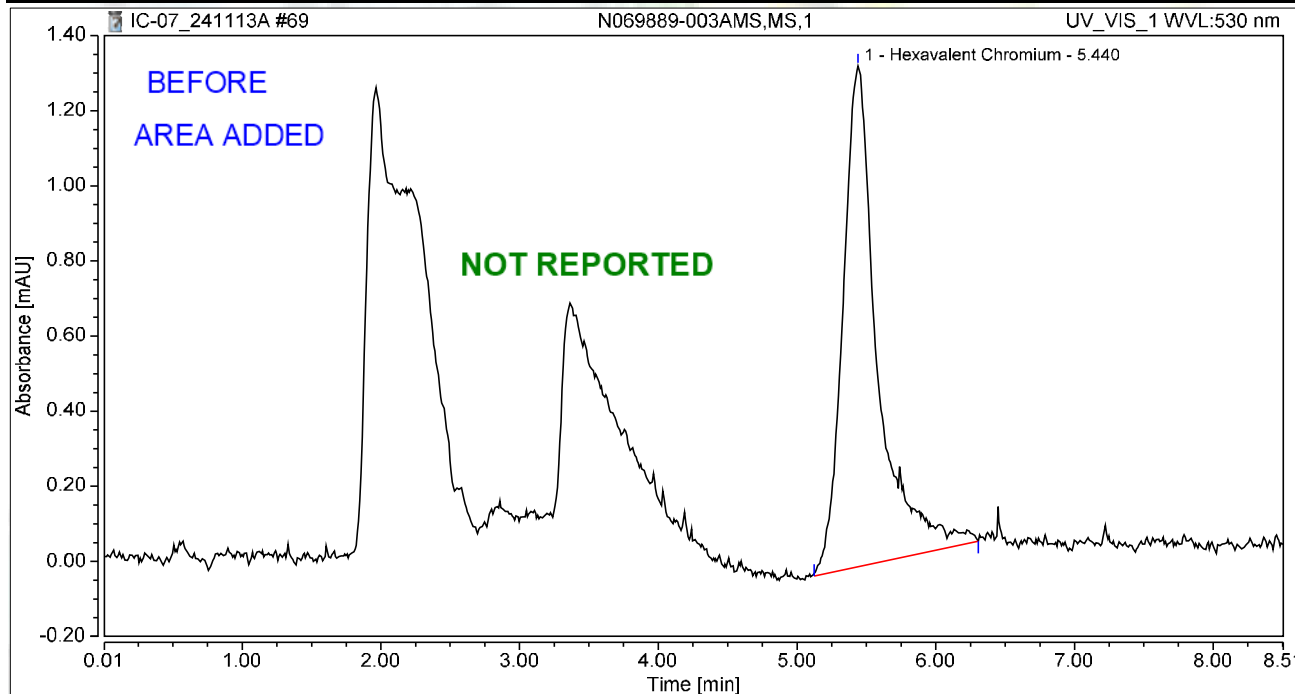
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.440	0.357	1.318	100.00	100.00	1.2590
Total:			0.357	1.318	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069889-003AMS,MS,1	Run Time (min):	8.50
Vial Number:	20	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 18:38	Sample Weight:	1.0000

Chromatogram



Integration Results

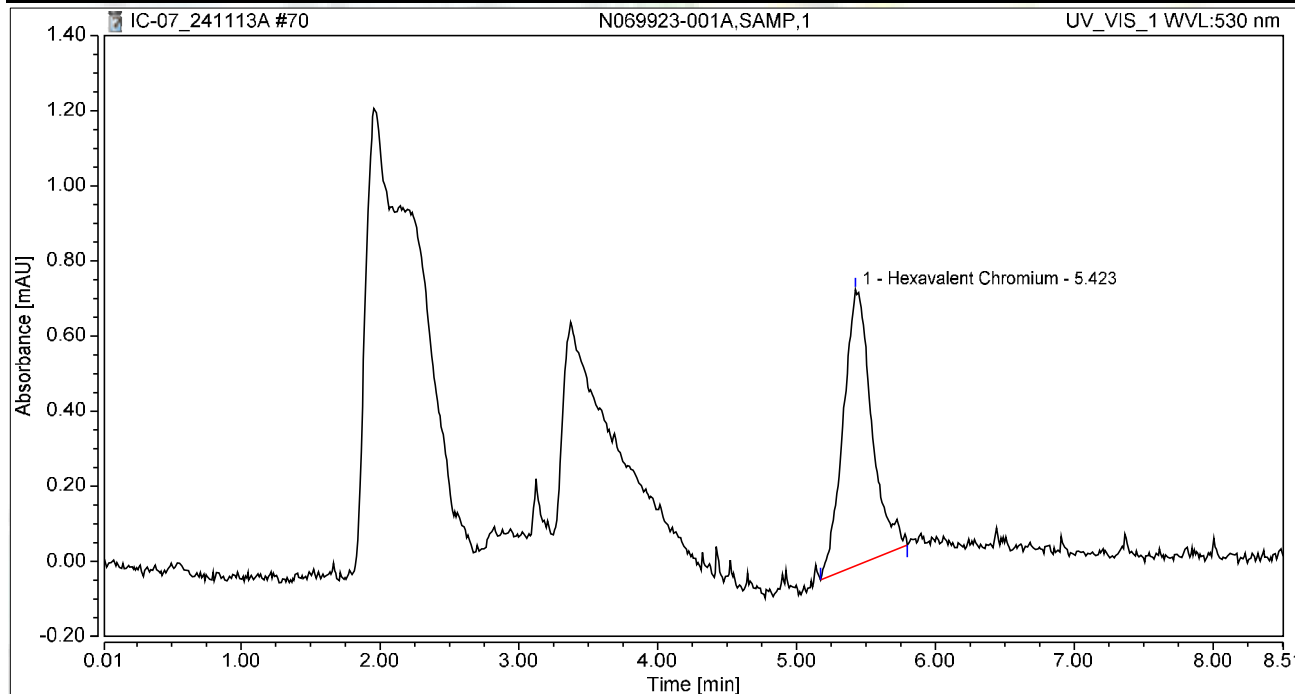
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.440	0.387	1.334	100.00	100.00	1.3631
Total:			0.387	1.334	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069923-001A,SAMP,1	Run Time (min):	8.49
Vial Number:	21	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 18:48	Sample Weight:	1.0000

Chromatogram



Integration Results

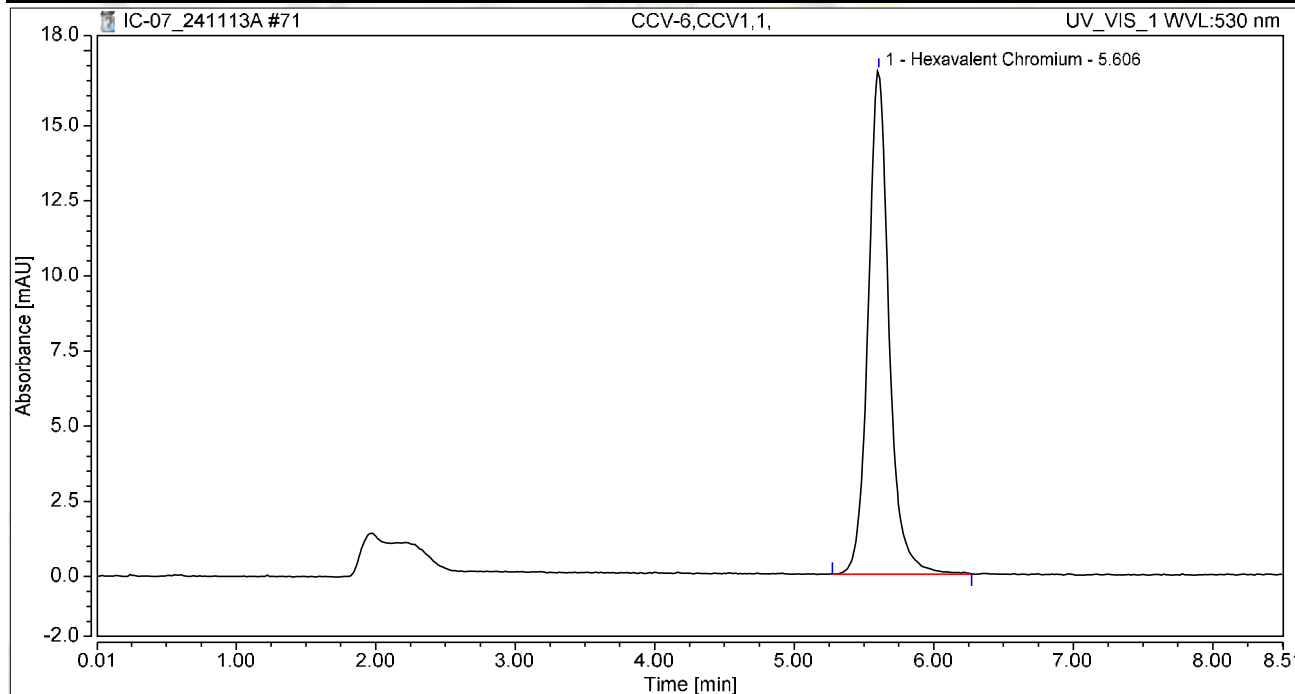
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.423	0.174	0.736	100.00	100.00	0.6142
Total:			0.174	0.736	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-6,CCV1,1,	Run Time (min):	8.50
Vial Number:	22	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 18:57	Sample Weight:	1.0000

Chromatogram



Integration Results

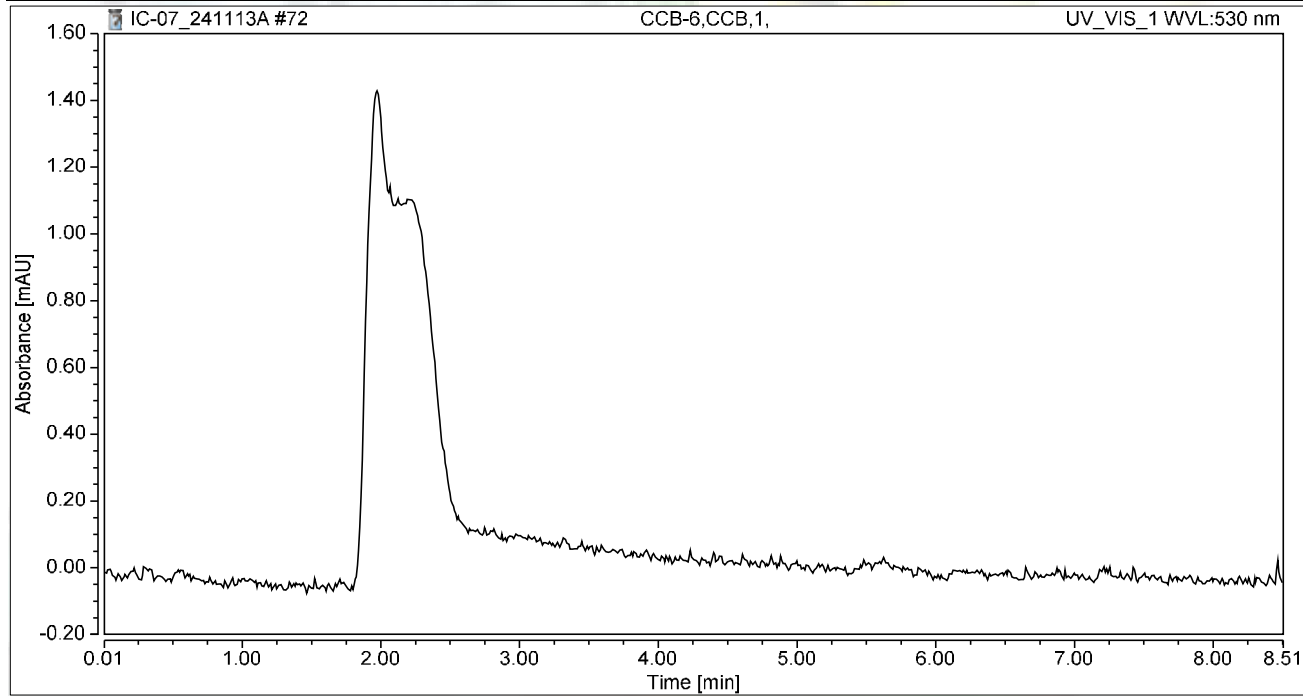
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.606	2.916	16.776	100.00	100.00	10.2750
Total:			2.916	16.776	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-6,CCB,1,	Run Time (min):	8.50
Vial Number:	23	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 19:07	Sample Weight:	1.0000

Chromatogram



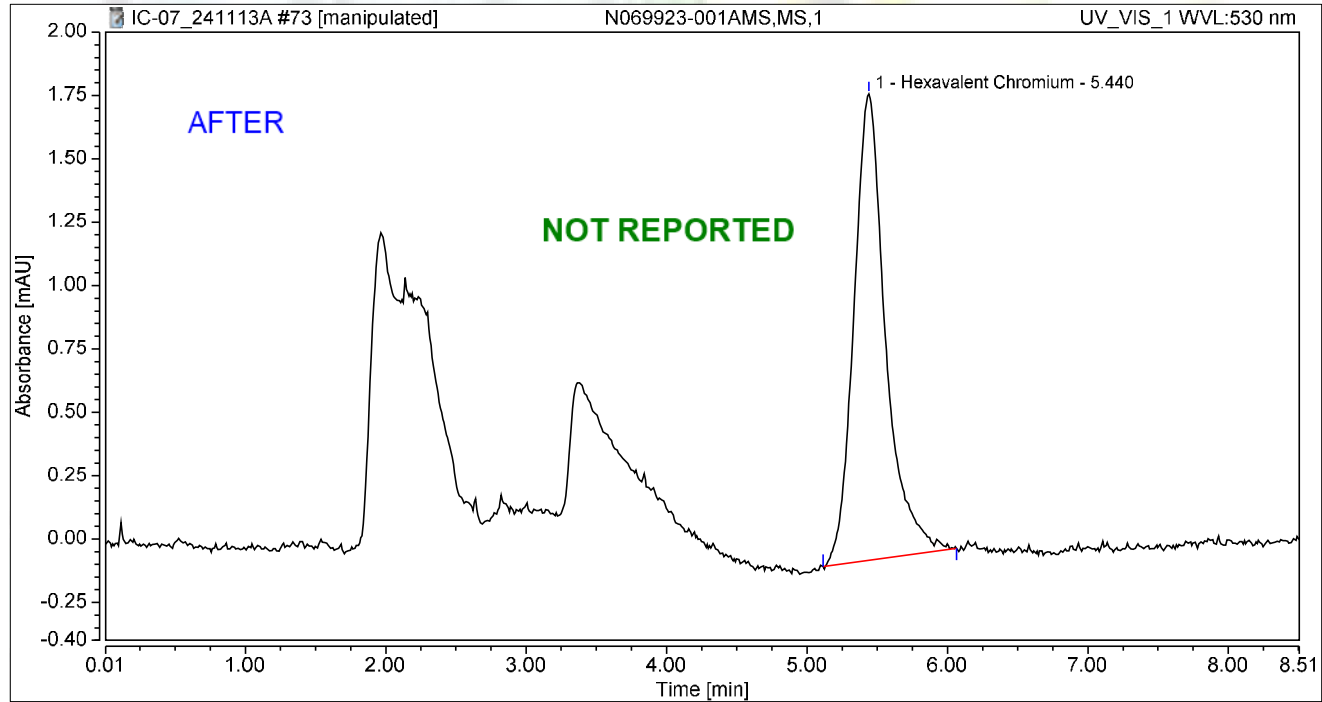
Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069923-001AMS,MS,1	Run Time (min): 8.50
Vial Number:	24	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	13/Nov/24 19:16	Sample Weight: 1.0000

Chromatogram



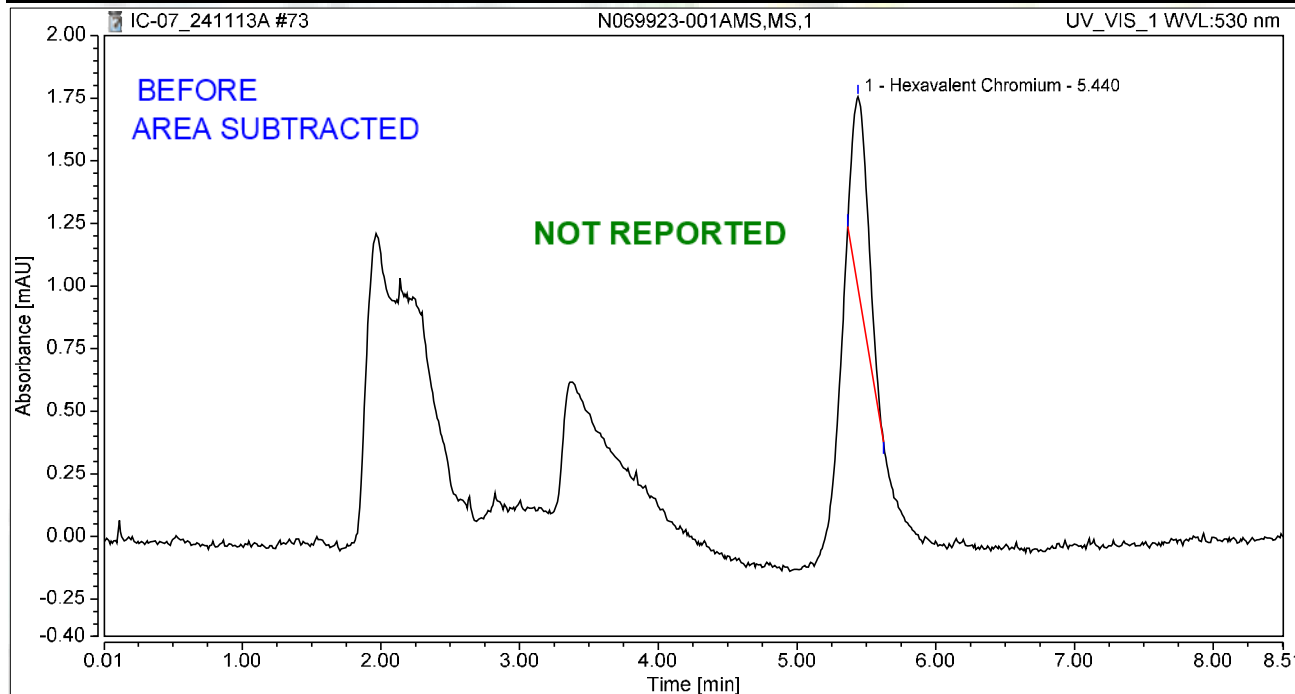
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.440	0.481	1.840	100.00	100.00	1.6954
Total:			0.481	1.840	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069923-001AMS,MS,1	Run Time (min):	8.50
Vial Number:	24	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 19:16	Sample Weight:	1.0000

Chromatogram



Integration Results

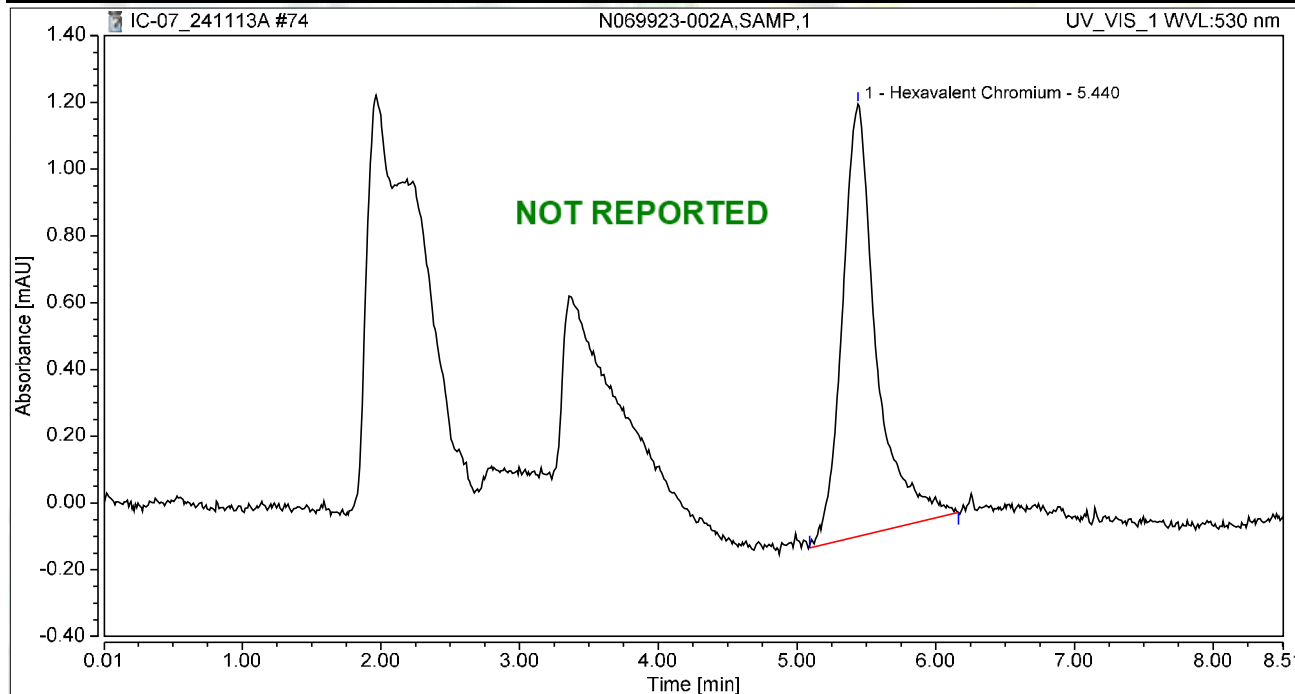
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.440	0.105	0.768	100.00	100.00	0.3714
Total:			0.105	0.768	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069923-002A,SAMP,1	Run Time (min):	8.50
Vial Number:	25	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 19:26	Sample Weight:	1.0000

Chromatogram



Integration Results

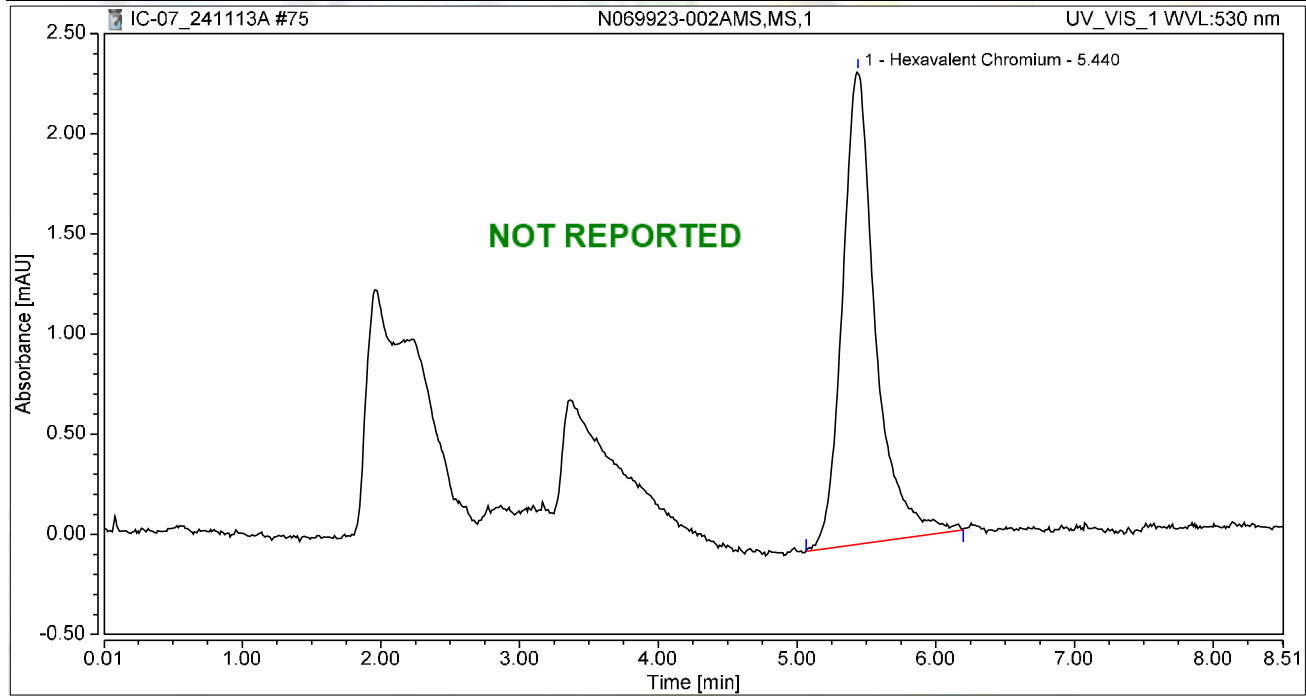
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.440	0.368	1.295	100.00	100.00	1.2975
Total:			0.368	1.295	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069923-002AMS,MS,1	Run Time (min):	8.50
Vial Number:	26	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 19:35	Sample Weight:	1.0000

Chromatogram



Integration Results

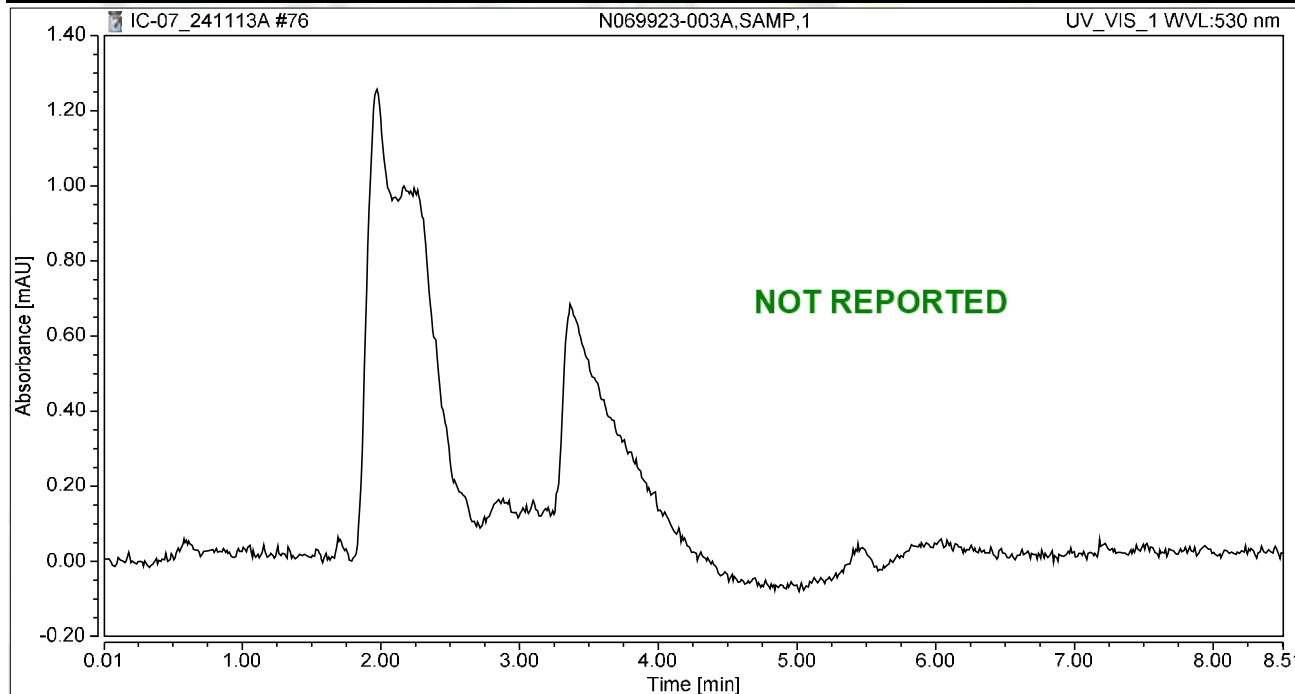
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.440	0.652	2.363	100.00	100.00	2.2986
Total:			0.652	2.363	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069923-003A,SAMP,1	Run Time (min):	8.50
Vial Number:	27	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 19:45	Sample Weight:	1.0000

Chromatogram



Integration Results

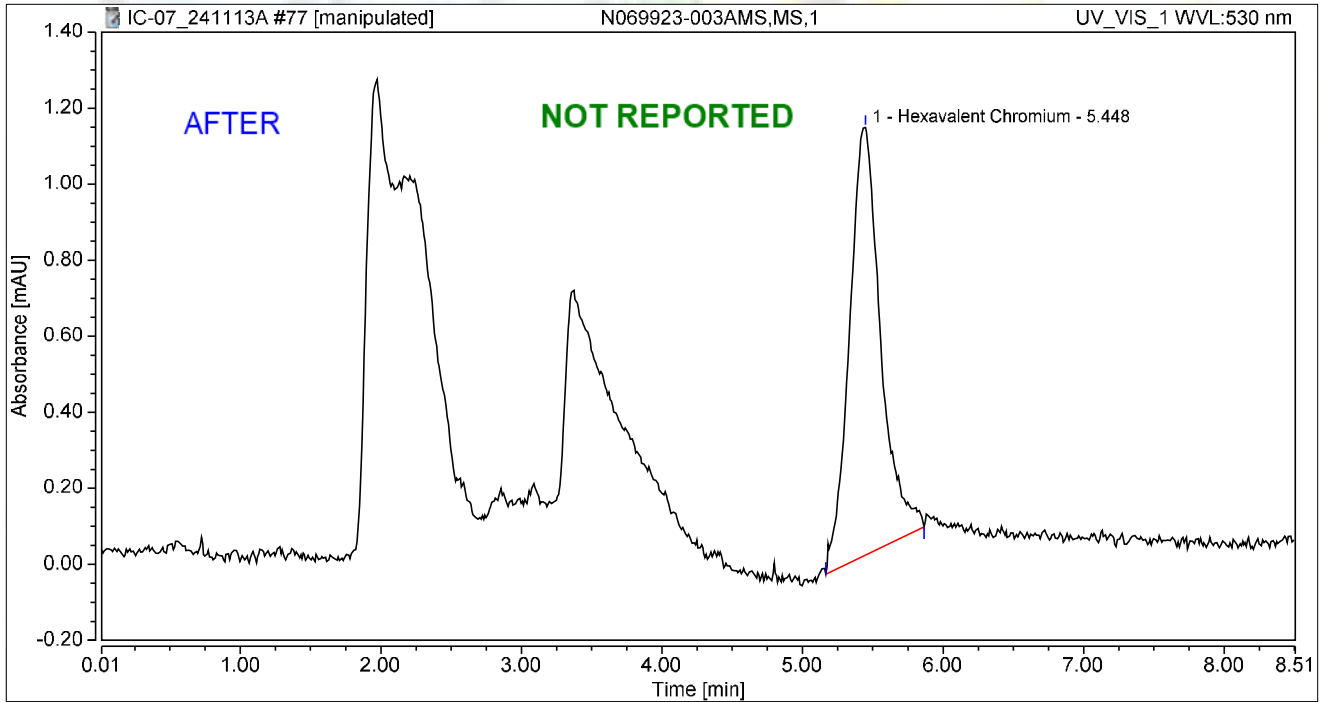
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069923-003AMS,MS,1	Run Time (min):	8.49
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 19:54	Sample Weight:	1.0000

Chromatogram



Integration Results

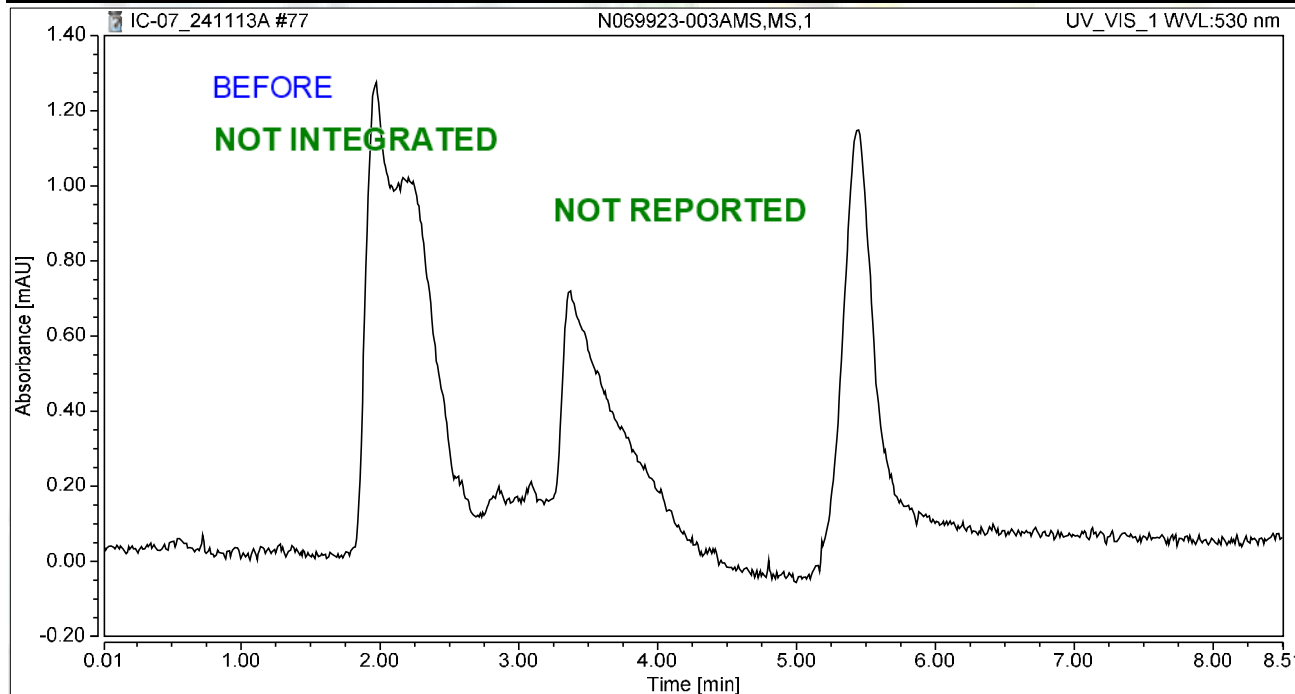
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.448	0.290	1.125	100.00	100.00	1.0229
Total:			0.290	1.125	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069923-003AMS,MS,1	Run Time (min):	8.49
Vial Number:	28	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 19:54	Sample Weight:	1.0000

Chromatogram



Integration Results

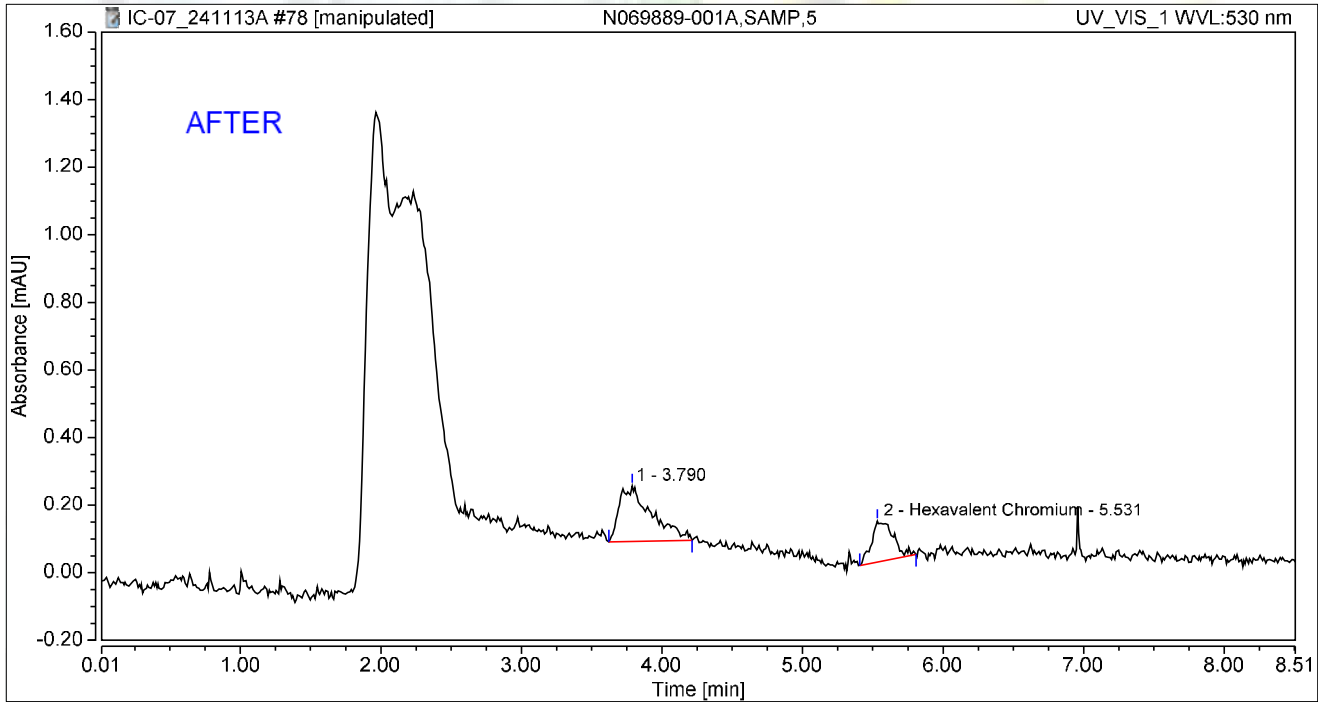
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069889-001A,SAMP,5	Run Time (min):	8.49
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 20:04	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.790	0.044	0.164	67.08	57.73	n.a.
2	Hexavalent Chromium	5.531	0.021	0.120	32.92	42.27	0.0754
Total:			0.065	0.285	100.00	100.00	

Reviewed by

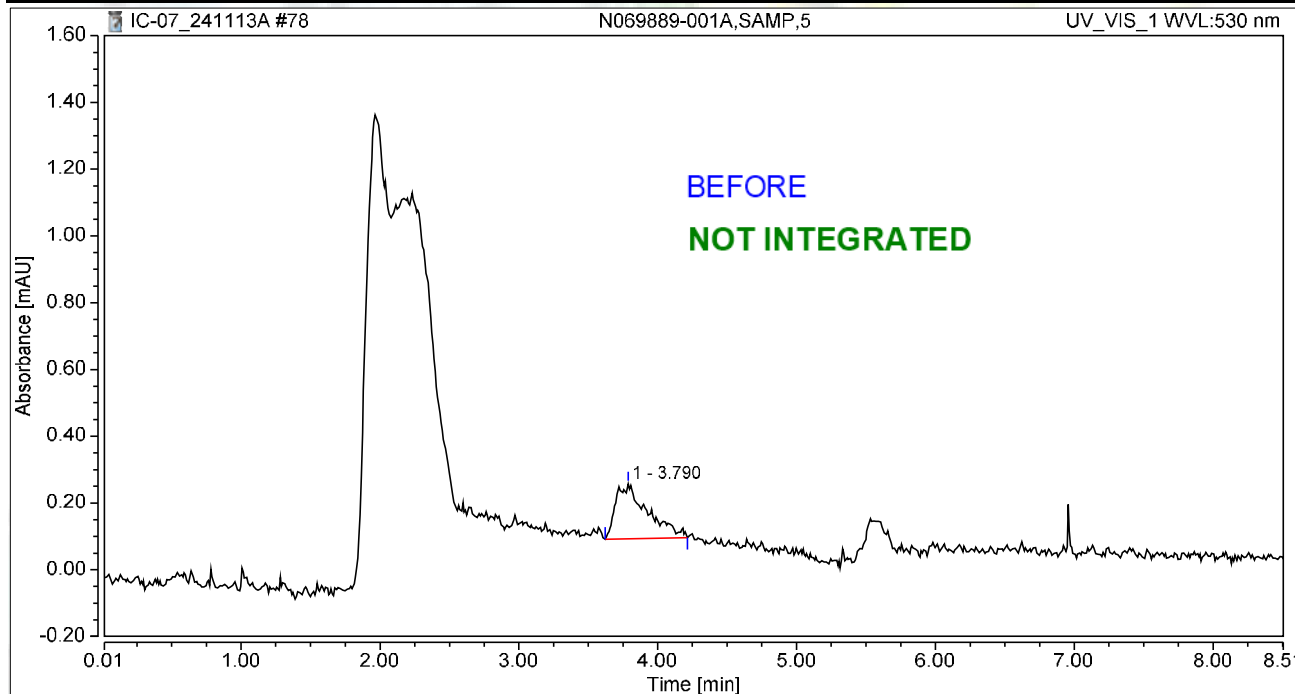
11/14/2024

Chromatogram and Results

Injection Details

Injection Name:	N069889-001A,SAMP,5	Run Time (min):	8.49
Vial Number:	29	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 20:04	Sample Weight:	1.0000

Chromatogram



Integration Results

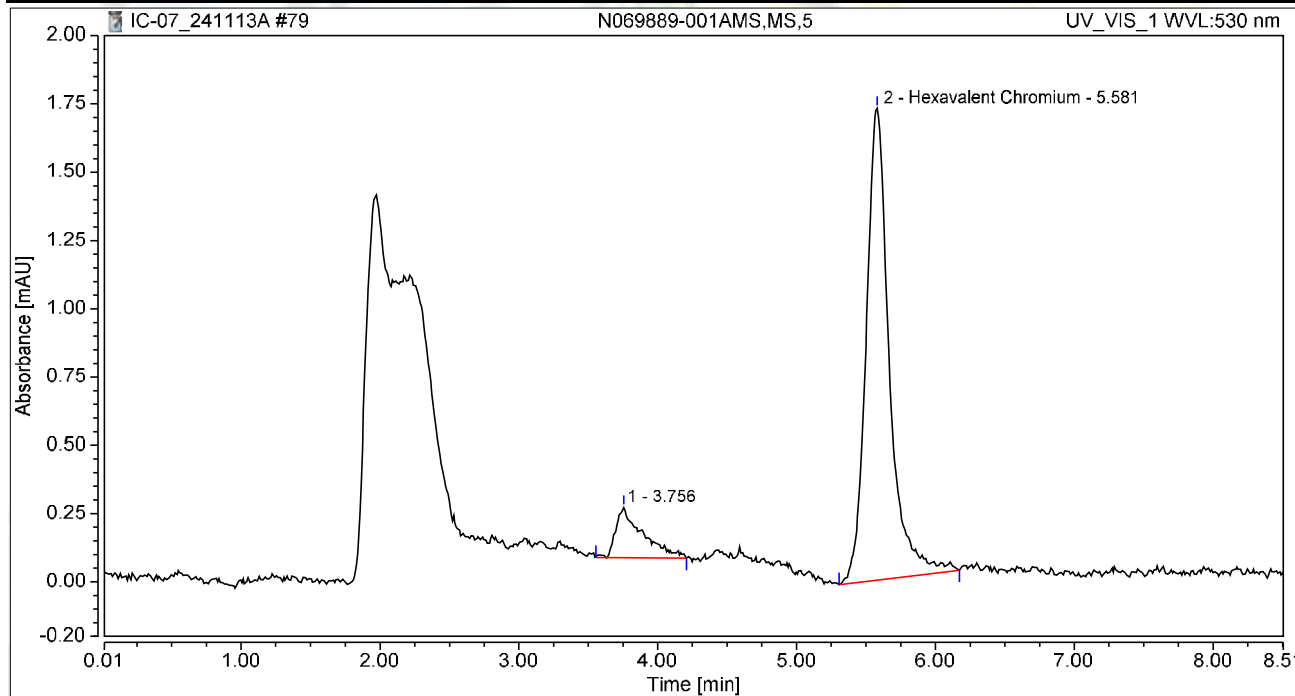
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.790	0.044	0.164	100.00	100.00	n.a.
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.044	0.164	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069889-001AMS,MS,5	Run Time (min):	8.49
Vial Number:	30	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 20:13	Sample Weight:	1.0000

Chromatogram



Integration Results

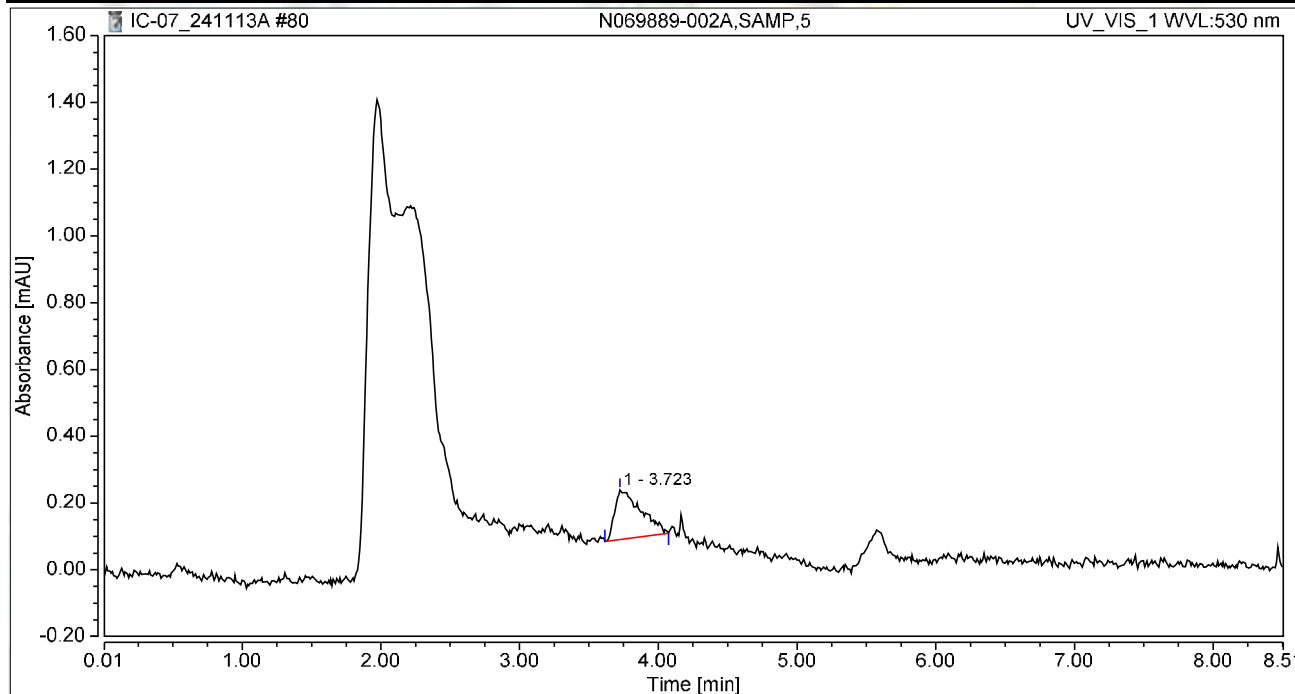
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.756	0.042	0.185	11.17	9.66	n.a.
2	Hexavalent Chromium	5.581	0.334	1.727	88.83	90.34	1.1753
Total:			0.375	1.912	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069889-002A,SAMP,5	Run Time (min):	8.50
Vial Number:	31	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 20:22	Sample Weight:	1.0000

Chromatogram



Integration Results

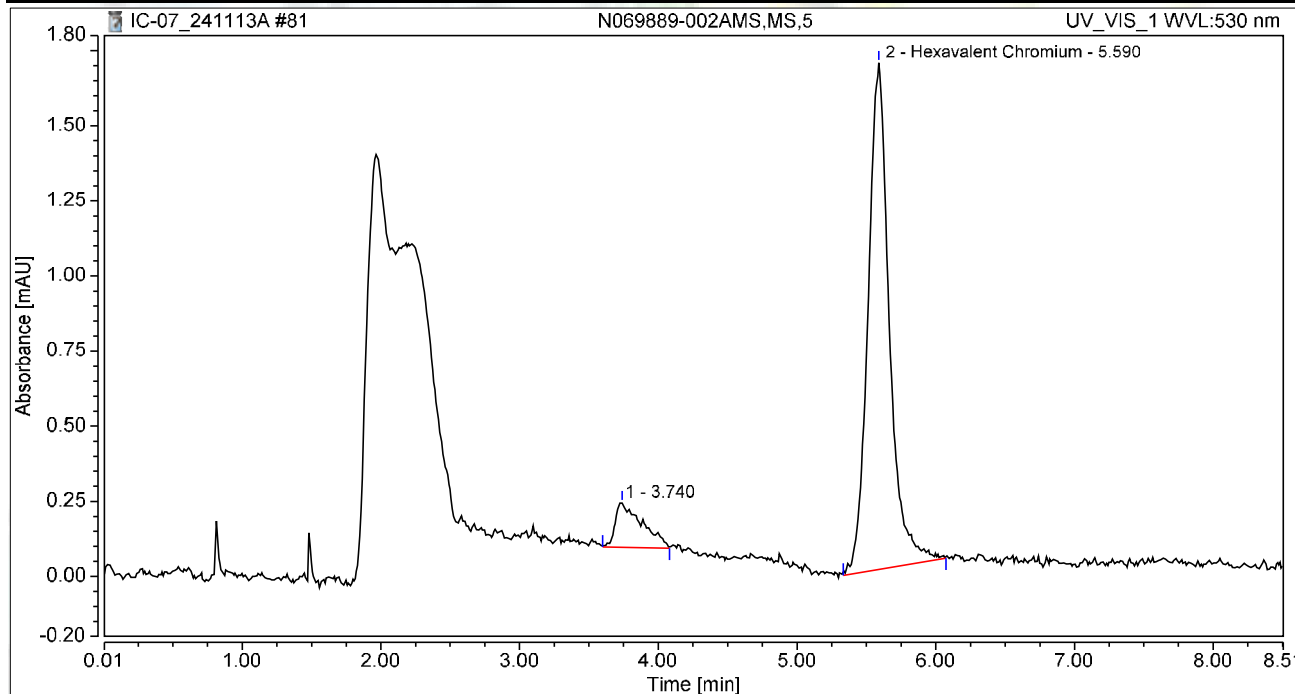
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.723	0.032	0.148	100.00	100.00	n.a.
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.032	0.148	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069889-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	32	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 20:32	Sample Weight:	1.0000

Chromatogram



Integration Results

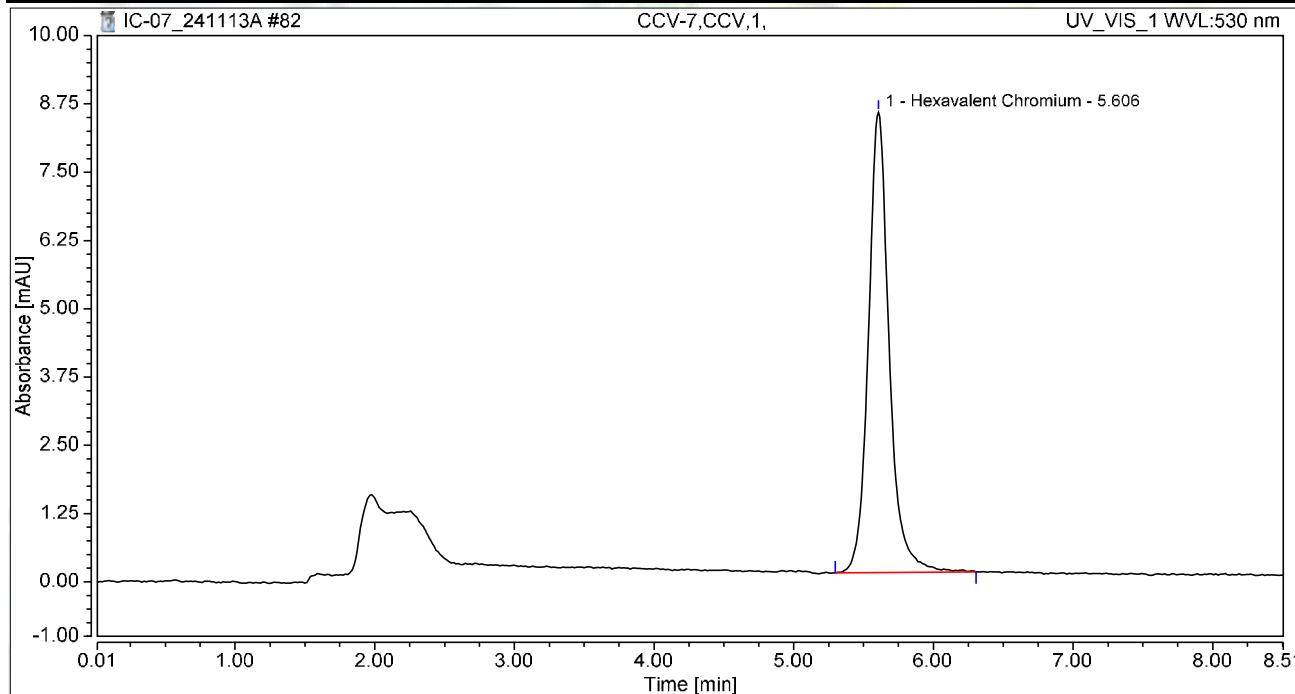
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1		3.740	0.033	0.148	10.02	8.06	n.a.
2	Hexavalent Chromium	5.590	0.300	1.685	89.98	91.94	1.0564
Total:			0.333	1.833	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-7,CCV,1,	Run Time (min):	8.49
Vial Number:	33	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 20:41	Sample Weight:	1.0000

Chromatogram



Integration Results

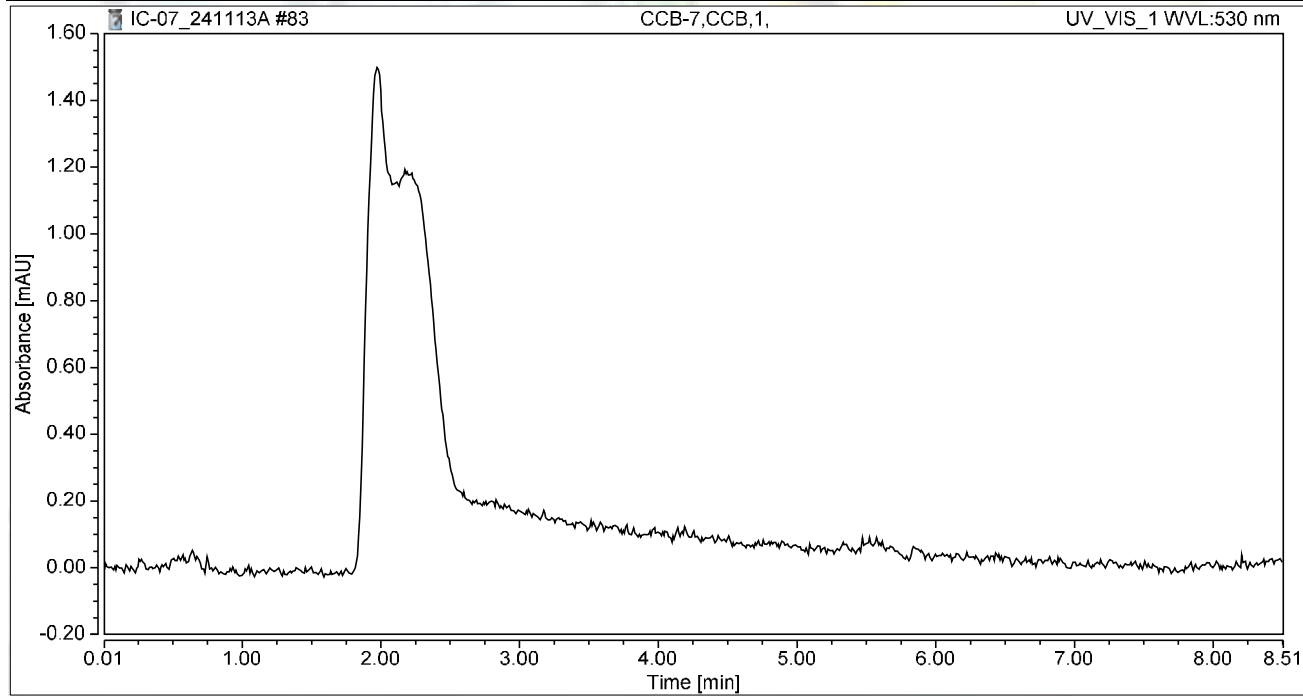
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.606	1.455	8.427	100.00	100.00	5.1269
Total:			1.455	8.427	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-7,CCB,1,	Run Time (min):	8.50
Vial Number:	34	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 20:51	Sample Weight:	1.0000

Chromatogram



Integration Results

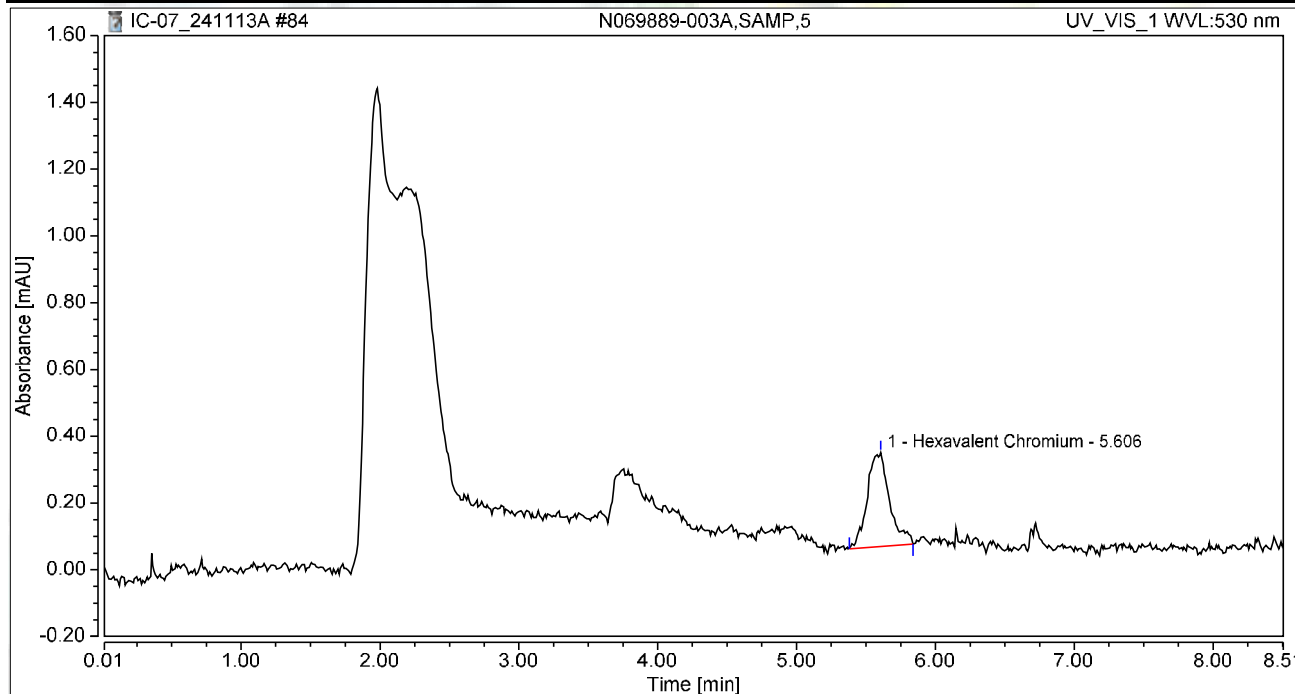
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069889-003A,SAMP,5	Run Time (min):	8.49
Vial Number:	35	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 21:00	Sample Weight:	1.0000

Chromatogram



Integration Results

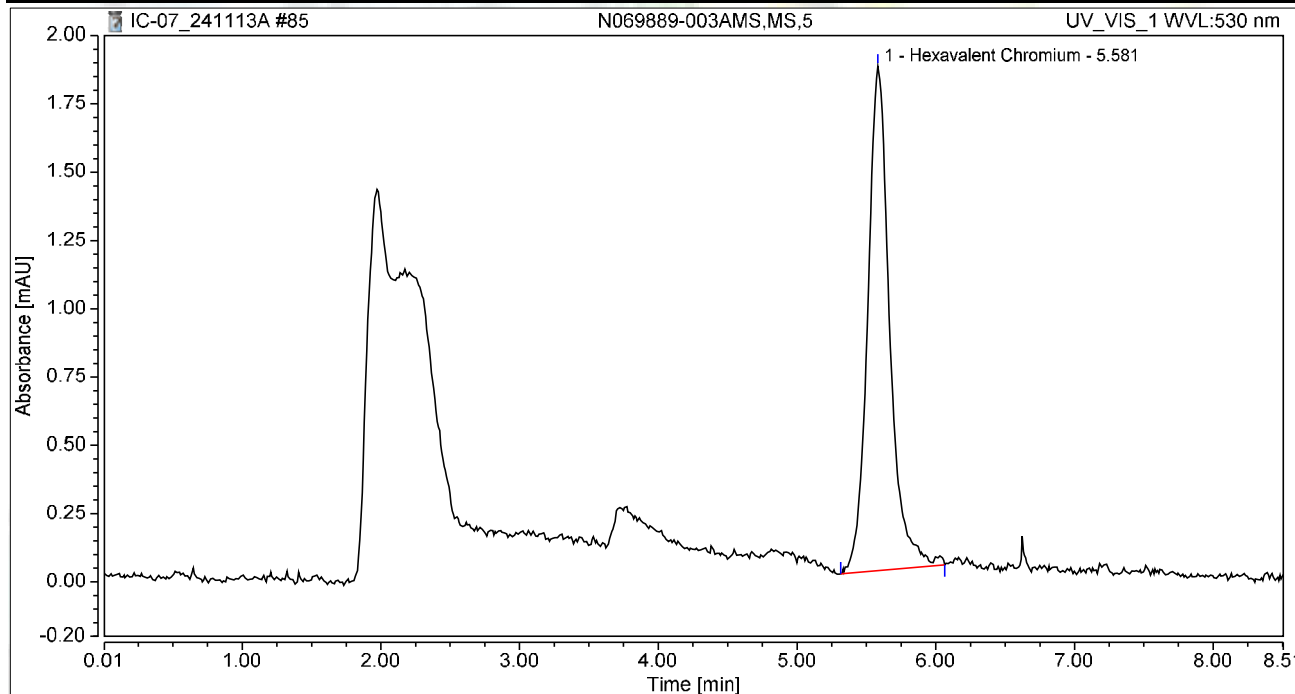
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.606	0.052	0.282	100.00	100.00	0.1844
Total:			0.052	0.282	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069889-003AMS,MS,5	Run Time (min):	8.50
Vial Number:	36	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 21:10	Sample Weight:	1.0000

Chromatogram



Integration Results

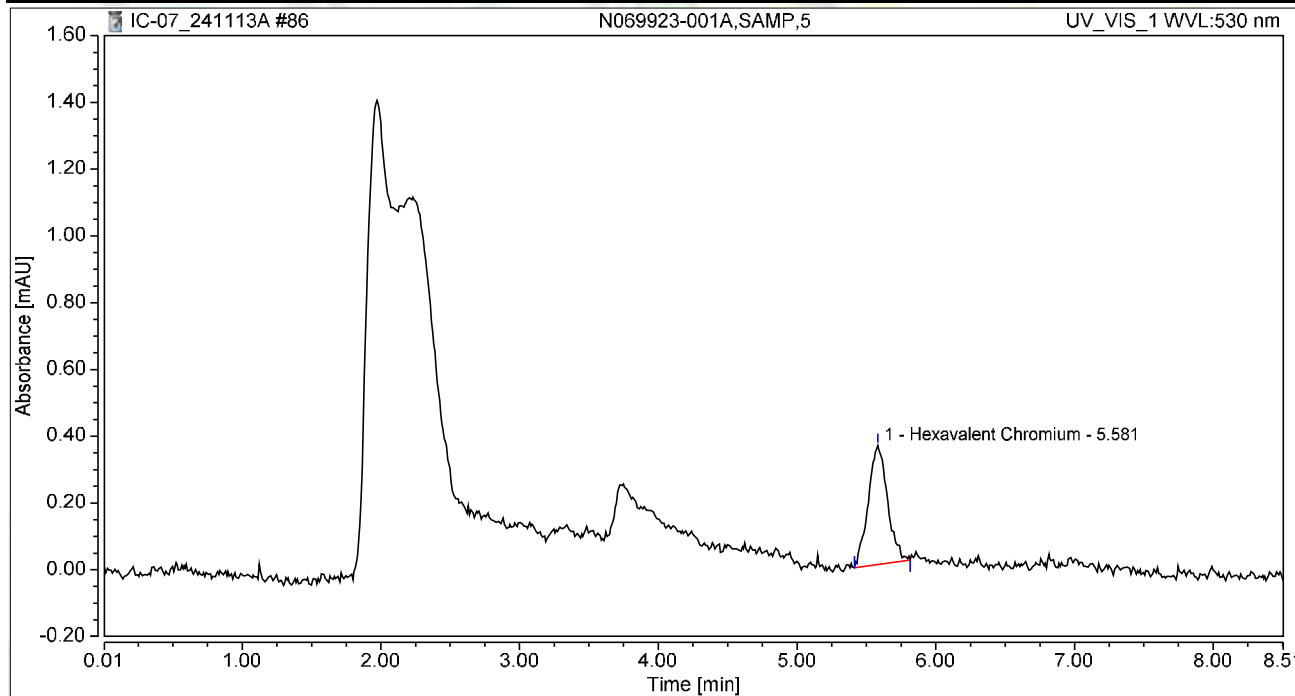
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.581	0.340	1.847	100.00	100.00	1.1998
Total:			0.340	1.847	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069923-001A,SAMP,5	Run Time (min):	8.50
Vial Number:	37	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 21:19	Sample Weight:	1.0000

Chromatogram



Integration Results

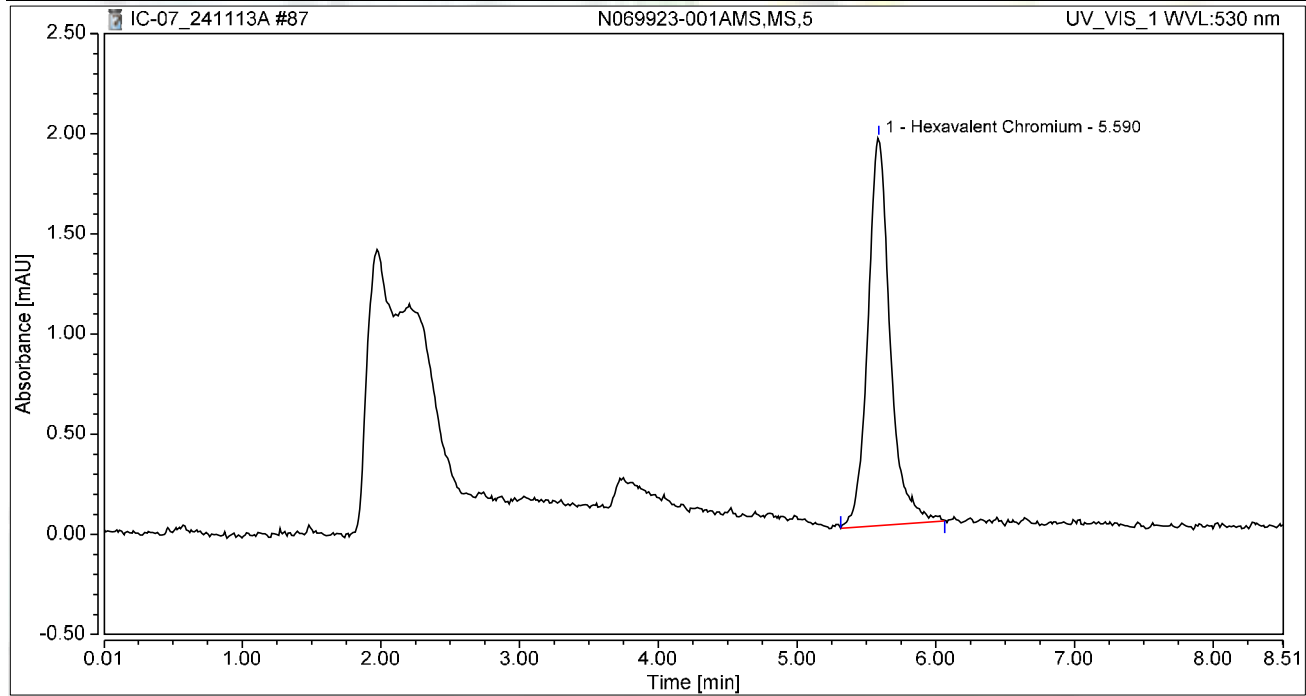
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.581	0.058	0.357	100.00	100.00	0.2031
Total:			0.058	0.357	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069923-001AMS,MS,5	Run Time (min):	8.50
Vial Number:	38	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 21:29	Sample Weight:	1.0000

Chromatogram



Integration Results

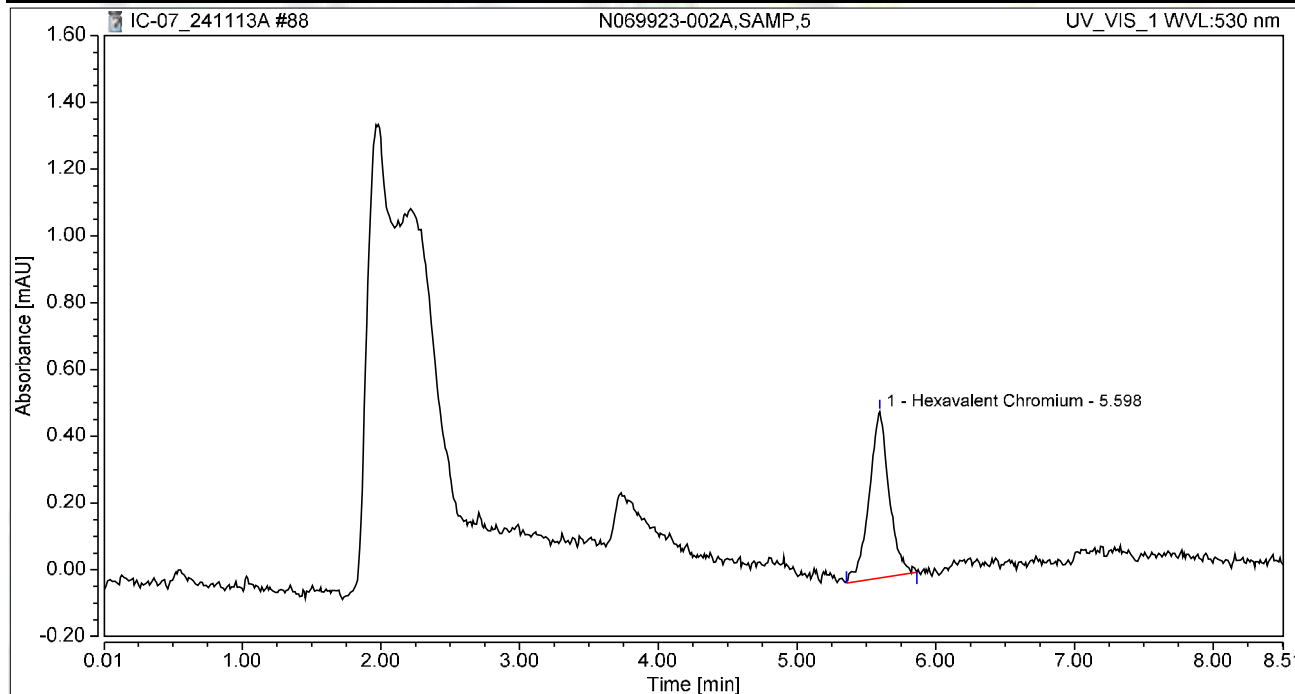
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.590	0.360	1.937	100.00	100.00	1.2694
Total:			0.360	1.937	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069923-002A,SAMP,5	Run Time (min):	8.50
Vial Number:	39	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 21:38	Sample Weight:	1.0000

Chromatogram



Integration Results

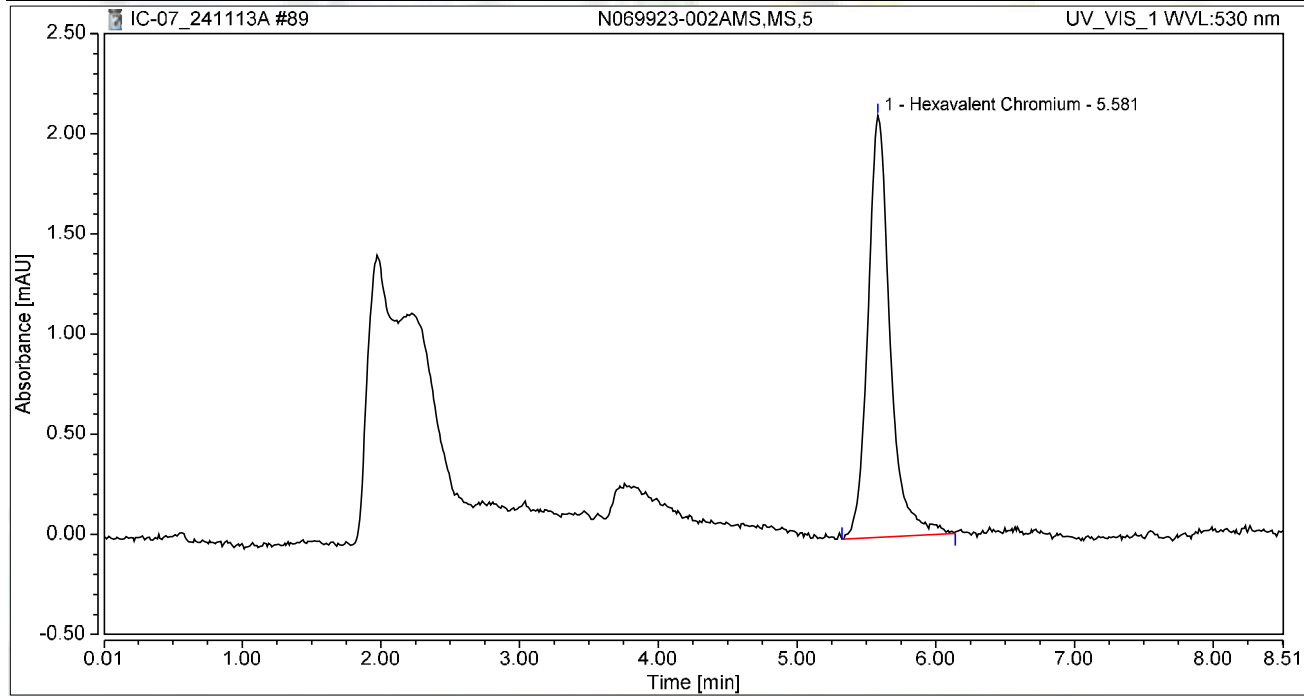
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.598	0.083	0.498	100.00	100.00	0.2927
Total:			0.083	0.498	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069923-002AMS,MS,5	Run Time (min):	8.50
Vial Number:	40	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 21:48	Sample Weight:	1.0000

Chromatogram



Integration Results

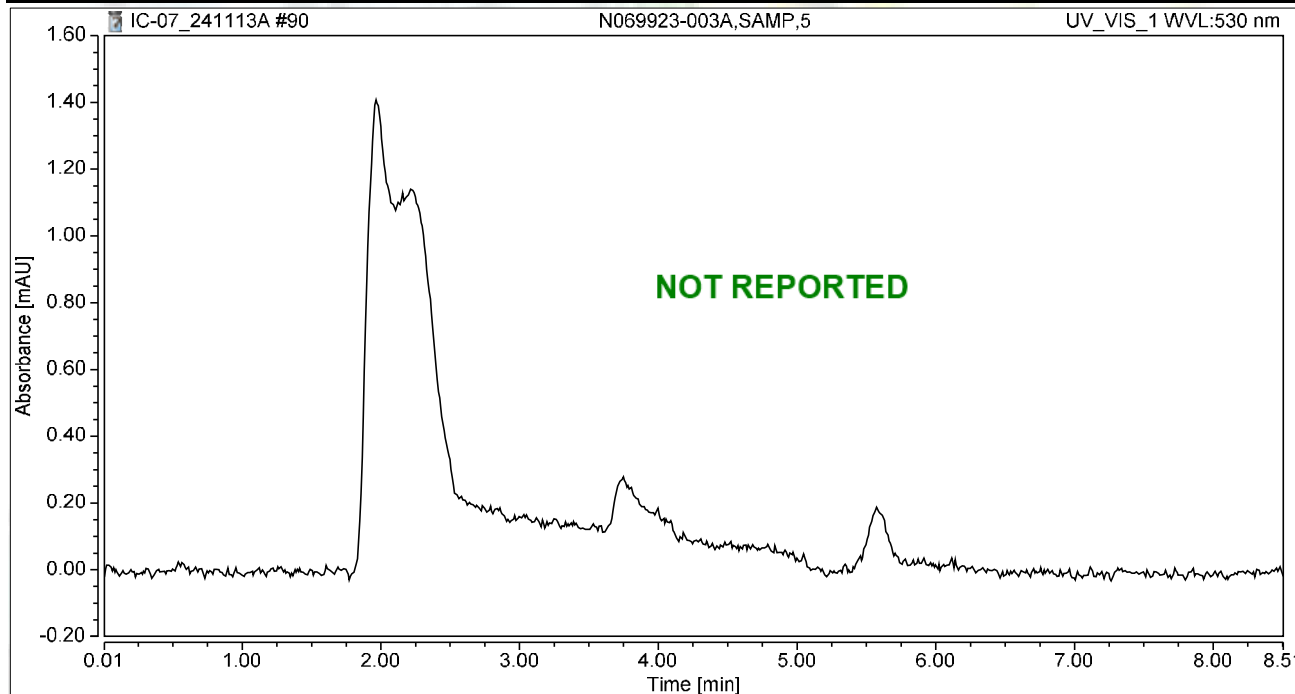
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.581	0.390	2.107	100.00	100.00	1.3752
Total:			0.390	2.107	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069923-003A,SAMP,5	Run Time (min):	8.50
Vial Number:	41	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 21:57	Sample Weight:	1.0000

Chromatogram



Integration Results

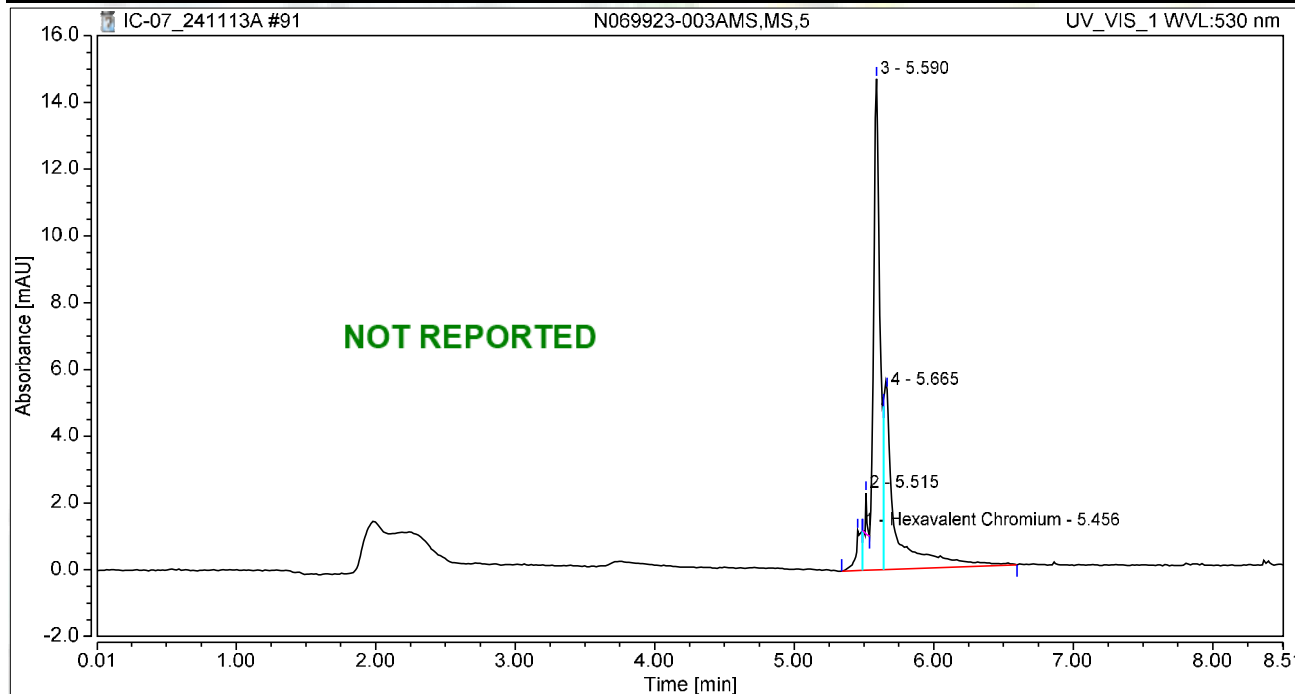
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069923-003AMS,MS,5	Run Time (min):	8.50
Vial Number:	42	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 22:07	Sample Weight:	1.0000

Chromatogram



Integration Results

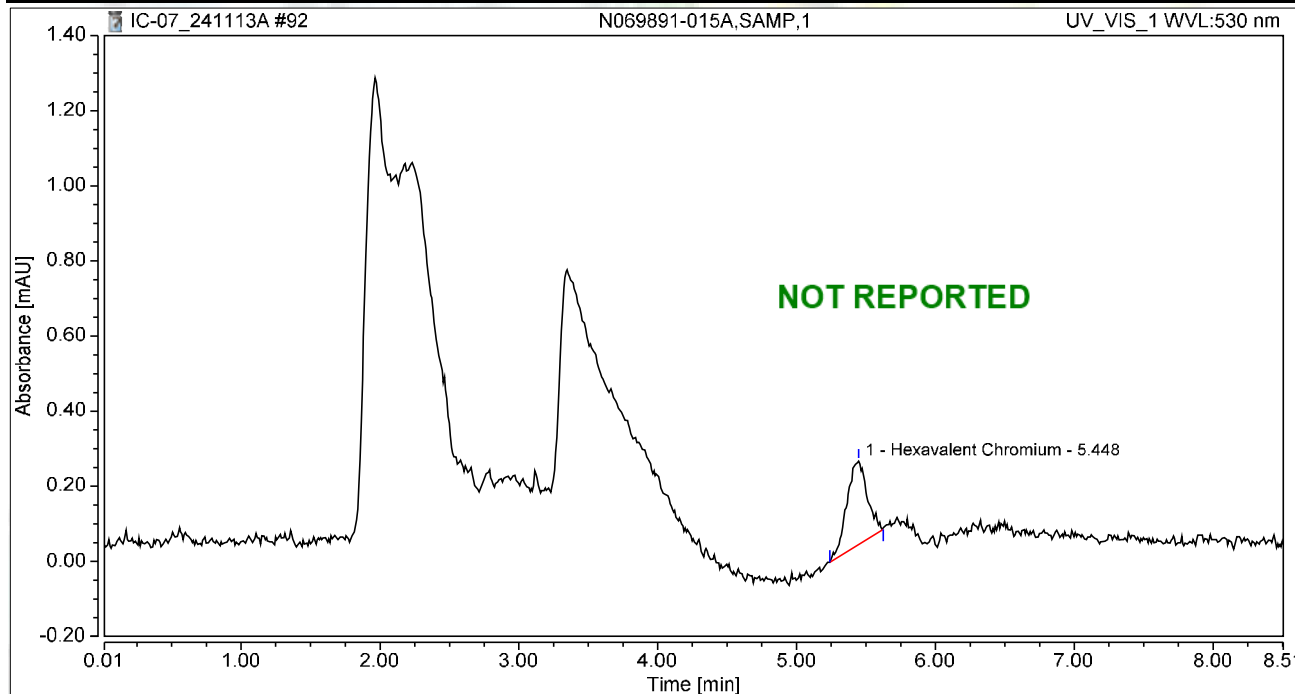
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.456	0.061	1.190	4.22	5.29	0.2142
2		5.515	0.014	1.212	0.96	5.39	n.a.
3		5.590	0.834	14.709	57.90	65.39	n.a.
4		5.665	0.532	5.384	36.92	23.94	n.a.
Total:			1.440	22.495	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-015A,SAMP,1	Run Time (min):	8.49
Vial Number:	43	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 22:16	Sample Weight:	1.0000

Chromatogram



Integration Results

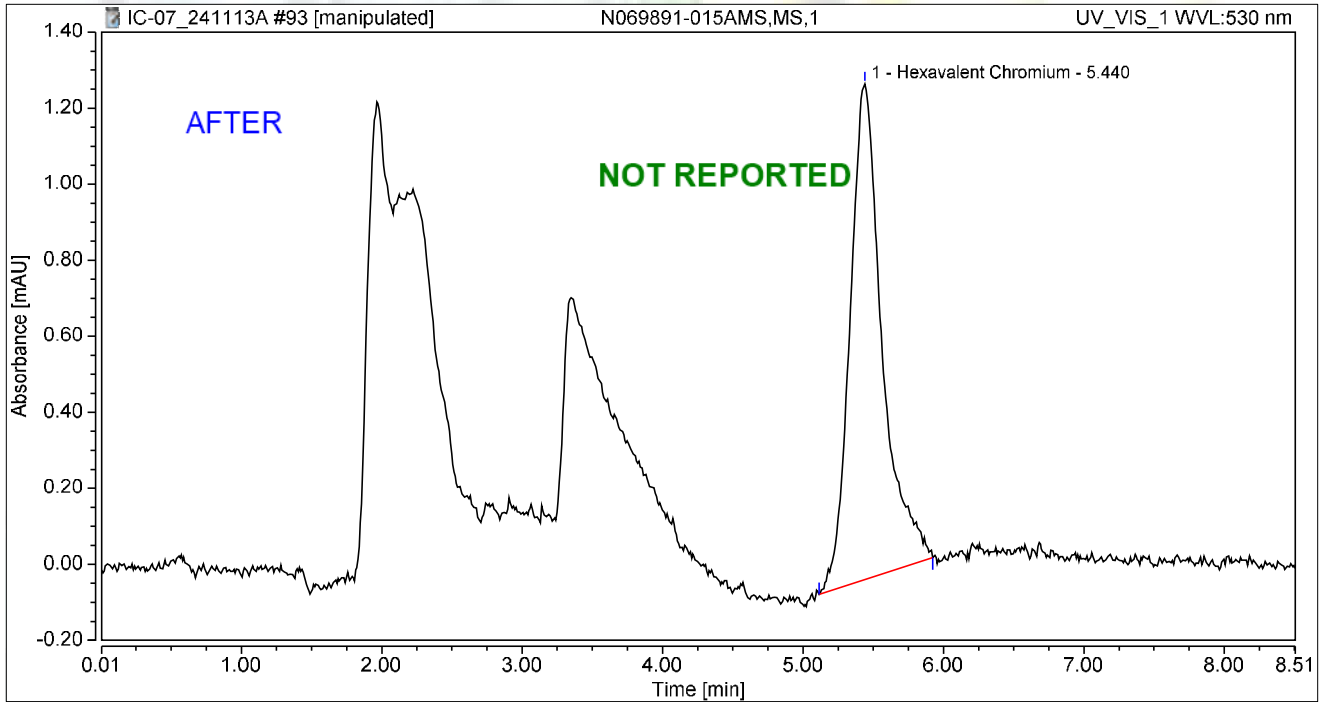
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.448	0.038	0.222	100.00	100.00	0.1339
Total:			0.038	0.222	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-015AMS,MS,1	Run Time (min):	8.50
Vial Number:	44	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 22:25	Sample Weight:	1.0000

Chromatogram



Integration Results

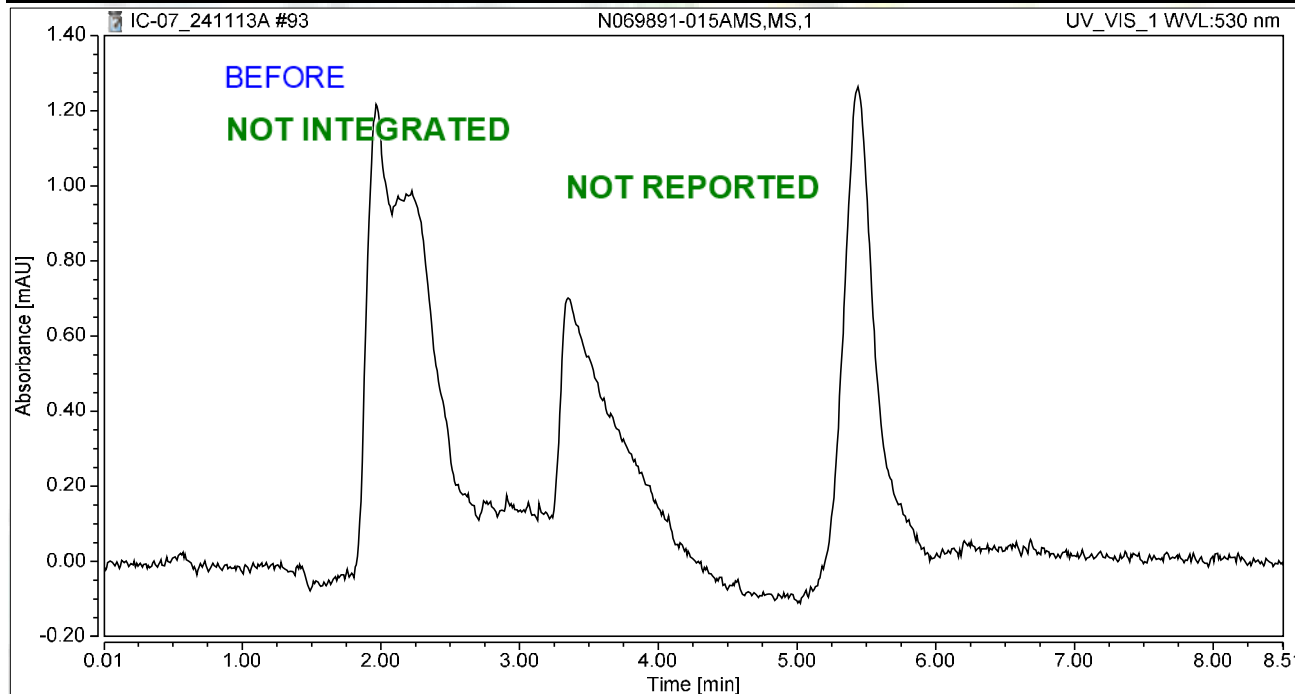
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.440	0.345	1.304	100.00	100.00	1.2143
Total:			0.345	1.304	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-015AMS,MS,1	Run Time (min):	8.50
Vial Number:	44	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 22:25	Sample Weight:	1.0000

Chromatogram



Integration Results

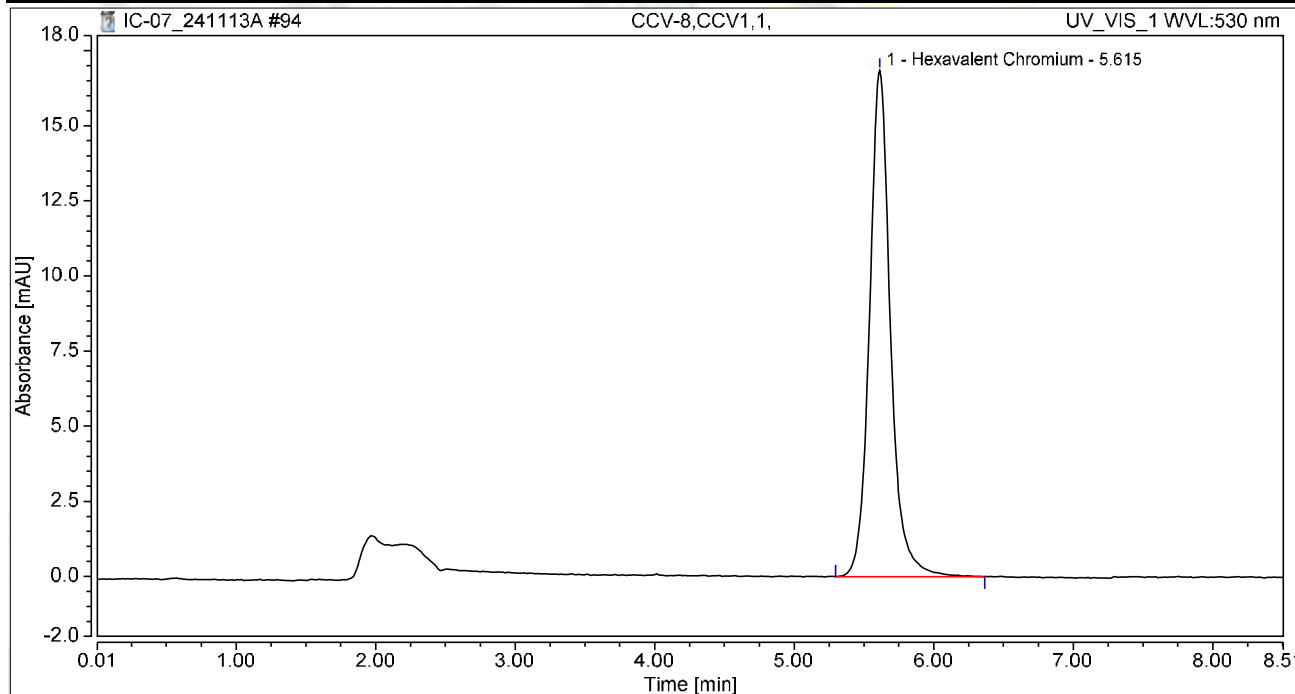
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	CCV-8,CCV1,1,	Run Time (min):	8.50
Vial Number:	45	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 22:35	Sample Weight:	1.0000

Chromatogram



Integration Results

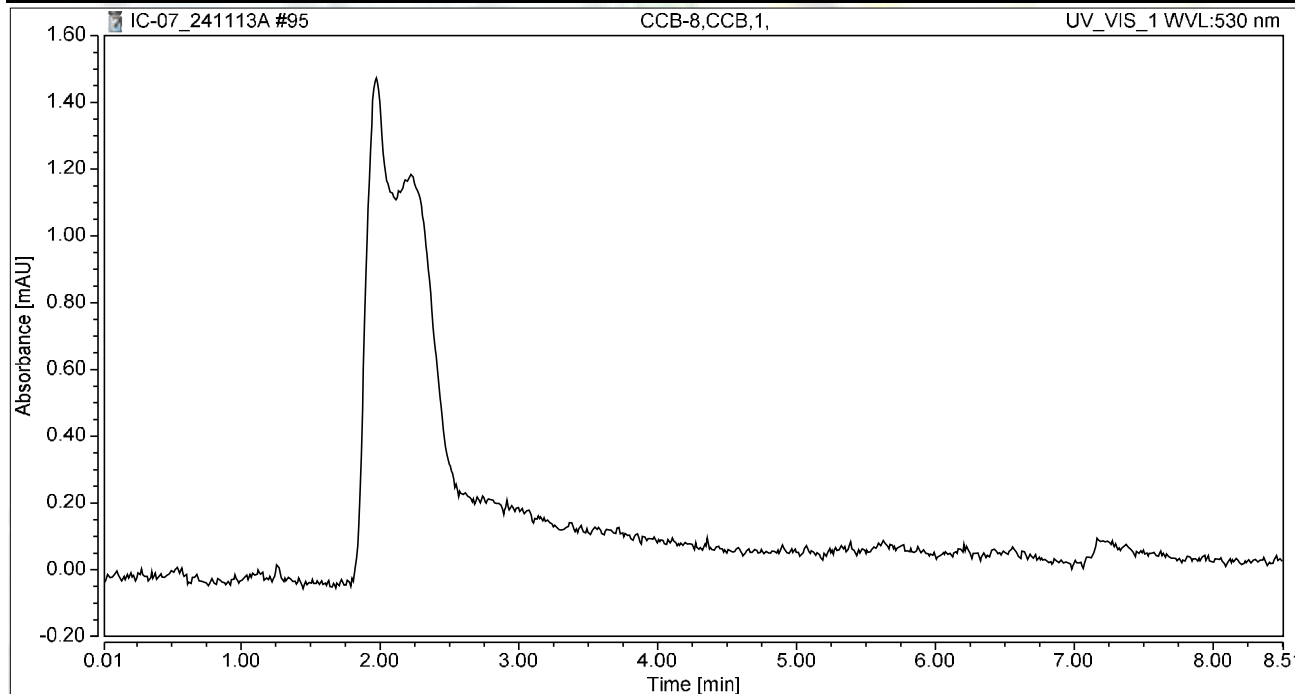
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.615	2.937	16.857	100.00	100.00	10.3521
Total:			2.937	16.857	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	CCB-8,CCB,1,	Run Time (min):	8.49
Vial Number:	46	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 22:44	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

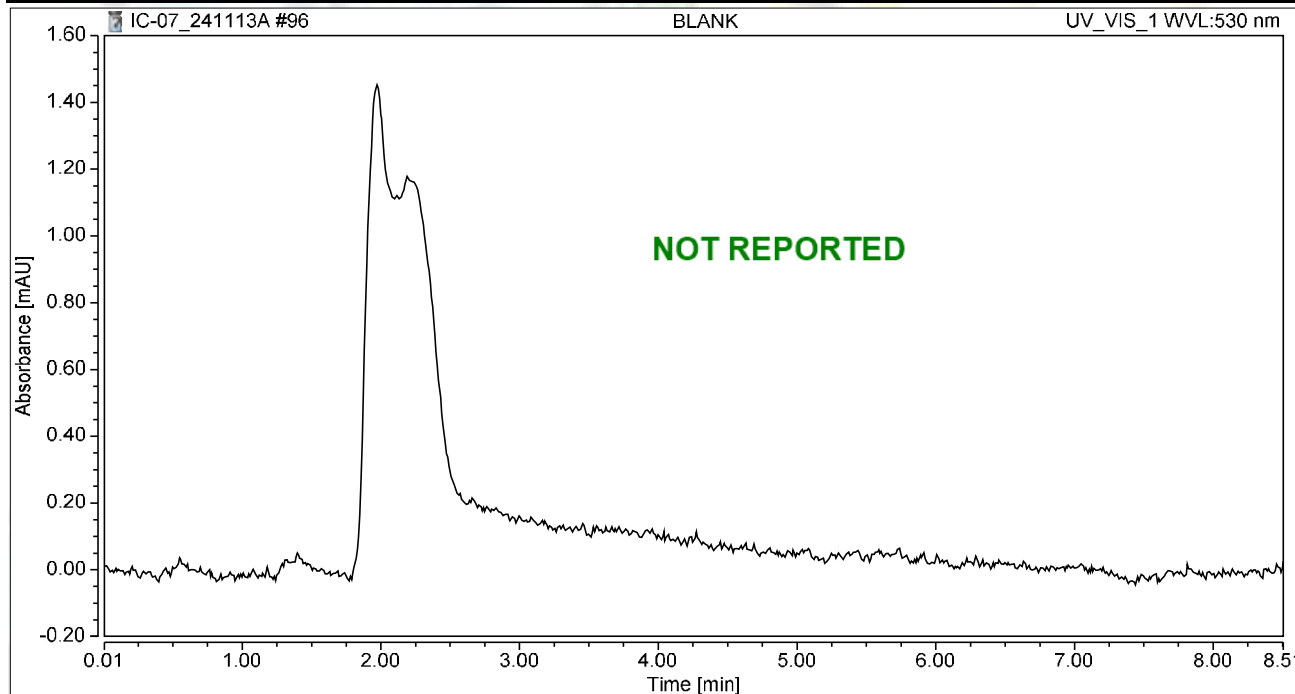


Chromatogram and Results

Injection Details

Injection Name:	BLANK	Run Time (min):	8.50
Vial Number:	47	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241028A_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	13/Nov/24 22:54	Sample Weight:	1.0000

Chromatogram



Integration Results

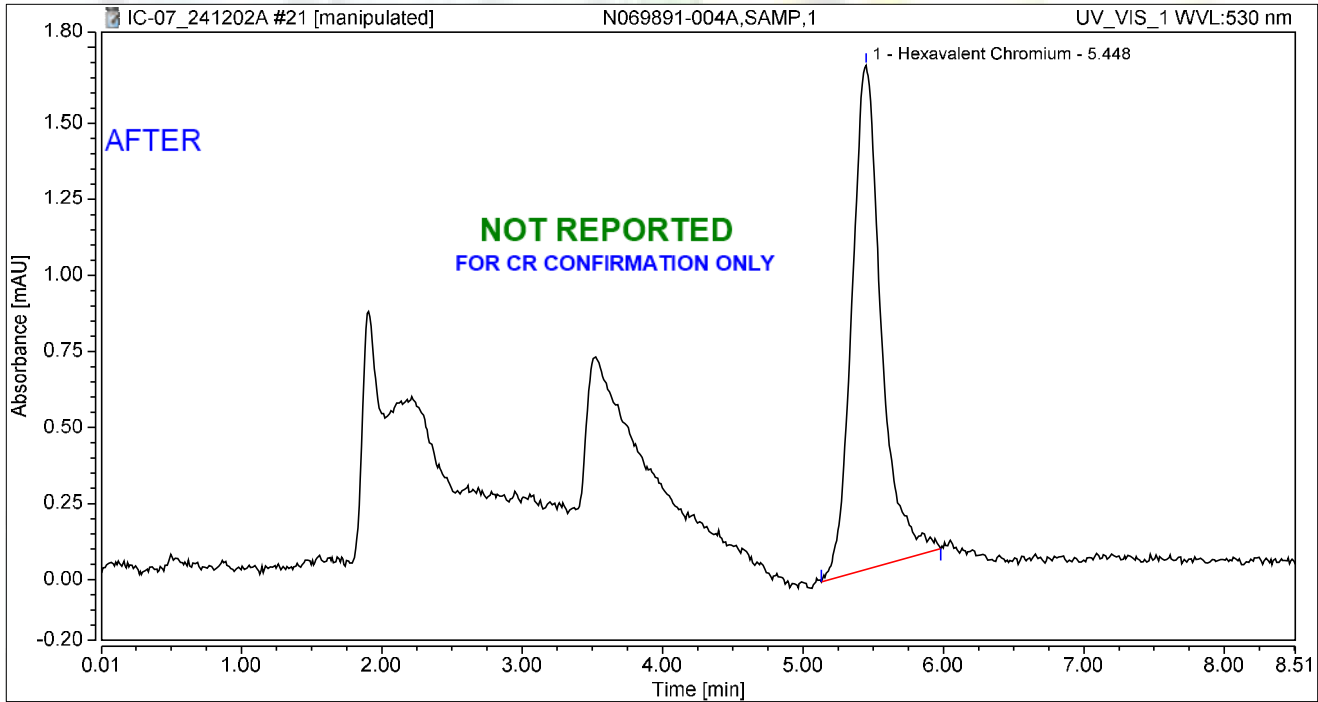
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
n.a.	Hexavalent Chromium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total:			0.000	0.000	0.00	0.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-004A,SAMP,1	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241126_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	02/Dec/24 12:42	Sample Weight:	1.0000

Chromatogram



Integration Results

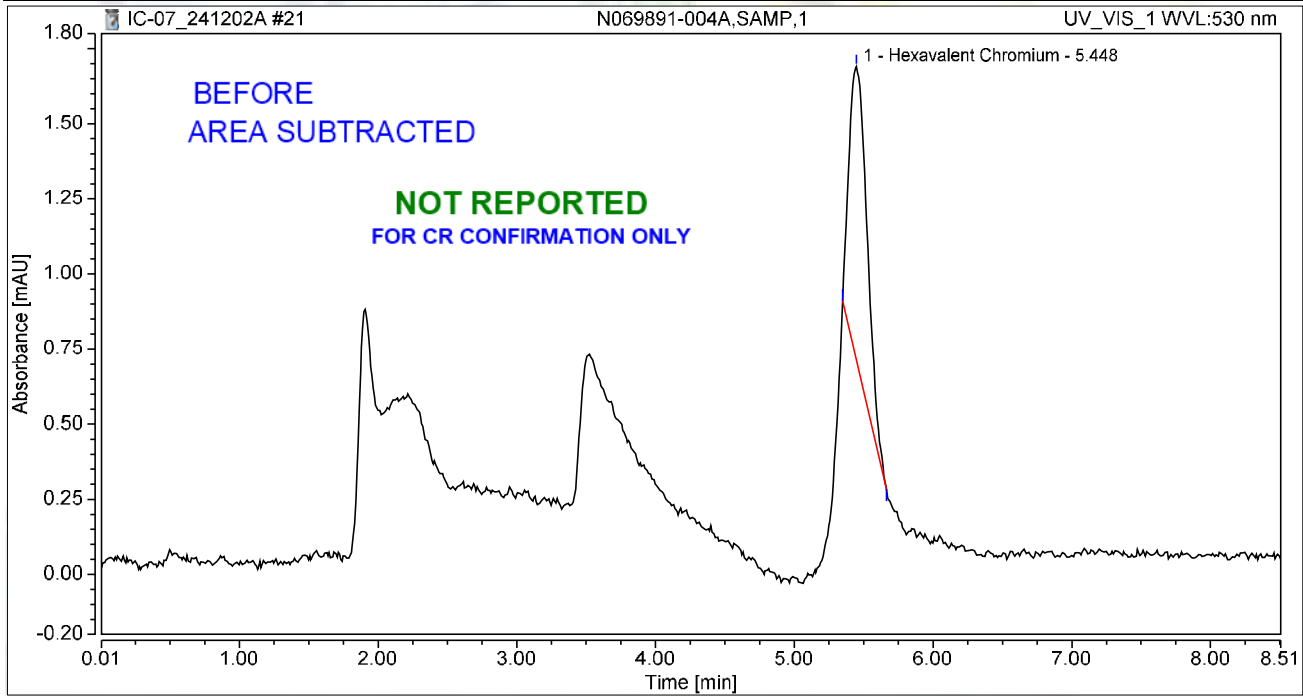
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.448	0.402	1.657	100.00	100.00	1.5617
Total:			0.402	1.657	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-004A,SAMP,1	Run Time (min):	8.50
Vial Number:	7	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241126_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	02/Dec/24 12:42	Sample Weight:	1.0000

Chromatogram

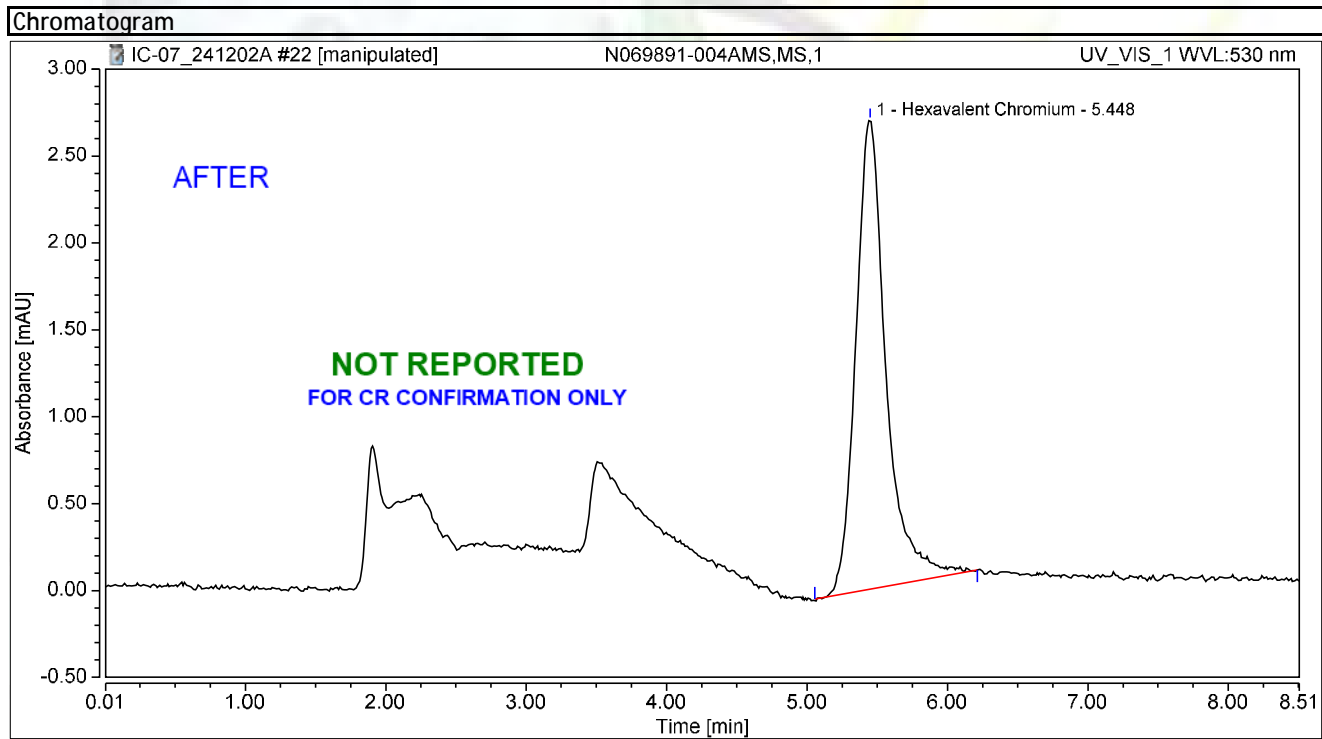


Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.448	0.148	0.978	100.00	100.00	0.5775
Total:			0.148	0.978	100.00	100.00	

Chromatogram and Results

Injection Details		
Injection Name:	N069891-004AMS,MS,1	Run Time (min): 8.50
Vial Number:	8	Injection Volume: 1000.00
Injection Type:	Unknown	Channel: UV_VIS_1
Calibration Level:		Wavelength: 530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth: n.a.
Processing Method:	241126_IC-07_Cr6_218_6_HIGH	Dilution Factor: 1.0000
Injection Date/Time:	02/Dec/24 12:51	Sample Weight: 1.0000



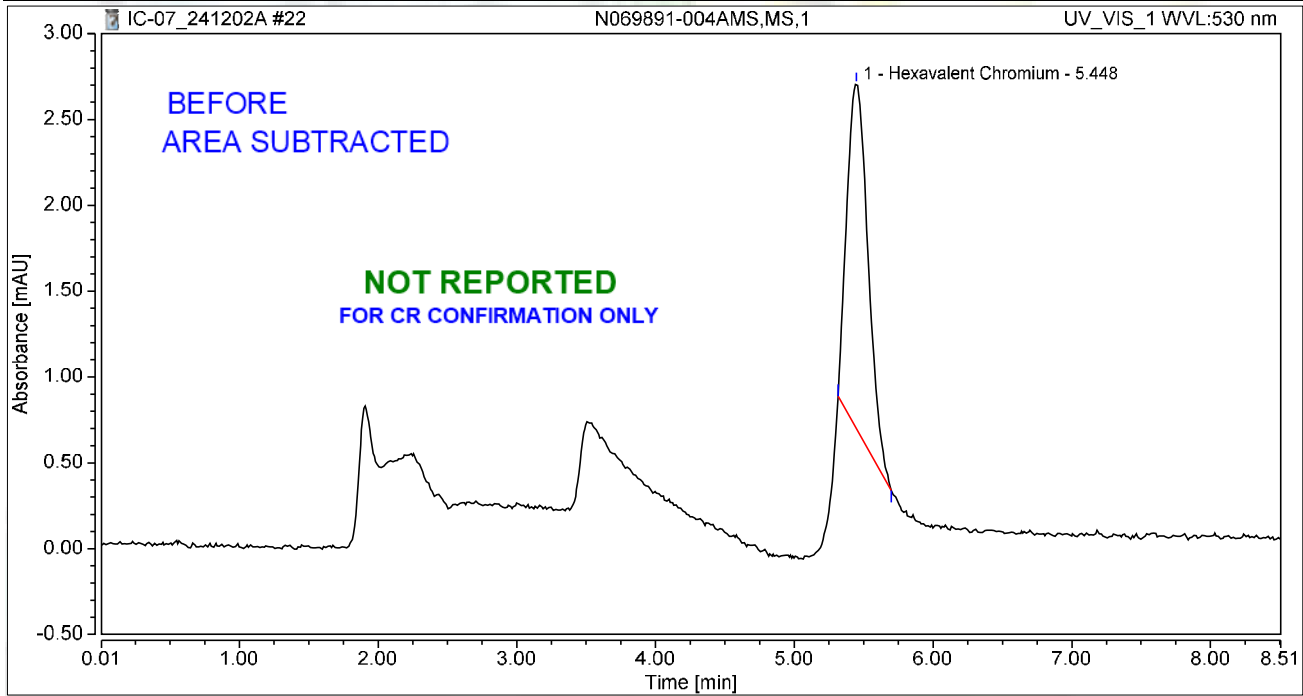
Integration Results							
No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.448	0.673	2.697	100.00	100.00	2.6169
Total:			0.673	2.697	100.00	100.00	

Chromatogram and Results

Injection Details

Injection Name:	N069891-004AMS,MS,1	Run Time (min):	8.50
Vial Number:	8	Injection Volume:	1000.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	530.0
Instrument Method:	Hex Chrom 4 mm	Bandwidth:	n.a.
Processing Method:	241126_IC-07_Cr6_218_6_HIGH	Dilution Factor:	1.0000
Injection Date/Time:	02/Dec/24 12:51	Sample Weight:	1.0000

Chromatogram



Integration Results

No.	Peak Name	Retention Time min	Area mAU*min	Height mAU	Relative Area %	Relative Height %	Amount ug/L
1	Hexavalent Chromium	5.448	0.357	2.008	100.00	100.00	1.3903
Total:			0.357	2.008	100.00	100.00	

EPA 300.0



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IC Technical Batch Review Checklist (ARCUS02)

IC ARCUS
REV 2.0
011416

ASSET LABORATORIES - LAS VEGAS

QC Batch Number: R195536
ASSET #: N069891

Instrument ID: NV00922-IC8
Analyst: RBA
Date Analyzed: 11/12/2024

Method:

- EPA 300.0
- EPA 7199

- EPA 218.6/EPA 218.7
- EPA 218.6/EPA 218.7 LL
- Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria ?(r = 0.995, r =0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)			X			X
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?			X			X
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?			X			X
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
14. For Hinkley DOM samples, matrix spike protocol performed on all samples ? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed ?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)			X			X
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Is QC present and complete?	X		
4. Are analytical results correct? (dilutions, calculations)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer RBA
JRB 11/18/2024

Date: _____

2nd Level Reviewer _____

Date: _____



IC Technical Batch Review Checklist (ARCUS02)

IC ARCUS
REV 2.0
011416

ASSET LABORATORIES - LAS VEGAS

QC Batch Number: R195541
ASSET #: N069891

Instrument ID: NV00922-IC9
Analyst: RBA
Date Analyzed: 11/12/2024

Method:

- EPA 300.0
- EPA 7199

- EPA 218.6/EPA 218.7
- EPA 218.6/EPA 218.7 LL
- Others _____

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. ICAL before initial sample analysis and is not more than 4 weeks old.	X			X		
2. Does correlation coefficient, r, meet criteria ?(r = 0.995, r =0.999 (Cr6+))	X			X		
3. ICV within ± 10% of expected value.	X			X		
Continuing Calibration						
4. CCV after every 10 injections and at the end of analysis sequence.	X			X		
5. CCV within ± 10% of expected value. (± 5% for EPA 218.6)	X			X		
6. Calibration blanks run after ICV and CCV?	X			X		
7. Is the buffer less than MDL? If not, discontinue analysis. (Cr6+ only)			X			X
8. Do all calibration blanks (ICB and CCBs) meet criteria? (<1/2PQL for 300, <0.02 for Cr6+)	X			X		
9. Is low level check at PQL within ± 20% for 218.6/218.7/7199? ± 30% for 218.6/218.7LL?			X			X
Sample Information						
10. All samples are within linear range.	X			X		
11. All samples pH within 9.3-9.7 when analyzed?			X			X
12. Duplicate sample injections for every sample. (7199 only)			X			X
13. For Topock, matrix spike protocol performed on all samples? (Cr6+ only)			X			X
14. For Hinkley DOM samples, matrix spike protocol performed on all samples ? (Cr6+ only)			X			X
15. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
16. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
17. For samples that failed Cr vs Cr6+ criteria, is matrix spike protocol performed ?			X			X
18. For dilution and MS spike protocol, spike recovery within 90-110%? (Cr6+ only)			X			X
19. EPA 3060A digestion performed on solid samples (7199 only)			X			X
20. Are all peaks within RT window, ± 0.2 min?	X			X		
21. Are all samples analyzed within hold time?	X			X		
22. For Hinkley projects (DOM & ATU only), are samples with result ≤ 0.2 ug/L analyzed by low level method? (Cr6+ only)			X			X
QC Items						
23. Method blank values meets criteria. (<1/2 PQL for 300, <0.02 for Cr6+)	X			X		
24. LCS compounds are within control limits.	X			X		
25. MS/MSD, RPD's are within control limits.	X			X		
26. Soluble and Insoluble matrix spike within control limits (7199 solids only)			X			X
Raw Data and Miscellaneous Information						
27. Runlog complete and included in package.	X			X		
28. Extraction log complete and included in package (if applicable)			X			X
29. All manual integrations initialed, date and reasons included.	X			X		
30. Before and after manual integration chromatogram included in the package	X			X		
31. All samples and QC raw data present in package.	X			X		
Preliminary Report						
32. Does the raw data match the preliminary report?	X			X		
33. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
34. Is the QC summary report present and complete?	X			X		

Comments:

SECOND LEVEL REVIEW:

	Y	N	N/A
1. All assigned sample(s) analyzed			
2. Matrix / units correct			
3. Is QC present and complete?			
4. Are analytical results correct? (dilutions, calculations)			
5. Is first level review correct and complete?			

1st Level Reviewer RBA
2nd Level Reviewer *RBA* 11/27/2024

Date: 11/27/24
Date: —

SAMPLE CALCULATION



ASSET LABORATORIES
INTEGRATION OF ANALYTICAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

Sample Calculation

METHOD: EPA 300
TEST NAME: INORGANIC ANIONS BY IC
MATRIX: GROUNDWATER

FORMULA:

Calculate the Nitrate concentration, in mg/L, in the original sample as follows:

$$\text{Nitrate, mg/L} = A * DF$$

where:

A = mg/L, IC calculated concentration
DF = dilution factor

For **N069891-001B** concentration in mg/L is calculated as follows:

$$\begin{aligned} \text{Nitrate, mg/L} &= 0.965 * 10 \\ &= 9.65 \end{aligned}$$

Reporting result in two significant figures,

$$\text{Nitrate, mg/L} = \mathbf{9.6}$$

Reviewed by:

d/Rocha 12/29/2024

ANALYSIS RUN LOG



ASSET LABORATORIES
INTEGRATION • INNOVATION • IMPROVEMENT

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

"Serving Clients with Passion and Professionalism"

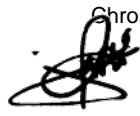
Sequence: IC-08_241023A
Operator: IC-05

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 11

Created: 10/23/2024 10:37:40 AM by IC-05
Last Update: 10/23/2024 3:11:06 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions Default	EPA 300_0_241023	Finished
2	Std - 0	Standard	2	1000.0	Anions Default	EPA 300_0_241023	Finished
3	Std - 1	Standard	3	1000.0	Anions Default	EPA 300_0_241023	Finished
4	Std - 2	Standard	4	1000.0	Anions Default	EPA 300_0_241023	Finished
5	Std - 3	Standard	5	1000.0	Anions Default	EPA 300_0_241023	Finished
6	Std - 4	Unknown	6	1000.0	Anions Default	EPA 300_0_241023	Finished
7	Std - 5	Unknown	7	1000.0	Anions Default	EPA 300_0_241023	Finished
8	Std - 4	Standard	8	1000.0	Anions Default	EPA 300_0_241023	Finished
9	Std - 5	Standard	9	1000.0	Anions Default	EPA 300_0_241023	Finished
10	ICV,ICV,1	Unknown	11	1000.0	Anions Default	EPA 300_0_241023	Finished
11	ICB,ICB,1	Unknown	12	1000.0	Anions Default	EPA 300_0_241023	Finished

Processed by:



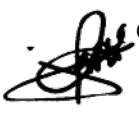
Sequence: IC-08_241023A
Operator: IC-05

Page 2 of 2
Printed: 10/23/2024 8:07:33 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 11

Created: 10/23/2024 10:37:40 AM by IC-05
Last Update: 10/23/2024 3:11:06 PM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	10/23/2024 10:53:18 AM	BLANK
2	Std - 0	10/23/2024 11:09:36 AM	IBLANK
3	Std - 1	10/23/2024 11:50:13 AM	STD-LOW
4	Std - 2	10/23/2024 12:06:31 PM	STD
5	Std - 3	10/23/2024 12:22:49 PM	STD
6	Std - 4	10/23/2024 12:39:07 PM	STD
7	Std - 5	10/23/2024 12:55:25 PM	STD-HIGH
8	Std - 4	10/23/2024 1:53:50 PM	STD
9	Std - 5	10/23/2024 2:10:09 PM	STD-HIGH
10	ICV,ICV,1	10/23/2024 2:43:53 PM	ICV, IWST-241023B
11	ICB,ICB,1	10/23/2024 3:11:09 PM	ICB



Sequence: IC-08_241112A
Operator: IC-05

Page 1 of 2
Printed: 11/12/2024 5:16:07 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 36

Created: 11/11/2024 11:45:38 AM by IC-05
Last Update: 11/12/2024 11:07:57 AM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions Default	EPA 300_0_241023	Finished
2	Std - 0	Standard	2	1000.0	Anions Default	EPA 300_0_241023	Finished
3	Std - 1	Standard	3	1000.0	Anions Default	EPA 300_0_241023	Finished
4	Std - 2	Standard	4	1000.0	Anions Default	EPA 300_0_241023	Finished
5	Std - 3	Standard	5	1000.0	Anions Default	EPA 300_0_241023	Finished
6	Std - 4	Unknown	6	1000.0	Anions Default	EPA 300_0_241023	Finished
7	Std - 5	Unknown	7	1000.0	Anions Default	EPA 300_0_241023	Finished
8	Std - 4	Standard	8	1000.0	Anions Default	EPA 300_0_241023	Finished
9	Std - 5	Standard	9	1000.0	Anions Default	EPA 300_0_241023	Finished
10	BLANK	Unknown	1	1000.0	Anions Default	EPA 300_0_241023	Finished
11	CCV-1,CCV,1	Unknown	2	1000.0	Anions Default	EPA 300_0_241023	Finished
12	CCB-1,CCB,1	Unknown	3	1000.0	Anions Default	EPA 300_0_241023	Finished
13	MB-H2O,MBLK,1	Unknown	4	1000.0	Anions Default	EPA 300_0_241023	Finished
14	LCS-H2O,LCS,1	Unknown	5	1000.0	Anions Default	EPA 300_0_241023	Finished
15	MB-H2O,MBLK,1	Unknown	6	1000.0	Anions Default	EPA 300_0_241023	Finished
16	N069891-010B,SAMP,10	Unknown	7	1000.0	Anions Default	EPA 300_0_241023	Finished
17	N069891-010BMS,MS,10	Unknown	8	1000.0	Anions Default	EPA 300_0_241023	Finished
18	N069891-010BMSD,MSD,10	Unknown	9	1000.0	Anions Default	EPA 300_0_241023	Finished
19	N069891-014B,SAMP,10	Unknown	10	1000.0	Anions Default	EPA 300_0_241023	Finished
20	N069891-014BDUP,DUP,10	Unknown	11	1000.0	Anions Default	EPA 300_0_241023	Finished
21	N069891-014BMS,MS,10	Unknown	12	1000.0	Anions Default	EPA 300_0_241023	Finished
22	N069891-001B,SAMP,10	Unknown	13	1000.0	Anions Default	EPA 300_0_241023	Finished
23	CCV-2,CCV,1	Unknown	14	1000.0	Anions Default	EPA 300_0_241023	Finished
24	CCB-2,CCB,1	Unknown	15	1000.0	Anions Default	EPA 300_0_241023	Finished
25	N069891-002B,SAMP,10	Unknown	16	1000.0	Anions Default	EPA 300_0_241023	Finished
26	N069891-003B,SAMP,10	Unknown	17	1000.0	Anions Default	EPA 300_0_241023	Finished
27	N069891-004B,SAMP,10	Unknown	18	1000.0	Anions Default	EPA 300_0_241023	Finished
28	N069891-005B,SAMP,10	Unknown	19	1000.0	Anions Default	EPA 300_0_241023	Finished
29	N069891-007B,SAMP,10	Unknown	20	1000.0	Anions Default	EPA 300_0_241023	Finished
30	N069891-009B,SAMP,10	Unknown	21	1000.0	Anions Default	EPA 300_0_241023	Finished
31	N069891-011B,SAMP,10	Unknown	22	1000.0	Anions Default	EPA 300_0_241023	Finished
32	N069891-012B,SAMP,10	Unknown	23	1000.0	Anions Default	EPA 300_0_241023	Finished
33	N069891-015B,SAMP,10	Unknown	24	1000.0	Anions Default	EPA 300_0_241023	Finished
34	N069891-016B,SAMP,10	Unknown	25	1000.0	Anions Default	EPA 300_0_241023	Finished
35	CCV-3,CCV,1	Unknown	26	1000.0	Anions Default	EPA 300_0_241023	Finished
36	CCB-3,CCB,1	Unknown	27	1000.0	Anions Default	EPA 300_0_241023	Finished

Processed by:

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NV00922-IC8 RBA 11/12/2024 5:16:29 PM

385

11/12/2024

Sequence: IC-08_241112A
Operator: IC-05

Page 2 of 2
Printed: 11/12/2024 5:16:07 PM

Title:
Datasource: D1NZHKQ1_local
Location: IC-08_ANIONS\2_Data\2023_as of September_Anions
Timebase: IC-08_ANIONS
#Samples: 36

Created: 11/11/2024 11:45:38 AM by IC-05
Last Update: 11/12/2024 11:07:57 AM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	10/23/2024 10:53:18 AM	BLANK
2	Std - 0	10/23/2024 11:09:36 AM	IBLANK
3	Std - 1	10/23/2024 11:50:13 AM	STD-LOW
4	Std - 2	10/23/2024 12:06:31 PM	STD
5	Std - 3	10/23/2024 12:22:49 PM	STD
6	Std - 4	10/23/2024 12:39:07 PM	STD
7	Std - 5	10/23/2024 12:55:25 PM	STD-HIGH
8	Std - 4	10/23/2024 1:53:50 PM	STD
9	Std - 5	10/23/2024 2:10:09 PM	STD-HIGH
10	BLANK	11/12/2024 7:18:53 AM	BLANK
11	CCV-1,CCV,1	11/12/2024 7:35:11 AM	CCV, IWST-241106A
12	CCB-1,CCB,1	11/12/2024 7:51:29 AM	CCB
13	MB-H2O,MBLK,1	11/12/2024 8:07:47 AM	MB
14	LCS-H2O,LCS,1	11/12/2024 8:24:05 AM	LCS, IWST-241106B
15	MB-H2O,MBLK,1	11/12/2024 8:46:16 AM	MB
16	N069891-010B,SAMP,10	11/12/2024 9:55:39 AM	SAMP,1>10mL,
17	N069891-010BMS,MS,10	11/12/2024 10:11:56 AM	MS,1>10mL,
18	N069891-010BMSD,MSD,10	11/12/2024 10:28:15 AM	MSD,1>10mL,
19	N069891-014B,SAMP,10	11/12/2024 10:44:32 AM	SAMP,1>10mL,
20	N069891-014BDUP,DUP,10	11/12/2024 11:00:50 AM	DUP,1>10mL,
21	N069891-014BMS,MS,10	11/12/2024 11:17:08 AM	MS,1>10mL,
22	N069891-001B,SAMP,10	11/12/2024 11:33:26 AM	SAMP,1>10mL,
23	CCV-2,CCV,1	11/12/2024 11:49:44 AM	CCV, IWST-241106A
24	CCB-2,CCB,1	11/12/2024 12:06:02 PM	CCB
25	N069891-002B,SAMP,10	11/12/2024 12:22:20 PM	SAMP,1>10mL,
26	N069891-003B,SAMP,10	11/12/2024 12:38:39 PM	SAMP,1>10mL,
27	N069891-004B,SAMP,10	11/12/2024 12:54:57 PM	SAMP,1>10mL,
28	N069891-005B,SAMP,10	11/12/2024 1:11:15 PM	SAMP,1>10mL,
29	N069891-007B,SAMP,10	11/12/2024 1:27:33 PM	SAMP,1>10mL,
30	N069891-009B,SAMP,10	11/12/2024 1:43:51 PM	SAMP,1>10mL,
31	N069891-011B,SAMP,10	11/12/2024 2:00:10 PM	SAMP,1>10mL,
32	N069891-012B,SAMP,10	11/12/2024 2:16:27 PM	SAMP,1>10mL,
33	N069891-015B,SAMP,10	11/12/2024 2:32:45 PM	SAMP,1>10mL,
34	N069891-016B,SAMP,10	11/12/2024 2:49:04 PM	SAMP,1>10mL,
35	CCV-3,CCV,1	11/12/2024 3:05:22 PM	CCV, IWST-241106A
36	CCB-3,CCB,1	11/12/2024 3:21:40 PM	CCB

Sequence: IC-09_241111A
Operator: IC-05

Page 1 of 2
Printed: 11/11/2024 9:01:04 PM

Title:

Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 11

Created: 11/11/2024 9:46:51 AM by IC-05
Last Update: 11/11/2024 12:49:03 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions_Default	EPA 300_0_241111A	Finished
2	Std - 0	Standard	2	1000.0	Anions_Default	EPA 300_0_241111A	Finished
3	Std - 1	Standard	4	1000.0	Anions_Default	EPA 300_0_241111A	Finished
4	Std - 2	Standard	5	1000.0	Anions_Default	EPA 300_0_241111A	Finished
5	Std - 3	Standard	6	1000.0	Anions_Default	EPA 300_0_241111A	Finished
6	Std - 4	Standard	7	1000.0	Anions_Default	EPA 300_0_241111A	Finished
7	Std - 5	Standard	8	1000.0	Anions_Default	EPA 300_0_241111A	Finished
8	ICV,ICV,1	Unknown	14	1000.0	Anions_Default	EPA 300_0_241111A	Finished
9	ICB,ICB,1	Unknown	15	1000.0	Anions_Default	EPA 300_0_241111A	Finished
10	ICV,ICV,1	Unknown	16	1000.0	Anions_Default	EPA 300_0_241111A	Finished
11	ICB,ICB,1	Unknown	17	1000.0	Anions_Default	EPA 300_0_241111A	Finished

Processed by:

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11/11/2024

NV00922-IC9 RBA 11/11/2024 9:01:26 PM

387

Sequence: IC-09_241111A
Operator: IC-05

Page 2 of 2
Printed: 11/11/2024 9:01:04 PM

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 11

Created: 11/11/2024 9:46:51 AM by IC-05
Last Update: 11/11/2024 12:49:03 PM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	11/11/2024 9:47:10 AM	BLANK
2	Std - 0	11/11/2024 10:02:29 AM	IBLANK
3	Std - 1	11/11/2024 10:32:18 AM	STD-LOW
4	Std - 2	11/11/2024 10:48:14 AM	STD
5	Std - 3	11/11/2024 11:04:09 AM	STD
6	Std - 4	11/11/2024 11:20:05 AM	STD
7	Std - 5	11/11/2024 11:36:00 AM	STD-HIGH
8	ICV,ICV,1	11/11/2024 12:35:39 PM	ICV, IWST-241106B
9	ICB,ICB,1	11/11/2024 12:51:34 PM	ICB
10	ICV,ICV,1	11/11/2024 1:07:29 PM	ICV, IWST-241106B
11	ICB,ICB,1	11/11/2024 1:23:26 PM	ICB

Sequence: IC-09_241112A
Operator: IC-05

Page 1 of 2
Printed: 11/12/2024 6:38:39 PM

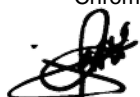
Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 34

Created: 11/12/2024 8:49:25 AM by IC-05
Last Update: 11/12/2024 12:38:33 PM by IC-05

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status
1	BLANK	Unknown	1	1000.0	Anions_Default	EPA 300_0_241111A	Finished
2	Std - 0	Standard	2	1000.0	Anions_Default	EPA 300_0_241111A	Finished
3	Std - 1	Standard	4	1000.0	Anions_Default	EPA 300_0_241111A	Finished
4	Std - 2	Standard	5	1000.0	Anions_Default	EPA 300_0_241111A	Finished
5	Std - 3	Standard	6	1000.0	Anions_Default	EPA 300_0_241111A	Finished
6	Std - 4	Standard	7	1000.0	Anions_Default	EPA 300_0_241111A	Finished
7	Std - 5	Standard	8	1000.0	Anions_Default	EPA 300_0_241111A	Finished
8	BLANK	Unknown	1	1000.0	Anions_Default	EPA 300_0_241111A	Finished
9	CCV-1,CCV,1	Unknown	2	1000.0	Anions_Default	EPA 300_0_241111A	Finished
10	CCB-1,CCB,1	Unknown	3	1000.0	Anions_Default	EPA 300_0_241111A	Finished
11	MB-H2O,MBLK,1	Unknown	4	1000.0	Anions_Default	EPA 300_0_241111A	Finished
12	LCS-H2O,LCS,1	Unknown	5	1000.0	Anions_Default	EPA 300_0_241111A	Finished
13	MB-H2O,MBLK,1	Unknown	6	1000.0	Anions_Default	EPA 300_0_241111A	Finished
14	N069891-010B,SAMP,50	Unknown	7	1000.0	Anions_Default	EPA 300_0_241111A	Finished
15	N069891-010BMS,MS,50	Unknown	8	1000.0	Anions_Default	EPA 300_0_241111A	Finished
16	N069891-010BMSD,MSD,50	Unknown	9	1000.0	Anions_Default	EPA 300_0_241111A	Finished
17	N069891-014B,SAMP,50	Unknown	10	1000.0	Anions_Default	EPA 300_0_241111A	Finished
18	N069891-014BDUP,DUP,50	Unknown	11	1000.0	Anions_Default	EPA 300_0_241111A	Finished
19	N069891-014BMS,MS,50	Unknown	12	1000.0	Anions_Default	EPA 300_0_241111A	Finished
20	N069891-001B,SAMP,50	Unknown	14	1000.0	Anions_Default	EPA 300_0_241111A	Finished
21	CCV-2,CCV,1	Unknown	15	1000.0	Anions_Default	EPA 300_0_241111A	Finished
22	CCB-2,CCB,1	Unknown	16	1000.0	Anions_Default	EPA 300_0_241111A	Finished
23	N069891-002B,SAMP,50	Unknown	17	1000.0	Anions_Default	EPA 300_0_241111A	Finished
24	N069891-003B,SAMP,50	Unknown	18	1000.0	Anions_Default	EPA 300_0_241111A	Finished
25	N069891-004B,SAMP,100	Unknown	19	1000.0	Anions_Default	EPA 300_0_241111A	Finished
26	N069891-005B,SAMP,100	Unknown	20	1000.0	Anions_Default	EPA 300_0_241111A	Finished
27	N069891-007B,SAMP,100	Unknown	21	1000.0	Anions_Default	EPA 300_0_241111A	Finished
28	N069891-009B,SAMP,50	Unknown	22	1000.0	Anions_Default	EPA 300_0_241111A	Finished
29	N069891-011B,SAMP,50	Unknown	23	1000.0	Anions_Default	EPA 300_0_241111A	Finished
30	N069891-012B,SAMP,50	Unknown	24	1000.0	Anions_Default	EPA 300_0_241111A	Finished
31	N069891-015B,SAMP,50	Unknown	25	1000.0	Anions_Default	EPA 300_0_241111A	Finished
32	N069891-016B,SAMP,50	Unknown	26	1000.0	Anions_Default	EPA 300_0_241111A	Finished
33	CCV-3,CCV,1	Unknown	27	1000.0	Anions_Default	EPA 300_0_241111A	Finished
34	CCB-3,CCB,1	Unknown	28	1000.0	Anions_Default	EPA 300_0_241111A	Finished

Processed by:

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11/12/2024

NV00922-IC9 RBA 11/12/2024 6:38:58 PM

389

Sequence: IC-09_241112A
Operator: IC-05

Page 2 of 2
Printed: 11/12/2024 6:38:39 PM

Title:
Datasource: D1NZHKQ1_local
Location: ICS-2000_PERC\2_Data\2023_Perc_Anion2
Timebase: ICS-2000_PERC
#Samples: 34

Created: 11/12/2024 8:49:25 AM by IC-05
Last Update: 11/12/2024 12:38:33 PM by IC-05

No.	Name	Inj. Date/Time	Comment
1	BLANK	11/11/2024 9:47:10 AM	BLANK
2	Std - 0	11/11/2024 10:02:29 AM	IBLANK
3	Std - 1	11/11/2024 10:32:18 AM	STD-LOW
4	Std - 2	11/11/2024 10:48:14 AM	STD
5	Std - 3	11/11/2024 11:04:09 AM	STD
6	Std - 4	11/11/2024 11:20:05 AM	STD
7	Std - 5	11/11/2024 11:36:00 AM	STD-HIGH
8	BLANK	11/12/2024 8:50:28 AM	BLANK
9	CCV-1,CCV,1	11/12/2024 9:05:47 AM	CCV, IWST-241106A
10	CCB-1,CCB,1	11/12/2024 9:21:42 AM	CCB
11	MB-H2O,MBLK,1	11/12/2024 9:37:38 AM	MB
12	LCS-H2O,LCS,1	11/12/2024 9:53:33 AM	LCS, IWST-241106A
13	MB-H2O,MBLK,1	11/12/2024 10:09:29 AM	MB
14	N069891-010B,SAMP,50	11/12/2024 10:25:25 AM	SAMP,0.2>10mL,
15	N069891-010BMS,MS,50	11/12/2024 10:41:21 AM	MS,0.2>10mL,
16	N069891-010BMSD,MSD,50	11/12/2024 10:57:16 AM	MSD,0.2>10mL,
17	N069891-014B,SAMP,50	11/12/2024 11:13:11 AM	SAMP,0.2>10mL,
18	N069891-014BDUP,DUP,50	11/12/2024 11:29:07 AM	DUP,0.2>10mL,
19	N069891-014BMS,MS,50	11/12/2024 11:45:03 AM	SAMP,0.2>10mL,
20	N069891-001B,SAMP,50	11/12/2024 12:00:58 PM	SAMP,0.2>10mL,
21	CCV-2,CCV,1	11/12/2024 12:16:54 PM	CCV, IWST-241106A
22	CCB-2,CCB,1	11/12/2024 12:32:49 PM	CCB
23	N069891-002B,SAMP,50	11/12/2024 12:48:45 PM	SAMP,0.2>10mL,
24	N069891-003B,SAMP,50	11/12/2024 1:04:40 PM	SAMP,0.2>10mL,
25	N069891-004B,SAMP,100	11/12/2024 1:20:36 PM	SAMP,0.1>10mL,
26	N069891-005B,SAMP,100	11/12/2024 1:36:32 PM	SAMP,0.1>10mL,
27	N069891-007B,SAMP,100	11/12/2024 1:52:26 PM	SAMP,0.1>10mL,
28	N069891-009B,SAMP,50	11/12/2024 2:08:22 PM	SAMP,0.2>10mL,
29	N069891-011B,SAMP,50	11/12/2024 2:24:17 PM	SAMP,0.2>10mL,
30	N069891-012B,SAMP,50	11/12/2024 2:40:12 PM	SAMP,0.2>10mL,
31	N069891-015B,SAMP,50	11/12/2024 2:56:08 PM	SAMP,0.2>10mL,
32	N069891-016B,SAMP,50	11/12/2024 3:12:03 PM	SAMP,0.2>10mL,
33	CCV-3,CCV,1	11/12/2024 3:27:58 PM	CCV, IWST-241106A
34	CCB-3,CCB,1	11/12/2024 3:43:54 PM	CCB

INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
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"Serving Clients with Passion and Professionalism"

(EPA 300) - INITIAL CALIBRATION

Instrument ID: NV00922-IC8
Date Calibrated: 10/23/2024

Initial Calibration:

Nitrate	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in mg/L	0	0.05	0.25	0.5	1.25	2.5	R ²
Area,mAU*min	0.0000	0.0175	0.0867	0.1763	0.4446	0.9364	0.999
Measured, in mg/L	0.000000	0.070700	0.255200	0.494100	1.209500	2.520500	
Relative Error (%RE)		41.4%		-1.2%			

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST-240705D

Calibration Acceptance Criteria: > 0.995 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

(EPA 300) - INITIAL CALIBRATION

Instrument ID: NV00922-IC9
Date Calibrated: 11/11/2024

Initial Calibration:

Sulfate	STD0	STD1	STD2	STD3	STD4	STD5	
COMPOUND, in mg/L	0	0.5	2	4	10	20	R ²
Area,mAU*min	0.0000	0.0543	0.2121	0.4226	1.1069	2.3067	0.999
Measured, in mg/L	0.000000	0.684500	2.047000	3.864400	9.772700	20.131500	
Relative Error (%RE)		36.9%		-3.4%			

	Stock
Standard Concentration:	1000000 PPB
Standard ID:	ISST-240705F

Calibration Acceptance Criteria: > 0.995 Correlation

CALCULATION:

$$\% \text{ Relative Error} = \{(B - A) / A\} * 100$$

Where:

A = True value for the calibration standard

B = Measured concentration of the calibration standard

* Please note that the instrument printout for Area were represented in three decimal places. The exact values are represented in the ICAL summary for calculation purposes.

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID ICV	SampType: ICV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 195541						
Client ID: ICV	Batch ID: R195541	TestNo: EPA 300.0	Analysis Date: 11/11/2024	SeqNo: 6306947							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	4.160	0.50	4.000	0	104	90	110				

Sample ID CCV-1	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 195541						
Client ID: CCV	Batch ID: R195541	TestNo: EPA 300.0	Analysis Date: 11/12/2024	SeqNo: 6306949							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	4.206	0.50	4.000	0	105	90	110				

Sample ID CCV-2	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 195541						
Client ID: CCV	Batch ID: R195541	TestNo: EPA 300.0	Analysis Date: 11/12/2024	SeqNo: 6306960							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	4.198	0.50	4.000	0	105	90	110				

Sample ID CCV-3	SampType: CCV	TestCode: 300_W_SO4P	Units: mg/L	Prep Date:	RunNo: 195541						
Client ID: CCV	Batch ID: R195541	TestNo: EPA 300.0	Analysis Date: 11/12/2024	SeqNo: 6306972							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	4.163	0.50	4.000	0	104	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID ICV	SampType: ICV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195536						
Client ID: ICV	Batch ID: R195536	TestNo: EPA 300.0		Analysis Date: 10/23/2024	SeqNo: 6306557						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.217	0.050	1.250	0	97.3	90	110				

Sample ID CCV-1	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195536						
Client ID: CCV	Batch ID: R195536	TestNo: EPA 300.0		Analysis Date: 11/12/2024	SeqNo: 6306559						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.252	0.050	1.250	0	100	90	110				

Sample ID CCV-2	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195536						
Client ID: CCV	Batch ID: R195536	TestNo: EPA 300.0		Analysis Date: 11/12/2024	SeqNo: 6306570						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.230	0.050	1.250	0	98.4	90	110				

Sample ID CCV-3	SampType: CCV	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195536						
Client ID: CCV	Batch ID: R195536	TestNo: EPA 300.0		Analysis Date: 11/12/2024	SeqNo: 6306582						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate as N	1.241	0.050	1.250	0	99.3	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID ICB	SampType: ICB	TestCode: 300_W_SO4P Units: mg/L	Prep Date:	RunNo: 195541
Client ID: ICB	Batch ID: R195541	TestNo: EPA 300.0	Analysis Date: 11/11/2024	SeqNo: 6306948
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual

Sulfate	ND	0.50		
---------	----	------	--	--

Sample ID CCB-1	SampType: CCB	TestCode: 300_W_SO4P Units: mg/L	Prep Date:	RunNo: 195541
Client ID: CCB	Batch ID: R195541	TestNo: EPA 300.0	Analysis Date: 11/12/2024	SeqNo: 6306950
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual

Sulfate	ND	0.50		
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Sample ID CCB-2	SampType: CCB	TestCode: 300_W_SO4P Units: mg/L	Prep Date:	RunNo: 195541
Client ID: CCB	Batch ID: R195541	TestNo: EPA 300.0	Analysis Date: 11/12/2024	SeqNo: 6306961
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual

Sulfate	ND	0.50		
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Sample ID CCB-3	SampType: CCB	TestCode: 300_W_SO4P Units: mg/L	Prep Date:	RunNo: 195541
Client ID: CCB	Batch ID: R195541	TestNo: EPA 300.0	Analysis Date: 11/12/2024	SeqNo: 6306973
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual

Sulfate	ND	0.50		
---------	----	------	--	--

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 300WLLNO3PGE

Sample ID ICB	SampType: ICB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195536						
Client ID: ICB	Batch ID: R195536	TestNo: EPA 300.0	Analysis Date: 10/23/2024	SeqNo: 6306558							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID CCB-1	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195536						
Client ID: CCB	Batch ID: R195536	TestNo: EPA 300.0	Analysis Date: 11/12/2024	SeqNo: 6306560							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID CCB-2	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195536						
Client ID: CCB	Batch ID: R195536	TestNo: EPA 300.0	Analysis Date: 11/12/2024	SeqNo: 6306571							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Sample ID CCB-3	SampType: CCB	TestCode: 300WLLNO3	Units: mg/L	Prep Date:	RunNo: 195536						
Client ID: CCB	Batch ID: R195536	TestNo: EPA 300.0	Analysis Date: 11/12/2024	SeqNo: 6306583							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrate as N ND 0.050

Qualifiers:

- | | | | | | |
|----|---|---|--------------------------------------|-----|--|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out | | Calculations are based on raw values | (M) | Test is modified |

RETENTION TIME SUMMARY



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RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC8

Analytical Sequence

Date Analyzed: 11/12/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Nitrate 6.617	
CCV-1	Nitrate 6.550	
CCV-2	Nitrate 6.550	
CCV-3	Nitrate 6.550	

Average 6.550
Applied RT Window 6.350 - 6.750

LCS-R195536_NO3	Nitrate	6.550	PASS
MB-R195536_NO3	Nitrate	N.A.	N.A.
N069891-010B	Nitrate	N.A.	N.A.
N069891-010BMS	Nitrate	6.547	PASS
N069891-010BMSD	Nitrate	6.550	PASS
N069891-014B	Nitrate	N.A.	N.A.
N069891-014BDUP	Nitrate	N.A.	N.A.
N069891-014BMS	Nitrate	6.547	PASS
N069891-001B	Nitrate	6.550	PASS
N069891-002B	Nitrate	6.550	PASS
N069891-003B	Nitrate	6.547	PASS
N069891-004B	Nitrate	6.550	PASS
N069891-005B	Nitrate	6.550	PASS
N069891-007B	Nitrate	6.547	PASS
N069891-009B	Nitrate	N.A.	N.A.
N069891-011B	Nitrate	N.A.	N.A.
N069891-012B	Nitrate	N.A.	N.A.
N069891-015B	Nitrate	N.A.	N.A.
N069891-016B	Nitrate	N.A.	N.A.

Reviewed by:

M. Rocha 12/29/2024

RETENTION TIME (RT) SUMMARY

Instrument ID: NV00922-IC9

Analytical Sequence

Date Analyzed: 11/12/2024

<u>Sample Name</u>	<u>Retention Time</u>	<u>Evaluation</u>
ICV	Sulfate 9.677	
CCV-1	Sulfate 9.647	
CCV-2	Sulfate 9.607	
CCV-3	Sulfate 9.574	

Average 9.609
Applied RT Window 9.409 - 9.809

LCS-R195541_SO4	Sulfate	9.647	PASS
MB-R195541_SO4	Sulfate	N.A.	N.A.
N069891-010B	Sulfate	9.604	PASS
N069891-010BMS	Sulfate	9.604	PASS
N069891-010BMSD	Sulfate	9.607	PASS
N069891-014B	Sulfate	9.607	PASS
N069891-014BDUP	Sulfate	9.597	PASS
N069891-014BMS	Sulfate	9.607	PASS
N069891-001B	Sulfate	9.584	PASS
N069891-002B	Sulfate	9.594	PASS
N069891-003B	Sulfate	9.617	PASS
N069891-004B	Sulfate	9.614	PASS
N069891-005B	Sulfate	9.607	PASS
N069891-007B	Sulfate	9.591	PASS
N069891-009B	Sulfate	9.587	PASS
N069891-011B	Sulfate	9.584	PASS
N069891-012B	Sulfate	9.584	PASS
N069891-015B	Sulfate	9.571	PASS
N069891-016B	Sulfate	9.581	PASS

Reviewed by:

M Rocha 12/29/2024

MDL STUDY



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METHOD DETECTION LIMIT (Spiked)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): 10/5/2022, 12/14/2022, 3/22/2023, 7/10/2023; 10/3/2023 & 11/14/2023
 Analyst: Ria Abes

Matrix: **WATER**
 Unit: mg/L

Instrument Name: **IC-08 & IC-09**

Datafile IC-08 221005A #24 IC-08 221214A #30 IC-08 230322A #35 IC-08 230710A #13 IC-09 231003A #14 IC-08 231114A #24 IC-09 231114A #19

Analyte	#1	#2	#3	#4	#5	#6	#7	Spike Conc., mg/L	SD	t _(n-1) value	MDLs	MDL	PQL
Fluoride	0.100	0.103	0.108	0.118	0.110	0.098	0.126	0.10	0.0101	3.143	0.0318	0.0318	0.10
Chloride	0.480	0.418	0.472	0.653	0.624	0.587	0.622	0.50	0.0922	3.143	0.2898	0.2898	0.50
Nitrite	0.068	0.061	0.060	0.071	0.063	0.061	0.070	0.05	0.0047	3.143	0.0149	0.0149	0.05
Bromide	0.526	0.502	0.509	0.522	0.536	0.527	0.520	0.50	0.0116	3.143	0.0364	0.0364	0.50
Nitrate	0.073	0.058	0.059	0.073	0.074	0.068	0.073	0.05	0.0068	3.143	0.0215	0.0240	0.05
Phosphate	0.112	0.096	0.114	0.120	0.130	0.093	0.124	0.10	0.0138	3.143	0.0433	0.0433	0.10
Sulfate	0.501	0.609	0.638	0.401	0.704	0.620	0.697	0.50	0.1092	3.143	0.3432	0.3432	0.50

METHOD DETECTION LIMIT (Blanks)

Method Name: **INORGANIC IONS by Ion Chromatography**
 Method Number: EPA 300.0
 Analysis Date(s): Pooled from January 1, 2023 to July 31, 2023

Analyte	MDLb	# of Records
Fluoride	0	63
Chloride	0.1456	80
Nitrite	0.0147	64
Bromide	0	18
Nitrate	0.0240	132
Phosphate	0.0237	34
Sulfate	0.2579	107

Note: Higher value between **MDLs** and **MDLb** will be used.

Students' t Values at 99% CL

#	t _(n-1)
10	2.821
9	2.896
8	2.998
7	3.143

EPA 6010B Dissolved



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405



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
 REV 2.1
 072018

FIRST LEVEL REVIEW:

QC Batch Number: 114058
 ASSET #: N069891

Instrument ID: NV00922-ICP4
 Analyst: DBJ

Method:
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 11/12/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)			X			X
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits		X			X	
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

RPD of Fe in N069891-010CMSD failed. However, LCS passed criteria.

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
 2nd Level Reviewer NS 11132024

Date: _____
 Date: _____

SAMPLE CALCULATION



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CALIFORNIA
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P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

SAMPLE CALCULATION

METHOD: EPA 6010B
TEST NAME: Heavy Metals by ICP
MATRIX: Groundwater

FORMULA:

Calculate the Iron concentration, in ug/L , in the original sample as follows:

$$\text{Iron, ug/L} = A * DF * PF * CF$$

where:

A = mg/L, calculated concentration

DF = Dilution Factor

PF = Final Volume of Digestate, mL / Amount of Sample, mL

CF= Conversion Factor from mg/L to ug/L, 1000

For Sample **N069891-007C** , the concentration in ug/L is calculated as follows:

$$\text{Iron, ug/L} = 2.35174 * 1 * (25/25) * 1000$$

$$\text{Iron, ug/L} = 2351.74$$

Reporting results in two significant figures,

$$\text{Iron, ug/L} = \mathbf{2400}$$

Reviewed by:

d/Rocha 12/29/2024

% RSD SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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“Serving Clients with Passion and Professionalism”

RSD SUMMARY: 241112A

Instrument ID: NV00922-ICP4

PQL: 0.02 mg/L

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
Blank	BLK	1	Fe	0	-	15	PASS
Standard 1	ICAL	1	Fe	0.02	-	15	PASS
Standard 2	ICAL	1	Fe	0.05	-	15	PASS
Standard 3	ICAL	1	Fe	2	-	15	PASS
Standard 4	ICAL	1	Fe	5	-	15	PASS
Standard 5	ICAL	1	Fe	7.5	-	15	PASS
Standard 6	ICAL	1	Fe	10	-	15	PASS
Standard 7	ICAL	1	Fe	20	-	15	PASS
ICV	ICV	1	Fe	10.02649	0.05	15	PASS
ICB	ICB	1	Fe	-0.00093	45.39	15	< PQL
LLCCV1	CCV1	1	Fe	0.01806	0.29	20	PASS
LLCCV2	CCV1	1	Fe	0.39459	0.14	20	PASS
ICSA1	ICSA	1	Fe	10.42577	0.09	15	PASS
ICSAB1	ICSAB	1	Fe	10.15238	0.12	15	PASS
CCV1	CCV	1	Fe	9.91464	0.11	15	PASS
CCB1	CCB	1	Fe	-0.00093	30.31	15	< PQL
CCV2	CCV	1	Fe	9.88602	0.03	15	PASS
CCB2	CCB	1	Fe	-0.00065	46.56	15	< PQL
CCV3	CCV	1	Fe	9.86839	0.03	15	PASS
CCB3	CCB	1	Fe	-0.00079	30.76	15	< PQL
ICSA2	ICSA	1	Fe	10.34198	0.14	15	PASS
ICSAB2	ICSAB	1	Fe	10.08544	0.06	15	PASS
MB-114058	MBLK	1	Fe	0.0039	9.62	15	PASS
LCS-114058	LCS	1	Fe	0.1074	0.14	15	PASS
N069839-008B	SAMP	1	Fe	0.01505	0.77	15	PASS
N069840-001D	SAMP	1	Fe	0.00848	1.66	15	PASS
N069840-002D	SAMP	1	Fe	0.00723	0.82	15	PASS
N069840-003D	SAMP	1	Fe	0.08817	0.21	15	PASS
N069840-003D	SAMP	5	Fe	0.01395	0.10	15	PASS
N069840-003D-PS	PS	1	Fe	0.20472	0.08	15	PASS
N069840-003DMS	MS	1	Fe	0.20329	0.09	15	PASS
N069840-003DMSD	MSD	1	Fe	0.19346	0.18	15	PASS
CCV4	CCV	1	Fe	9.91226	0.07	15	PASS
CCB4	CCB	1	Fe	-0.00111	12.82	15	PASS
N069889-001B	SAMP	1	Fe	0.02713	0.27	15	PASS
N069889-002B	SAMP	1	Fe	0.60647	0.15	15	PASS
N069889-003B	SAMP	1	Fe	0.67271	0.05	15	PASS
N069891-001C	SAMP	1	Fe	0.01769	0.33	15	PASS
N069891-002C	SAMP	1	Fe	-0.00343	7.02	15	PASS
N069891-003C	SAMP	1	Fe	-0.00295	3.35	15	PASS
N069891-004C	SAMP	1	Fe	0.00476	4.72	15	PASS

RSD SUMMARY: 241112A

Instrument ID: NV00922-ICP4

PQL: 0.02 mg/L

Sample Name	Type	DF	Analyte	Reported Conc	RSD	Criteria	Comment
N069891-005C	SAMP	1	Fe	0.01339	1.91	15	PASS
N069891-007C	SAMP	1	Fe	2.35174	0.00	15	PASS
N069891-009C	SAMP	1	Fe	0.02786	0.22	15	PASS
CCV5	CCV	1	Fe	9.88679	0.10	15	PASS
CCB5	CCB	1	Fe	-0.00092	32.42	15	< PQL
N069891-010C	SAMP	1	Fe	0.04212	0.47	15	PASS
N069891-010C	SAMP	5	Fe	0.00598	1.48	15	PASS
N069891-010C-PS	PS	1	Fe	0.15475	0.25	15	PASS
N069891-010CMS	MS	1	Fe	0.1647	0.13	15	PASS
N069891-010CMSD	MSD	1	Fe	0.13188	0.09	15	PASS
N069891-011C	SAMP	1	Fe	0.20535	0.17	15	PASS
N069891-012C	SAMP	1	Fe	0.12347	0.15	15	PASS
N069891-014C	SAMP	1	Fe	0.02172	0.32	15	PASS
N069891-015C	SAMP	1	Fe	0.0116	1.29	15	PASS
N069891-016C	SAMP	1	Fe	0.00297	2.00	15	PASS
CCV6	CCV	1	Fe	9.89341	0.10	15	PASS
CCB6	CCB	1	Fe	-0.00075	17.62	15	< PQL
ICSA3	ICSA	1	Fe	10.28115	0.02	15	PASS
ICSAB3	ICSAB	1	Fe	10.05039	0.36	15	PASS

ANALYSIS RUN LOG



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INJECTION LOG: 241112A

Instrument ID: NV00922-ICP4

STANDARD CODE	
Standard1	MWST-240820N, 0.5<50mL
Standard2	MWST-240820O
Standard3	MWST-240820P, 5<50mL
Standard4	MWST-240820P, 12.5<50mL
Standard5	MWST-240820P, 15<40mL
Standard6	MWST-240820P, 25<50mL
Standard7	MWST-240820P
ICV	MWST-240820AG
CCV	MWST-240820P, 25<50mL
ICSA/ICSAB	MWST-240820Q / MWST-240820R
Int. Std	MSST-240801A/240801B
PS Spike	MWST-240820Y/Z/AA

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
1	Blank	BLK	1	11/12/2024	2:13:03 PM
2	Standard 1	ICAL	1	11/12/2024	2:15:19 PM
3	Standard 2	ICAL	1	11/12/2024	2:17:36 PM
4	Standard 3	ICAL	1	11/12/2024	2:19:53 PM
5	Standard 4	ICAL	1	11/12/2024	2:22:10 PM
6	Standard 5	ICAL	1	11/12/2024	2:24:28 PM
7	Standard 6	ICAL	1	11/12/2024	2:26:45 PM
8	Standard 7	ICAL	1	11/12/2024	2:29:02 PM
9	ICV	ICV	1	11/12/2024	2:44:57 PM
10	ICB	ICB	1	11/12/2024	2:47:14 PM
11	LLCCV1	CCV1	1	11/12/2024	2:49:32 PM
12	LLCCV2	CCV1	1	11/12/2024	2:51:49 PM
13	ICSA1	ICSA	1	11/12/2024	2:54:06 PM
14	ICSAB1	ICSAB	1	11/12/2024	2:56:23 PM
15	MB-114054	MBLK	1	11/12/2024	3:53:09 PM
16	LCS1-114054	LCS	1	11/12/2024	3:55:26 PM
17	N069726-001B	SAMP	1	11/12/2024	3:57:43 PM
18	N069726-001B	SAMP	5	11/12/2024	4:00:00 PM
19	N069726-001B-PS	PS	1	11/12/2024	4:02:17 PM
20	N069726-001B-MS1	MS	1	11/12/2024	4:04:34 PM
21	N069726-001B-MSD1	MSD	1	11/12/2024	4:06:51 PM
22	N069727-001B	SAMP	1	11/12/2024	4:09:08 PM
23	N069728-001B	SAMP	1	11/12/2024	4:11:25 PM
24	N069729-001B	SAMP	1	11/12/2024	4:13:42 PM
25	CCV1	CCV	1	11/12/2024	4:15:59 PM
26	CCB1	CCB	1	11/12/2024	4:18:16 PM
27	N069730-001B	SAMP	1	11/12/2024	4:20:33 PM
28	MB-114053	MBLK	1	11/12/2024	4:22:51 PM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
29	MB-114029 TCLP	MBLK	1	11/12/2024	4:25:08 PM
30	LCS1-114053	MBLK	1	11/12/2024	4:27:25 PM
31	N069726-001A	SAMP	1	11/12/2024	4:29:42 PM
32	N069726-001A	SAMP	5	11/12/2024	4:31:59 PM
33	N069726-001A-PS	PS	1	11/12/2024	4:34:16 PM
34	N069726-001A-MS	MS	1	11/12/2024	4:36:33 PM
35	N069726-001A-MSD	MSD	1	11/12/2024	4:38:50 PM
36	N069863-001D	SAMP	1	11/12/2024	4:41:07 PM
37	CCV2	CCV	1	11/12/2024	4:43:24 PM
38	CCB2	CCB	1	11/12/2024	4:45:41 PM
39	N069864-001D	SAMP	1	11/12/2024	4:47:58 PM
40	N069865-001D	SAMP	1	11/12/2024	4:50:15 PM
41	N069866-001D	SAMP	1	11/12/2024	4:52:33 PM
42	N069867-001D	SAMP	1	11/12/2024	4:54:50 PM
43	N069868-001D	SAMP	1	11/12/2024	4:57:08 PM
44	N069869-001D	SAMP	1	11/12/2024	4:59:25 PM
45	N069870-001D	SAMP	1	11/12/2024	5:01:42 PM
46	CCV3	CCV	1	11/12/2024	5:03:59 PM
47	CCB3	CCB	1	11/12/2024	5:06:16 PM
48	ICSA2	ICSA	1	11/12/2024	5:08:33 PM
49	ICSAB2	ICSAB	1	11/12/2024	5:10:50 PM
50	MB-114058	MBLK	1	11/12/2024	5:14:51 PM
51	LCS-114058	LCS	1	11/12/2024	5:17:08 PM
52	N069839-008B	SAMP	1	11/12/2024	5:19:25 PM
53	N069840-001D	SAMP	1	11/12/2024	5:21:41 PM
54	N069840-002D	SAMP	1	11/12/2024	5:23:58 PM
55	N069840-003D	SAMP	1	11/12/2024	5:26:15 PM
56	N069840-003D	SAMP	5	11/12/2024	5:28:33 PM
57	N069840-003D-PS	PS	1	11/12/2024	5:30:49 PM
58	N069840-003DMS	MS	1	11/12/2024	5:33:06 PM
59	N069840-003DMSD	MSD	1	11/12/2024	5:35:23 PM
60	CCV4	CCV	1	11/12/2024	5:37:40 PM
61	CCB4	CCB	1	11/12/2024	5:39:57 PM
62	N069889-001B	SAMP	1	11/12/2024	5:42:15 PM
63	N069889-002B	SAMP	1	11/12/2024	5:44:32 PM
64	N069889-003B	SAMP	1	11/12/2024	5:46:49 PM
65	N069891-001C	SAMP	1	11/12/2024	5:49:06 PM
66	N069891-002C	SAMP	1	11/12/2024	5:51:23 PM
67	N069891-003C	SAMP	1	11/12/2024	5:53:40 PM
68	N069891-004C	SAMP	1	11/12/2024	5:55:57 PM
69	N069891-005C	SAMP	1	11/12/2024	5:58:14 PM
70	N069891-007C	SAMP	1	11/12/2024	6:00:31 PM
71	N069891-009C	SAMP	1	11/12/2024	6:02:48 PM
72	CCV5	CCV	1	11/12/2024	6:05:05 PM
73	CCB5	CCB	1	11/12/2024	6:07:22 PM
74	N069891-010C	SAMP	1	11/12/2024	6:09:39 PM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
75	N069891-010C	SAMP	5	11/12/2024	6:11:56 PM
76	N069891-010C-PS	PS	1	11/12/2024	6:14:13 PM
77	N069891-010CMS	MS	1	11/12/2024	6:16:31 PM
78	N069891-010CMSD	MSD	1	11/12/2024	6:18:48 PM
79	N069891-011C	SAMP	1	11/12/2024	6:21:04 PM
80	N069891-012C	SAMP	1	11/12/2024	6:23:21 PM
81	N069891-014C	SAMP	1	11/12/2024	6:25:38 PM
82	N069891-015C	SAMP	1	11/12/2024	6:27:55 PM
83	N069891-016C	SAMP	1	11/12/2024	6:30:12 PM
84	CCV6	CCV	1	11/12/2024	6:32:29 PM
85	CCB6	CCB	1	11/12/2024	6:34:46 PM
86	ICSA3	ICSA	1	11/12/2024	6:37:04 PM
87	ICSAB3	ICSAB	1	11/12/2024	6:39:21 PM
88	MB-114063	MBLK	1	11/12/2024	6:41:39 PM
89	LCS-114063	LCS	1	11/12/2024	6:43:57 PM
90	N069856-029A	SAMP	1	11/12/2024	6:46:15 PM
91	N069883-001A	SAMP	1	11/12/2024	6:48:33 PM
92	N069883-001A	SAMP	5	11/12/2024	6:50:50 PM
93	N069883-001A-PS	PS	1	11/12/2024	6:53:08 PM
94	N069883-001A-MS	MS	1	11/12/2024	6:55:26 PM
95	N069883-001A-MSD	MSD	1	11/12/2024	6:57:44 PM
96	MB1-114059	MBLK	1	11/12/2024	7:00:01 PM
97	MB2-114059	MBLK	1	11/12/2024	7:02:19 PM
98	CCV7	CCV	1	11/12/2024	7:04:36 PM
99	CCB7	CCB	1	11/12/2024	7:06:53 PM
100	LCS-114059	LCS	1	11/12/2024	7:09:11 PM
101	N069885-001A	SAMP	1	11/12/2024	7:11:28 PM
102	N069885-001A	SAMP	5	11/12/2024	7:13:46 PM
103	N069885-001A-DUP	DUP	1	11/12/2024	7:16:04 PM
104	N069885-001A-PS	PS	1	11/12/2024	7:18:22 PM
105	N069885-001A-MS	MS	1	11/12/2024	7:20:40 PM
106	N069885-001A-MSD	MSD	1	11/12/2024	7:22:58 PM
107	N069885-002A	SAMP	1	11/12/2024	7:25:16 PM
108	N069885-003A	SAMP	1	11/12/2024	7:27:34 PM
109	N069885-004A	SAMP	1	11/12/2024	7:29:52 PM
110	CCV8	CCV	1	11/12/2024	7:32:09 PM
111	CCB8	CCB	1	11/12/2024	7:34:26 PM
112	N069885-005A	SAMP	1	11/12/2024	7:36:43 PM
113	N069885-006A	SAMP	1	11/12/2024	7:39:01 PM
114	N069885-007A	SAMP	1	11/12/2024	7:41:18 PM
115	N069885-008A	SAMP	1	11/12/2024	7:43:36 PM
116	N069885-009A	SAMP	1	11/12/2024	7:45:54 PM
117	N069885-010A	SAMP	1	11/12/2024	7:48:12 PM
118	N069885-011A	SAMP	1	11/12/2024	7:50:30 PM
119	N069885-011A-DUP	DUP	1	11/12/2024	7:52:47 PM
120	N069885-011A-MS	MS	1	11/12/2024	7:55:05 PM

Samp #	Sample Name	Type	DF	Acq Date	Acq Time
121	N069885-012A	SAMP	1	11/12/2024	7:59:11 PM
122	CCV9	CCV	1	11/12/2024	8:01:28 PM
123	CCB9	CCB	1	11/12/2024	8:03:45 PM
124	N069885-013A	SAMP	1	11/12/2024	8:06:02 PM
125	N069885-014A	SAMP	1	11/12/2024	8:08:20 PM
126	N069885-015A	SAMP	1	11/12/2024	8:10:38 PM
127	N069885-016A	SAMP	1	11/12/2024	8:12:56 PM
128	N069885-017A	SAMP	1	11/12/2024	8:15:13 PM
129	N069885-018A	SAMP	1	11/12/2024	8:17:31 PM
130	N069885-019A	SAMP	1	11/12/2024	8:19:49 PM
131	N069885-020A	SAMP	1	11/12/2024	8:22:07 PM
132	CCV10	CCV	1	11/12/2024	8:24:24 PM
133	CCB10	CCB	1	11/12/2024	8:26:41 PM
134	ICSA4	ICSA	1	11/12/2024	8:28:57 PM
135	ICSAB4	ICSAB	1	11/12/2024	8:31:15 PM
136	MB-114055	MBLK	1	11/12/2024	8:33:32 PM
137	MB-114011 STLC	MBLK	5	11/12/2024	8:35:49 PM
138	LCS-114055	LCS	1	11/12/2024	8:38:06 PM
139	N069847-001A	SAMP	5	11/12/2024	8:40:23 PM
140	N069847-001A	SAMP	25	11/12/2024	8:42:40 PM
141	N069847-001A-PS	PS	5	11/12/2024	8:44:58 PM
142	N069847-001A-MS	MS	5	11/12/2024	8:47:15 PM
143	N069847-001A-MSD	MSD	5	11/12/2024	8:49:32 PM
144	N069847-002A	SAMP	5	11/12/2024	8:51:50 PM
145	N069848-001A	SAMP	5	11/12/2024	8:54:07 PM
146	CCV11	CCV	1	11/12/2024	8:56:24 PM
147	CCB11	CCB	1	11/12/2024	8:58:41 PM
148	N069849-001A	SAMP	5	11/12/2024	9:00:58 PM
149	N069849-002A	SAMP	5	11/12/2024	9:03:16 PM
150	N069851-001A	SAMP	5	11/12/2024	9:05:33 PM
151	N069852-001A	SAMP	5	11/12/2024	9:07:50 PM
152	N069853-001A	SAMP	5	11/12/2024	9:10:08 PM
153	CCV12	CCV	1	11/12/2024	9:12:24 PM
154	CCB12	CCB	1	11/12/2024	9:14:41 PM
155	N099851-001A	SAMP	5	11/12/2024	9:16:58 PM
156	N069855-014A	SAMP	50	11/12/2024	9:19:15 PM
157	N069855-015A	SAMP	50	11/12/2024	9:21:32 PM
158	N069855-016A	SAMP	50	11/12/2024	9:23:49 PM
159	N069855-018A	SAMP	50	11/12/2024	9:26:06 PM
160	N069795-011A	SAMP	1	11/12/2024	9:28:23 PM
161	N069795-011A-DUP	DUP	1	11/12/2024	9:30:41 PM
162	N069795-011A-MS	MS	1	11/12/2024	9:32:57 PM
163	CCV13	CCV	1	11/12/2024	9:35:14 PM
164	CCB13	CCB	1	11/12/2024	9:37:31 PM
165	ICSA5	ICSA	1	11/12/2024	9:39:48 PM
166	ICSAB5	ICSAB	1	11/12/2024	9:42:06 PM

SAMPLE PREPARATION LOG



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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“Serving Clients with Passion and Professionalism”

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: **11/12/2024 12:48:00 PM**

Reviewed/ Date: **DBJ 11/12/2024**

Prep End Date: **11/12/2024 4:35:00 PM**

Initials/ Date: _____

Prep Batch **114058** Prep Code: **3010_W DISS**

Technician: **Jocelyn Rivera**

Prep Factor Units: Temp. (°C): Location:
mL / mL **95.1 DB-4-48**

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-114058	Aqueous		25	<input type="checkbox"/>	25	1.000		
50ML LOT # MP3971								
MB-114058	Aqueous		25	<input type="checkbox"/>	25	1.000		
THERMOMETER ID: DIGESTION 7								
N069839-008B	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069840-001D	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069840-002D	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069840-003D	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069840-003DMS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069840-003DMSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069889-001B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069889-002B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069889-003B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069891-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069891-002C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17150	HYDROCHLORIC ACID
17254	NITRIC ACID

Spk ID	Spike Name	SampType	AmtAdd
MWST-240820AA	ICP Solution C	LCS,MS,MSD	0.5
MWST-240820Y	ICP Solution A	LCS,MS,MSD	0.5
MWST-240820Z	ICP Solution B	LCS,MS,MSD	0.5

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: **11/12/2024 12:48:00 PM**

Reviewed/ Date: **DBJ 11/12/2024**

Prep End Date: **11/12/2024 4:35:00 PM**

Initials/ Date: _____

Prep Batch **114058** Prep Code: **3010_W DISS**

Technician: **Jocelyn Rivera**

Prep Factor Units: Temp. (°C): Location:
mL / mL **95.1 DB-4-48**

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N069891-003C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069891-004C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069891-005C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069891-007C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069891-009C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069891-010C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069891-010CMS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069891-010CMSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069891-011C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069891-012C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069891-014C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069891-015C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069891-016C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17150	HYDROCHLORIC ACID
17254	NITRIC ACID

Spk ID	Spike Name	SampType	AmtAdd
MWST-240820AA	ICP Solution C	LCS,MS,MSD	0.5
MWST-240820Y	ICP Solution A	LCS,MS,MSD	0.5
MWST-240820Z	ICP Solution B	LCS,MS,MSD	0.5

INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

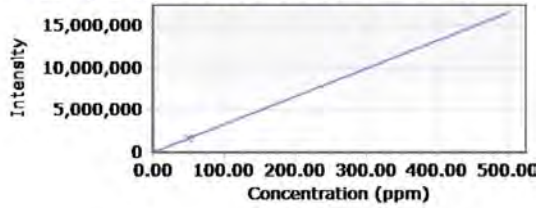
CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
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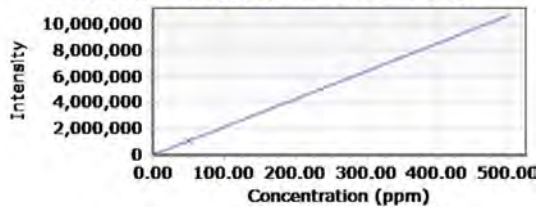
Cu I (324.754 nm), Interferent Calibration



Intensity = 33101.85948620 * Concentration + 684.20878678
 Correlation coefficient: 1.00000
 %RSE:N/A

Standards	Intensity	Method Conc	Calculated Conc	% Error
IEC Blank	684.20879	0.00000	0.00000	N/A
Interferent 09 (Cu)	1655777.18310	50.00000	50.00000	0.00000

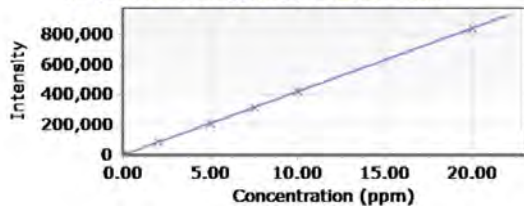
Fe I (239.563 nm), Interferent Calibration



Intensity = 21449.83771380 * Concentration + 29.10415739
 Correlation coefficient: 1.00000
 %RSE:N/A

Standards	Intensity	Method Conc	Calculated Conc	% Error
IEC Blank	29.10416	0.00000	0.00000	N/A
Interferent 10 (Fe)	1072520.98985	50.00000	50.00000	0.00000

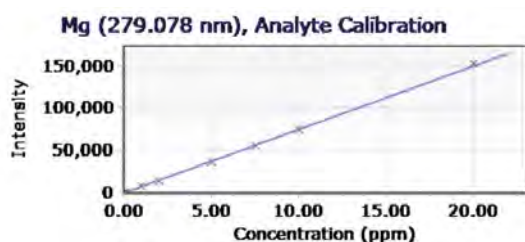
Fe (259.940 nm), Analyte Calibration



Intensity = 42142.72406164 * Concentration + 162.96546851
 Correlation coefficient: 1.00000
 %RSE:9.95751927

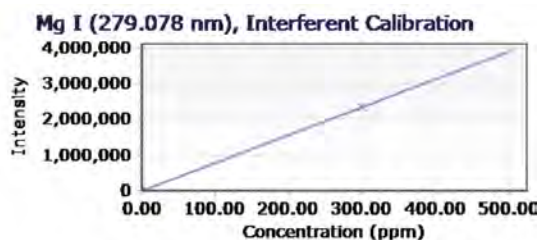
Standards	Intensity	Method Conc	Calculated Conc	% Error
Blank	38.28796	0.00000	-0.00296	N/A

Standards	Intensity	Method Conc	Calculated Conc	% Error
Standard 1	903.36484	0.02000	0.01757	12.15573
Standard 2	2662.98206	0.05000	0.05932	18.64523
Standard 3	84011.308 37	2.00000	1.98963	0.51860
Standard 4	211062.31 477	5.00000	5.00441	0.08814
Standard 5	316709.27 598	7.50000	7.51129	0.15056
Standard 6	422499.73 538	10.00000	10.02158	0.21582
Standard 7	842234.77 345	20.00000	19.98143	0.09286



Intensity = 7507.66144618 * Concentration + 39.59967387
 Correlation coefficient: 0.99994
 %RSE:2.06620965

Standards	Intensity	Method Conc	Calculated Conc	% Error
Blank	27.66813	0.00000	-0.00159	N/A
Standard 1	799.41395	0.10000	0.10121	1.20519
Standard 2	7842.52430	1.00000	1.03933	3.93282
Standard 3	14943.802 12	2.00000	1.98520	0.74005
Standard 4	37445.050 49	5.00000	4.98230	0.35392
Standard 5	56082.555 19	7.50000	7.46477	0.46975
Standard 6	75290.512 78	10.00000	10.02322	0.23216
Standard 7	152993.50 996	20.00000	20.37304	1.86522



Intensity = 7830.79440384 * Concentration + 25.13274543

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICV	SampType: ICV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195549						
Client ID: ICV	Batch ID: R195549	TestNo: EPA 6010B		Analysis Date: 11/12/2024	SeqNo: 6307029						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	10026.490	20	10000	0	100	90	110				
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Sample ID: LLCCV1	SampType: CCV1	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195549						
Client ID: ZZZZZZ	Batch ID: R195549	TestNo: EPA 6010B		Analysis Date: 11/12/2024	SeqNo: 6307031						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	18.060	20	20.00	0	90.3	80	120				
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Sample ID: CCV1	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195549						
Client ID: CCV	Batch ID: R195549	TestNo: EPA 6010B		Analysis Date: 11/12/2024	SeqNo: 6307045						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9914.640	20	10000	0	99.1	90	110				
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Sample ID: CCV2	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195549						
Client ID: CCV	Batch ID: R195549	TestNo: EPA 6010B		Analysis Date: 11/12/2024	SeqNo: 6307057						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9886.020	20	10000	0	98.9	90	110				
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Sample ID: CCV3	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195549						
Client ID: CCV	Batch ID: R195549	TestNo: EPA 6010B		Analysis Date: 11/12/2024	SeqNo: 6307066						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9868.390	20	10000	0	98.7	90	110				
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPB

Sample ID: CCV4	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195549						
Client ID: CCV	Batch ID: R195549	TestNo: EPA 6010B		Analysis Date: 11/12/2024	SeqNo: 6307080						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9912.260	20	10000	0	99.1	90	110
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Sample ID: CCV5	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195549						
Client ID: CCV	Batch ID: R195549	TestNo: EPA 6010B		Analysis Date: 11/12/2024	SeqNo: 6307092						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9886.790	20	10000	0	98.9	90	110
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Sample ID: CCV6	SampType: CCV	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195549						
Client ID: CCV	Batch ID: R195549	TestNo: EPA 6010B		Analysis Date: 11/12/2024	SeqNo: 6307104						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	9893.410	20	10000	0	98.9	90	110
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
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NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICB	SampType: ICB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195549						
Client ID: ICB	Batch ID: R195549	TestNo: EPA 6010B		Analysis Date: 11/12/2024	SeqNo: 6307030						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -0.93 20

Sample ID: CCB1	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195549						
Client ID: CCB	Batch ID: R195549	TestNo: EPA 6010B		Analysis Date: 11/12/2024	SeqNo: 6307046						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -0.93 20

Sample ID: CCB2	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195549						
Client ID: CCB	Batch ID: R195549	TestNo: EPA 6010B		Analysis Date: 11/12/2024	SeqNo: 6307058						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -0.65 20

Sample ID: CCB3	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195549						
Client ID: CCB	Batch ID: R195549	TestNo: EPA 6010B		Analysis Date: 11/12/2024	SeqNo: 6307067						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -0.79 20

Sample ID: CCB4	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195549						
Client ID: CCB	Batch ID: R195549	TestNo: EPA 6010B		Analysis Date: 11/12/2024	SeqNo: 6307081						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron -1.11 20

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPB

Sample ID: CCB5	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195549						
Client ID: CCB	Batch ID: R195549	TestNo: EPA 6010B		Analysis Date: 11/12/2024	SeqNo: 6307093						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	-0.92	20
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Sample ID: CCB6	SampType: CCB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195549						
Client ID: CCB	Batch ID: R195549	TestNo: EPA 6010B		Analysis Date: 11/12/2024	SeqNo: 6307105						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron	-0.75	20
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



ASSET LABORATORIES
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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICSA1	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195549						
Client ID: ICSA	Batch ID: R195549	TestNo: EPA 6010B		Analysis Date: 11/12/2024	SeqNo: 6307033						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10517.160	50	10000	0	105	80	120				
Calcium	10013.540	500	10000	0	100	80	120				
Iron	10425.770	20	10000	0	104	80	120				
Magnesium	10117.080	100	10000	0	101	80	120				

Sample ID: ICSA1	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195549						
Client ID: ICSA	Batch ID: R195549	TestNo: EPA 6010B		Analysis Date: 11/12/2024	SeqNo: 6307034						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10453.870	50	10000	0	105	80	120				
Calcium	9913.180	500	10000	0	99.1	80	120				
Iron	10152.380	20	10000	0	102	80	120				
Magnesium	9981.850	100	10000	0	99.8	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195549						
Client ID: ICSA	Batch ID: R195549	TestNo: EPA 6010B		Analysis Date: 11/12/2024	SeqNo: 6307068						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10541.330	50	10000	0	105	80	120				
Calcium	9870.880	500	10000	0	98.7	80	120				
Iron	10341.980	20	10000	0	103	80	120				
Magnesium	9955.730	100	10000	0	99.6	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195549						
Client ID: ICSA	Batch ID: R195549	TestNo: EPA 6010B		Analysis Date: 11/12/2024	SeqNo: 6307069						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10471.310	50	10000	0	105	80	120				
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPBB

Sample ID: ICSAB2	SampType: ICSAB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195549						
Client ID: ICSAB	Batch ID: R195549	TestNo: EPA 6010B		Analysis Date: 11/12/2024	SeqNo: 6307069						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	9796.040	500	10000	0	98.0	80	120				
Iron	10085.440	20	10000	0	101	80	120				
Magnesium	9847.770	100	10000	0	98.5	80	120				

Sample ID: ICSA3	SampType: ICSA	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195549						
Client ID: ICSA	Batch ID: R195549	TestNo: EPA 6010B		Analysis Date: 11/12/2024	SeqNo: 6307106						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	10556.840	50	10000	0	106	80	120				
Calcium	9927.980	500	10000	0	99.3	80	120				
Iron	10281.150	20	10000	0	103	80	120				
Magnesium	9994.400	100	10000	0	99.9	80	120				

Sample ID: ICSAB3	SampType: ICSAB	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195549						
Client ID: ICSAB	Batch ID: R195549	TestNo: EPA 6010B		Analysis Date: 11/12/2024	SeqNo: 6307107						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	10475.710	50	10000	0	105	80	120				
Calcium	9848.510	500	10000	0	98.5	80	120				
Iron	10050.390	20	10000	0	101	80	120				
Magnesium	9868.250	100	10000	0	98.7	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

INTERNAL STANDARD SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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P: 702.307.2659 F: 702.307.2691

“Serving Clients with Passion and Professionalism”

INTERNAL STANDARD: 241112A

Instrument ID: NV00922-ICP4

			Yttrium, 1.0 mg/L			
Sample Name	Type	DF	Reported Conc	%REC	Criteria	Comment
Blank	BLK	1	1	100	65-125	PASS
Standard 1	ICAL	1	1.01	101	65-125	PASS
Standard 2	ICAL	1	1.02	102	65-125	PASS
Standard 3	ICAL	1	1.03	103	65-125	PASS
Standard 4	ICAL	1	1.03	103	65-125	PASS
Standard 5	ICAL	1	1.03	103	65-125	PASS
Standard 6	ICAL	1	1.04	104	65-125	PASS
Standard 7	ICAL	1	1.02	102	65-125	PASS
ICV	ICV	1	1.03	103	65-125	PASS
ICB	ICB	1	1.05	105	65-125	PASS
LLCCV1	CCV1	1	1.06	106	65-125	PASS
LLCCV2	CCV1	1	1.06	106	65-125	PASS
ICSA1	ICSA	1	1.07	107	65-125	PASS
ICSAB1	ICSAB	1	1.08	108	65-125	PASS
CCV1	CCV	1	1.08	108	65-125	PASS
CCB1	CCB	1	1.09	109	65-125	PASS
CCV2	CCV	1	1.09	109	65-125	PASS
CCB2	CCB	1	1.1	110	65-125	PASS
CCV3	CCV	1	1.1	110	65-125	PASS
CCB3	CCB	1	1.1	110	65-125	PASS
ICSA2	ICSA	1	1.11	111	65-125	PASS
ICSAB2	ICSAB	1	1.12	112	65-125	PASS
MB-114058	MBLK	1	1.08	108	65-125	PASS
LCS-114058	LCS	1	1.06	106	65-125	PASS
N069839-008B	SAMP	1	1.05	105	65-125	PASS
N069840-001D	SAMP	1	1.05	105	65-125	PASS
N069840-002D	SAMP	1	1.07	107	65-125	PASS
N069840-003D	SAMP	1	1.07	107	65-125	PASS
N069840-003D	SAMP	5	1.1	110	65-125	PASS
N069840-003D-PS	PS	1	1.01	101	65-125	PASS
N069840-003DMS	MS	1	1.07	107	65-125	PASS
N069840-003DMSD	MSD	1	1.04	104	65-125	PASS
CCV4	CCV	1	1.09	109	65-125	PASS
CCB4	CCB	1	1.1	110	65-125	PASS
N069889-001B	SAMP	1	1.03	103	65-125	PASS
N069889-002B	SAMP	1	0.83	83	65-125	PASS
N069889-003B	SAMP	1	1.01	101	65-125	PASS
N069891-001C	SAMP	1	1.06	106	65-125	PASS
N069891-002C	SAMP	1	1.05	105	65-125	PASS
N069891-003C	SAMP	1	1.03	103	65-125	PASS
N069891-004C	SAMP	1	1.05	105	65-125	PASS

INTERNAL STANDARD: 241112A

Instrument ID: NV00922-ICP4

			Yttrium, 1.0 mg/L			
Sample Name	Type	DF	Reported Conc	%REC	Criteria	Comment
N069891-005C	SAMP	1	1.03	103	65-125	PASS
N069891-007C	SAMP	1	1.02	102	65-125	PASS
N069891-009C	SAMP	1	1.03	103	65-125	PASS
CCV5	CCV	1	1.1	110	65-125	PASS
CCB5	CCB	1	1.11	111	65-125	PASS
N069891-010C	SAMP	1	1.02	102	65-125	PASS
N069891-010C	SAMP	5	1.08	108	65-125	PASS
N069891-010C-PS	PS	1	0.98	98	65-125	PASS
N069891-010CMS	MS	1	0.97	97	65-125	PASS
N069891-010CMSD	MSD	1	1.06	106	65-125	PASS
N069891-011C	SAMP	1	1.02	102	65-125	PASS
N069891-012C	SAMP	1	1.02	102	65-125	PASS
N069891-014C	SAMP	1	1.03	103	65-125	PASS
N069891-015C	SAMP	1	1.05	105	65-125	PASS
N069891-016C	SAMP	1	1.04	104	65-125	PASS
CCV6	CCV	1	1.1	110	65-125	PASS
CCB6	CCB	1	1.11	111	65-125	PASS
ICSA3	ICSA	1	1.12	112	65-125	PASS
ICSAB3	ICSAB	1	1.14	114	65-125	PASS

SERIAL DILUTION/ POST DIGESTION SPIKE



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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435

ASSET Laboratories

ICP-Metals in Water

Work Order No.: N069891
Test Method: EPA 6010B
Analysis Date: 11/12/2024

Dilution Test Summary

Matrix: Water
Batch No.: 114058

Instrument ID: NV00922-ICP4
Instrument Description: Agilent 5800VDV

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Fe. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069891-010C DT 5x	Iron	Fe	µg/L	29.9	NA	42.12	29.01%	10

Reviewed by:

d/Rocha 12/29/2024

Note: NA - Not Applicable

11/26/24 18:42

N069891_6010B_114058_DT

ASSET Laboratories

ICP-Metals in Water

Work Order No.: N069891
Test Method: EPA 6010B
Analysis Date: 11/12/2024

Dilution Test Summary

Matrix: Water
Batch No.: 114058

Instrument ID: NV00922-ICP4
Instrument Description: Agilent 5800VDV

Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to Fe. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069840-003D DT 5x	Iron	Fe	µg/L	69.75	NA	88.17	20.89%	10

Reviewed by:

d/Recha 12/29/2024

Note: NA - Not Applicable

11/26/24 18:43

N069891_6010B_114058_DT

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPB

Sample ID: N069840-003D-PS	SampType: PS	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195549						
Client ID: ZZZZZZ	Batch ID: 114058	TestNo: EPA 6010B EPA 3010A	Analysis Date: 11/12/2024	SeqNo: 6307077							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	204.720	20	100.0	88.17	117	80	120				

Sample ID: N069891-010C-PS	SampType: PS	TestCode: 6010_WDPG	Units: µg/L	Prep Date:	RunNo: 195549						
Client ID: ZZZZZZ	Batch ID: 114058	TestNo: EPA 6010B EPA 3010A	Analysis Date: 11/12/2024	SeqNo: 6307096							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	154.750	20	100.0	42.12	113	80	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

MDL STUDY



ASSET LABORATORIES
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Method Detection Limits

Analytical Method: EPA 6010B
Digestion Method: 3010_W
Digestion Date: 1/31/2024-2/16/24
Instrument Name: ICP2/ ICP3
Analyst/Technician: DJ

Matrix: WATER
Unit: mg/L

Analyte	1	2	3	4	5	6	7	SD	AMT SPIKED (ppm)	MDLs	PQL	MDL
Beryllium	0.0010	0.0010	0.0010	0.0012	0.0012	0.0009	0.0009	0.00013	0.0010	0.00042	0.0010	0.0004
Boron	0.1015	0.0996	0.0981	0.0955	0.0962	0.0921	0.0811	0.00679	0.1000	0.02134	0.1000	0.0519
Magnesium	0.1018	0.1005	0.1004	0.1023	0.1006	0.0924	0.0926	0.00426	0.1000	0.01340	0.1000	0.0134
Silicon	0.0175	0.0205	0.0214	0.0114	0.0100	0.0210	0.0211	0.00489	0.0200	0.01537	0.0200	0.0154
Chromium	0.0009	0.0009	0.0009	0.0011	0.0009	0.0009	0.0010	0.00007	0.0010	0.00023	0.0010	0.0002
Manganese	0.0096	0.0095	0.0093	0.0101	0.0102	0.0102	0.0104	0.00042	0.0100	0.00133	0.0100	0.0013
Iron	0.0219	0.0207	0.0210	0.0226	0.0224	0.0193	0.0175	0.00184	0.0200	0.00577	0.0200	0.0058
Cobalt	0.0020	0.0018	0.0019	0.0019	0.0018	0.0021	0.0020	0.00013	0.0025	0.00039	0.0025	0.0004
Nickel	0.0055	0.0055	0.0052	0.0028	0.0033	0.0048	0.0047	0.00109	0.0050	0.00342	0.0050	0.0034
Copper	0.0056	0.0058	0.0054	0.0063	0.0058	0.0050	0.0053	0.00041	0.0050	0.00128	0.0050	0.0014
Zinc	0.0110	0.0103	0.0100	0.0106	0.0108	0.0092	0.0088	0.00086	0.0100	0.00269	0.0100	0.0027
Arsenic	0.0100	0.0080	0.0060	0.0084	0.0112	0.0132	0.0065	0.00256	0.0100	0.00805	0.0100	0.0081
Selenium	0.0110	0.0126	0.0120	0.0079	0.0137	0.0079	0.0072	0.00264	0.0100	0.00829	0.0100	0.0083
Molybdenum	0.0056	0.0053	0.0057	0.0044	0.0045	0.0051	0.0044	0.00056	0.0050	0.00177	0.0050	0.0018
Silver	0.0025	0.0025	0.0024	0.0019	0.0018	0.0033	0.0031	0.00056	0.0025	0.00175	0.0025	0.0018
Cadmium	0.0027	0.0026	0.0026	0.0016	0.0018	0.0023	0.0025	0.00043	0.0025	0.00136	0.0025	0.0014
Tin	0.0104	0.0095	0.0097	0.0114	0.0111	0.0087	0.0089	0.00104	0.0100	0.00328	0.0100	0.0033
Antimony	0.0090	0.0093	0.0110	0.0136	0.0122	0.0112	0.0087	0.00180	0.0100	0.00565	0.0100	0.0056
Barium	0.0026	0.0026	0.0026	0.0028	0.0028	0.0024	0.0024	0.00016	0.0025	0.00051	0.0025	0.0005
Thallium	0.0172	0.0169	0.0170	0.0165	0.0144	0.0131	0.0130	0.00188	0.0150	0.00592	0.0150	0.0059
Lead	0.0058	0.0060	0.0061	0.0046	0.0083	0.0049	0.0048	0.00125	0.0050	0.00393	0.0050	0.0039
Calcium	0.2188	0.2125	0.2073	0.2186	0.2230	0.1767	0.1699	0.02155	0.2000	0.06772	0.2000	0.0677
Vanadium	0.0026	0.0025	0.0027	0.0030	0.0029	0.0024	0.0023	0.00026	0.0025	0.00081	0.0025	0.0008
Aluminum	0.0523	0.0513	0.0508	0.0490	0.0501	0.0509	0.0482	0.00140	0.0500	0.00439	0.0500	0.0044
Titanium	0.0119	0.0116	0.0108	0.0100	0.0103	0.0105	0.0107	0.00069	0.0100	0.00216	0.0100	0.0022

Method Detection Limits (Blanks)

Analyte	1	2	3	4	5	6	7	SD	Average	MDLb
Beryllium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00006	0.0000	0.00019
Boron	0.000	0.000	-0.001	-0.005	-0.006	-0.045	-0.047	0.02126	-0.0149	0.05194
Magnesium	-0.001	-0.001	-0.001	0.000	0.001	0.000	-0.001	0.00074	-0.0004	0.00192
Silicon	-0.001	-0.004	-0.004	-0.002	-0.001	-0.012	-0.011	0.00477	-0.0049	0.01013
Chromium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00004	-0.0001	0.00008
Manganese	-0.001	-0.001	-0.001	0.000	0.000	0.000	0.000	0.00044	-0.0005	0.00090
Iron	0.000	0.000	0.000	-0.001	-0.001	-0.003	-0.003	0.00140	-0.0010	0.00337
Cobalt	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00012	-0.0001	0.00029
Nickel	0.000	0.000	0.000	-0.002	-0.002	0.000	0.000	0.00089	-0.0006	0.00224
Copper	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.00033	0.0003	0.00138
Zinc	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.00033	0.0000	0.00102
Arsenic	-0.001	-0.003	0.000	0.000	0.000	0.000	0.000	0.00091	-0.0007	0.00221
Selenium	0.004	0.000	0.002	0.001	0.003	-0.001	0.002	0.00153	0.0017	0.00649
Molybdenum	0.000	0.000	0.000	-0.001	-0.001	0.000	0.000	0.00032	-0.0003	0.00074
Silver	-0.001	-0.001	-0.001	-0.001	-0.001	0.000	0.000	0.00049	-0.0007	0.00083
Cadmium	0.000	0.000	0.000	-0.001	0.000	0.000	0.000	0.00029	-0.0001	0.00081
Tin	-0.001	-0.001	-0.001	0.001	0.000	0.000	-0.001	0.00063	-0.0005	0.00150
Antimony	0.000	-0.001	0.000	0.000	-0.001	0.004	0.000	0.00161	0.0002	0.00524
Barium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00008	0.0000	0.00025
Thallium	0.001	0.000	0.002	0.001	0.000	-0.001	-0.001	0.00104	0.0002	0.00343
Lead	0.000	-0.001	-0.001	-0.001	0.000	0.001	-0.001	0.00068	-0.0004	0.00173
Calcium	0.001	0.001	0.001	-0.003	-0.005	-0.003	-0.017	0.00638	-0.0036	0.01650
Vanadium	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00012	0.0000	0.00038
Aluminum	0.000	0.001	0.001	-0.001	-0.001	-0.001	-0.002	0.00105	-0.0003	0.00300
Titanium	0.001	0.000	0.001	-0.001	-0.001	-.00003	0.000	0.00064	0.0000	0.00199

Note: Higher value between MDLs and MDLb will be used.

Method Detection Limits

Analytical Method: EPA 6010B
Digestion Method: EPA 3010A
Digestion Date: 2/8-2/12/2024
Analysis Date: 2/16-2/23/2024
Instrument Name: ICP-04
Analyst/Technician: NS/DBJ

Matrix: WATER
Unit: mg/L

Analyte	1	2	3	4	5	6	7	SD	AMT SPIKED (ppm)	MDLs	PQL	MDL
Beryllium	0.00096	0.00098	0.00096	0.00094	0.00114	0.00100	0.00093	0.00007	0.0010	0.00022	0.0010	0.0004
Boron	0.09627	0.09657	0.09643	0.09117	0.09044	0.09475	0.09499	0.00255	0.1000	0.00800	0.1000	0.0080
Magnesium	0.10052	0.10036	0.09959	0.10705	0.10731	0.09987	0.10054	0.00344	0.1000	0.01079	0.1000	0.0153
Silicon	0.01997	0.01949	0.01947	0.02053	0.02103	0.02063	0.02079	0.00063	0.0200	0.00198	0.0200	0.0020
Chromium	0.00100	0.00096	0.00096	0.00116	0.00117	0.00109	0.00115	0.00009	0.0010	0.00030	0.0010	0.0005
Manganese	0.00965	0.00966	0.00962	0.00727	0.00736	0.00964	0.00963	0.00113	0.0100	0.00356	0.0100	0.0037
Iron	0.01670	0.01666	0.01669	0.01930	0.01911	0.01418	0.01399	0.00209	0.0200	0.00657	0.0200	0.0066
Cobalt	0.00276	0.00227	0.00246	0.00248	0.00246	0.00188	0.00221	0.00028	0.0025	0.00087	0.0025	0.0009
Nickel	0.00479	0.00493	0.00510	0.00476	0.00489	0.00457	0.00453	0.00020	0.0050	0.00063	0.0050	0.0006
Copper	0.00508	0.00506	0.00488	0.00503	0.00521	0.00474	0.00486	0.00016	0.0050	0.00050	0.0050	0.0005
Zinc	0.01247	0.01227	0.01233	0.01015	0.01017	0.00939	0.00952	0.00139	0.0100	0.00438	0.0100	0.0044
Arsenic	0.00990	0.00949	0.00882	0.01052	0.01052	0.01070	0.01000	0.00067	0.0100	0.00210	0.0100	0.0021
Selenium	0.00898	0.00986	0.01063	0.01176	0.01126	0.01021	0.01046	0.00091	0.0100	0.00286	0.0100	0.0032
Molybdenum	0.00546	0.00537	0.00512	0.00602	0.00529	0.00458	0.00502	0.00044	0.0050	0.00139	0.0050	0.0021
Silver	0.00245	0.00240	0.00249	0.00200	0.00194	0.00221	0.00211	0.00022	0.0025	0.00070	0.0025	0.0010
Cadmium	0.00248	0.00248	0.00244	0.00239	0.00240	0.00219	0.00224	0.00012	0.0025	0.00036	0.0025	0.0004
Tin	0.00982	0.01010	0.00968	0.01041	0.01050	0.00990	0.00999	0.00030	0.0100	0.00095	0.0100	0.0010
Antimony	0.01076	0.01056	0.00998	0.01034	0.01208	0.00938	0.00979	0.00087	0.0100	0.00274	0.0100	0.0027
Barium	0.00266	0.00257	0.00258	0.00258	0.00257	0.00249	0.00254	0.00005	0.0025	0.00016	0.0025	0.0008
Thallium	0.01580	0.01557	0.01597	0.01222	0.01292	0.01486	0.01560	0.00151	0.0150	0.00475	0.0150	0.0048
Lead	0.00431	0.00500	0.00446	0.00447	0.00503	0.00422	0.00371	0.00046	0.0050	0.00144	0.0050	0.0014
Calcium	0.20228	0.20108	0.20096	0.20023	0.20038	0.19290	0.19351	0.00386	0.2000	0.01211	0.2000	0.0121
Vanadium	0.00265	0.00253	0.00241	0.00232	0.00229	0.00240	0.00246	0.00012	0.0025	0.00039	0.0025	0.0006
Aluminum	0.05361	0.05332	0.05336	0.05134	0.05238	0.05032	0.04987	0.00153	0.0500	0.00482	0.0500	0.0075
Titanium	0.01017	0.01017	0.01014	0.01005	0.01003	0.01004	0.01004	0.00007	0.0100	0.00020	0.0100	0.0012
Sodium	0.10464	0.10886	0.11103	0.10060	0.10108	0.10829	0.10960	0.00421	0.1000	0.01321	0.1000	0.0132
Strontium	0.02468	0.02576	0.02592	0.02543	0.02579	0.02513	0.02569	0.00044	0.0250	0.00139	0.0250	0.0014

BLANK

Analyte	1	2	3	4	5	6	7	SD	Average	MDL	PQL
Beryllium	-0.00048	-0.00014	-0.00014	0.00001	0.00001	-0.00003	-0.00002	0.00017	-0.00011	0.00043	0.0010
Boron	-0.00209	-0.00259	-0.00248	-0.00694	-0.00772	-0.00175	-0.00221	0.00252	-0.00368	0.00423	0.1000
Magnesium	0.00244	0.00147	0.00205	0.00943	0.00934	0.00459	0.00401	0.00334	0.00476	0.01526	0.1000
Silicon	-0.00009	-0.00039	-0.00061	-0.00016	-0.00044	-0.00044	-0.00071	0.00022	-0.00041	0.00029	0.0200
Chromium	0.00017	0.00009	0.00006	0.00027	0.00032	0.00008	0.00012	0.00010	0.00016	0.00047	0.0010
Manganese	-0.00054	-0.00051	-0.00054	-0.00311	-0.00312	0.00037	0.00037	0.00149	-0.00101	0.00368	0.0100
Iron	-0.00361	-0.00368	-0.00350	-0.00126	-0.00121	0.00037	-0.00627	0.00219	-0.00274	0.00416	0.0200
Cobalt	-0.00033	0.00009	-0.00016	-0.00021	-0.00058	-0.00032	-0.00036	0.00021	-0.00027	0.00038	0.0025
Nickel	-0.00036	-0.00009	-0.00024	-0.00021	-0.00033	-0.00022	-0.00023	0.00009	-0.00024	0.00004	0.0050
Copper	0.00005	0.00002	0.00000	0.00019	0.00028	-0.00001	0.00000	0.00011	0.00008	0.00043	0.0050
Zinc	0.00056	-0.00003	-0.00006	-0.00024	-0.00022	-0.00079	-0.00081	0.00047	-0.00023	0.00126	0.0100
Arsenic	-0.00003	-0.00086	-0.00030	-0.00052	0.00012	0.00051	0.00034	0.00049	-0.00011	0.00142	0.0100
Selenium	-0.00105	-0.00101	0.00003	-0.00013	-0.00033	0.00092	0.00175	0.00101	0.00003	0.00321	0.0100
Molybdenum	0.00035	0.00064	-0.00012	0.00102	0.00080	-0.00015	-0.00059	0.00059	0.00028	0.00212	0.0050
Silver	-0.00021	-0.00023	-0.00022	-0.00146	-0.00143	-0.00071	-0.00064	0.00055	-0.00070	0.00102	0.0025
Cadmium	-0.00003	-0.00002	-0.00003	-0.00008	-0.00009	-0.00026	-0.00030	0.00012	-0.00012	0.00025	0.0025
Tin	-0.00048	-0.00035	0.00010	-0.00014	0.00016	-0.00005	-0.00008	0.00023	-0.00012	0.00060	0.0100
Antimony	0.00008	0.00020	0.00049	-0.00016	0.00141	0.00021	0.00121	0.00059	0.00049	0.00236	0.0100
Barium	0.00006	0.00062	0.00005	0.00003	-0.00010	-0.00003	-0.00006	0.00024	0.00008	0.00085	0.0025
Thallium	0.00113	0.00056	0.00015	0.00095	0.00031	0.00135	0.00088	0.00044	0.00076	0.00214	0.0150
Lead	-0.00006	-0.00093	-0.00022	-0.00025	-0.00031	-0.00180	-0.00134	0.00067	-0.00070	0.00139	0.0050
Calcium	-0.00505	0.00006	0.00001	-0.00038	-0.00024	-0.00119	-0.00204	0.00183	-0.00126	0.00450	0.2000
Vanadium	0.00027	0.00033	0.00044	0.00022	0.00016	0.00010	0.00011	0.00012	0.00023	0.00062	0.0025
Aluminum	0.00375	0.00381	0.00445	0.00041	0.00100	0.00108	0.00110	0.00169	0.00223	0.00754	0.0500
Titanium	0.00001	0.00001	-0.00001	-0.00006	-0.00010	0.00000	0.00088	0.00034	0.00010	0.00119	0.0100
Sodium	0.00136	0.00379	0.00132	-0.00038	-0.00214	-0.00015	0.00331	0.00210	0.00102	0.00761	0.1000
Strontium	-0.00115	-0.00166	-0.00116	-0.00120	-0.00012	-0.00045	-0.00044	0.00055	-0.00088	0.00085	0.0200

Note: ICP-04 is an additional instrument, MDL is within 0.5 to 2.0 of existing MDL. Retain existing MDL.

EPA 6020 Dissolved



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Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 114060
ASSET #: N069891

Instrument ID: NV00922-ICP8
Analyst: DBJ

Method:

EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 11/13/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.		X			X	
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)		X			X	
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?		X	X		X	X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?		X	X		X	X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?	X		X	X		X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

% RSD of Cr and Se in LLCCV failed. However, % rec passed criteria.
% Rec of Ba in several IQCs failed. For rerun.
Mn is OLR in N069891-007C/011C/014C/015C. For dilution.
Ba is OLR in N069891-014C/015C. For dilution.
Cr is OLR in N069891-001C/002C/003C. For dilution.
N069891-001C (first run) = 310 ug/L ; confirmation: _____ ; N069891-001A (218.6) = 26 ug/L ; confirmation: _____
N069891-004C (first run) = 2.5 ug/L ; confirmation: 2.4 ug/L ; N069891-004A (218.6) = 1.7 ug/L ; confirmation: 1.9 ug/L

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
2nd Level Reviewer _____

Date: _____
Date: 11/26/2024



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
REV 2.1
072018

FIRST LEVEL REVIEW:

QC Batch Number: 1104060
ASSET #: N069891

Instrument ID: NV00922-ICP8
Analyst: DBJ

Method:
 EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 11/14/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria ? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)		X			X	
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?	X			X		
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.	X			X		
24. LCS compounds within control limits.	X			X		
25. MS/MSD, RPD's are within control limits	X			X		
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct?(Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

Cr, Mn, Ba dilution
As and Ba rerun.
% RSD of As in N069891-015C. For rerun.

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ
2nd Level Reviewer NS 11/25/2024

Date: _____
Date: _____



Metals Technical Batch Review Checklist (ARCUS02)
ASSET LABORATORIES - LAS VEGAS

METALS ARCUS
 REV 2.1
 072018

FIRST LEVEL REVIEW:

QC Batch Number: 114060
 ASSET #: N069891

Instrument ID: NV00922-ICP8
 Analyst: DBJ

Method:

EPA 6010B / 200.7 EPA 7470A / 7471A/245.1
 EPA 6020 / 200.8 Other _____

Date Analyzed: 11/19/2024

Initial Calibration and Initial Calibration Verification	1st Level Review			2nd Level Review		
	Y	N	N/A	Y	N	N/A
1. Does correlation coefficient, r, meet criteria? (r = 0.995)	X			X		
2. For ICV, all analytes within ± 10% of expected value? (±5% for EPA 200.7)	X			X		
3. Does the ICP/MS meet tune criteria? (ICP/MS only)	X			X		
4. % RSD calculated from 3 injections?	X			X		
5. Is low level check at PQL within ± 20% of expected value? (ICP/ICPMS only)	X			X		
Interference Check						
6. ICS A and AB at the start and end of sequence or twice during an 8-hr period.	X			X		
7. Are ICSA and AB within ± 20% of expected value?	X			X		
Continuing Calibration						
8. CCV after every 10 samples and end of analysis sequence.	X			X		
9. For CCV, all analytes within ± 10% of expected value?	X			X		
10. Calibration blank after ICV and CCV analysis.	X			X		
11. Do all calibration blanks (ICB and CCBs) meet criteria? (< 1/2 PQL)	X			X		
12. Is low level check twice during 8 hr period or at end within ± 30% of expected value? (ICP/ICPMS only)	X			X		
Sample Information						
13. All samples are within linear dynamic range.	X			X		
14. All hits above PQL have %RSD of less than or equal to 15%? (ICP/ICPMS only)	X			X		
15. Are all samples analyzed/digested within hold time.	X			X		
16. Dilution test performed and within ± 10% of undiluted sample.	X			X		
17. When dilution test fails, post digestion spike recovery within 80-120% of expected value.			X			X
18. For samples < 4 ppb, does the Cr result differs with Cr6+ by no more than 0.7 ppb?			X			X
19. For samples > 4 ppb, does the Cr result differs with Cr6+ by no more than 20%?			X			X
20. For samples that failed Cr6 vs CrT criteria, are samples reanalyzed for confirmation?			X			X
21. For samples with Total and Dissolved analysis, is Total concentration higher or equal to Dissolved concentration?			X			X
QC Items						
22. IS are within control limits (70-125% for ICPMS).	X			X		
23. Method blank values are below 1/2 the reporting limit.			X			X
24. LCS compounds within control limits.			X			X
25. MS/MSD, RPD's are within control limits			X			X
Raw Data and Miscellaneous Information						
26. Are Non-Conformances documented			X			X
27. Runlog complete and included in package.	X			X		
28. Digestion log complete and included in package (if applicable)	X			X		
29. All sample raw data present in package.	X			X		
Preliminary Report						
30. Does the raw data match the preliminary report?	X			X		
31. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X			X		
32. Are special instructions met?	X			X		

Comments:

As rerun for N069891-015C
 % RSD of As in LLCCV failed. However, % recovery passed criteria.

	Yes	No	N/A
1. All assigned sample(s) analyzed	X		
2. Matrix / units correct	X		
3. Does batch meet QC requirements?	X		
4. Are analytical results correct? (Ex. dilutions, calculations.etc.)	X		
5. Is first level review correct and complete?	X		

1st Level Reviewer DBJ

Date: _____

2nd Level Reviewer [Signature]

Date: 11/26/2024

SAMPLE CALCULATION



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SAMPLE CALCULATION

METHOD: EPA 6020
TEST NAME: Heavy Metals by ICP-MS
MATRIX: Groundwater

FORMULA:

Calculate the Manganese concentration, in ug/L in the original sample as follows:

$$\text{Manganese, ug/L} = A * DF * PF$$

where:

A = ug/L, calculated concentration
DF = Dilution Factor
PF = Final Volume of Digestate, mL / Amount of Sample, mL

For Sample **N069891-001C**, the concentration in ug/L is calculated as follows:


$$\text{Manganese, ug/L} = 5.8041 * 1 * (25 / 25)$$

$$\text{Manganese, ug/L} = 5.80415$$

Reporting results in two significant figures,

$$\text{Manganese, ug/L} = 5.8$$

Reviewed by:

 1/5/2025

% RSD SUMMARY



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PERCENT RSD SUMMARY: 241113A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	137 Ba [3]				52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.09	24.113	15	<PQL	0.09	32.285	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.48	6.492	15	PASS	0.49	7.737	15	PASS
Std3-5/50 ppb	ICAL	1	4.86	1.753	15	PASS	4.72	4.141	15	PASS
Std4-10/100 ppb	ICAL	1	9.72	3.518	15	PASS	9.58	2.748	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.58	1.037	15	PASS	19.77	1.668	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	40.02	0.438	15	PASS	40.09	2.309	15	PASS
Std7-100/1000 ppb	ICAL	1	99.53	1.012	15	PASS	100.1	1.674	15	PASS
Std8-200/2000 ppb	ICAL	1	200.29	0.841	15	PASS	199.98	0.548	15	PASS
ICV	ICV	1	10.18	0.274	15	PASS	10.37	4.206	15	PASS
ICB	ICB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
LLCCV1	CCV	1	0.07	31.932	20	<PQL	0.09	27.943	20	<PQL
LLCCV2	CCV	1	1	6.819	20	PASS	1.09	6.613	20	PASS
MLCCV1	CCV	1	19.4	0.701	15	PASS	19.55	3.804	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	20.18	1.72	15	PASS	20.03	2.564	15	PASS
CCV1	CCV	1	19.47	3.716	15	PASS	19.59	0.822	15	PASS
CCB1	CCB	1	0.01	126.918	15	<PQL	0.01	168.997	15	<PQL
CCV2	CCV	1	20.24	2.174	15	PASS	19.75	2.412	15	PASS
CCB2	CCB	1	0	1086.346	15	<PQL	0.02	73.059	15	<PQL
CCV3	CCV	1	19.95	0.808	15	PASS	19.58	1.073	15	PASS
CCB3	CCB	1	0.01	58.631	15	<PQL	0.02	68.46	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	20.6	0.85	15	PASS	19.83	1.966	15	PASS
CCV4	CCV	1	20.84	0.49	15	PASS	19.33	1.914	15	PASS
CCB4	CCB	1	0.01	27.281	15	<PQL	<0.000	N/A	15	<PQL
CCV5	CCV	1	20.85	1.001	15	PASS	19.05	1.287	15	PASS
CCB5	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV6	CCV	1	21.6	3.138	15	PASS	18.63	1.639	15	PASS
CCB6	CCB	1	0	240.707	15	<PQL	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	21.65	0.409	15	PASS	18.37	0.98	15	PASS
CCV7	CCV	1	22.07	0.943	15	PASS	18.88	1.445	15	PASS
CCB7	CCB	1	0.01	64.936	15	<PQL	<0.000	N/A	15	<PQL
CCV8	CCV	1	21.6	2.399	15	PASS	19.23	2.694	15	PASS
CCB8	CCB	1	0.01	180.955	15	<PQL	<0.000	N/A	15	<PQL
ICSA4	ICSA	1	0	878.239	15	<PQL	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	22.02	1.622	15	PASS	19.27	1.113	15	PASS
MB-114060	MBLK	1	0	742.539	15	<PQL	0.06	69.702	15	<PQL
LCS-114060	LCS	1	11.27	0.515	15	PASS	10.07	2.166	15	PASS
N069889-001B	SAMP	1	11.73	1.181	15	PASS	0.46	4.865	15	PASS

PERCENT RSD SUMMARY: 241113A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	137 Ba [3]				52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N069889-002B	SAMP	1	24.23	1.294	15	PASS	0.4	9.448	15	PASS
N069889-003B	SAMP	1	27.56	1.342	15	PASS	0.45	4.527	15	PASS
N069891-001C	SAMP	1	24.14	0.968	15	PASS	273.88	1.898	15	PASS
N069891-002C	SAMP	1	43.75	1.156	15	PASS	2367.63	0.923	15	PASS
N069891-003C	SAMP	1	31.17	1.762	15	PASS	1157.26	2.306	15	PASS
N069891-004C	SAMP	1	43.8	2.599	15	PASS	2.48	2.221	15	PASS
CCV9	CCV	1	22.04	2.187	15	PASS	19.32	0.53	15	PASS
CCB9	CCB	1	0.01	57.664	15	<PQL	0.07	51.205	15	<PQL
N069891-005C	SAMP	1	44.82	1.313	15	PASS	2.24	2.828	15	PASS
N069891-007C	SAMP	1	85.5	1.232	15	PASS	0.87	8.154	15	PASS
N069891-009C	SAMP	1	112.51	0.688	15	PASS	0.74	6.455	15	PASS
N069891-010C	SAMP	1	37.76	0.976	15	PASS	0.13	6.906	15	PASS
N069891-010C	SAMP	5	7.64	1.226	15	PASS	<0.000	N/A	15	<PQL
N069891-010C-PS	PS	1	46.9	1.277	15	PASS	9.49	2.288	15	PASS
N069891-010CMS	MS	1	47.34	0.356	15	PASS	9.48	2.98	15	PASS
N069891-010CMSD	MSD	1	47.85	1.147	15	PASS	9.64	1.205	15	PASS
N069891-011C	SAMP	1	46.01	1.16	15	PASS	0.62	9.192	15	PASS
CCV10	CCV	1	21.94	0.586	15	PASS	19.38	2.723	15	PASS
CCB10	CCB	1	0.01	48.419	15	<PQL	0.02	42.104	15	<PQL
N069891-012C	SAMP	1	54.86	0.934	15	PASS	0.19	8.341	15	PASS
N069891-014C	SAMP	1	317.63	1.466	15	PASS	0.38	1.882	15	PASS
N069891-015C	SAMP	1	312.97	1.416	15	PASS	0.38	9.525	15	PASS
N069891-016C	SAMP	1	39.51	2.98	15	PASS	16.32	1.016	15	PASS
CCV11	CCV	1	22.12	2.184	15	PASS	19.29	4.36	15	PASS
CCB11	CCB	1	<0.000	N/A	15	<PQL	0.03	27.596	15	<PQL
ICSA5	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB5	ICSAB	1	22.44	2.102	15	PASS	19.14	0.6	15	PASS
CCV12	CCV	1	22.25	0.49	15	PASS	19.33	0.826	15	PASS
CCB12	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV13	CCV	1	21.81	2.86	15	PASS	19.08	1.576	15	PASS
CCB13	CCB	1	0.01	162.111	15	<PQL	0.01	100.16	15	<PQL
CCV14	CCV	1	22.42	1.65	15	PASS	19.23	2.103	15	PASS
CCB14	CCB	1	0.01	67.475	15	<PQL	<0.000	N/A	15	<PQL
CCV15	CCV	1	22.09	1.5	15	PASS	18.95	2.649	15	PASS
CCB15	CCB	1	0.01	255.182	15	<PQL	<0.000	N/A	15	<PQL
ICSA6	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB6	ICSAB	1	22.67	1.356	15	PASS	19.32	2.067	15	PASS
CCV16	CCV	1	22.45	1.531	15	PASS	18.93	1.619	15	PASS
CCB16	CCB	1	0	306.309	15	<PQL	<0.000	N/A	15	<PQL
CCV17	CCV	1	22.67	0.769	15	PASS	19.17	1.121	15	PASS
CCB17	CCB	1	0.01	151.451	15	<PQL	<0.000	N/A	15	<PQL

PERCENT RSD SUMMARY: 241113A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	137 Ba [3]				52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
CCV18	CCV	1	22.45	0.77	15	PASS	19.16	2.029	15	PASS
CCB18	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA7	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB7	ICSAB	1	22.92	1.542	15	PASS	19.31	2.705	15	PASS

PERCENT RSD SUMMARY: 241113A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.07	11.984	15	PASS	0.09	57.403	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.48	11.821	15	PASS	0.45	9.355	15	PASS
Std3-5/50 ppb	ICAL	1	4.83	3.529	15	PASS	5.02	7.567	15	PASS
Std4-10/100 ppb	ICAL	1	9.64	2.579	15	PASS	9.66	0.388	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.74	0.399	15	PASS	19.13	0.869	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	40.38	0.947	15	PASS	39.97	1.205	15	PASS
Std7-100/1000 ppb	ICAL	1	99.94	2.2	15	PASS	98.14	4.576	15	PASS
Std8-200/2000 ppb	ICAL	1	200	3.465	15	PASS	201.04	1.734	15	PASS
ICV	ICV	1	103.74	1.251	15	PASS	10.64	4.512	15	PASS
ICB	ICB	1	0	372.994	15	<PQL	0.01	165.927	15	<PQL
LLCCV1	CCV	1	0.1	36.065	20	<PQL	0.1	64.337	20	<PQL
LLCCV2	CCV	1	0.49	7.09	20	PASS	0.07	48.999	20	<PQL
MLCCV1	CCV	1	19.58	2.753	15	PASS	19.18	3.841	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	20.44	4.256	15	PASS	19.39	0.328	15	PASS
CCV1	CCV	1	19.85	2.052	15	PASS	19.02	2.156	15	PASS
CCB1	CCB	1	0.01	172.587	15	<PQL	0	4269.776	15	<PQL
CCV2	CCV	1	19.53	3.235	15	PASS	19.69	4.347	15	PASS
CCB2	CCB	1	0.01	9.51	15	PASS	<0.000	N/A	15	<PQL
CCV3	CCV	1	19.43	2.598	15	PASS	18.67	4.604	15	PASS
CCB3	CCB	1	0.01	115.669	15	<PQL	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	19.98	2.518	15	PASS	19.78	2.18	15	PASS
CCV4	CCV	1	19.05	2.767	15	PASS	19.03	3.947	15	PASS
CCB4	CCB	1	0.01	146.133	15	<PQL	<0.000	N/A	15	<PQL
CCV5	CCV	1	18.37	2.342	15	PASS	19.41	0.396	15	PASS
CCB5	CCB	1	0	584.772	15	<PQL	0.01	95.315	15	<PQL
CCV6	CCV	1	18.41	2.236	15	PASS	19.33	1.68	15	PASS
CCB6	CCB	1	0	605.227	15	<PQL	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	0	408455.84	15	<PQL
ICSAB3	ICSAB	1	18.92	1.107	15	PASS	19.67	4.518	15	PASS
CCV7	CCV	1	19.18	1.378	15	PASS	19.23	3.412	15	PASS
CCB7	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV8	CCV	1	19.07	1.87	15	PASS	19.11	1.016	15	PASS
CCB8	CCB	1	<0.000	N/A	15	<PQL	0.01	172.291	15	<PQL
ICSA4	ICSA	1	<0.000	N/A	15	<PQL	0.01	88.779	15	<PQL
ICSAB4	ICSAB	1	19.39	0.506	15	PASS	20.2	0.133	15	PASS
MB-114060	MBLK	1	0.02	53.617	15	<PQL	<0.000	N/A	15	<PQL
LCS-114060	LCS	1	100.55	0.514	15	PASS	10.24	8.5	15	PASS
N069889-001B	SAMP	1	395.16	0.746	15	PASS	4.62	5.937	15	PASS

PERCENT RSD SUMMARY: 241113A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N069889-002B	SAMP	1	393.27	1.232	15	PASS	4.96	2.046	15	PASS
N069889-003B	SAMP	1	357.24	2.018	15	PASS	5.62	8.386	15	PASS
N069891-001C	SAMP	1	5.8	1.698	15	PASS	2.18	8.892	15	PASS
N069891-002C	SAMP	1	1.13	8.016	15	PASS	1.36	7.354	15	PASS
N069891-003C	SAMP	1	1.62	5.786	15	PASS	2.5	3.588	15	PASS
N069891-004C	SAMP	1	12.53	1.984	15	PASS	1.45	4.497	15	PASS
CCV9	CCV	1	19.44	1.142	15	PASS	19.13	6.047	15	PASS
CCB9	CCB	1	0.01	154.967	15	<PQL	<0.000	N/A	15	<PQL
N069891-005C	SAMP	1	13.14	1.118	15	PASS	1.62	10.613	15	PASS
N069891-007C	SAMP	1	661.35	1.312	15	PASS	3.83	11.023	15	PASS
N069891-009C	SAMP	1	85.4	1.4	15	PASS	1.09	10.302	15	PASS
N069891-010C	SAMP	1	44.07	2.222	15	PASS	1.6	8.534	15	PASS
N069891-010C	SAMP	5	8.89	3.357	15	PASS	0.25	12.113	15	PASS
N069891-010C-PS	PS	1	133.17	0.459	15	PASS	12.09	2.169	15	PASS
N069891-010CMS	MS	1	134.2	2.212	15	PASS	11.55	4.981	15	PASS
N069891-010CMSD	MSD	1	135.53	3.344	15	PASS	11.45	1.844	15	PASS
N069891-011C	SAMP	1	291.81	2.359	15	PASS	2.73	9.417	15	PASS
CCV10	CCV	1	19.37	3.832	15	PASS	19.17	1.171	15	PASS
CCB10	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
N069891-012C	SAMP	1	140.52	0.769	15	PASS	3.72	11.564	15	PASS
N069891-014C	SAMP	1	629.88	1.372	15	PASS	0.5	6.482	15	PASS
N069891-015C	SAMP	1	603.89	0.999	15	PASS	0.53	26.325	15	NR!
N069891-016C	SAMP	1	11.95	2.299	15	PASS	3.2	0.445	15	PASS
CCV11	CCV	1	19.25	2.182	15	PASS	19.16	0.502	15	PASS
CCB11	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA5	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB5	ICSAB	1	19.92	1.807	15	PASS	19.7	4.67	15	PASS
CCV12	CCV	1	19.35	0.868	15	PASS	18.73	4.103	15	PASS
CCB12	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV13	CCV	1	19.27	2.02	15	PASS	19.5	2.492	15	PASS
CCB13	CCB	1	0.01	412.677	15	<PQL	<0.000	N/A	15	<PQL
CCV14	CCV	1	19.58	3.278	15	PASS	18.63	2.666	15	PASS
CCB14	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV15	CCV	1	19.17	3.529	15	PASS	18.98	1.904	15	PASS
CCB15	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSA6	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB6	ICSAB	1	19.52	1.238	15	PASS	19.6	3.013	15	PASS
CCV16	CCV	1	18.81	1.371	15	PASS	19.28	3.51	15	PASS
CCB16	CCB	1	<0.000	N/A	15	<PQL	0.02	166.507	15	<PQL
CCV17	CCV	1	19.08	1.156	15	PASS	18.78	0.976	15	PASS
CCB17	CCB	1	0	177.728	15	<PQL	0.02	206.161	15	<PQL

PERCENT RSD SUMMARY: 241113A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
CCV18	CCV	1	19.6	1.242	15	PASS	18.63	2.726	15	PASS
CCB18	CCB	1	0	192.772	15	<PQL	<0.000	N/A	15	<PQL
ICSA7	ICSA	1	<0.000	N/A	15	<PQL	0.01	83.096	15	<PQL
ICSAB7	ICSAB	1	19.75	3.581	15	PASS	19.45	5.732	15	PASS

PERCENT RSD SUMMARY: 241113A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	78 Se [1]				95 Mo [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.12	12.265	15	PASS	0.08	14.676	15	PASS
Std2-0.5/5 ppb	ICAL	1	0.5	11.779	15	PASS	0.45	13.077	15	PASS
Std3-5/50 ppb	ICAL	1	4.92	8.724	15	PASS	4.53	1.818	15	PASS
Std4-10/100 ppb	ICAL	1	9.61	1.868	15	PASS	9.38	0.424	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.04	8.983	15	PASS	18.95	1.319	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	40.19	1.414	15	PASS	38.77	1.317	15	PASS
Std7-100/1000 ppb	ICAL	1	99.23	1.39	15	PASS	99.13	1.184	15	PASS
Std8-200/2000 ppb	ICAL	1	200.47	1.129	15	PASS	200.83	0.688	15	PASS
ICV	ICV	1	10.4	5.325	15	PASS	10.01	2.366	15	PASS
ICB	ICB	1	0.08	99.014	15	<PQL	0.06	39.308	15	<PQL
LLCCV1	CCV	1	0.11	48.037	20	<PQL	0.13	15.179	20	PASS
LLCCV2	CCV	1	0.57	21.51	20	NR!	0.52	12.86	20	PASS
MLCCV1	CCV	1	19.73	3.606	15	PASS	19.14	1.485	15	PASS
ICSA1	ICSA	1	0.01	172.278	15	<PQL	0.02	36.49	15	<PQL
ICSAB1	ICSAB	1	19.48	2.932	15	PASS	21.44	1.931	15	PASS
CCV1	CCV	1	19.41	0.216	15	PASS	19.24	1.998	15	PASS
CCB1	CCB	1	0	24593.46	15	<PQL	0.03	19.79	15	<PQL
CCV2	CCV	1	20.17	3.356	15	PASS	19.36	1.418	15	PASS
CCB2	CCB	1	0.02	0.72	15	PASS	0.02	84.011	15	<PQL
CCV3	CCV	1	19.59	1.741	15	PASS	19.2	2.356	15	PASS
CCB3	CCB	1	0	2656.668	15	<PQL	0.04	19.237	15	<PQL
ICSA2	ICSA	1	0	5300.566	15	<PQL	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	20.71	7.701	15	PASS	21.5	1.905	15	PASS
CCV4	CCV	1	19.01	6.74	15	PASS	19.96	1.848	15	PASS
CCB4	CCB	1	0.06	24.489	15	<PQL	0.03	54.055	15	<PQL
CCV5	CCV	1	19.01	5.285	15	PASS	19.85	1.177	15	PASS
CCB5	CCB	1	0.01	163.358	15	<PQL	0.05	42.164	15	<PQL
CCV6	CCV	1	19.39	8.024	15	PASS	19.77	2.902	15	PASS
CCB6	CCB	1	0.03	61.778	15	<PQL	0.02	9.348	15	PASS
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	19.55	3.377	15	PASS	22.34	1.92	15	PASS
CCV7	CCV	1	19.34	7.24	15	PASS	20.02	1.668	15	PASS
CCB7	CCB	1	0.02	159.111	15	<PQL	0.02	33.823	15	<PQL
CCV8	CCV	1	18.73	2.521	15	PASS	19.51	1.118	15	PASS
CCB8	CCB	1	0.03	113.186	15	<PQL	0.04	18.812	15	<PQL
ICSA4	ICSA	1	0.02	145.893	15	<PQL	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	18.98	2.129	15	PASS	21.62	0.722	15	PASS
MB-114060	MBLK	1	<0.000	N/A	15	<PQL	0.03	37.032	15	<PQL
LCS-114060	LCS	1	10.12	5.303	15	PASS	10.35	1.443	15	PASS
N069889-001B	SAMP	1	1.47	21.901	15	NR!	19.74	0.152	15	PASS

PERCENT RSD SUMMARY: 241113A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	78 Se [1]				95 Mo [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N069889-002B	SAMP	1	1.41	23.535	15	NR!	20.22	2.016	15	PASS
N069889-003B	SAMP	1	1.21	8.2	15	PASS	18.47	3.159	15	PASS
N069891-001C	SAMP	1	6.31	3.215	15	PASS	21.99	3.647	15	PASS
N069891-002C	SAMP	1	8.3	2.267	15	PASS	8.29	1.479	15	PASS
N069891-003C	SAMP	1	8.44	4.351	15	PASS	10.18	0.984	15	PASS
N069891-004C	SAMP	1	5.34	0.571	15	PASS	25.28	2.39	15	PASS
CCV9	CCV	1	18.88	4.547	15	PASS	19.47	0.728	15	PASS
CCB9	CCB	1	<0.000	N/A	15	<PQL	0.03	27.265	15	<PQL
N069891-005C	SAMP	1	5.59	3.415	15	PASS	25.52	0.571	15	PASS
N069891-007C	SAMP	1	0.1	104.463	15	<PQL	31.71	1.591	15	PASS
N069891-009C	SAMP	1	0.1	45.717	15	<PQL	16.92	0.902	15	PASS
N069891-010C	SAMP	1	0.03	113.262	15	<PQL	10.36	2.22	15	PASS
N069891-010C	SAMP	5	<0.000	N/A	15	<PQL	2.06	3.575	15	PASS
N069891-010C-PS	PS	1	9.51	4.741	15	PASS	21.2	0.906	15	PASS
N069891-010CMS	MS	1	9.59	4.828	15	PASS	21.02	0.548	15	PASS
N069891-010CMSD	MSD	1	9.95	6.25	15	PASS	21.34	1.145	15	PASS
N069891-011C	SAMP	1	0.04	83.791	15	<PQL	17.39	2.196	15	PASS
CCV10	CCV	1	18.25	3.502	15	PASS	20.01	1.7	15	PASS
CCB10	CCB	1	0.03	115.214	15	<PQL	0.03	29.843	15	<PQL
N069891-012C	SAMP	1	0.02	2.871	15	PASS	15.31	1.734	15	PASS
N069891-014C	SAMP	1	0.03	146.843	15	<PQL	0.32	11.095	15	PASS
N069891-015C	SAMP	1	0.04	112.186	15	<PQL	0.32	15.478	15	<PQL
N069891-016C	SAMP	1	0.1	68.425	15	<PQL	16.64	0.847	15	PASS
CCV11	CCV	1	18.66	1.683	15	PASS	19.85	2.902	15	PASS
CCB11	CCB	1	0.05	104.984	15	<PQL	0.03	37.011	15	<PQL
ICSA5	ICSA	1	0.02	271.569	15	<PQL	<0.000	N/A	15	<PQL
ICSAB5	ICSAB	1	19.6	3.321	15	PASS	21.67	1.675	15	PASS
CCV12	CCV	1	19.5	2.804	15	PASS	19.64	2.966	15	PASS
CCB12	CCB	1	<0.000	N/A	15	<PQL	0.01	29.177	15	<PQL
CCV13	CCV	1	19.07	3.744	15	PASS	19.84	0.831	15	PASS
CCB13	CCB	1	<0.000	N/A	15	<PQL	0.02	67.228	15	<PQL
CCV14	CCV	1	19.19	3.398	15	PASS	19.8	1.258	15	PASS
CCB14	CCB	1	<0.000	N/A	15	<PQL	0.03	14.379	15	PASS
CCV15	CCV	1	18.88	3.232	15	PASS	19.61	1.183	15	PASS
CCB15	CCB	1	<0.000	N/A	15	<PQL	0.05	17.504	15	<PQL
ICSA6	ICSA	1	0	26617.532	15	<PQL	0	173.251	15	<PQL
ICSAB6	ICSAB	1	19.09	2.138	15	PASS	21.56	1.849	15	PASS
CCV16	CCV	1	18.53	10.441	15	PASS	19.94	2.176	15	PASS
CCB16	CCB	1	0.04	43.927	15	<PQL	0.03	28.153	15	<PQL
CCV17	CCV	1	19.15	2.672	15	PASS	19.99	0.955	15	PASS
CCB17	CCB	1	0	7914.028	15	<PQL	0.03	23.395	15	<PQL

PERCENT RSD SUMMARY: 241113A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	78 Se [1]				95 Mo [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
CCV18	CCV	1	18.52	4.652	15	PASS	19.97	1.476	15	PASS
CCB18	CCB	1	0.02	146.459	15	<PQL	0.04	13.131	15	PASS
ICSA7	ICSA	1	0.01	171.388	15	<PQL	0.01	167.773	15	<PQL
ICSAB7	ICSAB	1	19.13	1.285	15	PASS	21.77	0.791	15	PASS

PERCENT RSD SUMMARY: 241114B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	137 Ba [3]				52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.1	42.353	15	<PQL	0.09	35.634	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.5	10.873	15	PASS	0.48	5.581	15	PASS
Std3-5/50 ppb	ICAL	1	4.65	5.276	15	PASS	4.86	0.694	15	PASS
Std4-10/100 ppb	ICAL	1	9.67	1.214	15	PASS	9.63	0.514	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.44	0.595	15	PASS	19.54	2.996	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.03	1.777	15	PASS	40.19	1.351	15	PASS
Std7-100/1000 ppb	ICAL	1	99.26	2.487	15	PASS	98.65	0.648	15	PASS
Std8-200/2000 ppb	ICAL	1	200.65	0.788	15	PASS	200.7	1.323	15	PASS
ICV	ICV	1	10.42	1.711	15	PASS	10.3	1.731	15	PASS
ICB	ICB	1	<0.000	N/A	15	<PQL	0.01	51.772	15	<PQL
LLCCV1	CCV	1	0.09	29.45	20	<PQL	0.12	17.454	20	PASS
LLCCV2	CCV	1	1.06	3.513	20	PASS	1.15	3.469	20	PASS
MLCCV1	CCV	1	19.24	1.734	15	PASS	19.56	1.634	15	PASS
ICSA1	ICSA	1	<0.000	N/A	15	<PQL	0.01	112.208	15	<PQL
ICSAB1	ICSAB	1	21.08	0.446	15	PASS	20.02	1.088	15	PASS
CCV1	CCV	1	20.45	1.312	15	PASS	19.61	0.709	15	PASS
CCB1	CCB	1	0	557.717	15	<PQL	0.02	27.668	15	<PQL
ICSA2	ICSA	1	<0.000	N/A	15	<PQL	0	531.654	15	<PQL
ICSAB2	ICSAB	1	21.25	2.127	15	PASS	20.76	0.628	15	PASS
CCV2	CCV	1	20.32	2.173	15	PASS	19.45	3.618	15	PASS
CCB2	CCB	1	0	119.977	15	<PQL	0.01	236.068	15	<PQL
CCV3	CCV	1	20.59	1.175	15	PASS	19.34	0.113	15	PASS
CCB3	CCB	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
CCV4	CCV	1	20.93	1.818	15	PASS	19.25	1.311	15	PASS
CCB4	CCB	1	0.01	99.249	15	<PQL	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	0	310.064	15	<PQL
ICSAB3	ICSAB	1	21.63	2.399	15	PASS	20.24	1.536	15	PASS
CCV5	CCV	1	20.72	2.17	15	PASS	19.71	1.423	15	PASS
CCB5	CCB	1	0	393.705	15	<PQL	<0.000	N/A	15	<PQL
CCV6	CCV	1	20.59	2.711	15	PASS	19.43	0.476	15	PASS
CCB6	CCB	1	0	204.875	15	<PQL	0.02	9.199	15	PASS
ICSA4	ICSA	1	0	177.345	15	<PQL	0.02	7.74	15	PASS
ICSAB4	ICSAB	1	21.65	0.575	15	PASS	20.43	2.936	15	PASS
MB-114060	MBLK	1	0.03	77.219	15	<PQL	0.15	5.758	15	PASS
LCS-114060	LCS	1	10.6	0.805	15	PASS	10.25	0.64	15	PASS
N069889-001B	SAMP	10	1.15	6.321	15	PASS	0.06	38.033	15	<PQL
N069889-002B	SAMP	10	2.37	7.066	15	PASS	0.07	16.793	15	<PQL
N069889-003B	SAMP	10	3.46	3.554	15	PASS	0.08	33.236	15	<PQL
N069891-016C	SAMP	1	37.45	2.876	15	PASS	16.42	1.995	15	PASS
N069891-001C	SAMP	1	23.38	2.951	15	PASS	276.35	2.305	15	PASS

PERCENT RSD SUMMARY: 241114B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	137 Ba [3]				52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N069891-001C	SAMP	10	2.69	1.035	15	PASS	31.33	2.003	15	PASS
N069891-002C	SAMP	1	41.69	0.535	15	PASS	2372.16	3.403	15	PASS
N069891-002C	SAMP	100	0.53	5.361	15	PASS	24.92	1.742	15	PASS
CCV7	CCV	1	21.01	0.684	15	PASS	19.35	1.203	15	PASS
CCB7	CCB	1	<0.000	N/A	15	<PQL	0.11	2.109	15	PASS
N069891-003C	SAMP	1	29.16	2.322	15	PASS	1176.04	0.803	15	PASS
N069891-003C	SAMP	10	3.52	4.8	15	PASS	134.43	0.209	15	PASS
N069891-004C	SAMP	1	43.06	1.52	15	PASS	2.53	2.973	15	PASS
N069891-005C	SAMP	1	42.76	0.892	15	PASS	2.48	1.644	15	PASS
N069891-007C	SAMP	1	81.78	1.013	15	PASS	1.03	7.19	15	PASS
N069891-007C	SAMP	10	8.62	2.51	15	PASS	0.14	1.997	15	PASS
N069891-009C	SAMP	1	107.59	0.839	15	PASS	0.87	4.92	15	PASS
N069891-010C	SAMP	1	36.88	1.909	15	PASS	0.22	5.829	15	PASS
N069891-010C	SAMP	5	7.36	3.464	15	PASS	0.07	18.993	15	<PQL
CCV8	CCV	1	20.66	1.449	15	PASS	19.6	1.793	15	PASS
CCB8	CCB	1	0	471.961	15	<PQL	0.08	42.511	15	<PQL
N069891-010C-PS	PS	1	45.87	1.485	15	PASS	9.93	0.858	15	PASS
N069891-010CMS	MS	1	45.58	0.998	15	PASS	9.87	1.186	15	PASS
N069891-010CMSD	MSD	1	46.39	0.105	15	PASS	10.1	3.297	15	PASS
N069891-011C	SAMP	1	44.1	1.403	15	PASS	0.77	2.247	15	PASS
N069891-011C	SAMP	10	6.39	2.992	15	PASS	0.12	24.18	15	<PQL
N069891-012C	SAMP	1	53.42	0.45	15	PASS	0.26	17.408	15	<PQL
N069891-014C	SAMP	1	306.38	1.548	15	PASS	0.46	1.869	15	PASS
N069891-014C	SAMP	10	31.97	1.179	15	PASS	0.91	7.214	15	PASS
N069891-015C	SAMP	1	303.35	1.776	15	PASS	0.51	16.888	15	<PQL
N069891-015C	SAMP	10	31.5	1.353	15	PASS	0.06	15.67	15	<PQL
CCV9	CCV	1	20.26	1.369	15	PASS	19.41	0.781	15	PASS
CCB9	CCB	1	0	222.031	15	<PQL	0.04	51.081	15	<PQL
ICSA5	ICSA	1	<0.000	N/A	15	<PQL	0.05	27.477	15	<PQL
ICSAB5	ICSAB	1	21.86	2.097	15	PASS	20.89	0.952	15	PASS
CCV10	CCV	1	20.69	3.866	15	PASS	19.35	3.205	15	PASS
CCB10	CCB	1	0	8.031	15	PASS	0.02	62.411	15	<PQL
CCV11	CCV	1	20.32	2.255	15	PASS	20.16	2.72	15	PASS
CCB11	CCB	1	0	168.305	15	<PQL	0	2100.852	15	<PQL
CCV12	CCV	1	19.88	1.458	15	PASS	19.94	3.251	15	PASS
CCB12	CCB	1	0	215.964	15	<PQL	0.02	37.015	15	<PQL
ICSA6	ICSA	1	0.01	82.916	15	<PQL	0.02	37.994	15	<PQL
ICSAB6	ICSAB	1	21.11	3.133	15	PASS	21.1	1.307	15	PASS
CCV13	CCV	1	20.26	1.943	15	PASS	20.15	1.16	15	PASS
CCB13	CCB	1	0	76.498	15	<PQL	0.02	82.06	15	<PQL
CCV14	CCV	1	20.05	2.407	15	PASS	20.26	4.071	15	PASS

PERCENT RSD SUMMARY: 241114B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	137 Ba [3]				52 Cr [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
CCB14	CCB	1	<0.000	N/A	15	<PQL	0	151.272	15	<PQL
CCV15	CCV	1	19.88	2.645	15	PASS	20.15	3.373	15	PASS
CCB15	CCB	1	<0.000	N/A	15	<PQL	0.02	157.28	15	<PQL
ICSA7	ICSA	1	<0.000	N/A	15	<PQL	0.02	63.355	15	<PQL
ICSAB7	ICSAB	1	21.51	2.29	15	PASS	21.3	0.901	15	PASS

PERCENT RSD SUMMARY: 241114B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.1	28.089	15	<PQL	0.1	51.504	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.51	10.347	15	PASS	0.43	27.054	15	FAIL
Std3-5/50 ppb	ICAL	1	4.84	4.104	15	PASS	4.42	5.994	15	PASS
Std4-10/100 ppb	ICAL	1	9.59	0.936	15	PASS	9.43	4.805	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.54	1.647	15	PASS	19.72	4.733	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	39.34	3.378	15	PASS	39.52	2.207	15	PASS
Std7-100/1000 ppb	ICAL	1	99.53	1.803	15	PASS	100.34	2.126	15	PASS
Std8-200/2000 ppb	ICAL	1	200.44	1.628	15	PASS	203.74	0.435	15	PASS
ICV	ICV	1	103.46	2.595	15	PASS	10.6	2.097	15	PASS
ICB	ICB	1	0.01	60.052	15	<PQL	0.01	232.495	15	<PQL
LLCCV1	CCV	1	0.09	28.188	20	<PQL	0.11	17.937	20	PASS
LLCCV2	CCV	1	0.59	8.852	20	PASS	0.11	32.068	20	NR!
MLCCV1	CCV	1	19.62	1.313	15	PASS	19.63	3.59	15	PASS
ICSA1	ICSA	1	0	519.449	15	<PQL	<0.000	N/A	15	<PQL
ICSAB1	ICSAB	1	20.22	0.519	15	PASS	20.21	4.596	15	PASS
CCV1	CCV	1	19.4	1.186	15	PASS	19.78	3.814	15	PASS
CCB1	CCB	1	0	177.719	15	<PQL	<0.000	N/A	15	<PQL
ICSA2	ICSA	1	0.01	60.169	15	<PQL	<0.000	N/A	15	<PQL
ICSAB2	ICSAB	1	20.98	0.107	15	PASS	19.94	1.858	15	PASS
CCV2	CCV	1	19.21	1.307	15	PASS	18.5	1.224	15	PASS
CCB2	CCB	1	0.01	85.833	15	<PQL	<0.000	N/A	15	<PQL
CCV3	CCV	1	19.46	1.506	15	PASS	18.5	4.228	15	PASS
CCB3	CCB	1	0.01	75.89	15	<PQL	<0.000	N/A	15	<PQL
CCV4	CCV	1	18.77	1.403	15	PASS	18.58	5.991	15	PASS
CCB4	CCB	1	0.01	87.013	15	<PQL	<0.000	N/A	15	<PQL
ICSA3	ICSA	1	<0.000	N/A	15	<PQL	<0.000	N/A	15	<PQL
ICSAB3	ICSAB	1	20.15	1.816	15	PASS	19.38	2.481	15	PASS
CCV5	CCV	1	19.17	1.212	15	PASS	18.81	1.307	15	PASS
CCB5	CCB	1	0.01	58.174	15	<PQL	0	2501.202	15	<PQL
CCV6	CCV	1	19.43	0.712	15	PASS	18.68	3.532	15	PASS
CCB6	CCB	1	0.01	55.72	15	<PQL	<0.000	N/A	15	<PQL
ICSA4	ICSA	1	0.02	25.893	15	<PQL	<0.000	N/A	15	<PQL
ICSAB4	ICSAB	1	20.38	2.775	15	PASS	19.65	1.983	15	PASS
MB-114060	MBLK	1	0.02	38.599	15	<PQL	0.01	239.751	15	<PQL
LCS-114060	LCS	1	100.35	1.654	15	PASS	9.79	0.366	15	PASS
N069889-001B	SAMP	10	42.73	1.669	15	PASS	0.46	30.511	15	NR!
N069889-002B	SAMP	10	43.21	2.401	15	PASS	0.47	9.945	15	PASS
N069889-003B	SAMP	10	48.61	2.115	15	PASS	0.7	28.502	15	NR!
N069891-016C	SAMP	1	11.9	3.316	15	PASS	2.7	12.342	15	PASS
N069891-001C	SAMP	1	6.08	2.558	15	PASS	2.36	7.379	15	PASS

PERCENT RSD SUMMARY: 241114B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
N069891-001C	SAMP	10	0.66	6.328	15	PASS	0.29	23.284	15	NR!
N069891-002C	SAMP	1	1.19	3.764	15	PASS	1.27	14.554	15	PASS
N069891-002C	SAMP	100	0.03	52.916	15	<PQL	<0.000	N/A	15	<PQL
CCV7	CCV	1	19.02	1.206	15	PASS	18.56	4.102	15	PASS
CCB7	CCB	1	0	128.719	15	<PQL	<0.000	N/A	15	<PQL
N069891-003C	SAMP	1	1.8	4.483	15	PASS	2.64	3.595	15	PASS
N069891-003C	SAMP	10	0.23	11.583	15	PASS	0.3	28.354	15	NR!
N069891-004C	SAMP	1	12.76	3.494	15	PASS	1.32	5.223	15	PASS
N069891-005C	SAMP	1	13.02	3.529	15	PASS	1.38	12.945	15	PASS
N069891-007C	SAMP	1	679.26	1.588	15	PASS	3.9	9.088	15	PASS
N069891-007C	SAMP	10	69.82	2.553	15	PASS	0.28	10.131	15	PASS
N069891-009C	SAMP	1	89.03	1.937	15	PASS	1.3	14.793	15	PASS
N069891-010C	SAMP	1	46.57	2.591	15	PASS	1.49	15.258	15	NR!
N069891-010C	SAMP	5	9.2	1.429	15	PASS	0.26	26.287	15	NR!
CCV8	CCV	1	19.07	1.038	15	PASS	18.16	2.168	15	PASS
CCB8	CCB	1	0.01	46.887	15	<PQL	<0.000	N/A	15	<PQL
N069891-010C-PS	PS	1	139.51	0.755	15	PASS	11.61	4.208	15	PASS
N069891-010CMS	MS	1	137.44	0.62	15	PASS	11.62	5.641	15	PASS
N069891-010CMSD	MSD	1	139.52	0.793	15	PASS	11.19	4.74	15	PASS
N069891-011C	SAMP	1	302.66	1.282	15	PASS	2.7	11.211	15	PASS
N069891-011C	SAMP	10	37.45	1.779	15	PASS	0.32	15.149	15	NR!
N069891-012C	SAMP	1	142.76	1.598	15	PASS	4.02	2.434	15	PASS
N069891-014C	SAMP	1	636.63	0.711	15	PASS	0.61	8.238	15	PASS
N069891-014C	SAMP	10	67.18	0.883	15	PASS	0.05	89.775	15	<PQL
N069891-015C	SAMP	1	630.99	1.549	15	PASS	0.52	17.974	15	NR!
N069891-015C	SAMP	10	63.94	0.889	15	PASS	0.03	73.149	15	<PQL
CCV9	CCV	1	19.07	1.39	15	PASS	18.12	3.685	15	PASS
CCB9	CCB	1	0.01	68.468	15	<PQL	0.01	64.389	15	<PQL
ICSA5	ICSA	1	0.02	69.47	15	<PQL	<0.000	N/A	15	<PQL
ICSAB5	ICSAB	1	20.9	0.24	15	PASS	19.45	0.486	15	PASS
CCV10	CCV	1	19.44	1.087	15	PASS	18.59	0.778	15	PASS
CCB10	CCB	1	0.01	120.703	15	<PQL	<0.000	N/A	15	<PQL
CCV11	CCV	1	19.75	1.96	15	PASS	18.97	2.432	15	PASS
CCB11	CCB	1	0.01	19.453	15	<PQL	<0.000	N/A	15	<PQL
CCV12	CCV	1	19.7	0.072	15	PASS	19.05	2.402	15	PASS
CCB12	CCB	1	0.02	24.067	15	<PQL	<0.000	N/A	15	<PQL
ICSA6	ICSA	1	0	173.358	15	<PQL	<0.000	N/A	15	<PQL
ICSAB6	ICSAB	1	20.96	1.434	15	PASS	19.55	1.308	15	PASS
CCV13	CCV	1	20.22	1.732	15	PASS	18.62	0.845	15	PASS
CCB13	CCB	1	0.01	305.604	15	<PQL	<0.000	N/A	15	<PQL
CCV14	CCV	1	20.12	4.486	15	PASS	17.86	6.838	15	PASS

PERCENT RSD SUMMARY: 241114B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	55 Mn [2]				75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment	Conc. [ppb]	RSD	Criteria	Comment
CCB14	CCB	1	0.02	58.175	15	<PQL	0.03	138.644	15	<PQL
CCV15	CCV	1	19.83	0.786	15	PASS	18.42	2.363	15	PASS
CCB15	CCB	1	0.01	71.302	15	<PQL	<0.000	N/A	15	<PQL
ICSA7	ICSA	1	0.01	61.409	15	<PQL	<0.000	N/A	15	<PQL
ICSAB7	ICSAB	1	21.75	1.545	15	PASS	19	6.939	15	PASS

PERCENT RSD SUMMARY: 241119A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
Cal Blk	IBLK	1	0	N/A	15	<PQL
Std1-0.1/1 ppb	ICAL	1	0.09	36.702	15	<PQL
Std2-0.5/5 ppb	ICAL	1	0.49	20.165	15	FAIL
Std3-5/50 ppb	ICAL	1	4.64	4.791	15	PASS
Std4-10/100 ppb	ICAL	1	9.38	6.035	15	PASS
Std5-4.0/20/200 ppb	ICAL	1	19.42	5.878	15	PASS
Std6-8.0/40/400 ppb	ICAL	1	38.92	2.9	15	PASS
Std7-100/1000 ppb	ICAL	1	99.3	1.994	15	PASS
Std8-200/2000 ppb	ICAL	1	200.66	0.642	15	PASS
ICV	ICV	1	10.08	4.177	15	PASS
ICB	ICB	1	0.02	87.083	15	<PQL
LLCCV1	CCV1	1	0.11	33.962	20	FAIL
LLCCV2	CCV1	1	0.12	30.871	20	FAIL
MLCCV1	CCV	1	19.98	3.852	15	PASS
ICSA1	ICSA	1	0.04	46.3	15	<PQL
ICSA1	ICSA	1	0.03	37.604	15	<PQL
ICSAB1	ICSAB	1	20.06	4.042	15	PASS
CCV1	CCV	1	19.14	2.988	15	PASS
CCB1	CCB	1	0.01	141.909	15	<PQL
CCV2	CCV	1	19.53	6.648	15	PASS
CCB2	CCB	1	<0.000	0	15	PASS
CCV3	CCV	1	19.17	0.421	15	PASS
CCB3	CCB	1	0.01	130.193	15	<PQL
CCV4	CCV	1	19.47	1.362	15	PASS
CCB4	CCB	1	0.02	53.047	15	<PQL
ICSA2	ICSA	1	0	520.137	15	<PQL
ICSAB2	ICSAB	1	19.6	2.26	15	PASS
N069891-015C	SAMP	1	0.56	14.717	15	PASS
N069891-015C	SAMP	1	0.59	17.628	15	NR!
CCV5	CCV	1	19.57	3.777	15	PASS
CCB5	CCB	1	0.01	123.66	15	<PQL
CCV6	CCV	1	19	2.229	15	PASS
CCB6	CCB	1	0.04	27.247	15	<PQL
CCV7	CCV	1	19.5	5.311	15	PASS
CCB7	CCB	1	0.03	39.124	15	<PQL
CCV8	CCV	1	18.36	3.164	15	PASS
CCB8	CCB	1	0	398.385	15	<PQL
ICSA3	ICSA	1	0.01	122.027	15	<PQL
ICSAB3	ICSAB	1	19.66	3.79	15	PASS
CCV9	CCV	1	18.61	1.691	15	PASS
CCB9	CCB	1	0.02	126.196	15	<PQL

PERCENT RSD SUMMARY: 241119A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	75 As [2]			
			Conc. [ppb]	RSD	Criteria	Comment
CCV10	CCV	1	19.55	1.645	15	PASS
CCB10	CCB	1	0	418.068	15	<PQL
ICSA4	ICSA	1	<0.000	0	15	PASS
ICSAB4	ICSAB	1	18.93	1.503	15	PASS
CCV11	CCV	1	19.21	1.5	15	PASS
CCB11	CCB	1	0.01	123.367	15	<PQL
ICSA5	ICSA	1	<0.000	0	15	PASS
ICSAB5	ICSAB	1	19.47	3.579	15	PASS

ANALYSIS RUN LOG



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INJECTION LOG: 241113A

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1113001.d	RINSE	ICAL	1	11/13/24 3:00 PM
A1113002.d	RINSE	ICAL	1	11/13/24 3:06 PM
A1113003.d	Cal Blk	IBLK	1	11/13/24 3:12 PM
A1113004.d	Std1-0.1/1 ppb	ICAL	1	11/13/24 3:18 PM
A1113005.d	Std2-0.5/5 ppb	ICAL	1	11/13/24 3:24 PM
A1113006.d	Std3-5/50 ppb	ICAL	1	11/13/24 3:30 PM
A1113007.d	Std4-10/100 ppb	ICAL	1	11/13/24 3:36 PM
A1113008.d	Std5-4.0/20/200 ppb	ICAL	1	11/13/24 3:42 PM
A1113009.d	Std6-8.0/40/400 ppb	ICAL	1	11/13/24 3:48 PM
A1113010.d	Std7-100/1000 ppb	ICAL	1	11/13/24 3:54 PM
A1113011.d	Std8-200/2000 ppb	ICAL	1	11/13/24 4:01 PM
A1113012.d	ICV	ICV	1	11/13/24 4:08 PM
A1113013.d	ICB	ICB	1	11/13/24 4:14 PM
A1113014.d	LLCCV1	CCV	1	11/13/24 4:20 PM
A1113015.d	LLCCV2	CCV	1	11/13/24 4:26 PM
A1113016.d	MLCCV1	CCV	1	11/13/24 4:31 PM
A1113017.d	ICSA1	ICSA	1	11/13/24 4:37 PM
A1113018.d	ICSAB1	ICSAB	1	11/13/24 4:43 PM
A1113019.d	N069824-003B	SAMP	100	11/13/24 4:51 PM
A1113020.d	N069824-006E	SAMP	1	11/13/24 4:57 PM
A1113021.d	N069824-009D	SAMP	10	11/13/24 5:03 PM
A1113022.d	N069824-010D	SAMP	100	11/13/24 5:09 PM
A1113023.d	N069824-011D	SAMP	100	11/13/24 5:14 PM
A1113024.d	N069824-011D	SAMP	500	11/13/24 5:20 PM
A1113025.d	N069824-011D-PS	PS	100	11/13/24 5:26 PM
A1113026.d	N069824-011DMS	MS	100	11/13/24 5:32 PM
A1113027.d	N069824-011DMSD	MSD	100	11/13/24 5:38 PM
A1113028.d	N069824-012B	SAMP	10	11/13/24 5:43 PM
A1113029.d	CCV1	CCV	1	11/13/24 5:49 PM
A1113030.d	CCB1	CCB	1	11/13/24 5:55 PM
A1113031.d	N069825-007D	SAMP	10	11/13/24 6:01 PM
A1113032.d	N069825-008D	SAMP	10	11/13/24 6:07 PM
A1113033.d	N069825-012D	SAMP	10	11/13/24 6:13 PM
A1113034.d	N069741-010DMS	MS	100	11/13/24 6:19 PM
A1113035.d	N069741-010DMSD	MSD	100	11/13/24 6:24 PM
A1113036.d	N069824-009D	SAMP	100	11/13/24 6:30 PM
A1113037.d	CCV2	CCV	1	11/13/24 6:36 PM
A1113038.d	CCB2	CCB	1	11/13/24 6:42 PM
A1113039.d	MB-114001	MBLK	1	11/13/24 6:48 PM
A1113040.d	LCS-114001	LCS	1	11/13/24 6:54 PM
A1113041.d	N069615-001A	SAMP	5	11/13/24 6:59 PM
A1113042.d	N069615-001A	SAMP	1	11/13/24 7:05 PM

INJECTION LOG: 241113A

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1113043.d	N069615-001A-PS	PS	1	11/13/24 7:11 PM
A1113044.d	N069615-001A-MS	MS	1	11/13/24 7:17 PM
A1113045.d	N069615-001A-MSD	MSD	1	11/13/24 7:23 PM
A1113046.d	RINSE	ICAL	1	11/13/24 7:29 PM
A1113047.d	CCV3	CCV	1	11/13/24 7:34 PM
A1113048.d	CCB3	CCB	1	11/13/24 7:40 PM
A1113049.d	ICSA2	ICSA	1	11/13/24 7:46 PM
A1113050.d	ICSAB2	ICSAB	1	11/13/24 7:52 PM
A1113051.d	MB-114024	MBLK	1	11/13/24 7:58 PM
A1113052.d	LCS-114024	LCS	1	11/13/24 8:04 PM
A1113053.d	N069838-001B	SAMP	1	11/13/24 8:10 PM
A1113054.d	N069839-001D	SAMP	1	11/13/24 8:16 PM
A1113055.d	N069839-002D	SAMP	1	11/13/24 8:21 PM
A1113056.d	N069839-003D	SAMP	1	11/13/24 8:27 PM
A1113057.d	N069839-004D	SAMP	1	11/13/24 8:33 PM
A1113058.d	N069839-004D	SAMP	5	11/13/24 8:39 PM
A1113059.d	N069839-004D-PS	PS	1	11/13/24 8:45 PM
A1113060.d	RINSE	ICAL	1	11/13/24 8:51 PM
A1113061.d	CCV4	CCV	1	11/13/24 8:57 PM
A1113062.d	CCB4	CCB	1	11/13/24 9:03 PM
A1113063.d	N069839-004DMS	MS	1	11/13/24 9:08 PM
A1113064.d	N069839-004DMSD	MSD	1	11/13/24 9:14 PM
A1113065.d	N069839-005D	SAMP	1	11/13/24 9:20 PM
A1113066.d	N069839-006D	SAMP	1	11/13/24 9:26 PM
A1113067.d	N069839-007D	SAMP	1	11/13/24 9:32 PM
A1113068.d	N069839-008B	SAMP	1	11/13/24 9:38 PM
A1113069.d	N069840-001D	SAMP	1	11/13/24 9:44 PM
A1113070.d	N069840-002D	SAMP	1	11/13/24 9:50 PM
A1113071.d	N069840-003D	SAMP	1	11/13/24 9:56 PM
A1113072.d	RINSE	ICAL	1	11/13/24 10:01 PM
A1113073.d	CCV5	CCV	1	11/13/24 10:07 PM
A1113074.d	CCB5	CCB	1	11/13/24 10:13 PM
A1113075.d	N069840-003D	SAMP	5	11/13/24 10:19 PM
A1113076.d	N069840-003D-PS	PS	1	11/13/24 10:25 PM
A1113077.d	N069840-003DMS	MS	1	11/13/24 10:31 PM
A1113078.d	N069840-003DMSD	MSD	1	11/13/24 10:37 PM
A1113079.d	RINSE	ICAL	1	11/13/24 10:42 PM
A1113080.d	CCV6	CCV	1	11/13/24 10:48 PM
A1113081.d	CCB6	CCB	1	11/13/24 10:54 PM
A1113082.d	ICSA3	ICSA	1	11/13/24 11:00 PM
A1113083.d	ICSAB3	ICSAB	1	11/13/24 11:06 PM
A1113084.d	MB-114089	MBLK	1	11/13/24 11:12 PM

INJECTION LOG: 241113A**Instrument ID: NV00922-ICP8**

Data File	Sample Name	Type	DF	Acq. Date-Time
A1113085.d	LCS-114089	LCS	1	11/13/24 11:18 PM
A1113086.d	N069542-001C	SAMP	1	11/13/24 11:23 PM
A1113087.d	N069542-002C	SAMP	1	11/13/24 11:29 PM
A1113088.d	N069542-003C	SAMP	1	11/13/24 11:35 PM
A1113089.d	N069889-001C	SAMP	1	11/13/24 11:41 PM
A1113090.d	N069889-002C	SAMP	1	11/13/24 11:47 PM
A1113091.d	N069889-003C	SAMP	1	11/13/24 11:53 PM
A1113092.d	RINSE	ICAL	1	11/13/24 11:59 PM
A1113093.d	CCV7	CCV	1	11/14/24 12:05 AM
A1113094.d	CCB7	CCB	1	11/14/24 12:11 AM
A1113095.d	N069916-001A	SAMP	1	11/14/24 12:16 AM
A1113096.d	N069916-001A	SAMP	10	11/14/24 12:22 AM
A1113097.d	N069916-002A	SAMP	1	11/14/24 12:28 AM
A1113098.d	N069916-002A	SAMP	10	11/14/24 12:34 AM
A1113099.d	N069916-003A	SAMP	1	11/14/24 12:40 AM
A1113100.d	N069916-003A	SAMP	5	11/14/24 12:46 AM
A1113101.d	N069916-003A-PS	PS	1	11/14/24 12:52 AM
A1113102.d	N069916-003A-MS	MS	1	11/14/24 12:58 AM
A1113103.d	N069916-003A-MSD	MSD	1	11/14/24 1:03 AM
A1113104.d	RINSE	ICAL	1	11/14/24 1:09 AM
A1113105.d	CCV8	CCV	1	11/14/24 1:15 AM
A1113106.d	CCB8	CCB	1	11/14/24 1:21 AM
A1113107.d	ICSA4	ICSA	1	11/14/24 1:27 AM
A1113108.d	ICSAB4	ICSAB	1	11/14/24 1:33 AM
A1113109.d	MB-114060	MBLK	1	11/14/24 1:39 AM
A1113110.d	LCS-114060	LCS	1	11/14/24 1:44 AM
A1113111.d	N069889-001B	SAMP	1	11/14/24 1:50 AM
A1113112.d	N069889-002B	SAMP	1	11/14/24 1:56 AM
A1113113.d	N069889-003B	SAMP	1	11/14/24 2:02 AM
A1113114.d	N069891-001C	SAMP	1	11/14/24 2:08 AM
A1113115.d	N069891-002C	SAMP	1	11/14/24 2:14 AM
A1113116.d	N069891-003C	SAMP	1	11/14/24 2:20 AM
A1113117.d	N069891-004C	SAMP	1	11/14/24 2:26 AM
A1113118.d	RINSE	ICAL	1	11/14/24 2:32 AM
A1113119.d	CCV9	CCV	1	11/14/24 2:38 AM
A1113120.d	CCB9	CCB	1	11/14/24 2:43 AM
A1113121.d	N069891-005C	SAMP	1	11/14/24 2:49 AM
A1113122.d	N069891-007C	SAMP	1	11/14/24 2:55 AM
A1113123.d	N069891-009C	SAMP	1	11/14/24 3:01 AM
A1113124.d	N069891-010C	SAMP	1	11/14/24 3:07 AM
A1113125.d	N069891-010C	SAMP	5	11/14/24 3:13 AM
A1113126.d	N069891-010C-PS	PS	1	11/14/24 3:19 AM

INJECTION LOG: 241113A

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1113127.d	N069891-010CMS	MS	1	11/14/24 3:25 AM
A1113128.d	N069891-010CMSD	MSD	1	11/14/24 3:31 AM
A1113129.d	N069891-011C	SAMP	1	11/14/24 3:37 AM
A1113130.d	RINSE	ICAL	1	11/14/24 3:42 AM
A1113131.d	CCV10	CCV	1	11/14/24 3:48 AM
A1113132.d	CCB10	CCB	1	11/14/24 3:54 AM
A1113133.d	N069891-012C	SAMP	1	11/14/24 4:00 AM
A1113134.d	N069891-014C	SAMP	1	11/14/24 4:06 AM
A1113135.d	N069891-015C	SAMP	1	11/14/24 4:12 AM
A1113136.d	N069891-016C	SAMP	1	11/14/24 4:18 AM
A1113137.d	RINSE	ICAL	1	11/14/24 4:24 AM
A1113138.d	CCV11	CCV	1	11/14/24 4:29 AM
A1113139.d	CCB11	CCB	1	11/14/24 4:35 AM
A1113140.d	ICSA5	ICSA	1	11/14/24 4:41 AM
A1113141.d	ICSAB5	ICSAB	1	11/14/24 4:47 AM
A1113142.d	MB-114088	MBLK	1	11/14/24 4:53 AM
A1113143.d	LCS-114088	LCS	1	11/14/24 4:59 AM
A1113144.d	N069542-001B	SAMP	10	11/14/24 5:05 AM
A1113145.d	N069542-002B	SAMP	10	11/14/24 5:10 AM
A1113146.d	N069542-003B	SAMP	10	11/14/24 5:16 AM
A1113147.d	N069923-001B	SAMP	1	11/14/24 5:22 AM
A1113148.d	N069923-002B	SAMP	1	11/14/24 5:28 AM
A1113149.d	N069923-003B	SAMP	1	11/14/24 5:34 AM
A1113150.d	N069926-001B	SAMP	1	11/14/24 5:40 AM
A1113151.d	RINSE	ICAL	1	11/14/24 5:46 AM
A1113152.d	CCV12	CCV	1	11/14/24 5:52 AM
A1113153.d	CCB12	CCB	1	11/14/24 5:58 AM
A1113154.d	N069926-002B	SAMP	1	11/14/24 6:03 AM
A1113155.d	N069926-003B	SAMP	1	11/14/24 6:09 AM
A1113156.d	N069926-003B	SAMP	5	11/14/24 6:15 AM
A1113157.d	N069926-003B-PS	PS	1	11/14/24 6:21 AM
A1113158.d	N069926-003BMS	MS	1	11/14/24 6:27 AM
A1113159.d	N069926-003BMSD	MSD	1	11/14/24 6:33 AM
A1113160.d	N069926-004B	SAMP	1	11/14/24 6:39 AM
A1113161.d	N069926-006B	SAMP	1	11/14/24 6:45 AM
A1113162.d	RINSE	ICAL	1	11/14/24 6:51 AM
A1113163.d	CCV13	CCV	1	11/14/24 6:57 AM
A1113164.d	CCB13	CCB	1	11/14/24 7:03 AM
A1113165.d	N069926-007B	SAMP	1	11/14/24 7:08 AM
A1113166.d	N069926-008B	SAMP	1	11/14/24 7:14 AM
A1113167.d	N069926-009B	SAMP	1	11/14/24 7:20 AM
A1113168.d	N069926-010B	SAMP	1	11/14/24 7:26 AM

INJECTION LOG: 241113A

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1113169.d	N069926-010B	SAMP	5	11/14/24 7:32 AM
A1113170.d	N069926-010B-PS	PS	1	11/14/24 7:38 AM
A1113171.d	N069926-010BMS	MS	1	11/14/24 7:44 AM
A1113172.d	N069926-010BMSD	MSD	1	11/14/24 7:50 AM
A1113173.d	N069926-011B	SAMP	1	11/14/24 7:56 AM
A1113174.d	RINSE	ICAL	1	11/14/24 8:02 AM
A1113175.d	CCV14	CCV	1	11/14/24 8:07 AM
A1113176.d	CCB14	CCB	1	11/14/24 8:13 AM
A1113177.d	N069926-012B	SAMP	1	11/14/24 8:19 AM
A1113178.d	N069926-014B	SAMP	1	11/14/24 8:25 AM
A1113179.d	N069926-015B	SAMP	1	11/14/24 8:31 AM
A1113180.d	N069926-016B	SAMP	1	11/14/24 8:37 AM
A1113181.d	RINSE	ICAL	1	11/14/24 8:43 AM
A1113182.d	CCV15	CCV	1	11/14/24 8:49 AM
A1113183.d	CCB15	CCB	1	11/14/24 8:55 AM
A1113184.d	ICSA6	ICSA	1	11/14/24 9:00 AM
A1113185.d	ICSAB6	ICSAB	1	11/14/24 9:06 AM
A1113186.d	MB-114097	MBLK	1	11/14/24 9:12 AM
A1113187.d	LCS-114097	LCS	1	11/14/24 9:18 AM
A1113188.d	N069926-017B	SAMP	1	11/14/24 9:24 AM
A1113189.d	N069926-017B	SAMP	5	11/14/24 9:30 AM
A1113190.d	N069926-017B-PS	PS	1	11/14/24 9:36 AM
A1113191.d	N069926-017B-MS	MS	1	11/14/24 9:41 AM
A1113192.d	N069926-017B-MSD	MSD	1	11/14/24 9:47 AM
A1113193.d	N069926-018B	SAMP	1	11/14/24 9:53 AM
A1113194.d	N069926-019B	SAMP	1	11/14/24 9:59 AM
A1113195.d	RINSE	ICAL	1	11/14/24 10:05 AM
A1113196.d	CCV16	CCV	1	11/14/24 10:11 AM
A1113197.d	CCB16	CCB	1	11/14/24 10:17 AM
A1113198.d	N069926-020B	SAMP	1	11/14/24 10:23 AM
A1113199.d	N069926-021B	SAMP	1	11/14/24 10:29 AM
A1113200.d	N069926-023B	SAMP	1	11/14/24 10:34 AM
A1113201.d	N069926-024B	SAMP	1	11/14/24 10:40 AM
A1113202.d	N069926-025B	SAMP	1	11/14/24 10:46 AM
A1113203.d	N069926-026B	SAMP	1	11/14/24 10:52 AM
A1113204.d	N069926-027B	SAMP	1	11/14/24 10:58 AM
A1113205.d	RINSE	ICAL	1	11/14/24 11:04 AM
A1113206.d	CCV17	CCV	1	11/14/24 11:10 AM
A1113207.d	CCB17	CCB	1	11/14/24 11:16 AM
A1113208.d	N069583-004A	SAMP	1	11/14/24 11:22 AM
A1113209.d	N069583-004B	SAMP	1	11/14/24 11:27 AM
A1113210.d	N069631-012B	SAMP	1	11/14/24 11:33 AM

INJECTION LOG: 241113A

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1113211.d	N069631-012B	SAMP	1	11/14/24 11:39 AM
A1113212.d	N069631-012B	SAMP	1	11/14/24 11:45 AM
A1113213.d	RINSE	ICAL	1	11/14/24 11:51 AM
A1113214.d	CCV18	CCV	1	11/14/24 11:57 AM
A1113215.d	CCB18	CCB	1	11/14/24 12:03 PM
A1113216.d	ICSA7	ICSA	1	11/14/24 12:09 PM
A1113217.d	ICSAB7	ICSAB	1	11/14/24 12:15 PM
A1113218.d	RINSE	ICAL	1	11/14/24 12:20 PM
A1113219.d	RINSE	ICAL	1	11/14/24 12:26 PM
A1113220.d	RINSE	ICAL	1	11/14/24 12:32 PM

INJECTION LOG: 241114B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1114001.d	RINSE	ICAL	1	11/14/24 5:33 PM
B1114002.d	RINSE	ICAL	1	11/14/24 5:39 PM
B1114003.d	Cal Blk	IBLK	1	11/14/24 5:45 PM
B1114004.d	Std1-0.1/1 ppb	ICAL	1	11/14/24 5:51 PM
B1114005.d	Std2-0.5/5 ppb	ICAL	1	11/14/24 5:57 PM
B1114006.d	Std3-5/50 ppb	ICAL	1	11/14/24 6:03 PM
B1114007.d	Std4-10/100 ppb	ICAL	1	11/14/24 6:09 PM
B1114008.d	Std5-4.0/20/200 ppb	ICAL	1	11/14/24 6:15 PM
B1114009.d	Std6-8.0/40/400 ppb	ICAL	1	11/14/24 6:21 PM
B1114010.d	Std7-100/1000 ppb	ICAL	1	11/14/24 6:28 PM
B1114011.d	Std8-200/2000 ppb	ICAL	1	11/14/24 6:34 PM
B1114012.d	ICV	ICV	1	11/14/24 6:40 PM
B1114013.d	ICB	ICB	1	11/14/24 6:46 PM
B1114014.d	LLCCV1	CCV	1	11/14/24 6:51 PM
B1114015.d	LLCCV2	CCV	1	11/14/24 6:57 PM
B1114016.d	MLCCV1	CCV	1	11/14/24 7:03 PM
B1114017.d	ICSA1	ICSA	1	11/14/24 7:28 PM
B1114018.d	ICSAB1	ICSAB	1	11/14/24 7:34 PM
B1114019.d	N069785-006A	SAMP	1	11/14/24 7:40 PM
B1114020.d	N069785-006D	SAMP	1	11/14/24 7:46 PM
B1114021.d	N069786-004A	SAMP	1	11/14/24 7:52 PM
B1114022.d	N069786-004D	SAMP	1	11/14/24 7:58 PM
B1114023.d	N069786-010A	SAMP	1	11/14/24 8:04 PM
B1114024.d	N069786-010B	SAMP	1	11/14/24 8:09 PM
B1114025.d	N069786-011A	SAMP	1	11/14/24 8:15 PM
B1114026.d	N069786-011B	SAMP	1	11/14/24 8:21 PM
B1114027.d	CCV1	CCV	1	11/14/24 8:27 PM
B1114028.d	CCB1	CCB	1	11/14/24 8:33 PM
B1114029.d	ICSA2	ICSA	1	11/14/24 8:39 PM
B1114030.d	ICSAB2	ICSAB	1	11/14/24 8:45 PM
B1114031.d	MB-114024	MBLK	1	11/14/24 8:50 PM
B1114032.d	LCS-114024	LCS	1	11/14/24 8:56 PM
B1114033.d	N069838-001B	SAMP	1	11/14/24 9:02 PM
B1114034.d	N069839-001D	SAMP	1	11/14/24 9:08 PM
B1114035.d	N069839-002D	SAMP	1	11/14/24 9:14 PM
B1114036.d	N069839-003D	SAMP	1	11/14/24 9:20 PM
B1114037.d	N069839-004D	SAMP	1	11/14/24 9:26 PM
B1114038.d	N069839-004D	SAMP	5	11/14/24 9:32 PM
B1114039.d	N069839-004D-PS	PS	1	11/14/24 9:37 PM
B1114040.d	RINSE	ICAL	1	11/14/24 9:43 PM
B1114041.d	CCV2	CCV	1	11/14/24 9:49 PM
B1114042.d	CCB2	CCB	1	11/14/24 9:55 PM

INJECTION LOG: 241114B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1114043.d	N069839-004DMS	MS	1	11/14/24 10:01 PM
B1114044.d	N069839-004DMSD	MSD	1	11/14/24 10:07 PM
B1114045.d	N069839-005D	SAMP	1	11/14/24 10:13 PM
B1114046.d	N069839-006D	SAMP	1	11/14/24 10:18 PM
B1114047.d	N069839-007D	SAMP	1	11/14/24 10:24 PM
B1114048.d	N069839-008B	SAMP	1	11/14/24 10:30 PM
B1114049.d	N069840-001D	SAMP	1	11/14/24 10:36 PM
B1114050.d	N069840-002D	SAMP	1	11/14/24 10:42 PM
B1114051.d	N069840-003D	SAMP	1	11/14/24 10:48 PM
B1114052.d	RINSE	ICAL	1	11/14/24 10:54 PM
B1114053.d	CCV3	CCV	1	11/14/24 11:00 PM
B1114054.d	CCB3	CCB	1	11/14/24 11:05 PM
B1114055.d	N069840-003D	SAMP	5	11/14/24 11:11 PM
B1114056.d	N069840-003D-PS	PS	1	11/14/24 11:17 PM
B1114057.d	N069840-003DMS	MS	1	11/14/24 11:23 PM
B1114058.d	N069840-003DMSD	MSD	1	11/14/24 11:29 PM
B1114059.d	N069583-008A	SAMP	1	11/14/24 11:35 PM
B1114060.d	N069583-008B	SAMP	1	11/14/24 11:41 PM
B1114061.d	RINSE	ICAL	1	11/14/24 11:47 PM
B1114062.d	CCV4	CCV	1	11/14/24 11:52 PM
B1114063.d	CCB4	CCB	1	11/14/24 11:58 PM
B1114064.d	ICSA3	ICSA	1	11/15/24 12:04 AM
B1114065.d	ICSAB3	ICSAB	1	11/15/24 12:10 AM
B1114066.d	MB-114089	MBLK	1	11/15/24 12:16 AM
B1114067.d	LCS-114089	LCS	1	11/15/24 12:21 AM
B1114068.d	N069916-001A	SAMP	1	11/15/24 12:27 AM
B1114069.d	N069916-001A	SAMP	10	11/15/24 12:33 AM
B1114070.d	N069916-002A	SAMP	1	11/15/24 12:39 AM
B1114071.d	N069916-002A	SAMP	10	11/15/24 12:45 AM
B1114072.d	N069916-003A	SAMP	1	11/15/24 12:51 AM
B1114073.d	N069916-003A	SAMP	5	11/15/24 12:57 AM
B1114074.d	RINSE	ICAL	1	11/15/24 1:03 AM
B1114075.d	CCV5	CCV	1	11/15/24 1:09 AM
B1114076.d	CCB5	CCB	1	11/15/24 1:14 AM
B1114077.d	N069916-003A-PS	PS	1	11/15/24 1:20 AM
B1114078.d	N069916-003A-MS	MS	1	11/15/24 1:26 AM
B1114079.d	N069916-003A-MSD	MSD	1	11/15/24 1:32 AM
B1114080.d	RINSE	ICAL	1	11/15/24 1:38 AM
B1114081.d	CCV6	CCV	1	11/15/24 1:44 AM
B1114082.d	CCB6	CCB	1	11/15/24 1:50 AM
B1114083.d	ICSA4	ICSA	1	11/15/24 1:55 AM
B1114084.d	ICSAB4	ICSAB	1	11/15/24 2:01 AM

INJECTION LOG: 241114B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1114085.d	MB-114060	MBLK	1	11/15/24 2:07 AM
B1114086.d	LCS-114060	LCS	1	11/15/24 2:13 AM
B1114087.d	N069889-001B	SAMP	10	11/15/24 2:19 AM
B1114088.d	N069889-002B	SAMP	10	11/15/24 2:25 AM
B1114089.d	N069889-003B	SAMP	10	11/15/24 2:31 AM
B1114090.d	N069891-016C	SAMP	1	11/15/24 2:36 AM
B1114091.d	N069891-001C	SAMP	1	11/15/24 2:42 AM
B1114092.d	N069891-001C	SAMP	10	11/15/24 2:48 AM
B1114093.d	N069891-002C	SAMP	1	11/15/24 2:54 AM
B1114094.d	N069891-002C	SAMP	100	11/15/24 3:00 AM
B1114095.d	CCV7	CCV	1	11/15/24 3:06 AM
B1114096.d	CCB7	CCB	1	11/15/24 3:12 AM
B1114097.d	N069891-003C	SAMP	1	11/15/24 3:17 AM
B1114098.d	N069891-003C	SAMP	10	11/15/24 3:23 AM
B1114099.d	N069891-004C	SAMP	1	11/15/24 3:29 AM
B1114100.d	N069891-005C	SAMP	1	11/15/24 3:35 AM
B1114101.d	N069891-007C	SAMP	1	11/15/24 3:41 AM
B1114102.d	N069891-007C	SAMP	10	11/15/24 3:47 AM
B1114103.d	N069891-009C	SAMP	1	11/15/24 3:53 AM
B1114104.d	N069891-010C	SAMP	1	11/15/24 3:59 AM
B1114105.d	N069891-010C	SAMP	5	11/15/24 4:05 AM
B1114106.d	CCV8	CCV	1	11/15/24 4:11 AM
B1114107.d	CCB8	CCB	1	11/15/24 4:17 AM
B1114108.d	N069891-010C-PS	PS	1	11/15/24 4:22 AM
B1114109.d	N069891-010CMS	MS	1	11/15/24 4:28 AM
B1114110.d	N069891-010CMSD	MSD	1	11/15/24 4:34 AM
B1114111.d	N069891-011C	SAMP	1	11/15/24 4:40 AM
B1114112.d	N069891-011C	SAMP	10	11/15/24 4:46 AM
B1114113.d	N069891-012C	SAMP	1	11/15/24 4:52 AM
B1114114.d	N069891-014C	SAMP	1	11/15/24 4:58 AM
B1114115.d	N069891-014C	SAMP	10	11/15/24 5:04 AM
B1114116.d	N069891-015C	SAMP	1	11/15/24 5:10 AM
B1114117.d	N069891-015C	SAMP	10	11/15/24 5:15 AM
B1114118.d	CCV9	CCV	1	11/15/24 5:21 AM
B1114119.d	CCB9	CCB	1	11/15/24 5:27 AM
B1114120.d	ICSA5	ICSA	1	11/15/24 5:33 AM
B1114121.d	ICSAB5	ICSAB	1	11/15/24 5:39 AM
B1114122.d	MB-114088	MBLK	1	11/15/24 5:45 AM
B1114123.d	LCS-114088	LCS	1	11/15/24 5:51 AM
B1114124.d	N069923-003B	SAMP	10	11/15/24 5:56 AM
B1114125.d	N069926-001B	SAMP	1	11/15/24 6:02 AM
B1114126.d	N069926-002B	SAMP	1	11/15/24 6:08 AM

INJECTION LOG: 241114B

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
B1114127.d	N069926-003B	SAMP	1	11/15/24 6:14 AM
B1114128.d	N069926-003B	SAMP	5	11/15/24 6:20 AM
B1114129.d	N069926-003B-PS	PS	1	11/15/24 6:26 AM
B1114130.d	N069926-003BMS	MS	1	11/15/24 6:32 AM
B1114131.d	N069926-003BMSD	MSD	1	11/15/24 6:38 AM
B1114132.d	CCV10	CCV	1	11/15/24 6:44 AM
B1114133.d	CCB10	CCB	1	11/15/24 6:50 AM
B1114134.d	N069926-004B	SAMP	1	11/15/24 6:55 AM
B1114135.d	N069926-006B	SAMP	1	11/15/24 7:01 AM
B1114136.d	N069926-007B	SAMP	1	11/15/24 7:07 AM
B1114137.d	N069926-007B	SAMP	10	11/15/24 7:13 AM
B1114138.d	N069926-008B	SAMP	1	11/15/24 7:19 AM
B1114139.d	N069926-008B	SAMP	10	11/15/24 7:25 AM
B1114140.d	N069926-009B	SAMP	1	11/15/24 7:31 AM
B1114141.d	N069926-010B	SAMP	1	11/15/24 7:37 AM
B1114142.d	N069926-010B	SAMP	5	11/15/24 7:43 AM
B1114143.d	CCV11	CCV	1	11/15/24 7:48 AM
B1114144.d	CCB11	CCB	1	11/15/24 7:54 AM
B1114145.d	N069926-010B-PS	PS	1	11/15/24 8:00 AM
B1114146.d	N069926-010BMS	MS	1	11/15/24 8:06 AM
B1114147.d	N069926-010BMSD	MSD	1	11/15/24 8:12 AM
B1114148.d	N069926-011B	SAMP	1	11/15/24 8:18 AM
B1114149.d	N069926-012B	SAMP	1	11/15/24 8:24 AM
B1114150.d	N069926-014B	SAMP	1	11/15/24 8:30 AM
B1114151.d	N069926-015B	SAMP	1	11/15/24 8:36 AM
B1114152.d	N069926-016B	SAMP	1	11/15/24 8:42 AM
B1114153.d	RINSE	ICAL	1	11/15/24 8:48 AM
B1114154.d	CCV12	CCV	1	11/15/24 8:53 AM
B1114155.d	CCB12	CCB	1	11/15/24 8:59 AM
B1114156.d	ICSA6	ICSA	1	11/15/24 9:05 AM
B1114157.d	ICSAB6	ICSAB	1	11/15/24 9:11 AM
B1114158.d	MB-114097	MBLK	1	11/15/24 9:17 AM
B1114159.d	LCS-114097	LCS	1	11/15/24 9:23 AM
B1114160.d	N069926-017B	SAMP	1	11/15/24 9:28 AM
B1114161.d	N069926-017B	SAMP	5	11/15/24 9:34 AM
B1114162.d	N069926-017B	SAMP	10	11/15/24 9:40 AM
B1114163.d	N069926-017B	SAMP	50	11/15/24 9:46 AM
B1114164.d	N069926-017B-PS	PS	1	11/15/24 9:52 AM
B1114165.d	N069926-017B-PS	PS	10	11/15/24 9:58 AM
B1114166.d	N069926-017B-MS	MS	1	11/15/24 10:04 AM
B1114167.d	N069926-017B-MS	MS	10	11/15/24 10:10 AM
B1114168.d	CCV13	CCV	1	11/15/24 10:15 AM

INJECTION LOG: 241114B**Instrument ID: NV00922-ICP8**

Data File	Sample Name	Type	DF	Acq. Date-Time
B1114169.d	CCB13	CCB	1	11/15/24 10:21 AM
B1114170.d	N069926-017B-MSD	MSD	1	11/15/24 10:27 AM
B1114171.d	N069926-017B-MSD	MSD	10	11/15/24 10:33 AM
B1114172.d	N069926-018B	SAMP	1	11/15/24 10:39 AM
B1114173.d	N069926-019B	SAMP	1	11/15/24 10:45 AM
B1114174.d	N069926-020B	SAMP	1	11/15/24 10:51 AM
B1114175.d	N069926-021B	SAMP	1	11/15/24 10:57 AM
B1114176.d	N069926-023B	SAMP	1	11/15/24 11:02 AM
B1114177.d	N069926-023B	SAMP	10	11/15/24 11:08 AM
B1114178.d	CCV14	CCV	1	11/15/24 11:14 AM
B1114179.d	CCB14	CCB	1	11/15/24 11:20 AM
B1114180.d	N069926-024B	SAMP	1	11/15/24 11:26 AM
B1114181.d	N069926-025B	SAMP	1	11/15/24 11:32 AM
B1114182.d	N069926-026B	SAMP	1	11/15/24 11:38 AM
B1114183.d	N069926-026B	SAMP	10	11/15/24 11:44 AM
B1114184.d	N069926-027B	SAMP	1	11/15/24 11:50 AM
B1114185.d	N069926-027B	SAMP	10	11/15/24 11:55 AM
B1114186.d	CCV15	CCV	1	11/15/24 12:01 PM
B1114187.d	CCB15	CCB	1	11/15/24 12:07 PM
B1114188.d	ICSA7	ICSA	1	11/15/24 12:13 PM
B1114189.d	ICSAB7	ICSAB	1	11/15/24 12:19 PM
B1114190.d	RINSE	ICAL	1	11/15/24 12:25 PM
B1114191.d	RINSE	ICAL	1	11/15/24 12:30 PM
B1114192.d	RINSE	ICAL	1	11/15/24 12:36 PM

INJECTION LOG: 241119A

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1119001.d	RINSE	ICAL	1	11/19/24 3:33 PM
A1119002.d	RINSE	ICAL	1	11/19/24 3:39 PM
A1119003.d	Cal Blk	IBLK	1	11/19/24 3:44 PM
A1119004.d	Std1-0.1/1 ppb	ICAL	1	11/19/24 3:51 PM
A1119005.d	Std2-0.5/5 ppb	ICAL	1	11/19/24 3:57 PM
A1119006.d	Std3-5/50 ppb	ICAL	1	11/19/24 4:03 PM
A1119007.d	Std4-10/100 ppb	ICAL	1	11/19/24 4:09 PM
A1119008.d	Std5-4.0/20/200 ppb	ICAL	1	11/19/24 4:15 PM
A1119009.d	Std6-8.0/40/400 ppb	ICAL	1	11/19/24 4:21 PM
A1119010.d	Std7-100/1000 ppb	ICAL	1	11/19/24 4:27 PM
A1119011.d	Std8-200/2000 ppb	ICAL	1	11/19/24 4:33 PM
A1119012.d	ICV	ICV	1	11/19/24 4:46 PM
A1119013.d	ICB	ICB	1	11/19/24 4:52 PM
A1119014.d	LLCCV1	CCV1	1	11/19/24 4:58 PM
A1119015.d	LLCCV2	CCV1	1	11/19/24 5:04 PM
A1119016.d	MLCCV1	CCV	1	11/19/24 5:09 PM
A1119017.d	ICSA1	ICSA	1	11/19/24 5:15 PM
A1119018.d	ICSA1	ICSA	1	11/19/24 5:21 PM
A1119019.d	ICSAB1	ICSAB	1	11/19/24 5:27 PM
A1119020.d	MB-114217	MBLK	1	11/19/24 5:33 PM
A1119021.d	LCS-114217	LCS	1	11/19/24 5:39 PM
A1119022.d	N069987-001A	SAMP	1	11/19/24 5:45 PM
A1119023.d	N070044-001A	SAMP	1	11/19/24 5:51 PM
A1119024.d	N070044-001A	SAMP	5	11/19/24 5:56 PM
A1119025.d	N070044-001A-PS	PS	1	11/19/24 6:02 PM
A1119026.d	N070044-001A-MS	MS	1	11/19/24 6:08 PM
A1119027.d	N070044-001A-MSD	MSD	1	11/19/24 6:14 PM
A1119028.d	N070044-002A	SAMP	1	11/19/24 6:20 PM
A1119029.d	N070044-003A	SAMP	1	11/19/24 6:26 PM
A1119030.d	RINSE	ICAL	1	11/19/24 6:32 PM
A1119031.d	CCV1	CCV	1	11/19/24 6:38 PM
A1119032.d	CCB1	CCB	1	11/19/24 6:43 PM
A1119033.d	N070044-004A	SAMP	1	11/19/24 6:49 PM
A1119034.d	N070044-005A	SAMP	1	11/19/24 6:55 PM
A1119035.d	N070044-005A	SAMP	5	11/19/24 7:01 PM
A1119036.d	RINSE	ICAL	1	11/19/24 7:07 PM
A1119037.d	RINSE	ICAL	1	11/19/24 7:13 PM
A1119038.d	RINSE	ICAL	1	11/19/24 7:19 PM
A1119039.d	RINSE	ICAL	1	11/19/24 7:25 PM
A1119040.d	CCV2	CCV	1	11/19/24 7:30 PM
A1119041.d	CCB2	CCB	1	11/19/24 7:36 PM
A1119042.d	MB-114225	MBLK	1	11/19/24 7:42 PM

INJECTION LOG: 241119A**Instrument ID: NV00922-ICP8**

Data File	Sample Name	Type	DF	Acq. Date-Time
A1119043.d	LCS-114225	LCS	1	11/19/24 7:48 PM
A1119044.d	N069992-003A	SAMP	1	11/19/24 7:54 PM
A1119045.d	N069992-003A-DUP	DUP	1	11/19/24 8:00 PM
A1119046.d	N070052-005A	SAMP	1	11/19/24 8:05 PM
A1119047.d	N070052-005A	SAMP	5	11/19/24 8:11 PM
A1119048.d	N070052-005A-PS	PS	1	11/19/24 8:17 PM
A1119049.d	N070052-005A-MS	MS	1	11/19/24 8:23 PM
A1119050.d	N070052-005A-MSD	MSD	1	11/19/24 8:29 PM
A1119051.d	RINSE	ICAL	1	11/19/24 8:35 PM
A1119052.d	CCV3	CCV	1	11/19/24 8:40 PM
A1119053.d	CCB3	CCB	1	11/19/24 8:46 PM
A1119054.d	N070052-010A	SAMP	1	11/19/24 8:52 PM
A1119055.d	N070052-015A	SAMP	1	11/19/24 8:58 PM
A1119056.d	RINSE	ICAL	1	11/19/24 9:04 PM
A1119060.d	RINSE	ICAL	1	11/19/24 9:10 PM
A1119061.d	CCV4	CCV	1	11/19/24 9:15 PM
A1119062.d	CCB4	CCB	1	11/19/24 9:21 PM
A1119063.d	ICSA2	ICSA	1	11/19/24 9:27 PM
A1119064.d	ICSAB2	ICSAB	1	11/19/24 9:33 PM
A1119065.d	N069891-015C	SAMP	1	11/19/24 9:39 PM
A1119066.d	N069926-009B	SAMP	1	11/19/24 9:45 PM
A1119067.d	N069926-021B	SAMP	1	11/19/24 9:51 PM
A1119068.d	N069891-015C	SAMP	1	11/19/24 9:57 PM
A1119069.d	N069926-009B	SAMP	1	11/19/24 10:03 PM
A1119070.d	N069926-021B	SAMP	1	11/19/24 10:08 PM
A1119071.d	RINSE	ICAL	1	11/19/24 10:14 PM
A1119072.d	CCV5	CCV	1	11/19/24 10:20 PM
A1119073.d	CCB5	CCB	1	11/19/24 10:26 PM
A1119074.d	MB-114150	MLBK	1	11/19/24 10:32 PM
A1119075.d	N069991-004B	SAMP	1	11/19/24 10:38 PM
A1119076.d	N069991-007C	SAMP	1	11/19/24 10:44 PM
A1119077.d	N069991-007C	SAMP	10	11/19/24 10:49 PM
A1119078.d	N069996-002C	SAMP	10	11/19/24 10:55 PM
A1119079.d	N069996-003B	SAMP	10	11/19/24 11:01 PM
A1119080.d	N069996-004B	SAMP	10	11/19/24 11:07 PM
A1119081.d	N069996-007B	SAMP	1	11/19/24 11:13 PM
A1119082.d	N069958-002C	SAMP	1	11/19/24 11:19 PM
A1119083.d	RINSE	ICAL	1	11/19/24 11:25 PM
A1119084.d	CCV6	CCV	1	11/19/24 11:31 PM
A1119085.d	CCB6	CCB	1	11/19/24 11:36 PM
A1119086.d	N069965-001B	SAMP	1	11/19/24 11:42 PM
A1119087.d	N069965-001B	SAMP	10	11/19/24 11:48 PM

INJECTION LOG: 241119A

Instrument ID: NV00922-ICP8

Data File	Sample Name	Type	DF	Acq. Date-Time
A1119088.d	N069965-002B	SAMP	10	11/19/24 11:54 PM
A1119089.d	N069965-004C	SAMP	10	11/20/24 12:00 AM
A1119090.d	N069965-004C	SAMP	50	11/20/24 12:06 AM
A1119091.d	N069965-004C-PS	PS	10	11/20/24 12:12 AM
A1119092.d	N069965-004C-MS	MS	10	11/20/24 12:18 AM
A1119093.d	N069965-004C-MSD	MSD	10	11/20/24 12:23 AM
A1119094.d	N069965-005C	SAMP	10	11/20/24 12:29 AM
A1119095.d	N069965-006C	SAMP	10	11/20/24 12:35 AM
A1119096.d	CCV7	CCV	1	11/20/24 12:41 AM
A1119097.d	CCB7	CCB	1	11/20/24 12:47 AM
A1119098.d	N069965-007C	SAMP	10	11/20/24 12:53 AM
A1119099.d	N069965-008C	SAMP	10	11/20/24 12:59 AM
A1119100.d	N069965-009C	SAMP	10	11/20/24 1:05 AM
A1119101.d	N069965-010C	SAMP	10	11/20/24 1:10 AM
A1119102.d	N069965-011C	SAMP	10	11/20/24 1:16 AM
A1119103.d	N069965-013B	SAMP	10	11/20/24 1:22 AM
A1119104.d	N069965-015B	SAMP	10	11/20/24 1:28 AM
A1119105.d	N069965-017B	SAMP	10	11/20/24 1:34 AM
A1119106.d	N069965-019C	SAMP	10	11/20/24 1:40 AM
A1119107.d	CCV8	CCV	1	11/20/24 1:46 AM
A1119108.d	CCB8	CCB	1	11/20/24 1:52 AM
A1119109.d	ICSA3	ICSA	1	11/20/24 1:57 AM
A1119110.d	ICSAB3	ICSAB	1	11/20/24 2:03 AM
A1119111.d	MB-114216	MBLK	1	11/20/24 2:09 AM
A1119112.d	LCS-114216	LCS	1	11/20/24 2:15 AM
A1119113.d	N070018-001B	SAMP	1	11/20/24 2:21 AM
A1119114.d	N070018-001B	SAMP	5	11/20/24 2:27 AM
A1119115.d	N070018-001B-PS	PS	1	11/20/24 2:32 AM
A1119116.d	N070018-001BMS	MS	1	11/20/24 2:38 AM
A1119117.d	N070018-001BMSD	MSD	1	11/20/24 2:44 AM
A1119118.d	N070018-002B	SAMP	1	11/20/24 2:50 AM
A1119119.d	N070018-004B	SAMP	1	11/20/24 2:56 AM
A1119120.d	RINSE	ICAL	1	11/20/24 3:02 AM
A1119121.d	CCV9	CCV	1	11/20/24 3:08 AM
A1119122.d	CCB9	CCB	1	11/20/24 3:13 AM
A1119123.d	N070018-005B	SAMP	1	11/20/24 3:19 AM
A1119124.d	N070018-006B	SAMP	1	11/20/24 3:25 AM
A1119125.d	N070018-008B	SAMP	1	11/20/24 3:31 AM
A1119126.d	N070018-009B	SAMP	1	11/20/24 3:37 AM
A1119127.d	N070018-009B	SAMP	10	11/20/24 3:43 AM
A1119128.d	N070018-010B	SAMP	1	11/20/24 3:49 AM
A1119129.d	N070018-015B	SAMP	1	11/20/24 3:55 AM

INJECTION LOG: 241119A**Instrument ID: NV00922-ICP8**

Data File	Sample Name	Type	DF	Acq. Date-Time
A1119130.d	N070018-016B	SAMP	1	11/20/24 4:00 AM
A1119131.d	N070018-017B	SAMP	1	11/20/24 4:06 AM
A1119132.d	RINSE	ICAL	1	11/20/24 4:12 AM
A1119133.d	CCV10	CCV	1	11/20/24 4:18 AM
A1119134.d	CCB10	CCB	1	11/20/24 4:24 AM
A1119135.d	ICSA4	ICSA	1	11/20/24 4:30 AM
A1119136.d	ICSAB4	ICSAB	1	11/20/24 4:36 AM
A1119137.d	N069991-004B	SAMP	1	11/20/24 4:41 AM
A1119138.d	N069991-007C	SAMP	1	11/20/24 4:47 AM
A1119139.d	N069996-007B	SAMP	1	11/20/24 4:53 AM
A1119140.d	N069958-002C	SAMP	1	11/20/24 4:59 AM
A1119141.d	N069965-001B	SAMP	1	11/20/24 5:05 AM
A1119142.d	N069991-004B	SAMP	1	11/20/24 5:11 AM
A1119143.d	N069991-007C	SAMP	1	11/20/24 5:17 AM
A1119144.d	N069996-007B	SAMP	1	11/20/24 5:23 AM
A1119145.d	N069958-002C	SAMP	1	11/20/24 5:29 AM
A1119146.d	N069965-001B	SAMP	1	11/20/24 5:35 AM
A1119147.d	CCV11	CCV	1	11/20/24 5:40 AM
A1119148.d	CCB11	CCB	1	11/20/24 5:46 AM
A1119149.d	ICSA5	ICSA	1	11/20/24 5:52 AM
A1119150.d	ICSAB5	ICSAB	1	11/20/24 5:58 AM
A1119151.d	RINSE	ICAL	1	11/20/24 6:04 AM
A1119152.d	RINSE	ICAL	1	11/20/24 6:10 AM
A1119153.d	RINSE	ICAL	1	11/20/24 6:16 AM

SAMPLE PREPARATION LOG



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

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ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 11/12/2024 12:42:00 PM

Reviewed/ Date: KDG / 11/26/2024

Prep End Date: 11/12/2024 4:25:00 PM

Initials/ Date: for _____

Prep Batch 114060 Prep Code:3010_W_MSDISS_TPK

Technician: Diane Jetajobe

Prep Factor Units Temp. (°C): Location:
mL / mL 95.1 DB-4-48

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
LCS-114060	Aqueous		25	<input type="checkbox"/>	25	1.000		
MB-114060	Aqueous		25	<input type="checkbox"/>	25	1.000		
50ML LOT# J96406-5447								
N069889-001B	Water	<2	25	<input type="checkbox"/>	25	1.000		
THERMOMETER ID: DIGESTION 7								
N069889-002B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069889-003B	Water	<2	25	<input type="checkbox"/>	25	1.000		
N069891-001C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069891-002C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069891-003C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069891-004C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069891-005C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069891-007C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069891-009C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069891-010C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17150	HYDROCHLORIC ACID
17254	NITRIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-240815C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-240815D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-240815E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-240815F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

ASSET Laboratories

PREP BATCH REPORT

Prep Start Date: 11/12/2024 12:42:00 PM

Reviewed/ Date: KDG / 11/26/2024

Prep End Date: 11/12/2024 4:25:00 PM

Initials/ Date: for

Prep Batch 114060 Prep Code:3010_W_MSDISS_TPK

Technician: **Diane Jetajobe**

Prep Factor Units mL / mL Temp. (°C): 95.1 Location: DB-4-48

Sample ID	Matrix	pH	SampAmt	3 Replicates	Fin Vol	Factor	Clean Up Code	TURB Check
N069891-010CMS	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069891-010CMSD	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069891-011C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069891-012C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069891-014C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069891-015C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		
N069891-016C	Groundwater	<2	25	<input type="checkbox"/>	25	1.000		

Clean Up Code: A = ACID; F = FLORISIL; S = SILICA GEL; M = MERCURY; G = GPC

Number	Reagent Name
17150	HYDROCHLORIC ACID
17254	NITRIC ACID

Spk ID	Spike Name	SampType	AmtAdd
2MWST-240815C	ICV/MS/MSD/LCS/LCSD Solution A		0.25
2MWST-240815D	ICV/MS/MSD/LCS/LCSD Solution B		0.25
2MWST-240815E	ICV/MS/MSD/LCS/LCSD Solution C		0.25
2MWST-240815F	ICV/MS/MSD/LCS/LCSD Solution D		0.25

INSTRUMENT TUNING CHECK



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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NEVADA
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P: 702.307.2659 F: 702.307.2691

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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\24112A.b
Acq. Date-Time 2024-11-13 13:12:47
Report Comment —
Instrument Name G8421A SG19193757

[No Gas]

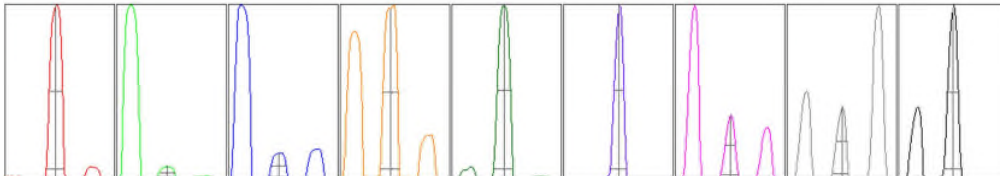
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	1026	10257.24	500.00		3.733	5.000
24	10.00	3649	36489.91	500.00		3.234	5.000
25	10.00	501	5007.94	500.00		4.883	5.000
26	10.00	592	5919.03	500.00		4.508	5.000
59	10.00	10409	104088.54	500.00		2.437	5.000
115	10.00	15639	156388.60	500.00		1.842	5.000
206	10.00	3018	30176.62	500.00		2.564	5.000
207	10.00	2481	24811.99	500.00		2.989	5.000
208	10.00	6014	60135.46	500.00		2.408	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.440 %
Doubly Charged 70 / 140 0.551 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	1019.58	8.90	8.90 - 9.10	
24	3614.92	23.90	23.90 - 24.10	
25	495.84	24.90	24.90 - 25.10	
26	573.61	25.90	25.90 - 26.10	
59	10333.42	58.95	58.90 - 59.10	
115	16632.00	115.05	114.90 - 115.10	
206	3006.13	206.05	205.90 - 206.10	
207	2456.62	207.05	206.90 - 207.10	
208	5907.16	208.00	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.37	0.487	0.900	
24	0.42	0.527	0.900	
25	0.42	0.509	0.900	
26	0.41	0.533	0.900	
59	0.37	0.525	0.900	
115	0.28	0.438	0.900	
206	0.29	0.476	0.900	
207	0.30	0.440	0.900	
208	0.30	0.478	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.20 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.6 V	Deflect	15.8 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-70 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	1.1 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2107 V Pulse HV 934 V

[H2]

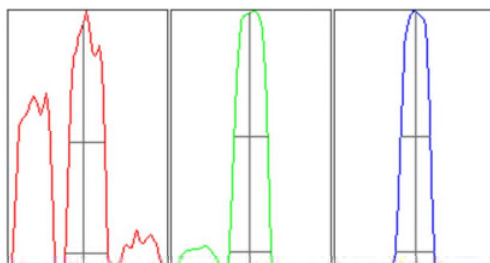
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		55	554.41			14.110	
59		926	9261.78			4.374	
115		17062	170616.90			1.945	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.357 %
 Doubly Charged 70 / 140 0.174 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	59.00	25.95	25.90 - 26.10	
59	967.56	59.00	58.90 - 59.10	
115	17822.38	115.05	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.67	0.789	0.900	
59	0.64	0.783	0.900	
115	0.57	0.731	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	--	Auxiliary Gas	0.90 L/min
RF Matching	1.20 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.6 V	Deflect	3.6 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-70 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	—	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	128	Axis Gain	0.9993	QP Bias	-15.0 V
Mass Offset	126	Axis Offset	0.08		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	1.1 mm
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EM

Discriminator	4.5 mV	Analog HV	2107 V	Pulse HV	934 V
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[He]

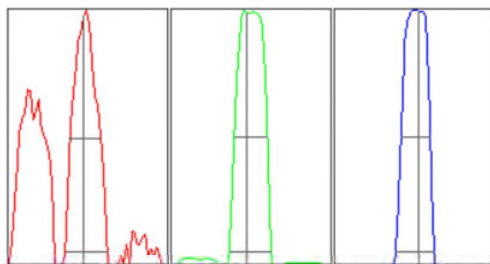
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		26	255.80			20.657	
59		3212	32115.16			2.477	
115		3705	37045.16			2.388	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.160 %
Doubly Charged	70 / 140 0.607 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	31.25	25.95	25.90 - 26.10	
59	3087.72	58.95	58.90 - 59.10	
115	3624.97	115.10	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.59	0.786	0.900	
59	0.63	0.783	0.900	
115	0.56	0.728	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.20 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.6 V	Deflect	4.0 V
Extract 2	-195.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-80 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	128	Axis Gain	0.9993	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	0.08		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	1.1 mm
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EM

Discriminator	4.5 mV	Analog HV	2107 V	Pulse HV	934 V
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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\24113A1.b
Acq. Date-Time 2024-11-14 15:14:27
Report Comment —
Instrument Name G8421A SG19193757

[No Gas]

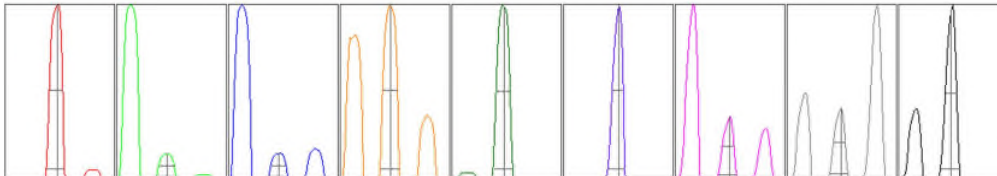
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	2108	21077.83	500.00		2.795	5.000
24	10.00	6496	64960.59	500.00		3.006	5.000
25	10.00	878	8783.26	500.00		4.893	5.000
26	10.00	1028	10278.50	500.00		3.996	5.000
59	10.00	15485	154852.19	500.00		2.414	5.000
115	10.00	23463	234628.01	500.00		1.982	5.000
206	10.00	4264	42641.92	500.00		2.329	5.000
207	10.00	3400	34004.66	500.00		2.752	5.000
208	10.00	8390	83897.46	500.00		2.458	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.316 %
Doubly Charged 70 / 140 0.654 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	2126.88	8.95	8.90 - 9.10	
24	6543.47	23.90	23.90 - 24.10	
25	876.00	24.90	24.90 - 25.10	
26	1071.62	25.90	25.90 - 26.10	
59	15246.05	58.95	58.90 - 59.10	
115	23517.40	115.05	114.90 - 115.10	
206	3929.85	206.00	205.90 - 206.10	
207	3216.85	207.00	206.90 - 207.10	
208	7811.03	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.38	0.488	0.900	
24	0.43	0.539	0.900	
25	0.42	0.530	0.900	
26	0.42	0.536	0.900	
59	0.39	0.533	0.900	
115	0.32	0.460	0.900	
206	0.33	0.490	0.900	
207	0.33	0.505	0.900	
208	0.32	0.523	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.20 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.6 V	Deflect	15.8 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-70 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	1.1 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2100 V Pulse HV 942 V

[H2]

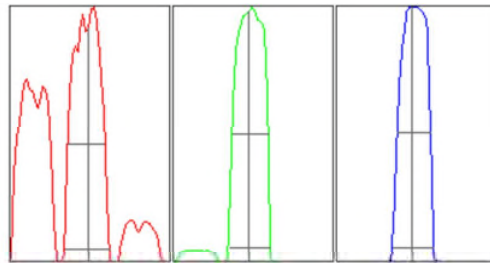
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		78	784.22			10.238	
59		1987	19872.06			2.798	
115		22575	225749.29			2.272	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.224 %
 Doubly Charged 70 / 140 0.213 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	82.50	26.00	25.90 - 26.10	
59	2043.83	58.95	58.90 - 59.10	
115	23132.47	114.95	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.71	0.837	0.900	
59	0.68	0.790	0.900	
115	0.63	0.781	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	--	Auxiliary Gas	0.90 L/min
RF Matching	1.20 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.6 V	Deflect	3.6 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-70 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	—	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	128	Axis Gain	0.9993	QP Bias	-15.0 V
Mass Offset	125	Axis Offset	0.06		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	1.1 mm
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EM

Discriminator	4.5 mV	Analog HV	2100 V	Pulse HV	942 V
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[He]

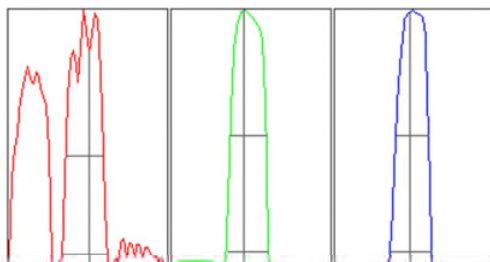
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		38	376.80			19.513	
59		4141	41413.07			2.426	
115		4545	45449.44			2.245	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.114 %
Doubly Charged	70 / 140 0.772 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	34.75	26.05	25.90 - 26.10	
59	4180.64	58.90	58.90 - 59.10	
115	4613.59	114.95	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.71	0.838	0.900	
59	0.68	0.790	0.900	
115	0.62	0.778	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.20 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.6 V	Deflect	4.0 V
Extract 2	-195.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-80 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	128	Axis Gain	0.9993	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.06		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	1.1 mm
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EM

Discriminator	4.5 mV	Analog HV	2100 V	Pulse HV	942 V
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US EPA Tune Check Report

Operator Name Admin
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\241116D.b
Acq. Date-Time 2024-11-19 15:24:10
Report Comment —
Instrument Name G8421A SG19193757

[No Gas]

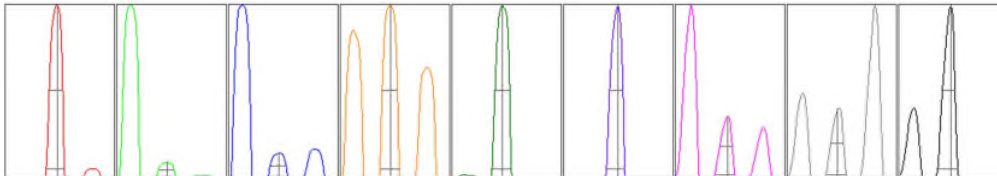
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	2018	20178.76	500.00		2.501	5.000
24	10.00	6176	61760.52	500.00		2.247	5.000
25	10.00	838	8384.46	500.00		3.959	5.000
26	10.00	978	9775.60	500.00		4.136	5.000
59	10.00	16685	166848.23	500.00		2.715	5.000
115	10.00	23883	238832.49	500.00		2.491	5.000
206	10.00	4384	43836.18	500.00		2.708	5.000
207	10.00	3371	33705.98	500.00		2.503	5.000
208	10.00	8503	85031.03	500.00		2.326	5.000

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Integration Time [sec] 0.1
Oxide 156 / 140 0.369 %
Doubly Charged 70 / 140 0.720 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	2055.28	8.95	8.90 - 9.10	
24	6227.56	23.90	23.90 - 24.10	
25	864.24	24.90	24.90 - 25.10	
26	1006.83	25.90	25.90 - 26.10	
59	16884.28	58.90	58.90 - 59.10	
115	22892.08	115.00	114.90 - 115.10	
206	4362.28	205.95	205.90 - 206.10	
207	3485.98	206.90	206.90 - 207.10	
208	8899.90	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.38	0.488	0.900	
24	0.44	0.540	0.900	
25	0.43	0.540	0.900	
26	0.42	0.538	0.900	
59	0.40	0.532	0.900	
115	0.37	0.490	0.900	
206	0.35	0.547	0.900	
207	0.35	0.566	0.900	
208	0.35	0.566	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 47.0000000000001
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.20 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.6 V	Deflect	15.8 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-70 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	130	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	134	Axis Offset	-0.12		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	1.2 mm
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US EPA Tune Check Report

EM

Discriminator 4.5 mV Analog HV 2099 V Pulse HV 967 V

[H2]

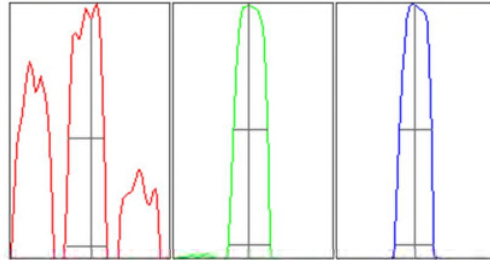
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		67	666.41			13.948	
59		2098	20983.83			3.359	
115		21840	218402.16			2.077	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec] 0.1
 Oxide 156 / 140 0.266 %
 Doubly Charged 70 / 140 0.273 %

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	74.00	26.05	25.90 - 26.10	
59	2122.17	58.95	58.90 - 59.10	
115	22309.52	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.67	0.785	0.900	
59	0.65	0.785	0.900	
115	0.61	0.737	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	--	Auxiliary Gas	0.90 L/min
RF Matching	1.20 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min

US EPA Tune Check Report

Sample Depth 8.0 mm S/C Temp 2 °C

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.6 V	Deflect	3.6 V
Extract 2	-200.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-70 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	—	Energy Discrimination	3.0 V
He Flow	0.0 mL/min	OctP Bias	-18.0 V		
H2 Flow	5.7 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	130	Axis Gain	0.9999	QP Bias	-15.0 V
Mass Offset	126	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2099 V	Pulse HV	967 V
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[He]

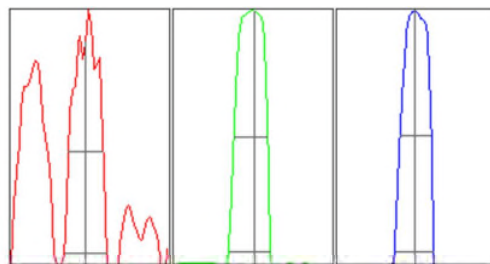
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
26		31	305.80			18.058	
59		3948	39477.79			3.069	
115		4216	42155.62			2.269	

Mass	RSD% (Flag)
26	
59	
115	

Integration Time [sec]	0.1
Oxide	156 / 140 0.119 %
Doubly Charged	70 / 140 0.818 %

Resolution/Axis



US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
26	28.25	25.95	25.90 - 26.10	
59	3927.51	59.05	58.90 - 59.10	
115	4284.91	115.00	114.90 - 115.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
26	0.66	0.791	0.900	
59	0.64	0.783	0.900	
115	0.60	0.736	0.900	

Integration Time [sec] 0.1
 Acquisition Time [sec] 22.34
 Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode	Low Matrix	Nebulizer Gas	1.09 L/min	Makeup Gas	0.00 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.20 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.6 V	Deflect	4.0 V
Extract 2	-195.0 V	Cell Entrance	-40 V	Plate Bias	-55 V
Omega Bias	-80 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	130	Axis Gain	0.9999	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	1.2 mm
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EM

Discriminator	4.5 mV	Analog HV	2099 V	Pulse HV	967 V
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INITIAL CALIBRATION DATA SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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“Serving Clients with Passion and Professionalism”

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INITIAL CALIBRATION SUMMARY: 241113A

Instrument ID: NV00922-ICP8

Analyte	Data File	A1113003.d	A1113004.d	A1113005.d	A1113006.d	A1113007.d	A1113008.d	A1113009.d	A1113010.d	A1113011.d	R
	Acq. Date-Time	11/13/2024 03:12 PM	11/13/2024 03:18 PM	11/13/2024 03:24 PM	11/13/2024 03:30 PM	11/13/2024 03:36 PM	11/13/2024 03:42 PM	11/13/2024 03:48 PM	11/13/2024 03:54 PM	11/13/2024 04:01 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L		
45 Sc (ISTD) [2]	CPS	14578.6		14965.6	14953.4	14957.9	15062.4	15270.4	15440.5	15744.1	
55 Mn [2]	CPS	16.7		315.6	3039.2	6054.5	12467	25830.2	64601	131803.2	1.0000
52 Cr [2]	CPS	152.2		722.2	5564.3	11136	22988.2	47095.5	118630	241525.9	1.0000
72 Ge (ISTD) [1]	CPS	43899.8		43640.3	43710.5	43909.9	43864.1	44485.9	43919.9	44792.2	
78 Se [1]	CPS	1.1		60	577.8	1132.3	2239.1	4795.2	11686.5	24077.8	1.0000
72 Ge (ISTD) [2]	CPS	14294.1	14207.4	14405.3	14793.4	14417.5	14766.7	14775.6	15008	15074.8	
75 As [2]	CPS	6.7	25.6	108.9	1164.5	2182.4	4420.6	9233.8	22995.2	47342.9	0.9999
103 Rh (ISTD) [2]	CPS	423489.5		430331.7	431192.4	435773.1	438739.6	443991.7	443541.9	446015.7	
95 Mo [2]	CPS	20		470	4561.8	9531.7	19370.6	40070.9	102333.6	208433.8	1.0000
159 Tb (ISTD) [3]	CPS	1072677.1		1075130.8	1096392.7	1106924.1	1110623.1	1114712.5	1132751.1	1146385	
137 Ba [3]	CPS	30		1023.4	10350.3	20881	42164	86469.5	218488.3	444925.3	1.0000

Standard Code
ICAL: 2MSST-240311B
ICAL: 2MSST-240311C
ICAL: 2MWST-240815K
ICV: 2MWST-240815G
LLICV: 2MWST-240815J
IS Mix: 2MWST-240815A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION SUMMARY: 241114B

Instrument ID: NV00922-ICP8

Analyte	Data File	B1114003.d	B1114004.d	B1114005.d	B1114006.d	B1114007.d	B1114008.d	B1114009.d	B1114010.d	B1114011.d	R
	Acq. Date-Time	11/14/2024 05:45 PM	11/14/2024 05:51 PM	11/14/2024 05:57 PM	11/14/2024 06:03 PM	11/14/2024 06:09 PM	11/14/2024 06:15 PM	11/14/2024 06:21 PM	11/14/2024 06:28 PM	11/14/2024 06:34 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L		
45 Sc (ISTD) [2]	CPS	21770.9		21135.6	19877.4	21274.7	21837.7	21730.9	22456.2	22597.5	
55 Mn [2]	CPS	7.8		441.1	3853.8	8169.8	17075.5	34184.1	89389.8	181127.7	1.0000
52 Cr [2]	CPS	90		825.6	7103.8	14986.8	31121.4	63633.6	161249.3	329974	1.0000
72 Ge (ISTD) [2]	CPS	16877.7	16701.9	16388.3	15737.6	16726.4	16411.6	16640.7	16983.3	17179	
75 As [2]	CPS	8.9	33.3	117.8	1084.5	2450.2	5017.5	10189.9	26389.1	54211.7	1.0000
159 Tb (ISTD) [3]	CPS	1191089.2		1170985.8	1192615.8	1289879.4	1316171.4	1320566.7	1353006	1347632.9	
137 Ba [3]	CPS	10		1126.7	10607.1	23842	48913.8	98523.7	256622.3	516861.8	1.0000

Standard Code
ICAL: 2MSST-240311B
ICAL: 2MSST-240311C
ICAL: 2MWST-240815K
ICV: 2MWST-240815G
LLICV: 2MWST-240815J
IS Mix: 2MWST-240815A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION SUMMARY: 241119A

Instrument ID: NV00922-ICP8

Analyte	Data File	A1119003.d	A1119004.d	A1119005.d	A1119006.d	A1119007.d	A1119008.d	A1119009.d	A1119010.d	A1119011.d	R
	Acq. Date-Time	11/19/2024 03:44 PM	11/19/2024 03:51 PM	11/19/2024 03:57 PM	11/19/2024 04:03 PM	11/19/2024 04:09 PM	11/19/2024 04:15 PM	11/19/2024 04:21 PM	11/19/2024 04:27 PM	11/19/2024 04:33 PM	
	Type	CalBlk	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	CalStd	
	Level	1	2	3	4	5	6	7	8	9	
	Sample Name	Cal Blk	Std1-0.1/1 ppb	Std2-0.5/5 ppb	Std3-5/50 ppb	Std4-10/100 ppb	Std5-4.0/20/200 ppb	Std6-8.0/40/400 ppb	Std7-100/1000 ppb	Std8-200/2000 ppb	
	Concentration	0.00	0.1/1 ug/L	0.5/5 ug/L	5/50 ug/L	10/100 ug/L	4.0/20/200 ug/L	8.0/40/400 ug/L	100/1000 ug/L	200/2000 ug/L	
72 Ge (ISTD) [2]	CPS	17615.1	17925.4	17552.8	17826.4	18061.2	17777.5	17850.9	18319.2	18590.6	
75 As [2]	CPS	1.1	27.8	146.7	1395.6	2858	5823.3	11722	30688.8	62938.7	1.0000

Standard Code
ICAL: 2MSST-240311B
ICAL: 2MSST-240311C
ICAL: 2MWST-240815K
ICV: 2MWST-240815G
LLICV: 2MWST-240815J
IS Mix: 2MWST-240815A

Calibration Acceptance Criteria: > 0.995 Correlation

INITIAL CALIBRATION AND CONTINUING CALIBRATION VERIFICATION SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
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“Serving Clients with Passion and Professionalism”

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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: ICV	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/13/2024	SeqNo: 6313565						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	10.639	0.10	10.00	0	106	90	110				
Barium	10.181	1.0	10.00	0	102	90	110				
Manganese	103.737	0.50	100.0	0	104	90	110				
Molybdenum	10.012	0.50	10.00	0	100	90	110				
Selenium	10.405	0.50	10.00	0	104	90	110				

Sample ID: LLCCV1	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: ZZZZZZ	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/13/2024	SeqNo: 6313567						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.095	0.10	0.1000	0	94.8	80	120				
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Sample ID: LLCCV2	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: ZZZZZZ	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/13/2024	SeqNo: 6313568						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Barium	0.997	1.0	1.000	0	99.7	80	120				
Manganese	0.494	0.50	0.5000	0	98.7	80	120				
Molybdenum	0.517	0.50	0.5000	0	103	80	120				
Selenium	0.568	0.50	0.5000	0	114	80	120				

Sample ID: MLCCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: CCV	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/13/2024	SeqNo: 6313569						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.184	0.10	20.00	0	95.9	90	110				
Barium	19.398	1.0	20.00	0	97.0	90	110				
Manganese	19.578	0.50	20.00	0	97.9	90	110				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: MLCCV1		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 195638			
Client ID: CCV		Batch ID: R195638		TestNo: EPA 6020		Analysis Date: 11/13/2024		SeqNo: 6313569			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	19.138	0.50	20.00	0	95.7	90	110				
Selenium	19.728	0.50	20.00	0	98.6	90	110				

Sample ID: CCV1		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 195638			
Client ID: CCV		Batch ID: R195638		TestNo: EPA 6020		Analysis Date: 11/13/2024		SeqNo: 6313582			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.020	0.10	20.00	0	95.1	90	110				
Barium	19.474	1.0	20.00	0	97.4	90	110				
Manganese	19.846	0.50	20.00	0	99.2	90	110				
Molybdenum	19.241	0.50	20.00	0	96.2	90	110				
Selenium	19.413	0.50	20.00	0	97.1	90	110				

Sample ID: CCV2		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 195638			
Client ID: CCV		Batch ID: R195638		TestNo: EPA 6020		Analysis Date: 11/13/2024		SeqNo: 6313590			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.692	0.10	20.00	0	98.5	90	110				
Barium	20.245	1.0	20.00	0	101	90	110				
Manganese	19.526	0.50	20.00	0	97.6	90	110				
Molybdenum	19.364	0.50	20.00	0	96.8	90	110				
Selenium	20.170	0.50	20.00	0	101	90	110				

Sample ID: CCV3		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 195638			
Client ID: CCV		Batch ID: R195638		TestNo: EPA 6020		Analysis Date: 11/13/2024		SeqNo: 6313599			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.667	0.10	20.00	0	93.3	90	110				
Barium	19.954	1.0	20.00	0	99.8	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV3		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 195638			
Client ID: CCV		Batch ID: R195638		TestNo: EPA 6020		Analysis Date: 11/13/2024		SeqNo: 6313599			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	19.428	0.50	20.00	0	97.1	90	110				
Molybdenum	19.204	0.50	20.00	0	96.0	90	110				
Selenium	19.586	0.50	20.00	0	97.9	90	110				

Sample ID: CCV4		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 195638			
Client ID: CCV		Batch ID: R195638		TestNo: EPA 6020		Analysis Date: 11/13/2024		SeqNo: 6313612			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.027	0.10	20.00	0	95.1	90	110				
Barium	20.838	1.0	20.00	0	104	90	110				
Manganese	19.049	0.50	20.00	0	95.2	90	110				
Molybdenum	19.961	0.50	20.00	0	99.8	90	110				
Selenium	19.014	0.50	20.00	0	95.1	90	110				

Sample ID: CCV5		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 195638			
Client ID: CCV		Batch ID: R195638		TestNo: EPA 6020		Analysis Date: 11/13/2024		SeqNo: 6313623			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.410	0.10	20.00	0	97.1	90	110				
Barium	20.853	1.0	20.00	0	104	90	110				
Manganese	18.369	0.50	20.00	0	91.8	90	110				
Molybdenum	19.846	0.50	20.00	0	99.2	90	110				
Selenium	19.011	0.50	20.00	0	95.1	90	110				

Sample ID: CCV6		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 195638			
Client ID: CCV		Batch ID: R195638		TestNo: EPA 6020		Analysis Date: 11/13/2024		SeqNo: 6313629			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.327	0.10	20.00	0	96.6	90	110				

Qualifiers:

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| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: CCV	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/13/2024	SeqNo: 6313629						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	21.602	1.0	20.00	0	108	90	110				
Manganese	18.414	0.50	20.00	0	92.1	90	110				
Molybdenum	19.772	0.50	20.00	0	98.9	90	110				
Selenium	19.388	0.50	20.00	0	96.9	90	110				

Sample ID: CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: CCV	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6313641						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.233	0.10	20.00	0	96.2	90	110				
Barium	22.071	1.0	20.00	0	110	90	110				S
Manganese	19.180	0.50	20.00	0	95.9	90	110				
Molybdenum	20.015	0.50	20.00	0	100	90	110				
Selenium	19.340	0.50	20.00	0	96.7	90	110				

Sample ID: CCV8	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: CCV	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6313652						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.109	0.10	20.00	0	95.5	90	110				
Barium	21.599	1.0	20.00	0	108	90	110				
Manganese	19.066	0.50	20.00	0	95.3	90	110				
Molybdenum	19.511	0.50	20.00	0	97.6	90	110				
Selenium	18.727	0.50	20.00	0	93.6	90	110				

Sample ID: CCV9	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: CCV	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6313665						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

% Rec of Ba in several IQCS failed. However, Ba is reported at run number 195742

[Signature] 12/18/2024

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV9		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 195638			
Client ID: CCV		Batch ID: R195638		TestNo: EPA 6020		Analysis Date: 11/14/2024		SeqNo: 6313665			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.127	0.10	20.00	0	95.6	90	110				
Barium	22.038	1.0	20.00	0	110	90	110				S
Manganese	19.436	0.50	20.00	0	97.2	90	110				
Molybdenum	19.470	0.50	20.00	0	97.3	90	110				
Selenium	18.885	0.50	20.00	0	94.4	90	110				

Sample ID: CCV10		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 195638			
Client ID: CCV		Batch ID: R195638		TestNo: EPA 6020		Analysis Date: 11/14/2024		SeqNo: 6313676			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.173	0.10	20.00	0	95.9	90	110				
Barium	21.939	1.0	20.00	0	110	90	110				
Manganese	19.369	0.50	20.00	0	96.8	90	110				
Molybdenum	20.007	0.50	20.00	0	100	90	110				
Selenium	18.247	0.50	20.00	0	91.2	90	110				

Sample ID: CCV11		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 195638			
Client ID: CCV		Batch ID: R195638		TestNo: EPA 6020		Analysis Date: 11/14/2024		SeqNo: 6313682			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.162	0.10	20.00	0	95.8	90	110				
Barium	22.122	1.0	20.00	0	111	90	110				S
Manganese	19.249	0.50	20.00	0	96.2	90	110				
Molybdenum	19.852	0.50	20.00	0	99.3	90	110				
Selenium	18.664	0.50	20.00	0	93.3	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV12	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: CCV	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6313695						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	18.726	0.10	20.00	0	93.6	90	110				
Barium	22.248	1.0	20.00	0	111	90	110				S
Manganese	19.352	0.50	20.00	0	96.8	90	110				
Molybdenum	19.636	0.50	20.00	0	98.2	90	110				
Selenium	19.497	0.50	20.00	0	97.5	90	110				

Sample ID: CCV13	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: CCV	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6313705						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.502	0.10	20.00	0	97.5	90	110				
Barium	21.813	1.0	20.00	0	109	90	110				
Manganese	19.272	0.50	20.00	0	96.4	90	110				
Molybdenum	19.837	0.50	20.00	0	99.2	90	110				
Selenium	19.072	0.50	20.00	0	95.4	90	110				

Sample ID: CCV14	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: CCV	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6313716						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	18.635	0.10	20.00	0	93.2	90	110				
Barium	22.418	1.0	20.00	0	112	90	110				S
Manganese	19.579	0.50	20.00	0	97.9	90	110				
Molybdenum	19.801	0.50	20.00	0	99.0	90	110				
Selenium	19.189	0.50	20.00	0	95.9	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV15	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: CCV	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6313722						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	18.979	0.10	20.00	0	94.9	90	110				
Barium	22.093	1.0	20.00	0	110	90	110				S
Manganese	19.170	0.50	20.00	0	95.8	90	110				
Molybdenum	19.613	0.50	20.00	0	98.1	90	110				
Selenium	18.880	0.50	20.00	0	94.4	90	110				

Sample ID: CCV16	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: CCV	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6313735						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.284	0.10	20.00	0	96.4	90	110				
Barium	22.450	1.0	20.00	0	112	90	110				S
Manganese	18.812	0.50	20.00	0	94.1	90	110				
Molybdenum	19.939	0.50	20.00	0	99.7	90	110				
Selenium	18.525	0.50	20.00	0	92.6	90	110				

Sample ID: CCV17	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: CCV	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6313744						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	18.778	0.10	20.00	0	93.9	90	110				
Barium	22.666	1.0	20.00	0	113	90	110				S
Manganese	19.080	0.50	20.00	0	95.4	90	110				
Molybdenum	19.987	0.50	20.00	0	99.9	90	110				
Selenium	19.155	0.50	20.00	0	95.8	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV18	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: CCV	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6313751						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.631	0.10	20.00	0	93.2	90	110				
Barium	22.448	1.0	20.00	0	112	90	110				S
Manganese	19.598	0.50	20.00	0	98.0	90	110				
Molybdenum	19.972	0.50	20.00	0	99.9	90	110				
Selenium	18.523	0.50	20.00	0	92.6	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICV	SampType: ICV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: ICV	Batch ID: R195742	TestNo: EPA 6020	Analysis Date: 11/14/2024	SeqNo: 6319939							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.604	0.10	10.00	0	106	90	110				
Barium	10.418	1.0	10.00	0	104	90	110				
Manganese	103.461	0.50	100.0	0	103	90	110				
Selenium	9.653	0.50	10.00	0	96.5	90	110				

Sample ID: LLCCV1	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: ZZZZZ	Batch ID: R195742	TestNo: EPA 6020	Analysis Date: 11/14/2024	SeqNo: 6319941							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.109	0.10	0.1000	0	109	80	120				

Sample ID: LLCCV2	SampType: CCV1	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: ZZZZZ	Batch ID: R195742	TestNo: EPA 6020	Analysis Date: 11/14/2024	SeqNo: 6319942							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	1.062	1.0	1.000	0	106	80	120				
Manganese	0.591	0.50	0.5000	0	118	80	120				
Selenium	0.485	0.50	0.5000	0	96.9	80	120				

Sample ID: MLCCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: CCV	Batch ID: R195742	TestNo: EPA 6020	Analysis Date: 11/14/2024	SeqNo: 6319943							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.632	0.10	20.00	0	98.2	90	110				
Barium	19.242	1.0	20.00	0	96.2	90	110				
Manganese	19.615	0.50	20.00	0	98.1	90	110				
Selenium	19.021	0.50	20.00	0	95.1	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV1	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: CCV	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6319954						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.785	0.10	20.00	0	98.9	90	110				
Barium	20.452	1.0	20.00	0	102	90	110				
Manganese	19.405	0.50	20.00	0	97.0	90	110				
Selenium	19.377	0.50	20.00	0	96.9	90	110				

Sample ID: CCV2	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: CCV	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6319967						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.503	0.10	20.00	0	92.5	90	110				
Barium	20.325	1.0	20.00	0	102	90	110				
Manganese	19.206	0.50	20.00	0	96.0	90	110				
Selenium	18.363	0.50	20.00	0	91.8	90	110				

Sample ID: CCV3	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: CCV	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6319978						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.497	0.10	20.00	0	92.5	90	110				
Barium	20.586	1.0	20.00	0	103	90	110				
Manganese	19.455	0.50	20.00	0	97.3	90	110				
Selenium	18.052	0.50	20.00	0	90.3	90	110				

Sample ID: CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: CCV	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6319986						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.581	0.10	20.00	0	92.9	90	110				
Barium	20.932	1.0	20.00	0	105	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV4	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: CCV	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6319986						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	18.772	0.50	20.00	0	93.9	90	110				
Selenium	18.726	0.50	20.00	0	93.6	90	110				

Sample ID: CCV5	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: CCV	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/15/2024	SeqNo: 6319998						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.809	0.10	20.00	0	94.0	90	110				
Barium	20.721	1.0	20.00	0	104	90	110				
Manganese	19.168	0.50	20.00	0	95.8	90	110				
Selenium	17.780	0.50	20.00	0	88.9	90	110				S

Sample ID: CCV6	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: CCV	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/15/2024	SeqNo: 6320003						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.683	0.10	20.00	0	93.4	90	110				
Barium	20.592	1.0	20.00	0	103	90	110				
Manganese	19.431	0.50	20.00	0	97.2	90	110				
Selenium	18.186	0.50	20.00	0	90.9	90	110				

Sample ID: CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: CCV	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/15/2024	SeqNo: 6320017						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.563	0.10	20.00	0	92.8	90	110				
Barium	21.009	1.0	20.00	0	105	90	110				
Manganese	19.024	0.50	20.00	0	95.1	90	110				
Selenium	18.285	0.50	20.00	0	91.4	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV8		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 195742			
Client ID: CCV		Batch ID: R195742		TestNo: EPA 6020		Analysis Date: 11/15/2024		SeqNo: 6320028			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.163	0.10	20.00	0	90.8	90	110				
Barium	20.661	1.0	20.00	0	103	90	110				
Manganese	19.073	0.50	20.00	0	95.4	90	110				
Selenium	18.204	0.50	20.00	0	91.0	90	110				

Sample ID: CCV9		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 195742			
Client ID: CCV		Batch ID: R195742		TestNo: EPA 6020		Analysis Date: 11/15/2024		SeqNo: 6320040			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.125	0.10	20.00	0	90.6	90	110				
Barium	20.262	1.0	20.00	0	101	90	110				
Manganese	19.067	0.50	20.00	0	95.3	90	110				
Selenium	18.673	0.50	20.00	0	93.4	90	110				

Sample ID: CCV10		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 195742			
Client ID: CCV		Batch ID: R195742		TestNo: EPA 6020		Analysis Date: 11/15/2024		SeqNo: 6320054			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.587	0.10	20.00	0	92.9	90	110				
Barium	20.687	1.0	20.00	0	103	90	110				
Manganese	19.445	0.50	20.00	0	97.2	90	110				
Selenium	17.247	0.50	20.00	0	86.2	90	110				S

Sample ID: CCV11		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 195742			
Client ID: CCV		Batch ID: R195742		TestNo: EPA 6020		Analysis Date: 11/15/2024		SeqNo: 6320065			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.968	0.10	20.00	0	94.8	90	110				
Barium	20.318	1.0	20.00	0	102	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV11	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: CCV	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/15/2024	SeqNo: 6320065						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	19.753	0.50	20.00	0	98.8	90	110				
Selenium	18.463	0.50	20.00	0	92.3	90	110				

Sample ID: CCV12	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: CCV	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/15/2024	SeqNo: 6320075						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.048	0.10	20.00	0	95.2	90	110				
Barium	19.876	1.0	20.00	0	99.4	90	110				
Manganese	19.703	0.50	20.00	0	98.5	90	110				
Selenium	18.838	0.50	20.00	0	94.2	90	110				

Sample ID: CCV13	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: CCV	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/15/2024	SeqNo: 6320089						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.621	0.10	20.00	0	93.1	90	110				
Barium	20.256	1.0	20.00	0	101	90	110				
Manganese	20.224	0.50	20.00	0	101	90	110				
Selenium	17.690	0.50	20.00	0	88.5	90	110				S

Sample ID: CCV14	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: CCV	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/15/2024	SeqNo: 6320099						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	17.863	0.10	20.00	0	89.3	90	110				S
Barium	20.046	1.0	20.00	0	100	90	110				
Manganese	20.119	0.50	20.00	0	101	90	110				
Selenium	18.445	0.50	20.00	0	92.2	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

% Rec of Se several IQCs failed. However, Se is reported at run number 195638.

[Signature] 12/18/2024

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV15	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: CCV	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/15/2024	SeqNo: 6320107						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.423	0.10	20.00	0	92.1	90	110				
Barium	19.877	1.0	20.00	0	99.4	90	110				
Manganese	19.830	0.50	20.00	0	99.2	90	110				
Selenium	18.480	0.50	20.00	0	92.4	90	110				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICV		SampType: ICV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 195916			
Client ID: ICV		Batch ID: R195916		TestNo: EPA 6020		Analysis Date: 11/19/2024		SeqNo: 6328535			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.078	0.10	10.00	0	101	90	110				
Barium	10.274	1.0	10.00	0	103	90	110				
Manganese	99.959	0.50	100.0	0	100	90	110				
Molybdenum	10.093	0.50	10.00	0	101	90	110				
Selenium	9.571	0.50	10.00	0	95.7	90	110				

Sample ID: LLCCV2		SampType: CCV1		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 195916			
Client ID: ZZZZZ		Batch ID: R195916		TestNo: EPA 6020		Analysis Date: 11/19/2024		SeqNo: 6328538			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.116	0.10	0.1000	0	116	80	120				
Barium	0.990	1.0	1.000	0	99.0	80	120				
Manganese	0.470	0.50	0.5000	0	93.9	80	120				
Molybdenum	0.486	0.50	0.5000	0	97.2	80	120				
Selenium	0.470	0.50	0.5000	0	94.1	80	120				

Sample ID: MLCCV1		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 195916			
Client ID: CCV		Batch ID: R195916		TestNo: EPA 6020		Analysis Date: 11/19/2024		SeqNo: 6328539			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.984	0.10	20.00	0	99.9	90	110				
Barium	20.173	1.0	20.00	0	101	90	110				
Manganese	19.077	0.50	20.00	0	95.4	90	110				
Molybdenum	19.340	0.50	20.00	0	96.7	90	110				
Selenium	19.782	0.50	20.00	0	98.9	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV1		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 195916			
Client ID: CCV		Batch ID: R195916		TestNo: EPA 6020		Analysis Date: 11/19/2024		SeqNo: 6328553			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.144	0.10	20.00	0	95.7	90	110				
Barium	19.997	1.0	20.00	0	100	90	110				
Manganese	19.599	0.50	20.00	0	98.0	90	110				
Molybdenum	18.843	0.50	20.00	0	94.2	90	110				
Selenium	19.653	0.50	20.00	0	98.3	90	110				

Sample ID: CCV2		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 195916			
Client ID: CCV		Batch ID: R195916		TestNo: EPA 6020		Analysis Date: 11/19/2024		SeqNo: 6328558			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.528	0.10	20.00	0	97.6	90	110				
Barium	19.523	1.0	20.00	0	97.6	90	110				
Manganese	20.987	0.50	20.00	0	105	90	110				
Molybdenum	18.351	0.50	20.00	0	91.8	90	110				
Selenium	19.090	0.50	20.00	0	95.5	90	110				

Sample ID: CCV3		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 195916			
Client ID: CCV		Batch ID: R195916		TestNo: EPA 6020		Analysis Date: 11/19/2024		SeqNo: 6328569			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.167	0.10	20.00	0	95.8	90	110				
Barium	20.035	1.0	20.00	0	100	90	110				
Manganese	20.180	0.50	20.00	0	101	90	110				
Molybdenum	18.559	0.50	20.00	0	92.8	90	110				
Selenium	19.564	0.50	20.00	0	97.8	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV4		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 195916			
Client ID: CCV		Batch ID: R195916		TestNo: EPA 6020		Analysis Date: 11/19/2024		SeqNo: 6328573			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.473	0.10	20.00	0	97.4	90	110				
Barium	19.856	1.0	20.00	0	99.3	90	110				
Manganese	20.911	0.50	20.00	0	105	90	110				
Molybdenum	18.817	0.50	20.00	0	94.1	90	110				
Selenium	20.192	0.50	20.00	0	101	90	110				

Sample ID: CCV5		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 195916			
Client ID: CCV		Batch ID: R195916		TestNo: EPA 6020		Analysis Date: 11/19/2024		SeqNo: 6328583			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.566	0.10	20.00	0	97.8	90	110				
Barium	19.844	1.0	20.00	0	99.2	90	110				
Manganese	21.332	0.50	20.00	0	107	90	110				
Molybdenum	18.785	0.50	20.00	0	93.9	90	110				
Selenium	19.779	0.50	20.00	0	98.9	90	110				

Sample ID: CCV6		SampType: CCV		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 195916			
Client ID: CCV		Batch ID: R195916		TestNo: EPA 6020		Analysis Date: 11/19/2024		SeqNo: 6328593			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.005	0.10	20.00	0	95.0	90	110				
Barium	19.498	1.0	20.00	0	97.5	90	110				
Manganese	20.830	0.50	20.00	0	104	90	110				
Molybdenum	18.213	0.50	20.00	0	91.1	90	110				
Selenium	19.225	0.50	20.00	0	96.1	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV7	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195916						
Client ID: CCV	Batch ID: R195916	TestNo: EPA 6020		Analysis Date: 11/20/2024	SeqNo: 6328605						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.495	0.10	20.00	0	97.5	90	110				
Barium	20.114	1.0	20.00	0	101	90	110				
Manganese	21.253	0.50	20.00	0	106	90	110				
Molybdenum	18.333	0.50	20.00	0	91.7	90	110				
Selenium	17.341	0.50	20.00	0	86.7	90	110				S

Sample ID: CCV8	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195916						
Client ID: CCV	Batch ID: R195916	TestNo: EPA 6020		Analysis Date: 11/20/2024	SeqNo: 6328616						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.363	0.10	20.00	0	91.8	90	110				
Barium	19.525	1.0	20.00	0	97.6	90	110				
Manganese	21.427	0.50	20.00	0	107	90	110				
Molybdenum	18.234	0.50	20.00	0	91.2	90	110				
Selenium	20.959	0.50	20.00	0	105	90	110				

Sample ID: CCV9	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195916						
Client ID: CCV	Batch ID: R195916	TestNo: EPA 6020		Analysis Date: 11/20/2024	SeqNo: 6328629						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	18.612	0.10	20.00	0	93.1	90	110				
Barium	19.581	1.0	20.00	0	97.9	90	110				
Manganese	21.645	0.50	20.00	0	108	90	110				
Molybdenum	18.066	0.50	20.00	0	90.3	90	110				
Selenium	16.507	0.50	20.00	0	82.5	90	110				S

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

% Rec of Se and Mo in several IQCS failed. However, Se and Mo are reported at run number 195638.

[Signature] 12/18/2024

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCV10	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195916						
Client ID: CCV	Batch ID: R195916	TestNo: EPA 6020	Analysis Date: 11/20/2024	SeqNo: 6328640							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.550	0.10	20.00	0	97.8	90	110				
Barium	19.217	1.0	20.00	0	96.1	90	110				
Manganese	21.462	0.50	20.00	0	107	90	110				
Molybdenum	17.971	0.50	20.00	0	89.9	90	110				S
Selenium	16.134	0.50	20.00	0	80.7	90	110				S

Sample ID: CCV11	SampType: CCV	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195916						
Client ID: CCV	Batch ID: R195916	TestNo: EPA 6020	Analysis Date: 11/20/2024	SeqNo: 6328654							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.211	0.10	20.00	0	96.1	90	110				
Barium	20.468	1.0	20.00	0	102	90	110				
Manganese	20.461	0.50	20.00	0	102	90	110				
Molybdenum	18.510	0.50	20.00	0	92.6	90	110				
Selenium	16.386	0.50	20.00	0	81.9	90	110				S

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICV	SampType: ICV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: ICV	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/13/2024	SeqNo: 6314006						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 10.370 1.0 10.00 0 104 90 110

Sample ID: LLCCV2	SampType: CCV1	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: ZZZZZ	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/13/2024	SeqNo: 6314009						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 1.086 1.0 1.000 0 109 80 120

Sample ID: MLCCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: CCV	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/13/2024	SeqNo: 6314010						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 19.546 1.0 20.00 0 97.7 90 110

Sample ID: CCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: CCV	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/13/2024	SeqNo: 6314023						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 19.588 1.0 20.00 0 97.9 90 110

Sample ID: CCV2	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: CCV	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/13/2024	SeqNo: 6314031						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium 19.747 1.0 20.00 0 98.7 90 110

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCV3	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644
Client ID: CCV	Batch ID: R195644	TestNo: EPA 6020	Analysis Date: 11/13/2024	SeqNo: 6314040	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	19.580	1.0	20.00	0	97.9	90	110
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Sample ID: CCV4	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644
Client ID: CCV	Batch ID: R195644	TestNo: EPA 6020	Analysis Date: 11/13/2024	SeqNo: 6314053	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	19.326	1.0	20.00	0	96.6	90	110
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Sample ID: CCV5	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644
Client ID: CCV	Batch ID: R195644	TestNo: EPA 6020	Analysis Date: 11/13/2024	SeqNo: 6314064	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	19.050	1.0	20.00	0	95.2	90	110
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Sample ID: CCV6	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644
Client ID: CCV	Batch ID: R195644	TestNo: EPA 6020	Analysis Date: 11/13/2024	SeqNo: 6314070	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	18.627	1.0	20.00	0	93.1	90	110
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Sample ID: CCV7	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644
Client ID: CCV	Batch ID: R195644	TestNo: EPA 6020	Analysis Date: 11/14/2024	SeqNo: 6314082	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	18.884	1.0	20.00	0	94.4	90	110
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCV8	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644
Client ID: CCV	Batch ID: R195644	TestNo: EPA 6020	Analysis Date: 11/14/2024	SeqNo: 6314093	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	19.231	1.0	20.00	0	96.2	90	110
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Sample ID: CCV9	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644
Client ID: CCV	Batch ID: R195644	TestNo: EPA 6020	Analysis Date: 11/14/2024	SeqNo: 6314106	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	19.319	1.0	20.00	0	96.6	90	110
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Sample ID: CCV10	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644
Client ID: CCV	Batch ID: R195644	TestNo: EPA 6020	Analysis Date: 11/14/2024	SeqNo: 6314117	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	19.377	1.0	20.00	0	96.9	90	110
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Sample ID: CCV11	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644
Client ID: CCV	Batch ID: R195644	TestNo: EPA 6020	Analysis Date: 11/14/2024	SeqNo: 6314123	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	19.290	1.0	20.00	0	96.5	90	110
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Sample ID: CCV12	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644
Client ID: CCV	Batch ID: R195644	TestNo: EPA 6020	Analysis Date: 11/14/2024	SeqNo: 6314136	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Chromium	19.332	1.0	20.00	0	96.7	90	110
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCV13	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: CCV	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6314146						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.080	1.0	20.00	0	95.4	90	110
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Sample ID: CCV14	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: CCV	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6314157						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.228	1.0	20.00	0	96.1	90	110
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Sample ID: CCV15	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: CCV	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6314163						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	18.948	1.0	20.00	0	94.7	90	110
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Sample ID: CCV16	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: CCV	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6314176						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	18.928	1.0	20.00	0	94.6	90	110
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Sample ID: CCV17	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: CCV	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6314185						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.166	1.0	20.00	0	95.8	90	110
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCV18	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: CCV	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6314192						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.157	1.0	20.00	0	95.8	90	110				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out

E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values

H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
(M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICV	SampType: ICV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195744						
Client ID: ICV	Batch ID: R195744	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6320155						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	10.302	1.0	10.00	0	103	90	110				

Sample ID: LLCCV2	SampType: CCV1	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195744						
Client ID: ZZZZZ	Batch ID: R195744	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6320158						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	1.151	1.0	1.000	0	115	80	120				

Sample ID: MLCCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195744						
Client ID: CCV	Batch ID: R195744	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6320159						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.564	1.0	20.00	0	97.8	90	110				

Sample ID: CCV1	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195744						
Client ID: CCV	Batch ID: R195744	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6320170						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.610	1.0	20.00	0	98.0	90	110				

Sample ID: CCV2	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195744						
Client ID: CCV	Batch ID: R195744	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6320183						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	19.451	1.0	20.00	0	97.3	90	110				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCV3	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195744						
Client ID: CCV	Batch ID: R195744	TestNo: EPA 6020	Analysis Date: 11/14/2024	SeqNo: 6320194							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.339	1.0	20.00	0	96.7	90	110
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Sample ID: CCV4	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195744						
Client ID: CCV	Batch ID: R195744	TestNo: EPA 6020	Analysis Date: 11/14/2024	SeqNo: 6320202							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.246	1.0	20.00	0	96.2	90	110
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Sample ID: CCV5	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195744						
Client ID: CCV	Batch ID: R195744	TestNo: EPA 6020	Analysis Date: 11/15/2024	SeqNo: 6320214							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.715	1.0	20.00	0	98.6	90	110
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Sample ID: CCV6	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195744						
Client ID: CCV	Batch ID: R195744	TestNo: EPA 6020	Analysis Date: 11/15/2024	SeqNo: 6320219							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.428	1.0	20.00	0	97.1	90	110
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Sample ID: CCV7	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195744						
Client ID: CCV	Batch ID: R195744	TestNo: EPA 6020	Analysis Date: 11/15/2024	SeqNo: 6320233							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.347	1.0	20.00	0	96.7	90	110
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCV8	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195744						
Client ID: CCV	Batch ID: R195744	TestNo: EPA 6020		Analysis Date: 11/15/2024	SeqNo: 6320244						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.603	1.0	20.00	0	98.0	90	110
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Sample ID: CCV9	SampType: CCV	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195744						
Client ID: CCV	Batch ID: R195744	TestNo: EPA 6020		Analysis Date: 11/15/2024	SeqNo: 6320256						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.407	1.0	20.00	0	97.0	90	110
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT BLANKS



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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“Serving Clients with Passion and Professionalism”

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CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: ICB	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/13/2024	SeqNo: 6313566						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: CCB	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/13/2024	SeqNo: 6313583						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: CCB	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/13/2024	SeqNo: 6313591						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: CCB	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/13/2024	SeqNo: 6313600						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: CCB	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/13/2024	SeqNo: 6313613						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: CCB	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/13/2024	SeqNo: 6313624						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: CCB	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/13/2024	SeqNo: 6313630						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: CCB	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6313642						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: CCB	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6313653						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: CCB	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6313666						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB10	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: CCB	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6313677						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB11	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: CCB	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6313683						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB12	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: CCB	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6313696						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB13	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: CCB	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6313706						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB14	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: CCB	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6313717						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB15	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: CCB	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6313723						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB16	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: CCB	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6313736						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB17	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: CCB	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6313745						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
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ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB18	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: CCB	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6313752						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10								
Barium	ND	1.0								
Manganese	ND	0.50								
Molybdenum	ND	0.50								
Selenium	ND	0.50								

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: ICB	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6319940						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Selenium	ND	0.50									

Sample ID: CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: CCB	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6319955						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Selenium	ND	0.50									

Sample ID: CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: CCB	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6319968						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Selenium	ND	0.50									

Sample ID: CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: CCB	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6319979						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
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ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: CCB	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6319979						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	ND	0.50									
Selenium	ND	0.50									

Sample ID: CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: CCB	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6319987						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Selenium	ND	0.50									

Sample ID: CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: CCB	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/15/2024	SeqNo: 6319999						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Selenium	ND	0.50									

Sample ID: CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: CCB	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/15/2024	SeqNo: 6320004						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: CCB	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/15/2024	SeqNo: 6320018						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Selenium	ND	0.50

Sample ID: CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: CCB	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/15/2024	SeqNo: 6320029						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Selenium	ND	0.50

Sample ID: CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: CCB	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/15/2024	SeqNo: 6320041						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Selenium	ND	0.50

Sample ID: CCB10	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: CCB	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/15/2024	SeqNo: 6320055						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB10	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: CCB	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/15/2024	SeqNo: 6320055						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	ND	0.50									
Selenium	ND	0.50									

Sample ID: CCB11	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: CCB	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/15/2024	SeqNo: 6320066						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Selenium	ND	0.50									

Sample ID: CCB12	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: CCB	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/15/2024	SeqNo: 6320076						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Selenium	ND	0.50									

Sample ID: CCB13	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: CCB	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/15/2024	SeqNo: 6320090						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB14	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: CCB	Batch ID: R195742	TestNo: EPA 6020	Analysis Date: 11/15/2024	SeqNo: 6320100							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Selenium	ND	0.50									

Sample ID: CCB15	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: CCB	Batch ID: R195742	TestNo: EPA 6020	Analysis Date: 11/15/2024	SeqNo: 6320108							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195916						
Client ID: ICB	Batch ID: R195916	TestNo: EPA 6020		Analysis Date: 11/19/2024	SeqNo: 6328536						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB1	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195916						
Client ID: CCB	Batch ID: R195916	TestNo: EPA 6020		Analysis Date: 11/19/2024	SeqNo: 6328554						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB2	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195916						
Client ID: CCB	Batch ID: R195916	TestNo: EPA 6020		Analysis Date: 11/19/2024	SeqNo: 6328559						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB3	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195916						
Client ID: CCB	Batch ID: R195916	TestNo: EPA 6020		Analysis Date: 11/19/2024	SeqNo: 6328570						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB4	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195916						
Client ID: CCB	Batch ID: R195916	TestNo: EPA 6020		Analysis Date: 11/19/2024	SeqNo: 6328574						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB5	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195916						
Client ID: CCB	Batch ID: R195916	TestNo: EPA 6020		Analysis Date: 11/19/2024	SeqNo: 6328584						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB6	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195916						
Client ID: CCB	Batch ID: R195916	TestNo: EPA 6020		Analysis Date: 11/19/2024	SeqNo: 6328594						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB7	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195916						
Client ID: CCB	Batch ID: R195916	TestNo: EPA 6020		Analysis Date: 11/20/2024	SeqNo: 6328606						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB8	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195916						
Client ID: CCB	Batch ID: R195916	TestNo: EPA 6020		Analysis Date: 11/20/2024	SeqNo: 6328617						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: CCB9	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195916						
Client ID: CCB	Batch ID: R195916	TestNo: EPA 6020		Analysis Date: 11/20/2024	SeqNo: 6328630						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB10	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195916						
Client ID: CCB	Batch ID: R195916	TestNo: EPA 6020		Analysis Date: 11/20/2024	SeqNo: 6328641						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: CCB11	SampType: CCB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195916						
Client ID: CCB	Batch ID: R195916	TestNo: EPA 6020		Analysis Date: 11/20/2024	SeqNo: 6328655						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: ICB	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/13/2024	SeqNo: 6314007						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: CCB1	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: CCB	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/13/2024	SeqNo: 6314024						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: CCB2	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: CCB	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/13/2024	SeqNo: 6314032						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: CCB3	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: CCB	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/13/2024	SeqNo: 6314041						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: CCB4	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: CCB	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/13/2024	SeqNo: 6314054						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCB5	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: CCB	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/13/2024	SeqNo: 6314065						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: CCB6	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: CCB	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/13/2024	SeqNo: 6314071						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: CCB7	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: CCB	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6314083						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: CCB8	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: CCB	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6314094						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: CCB9	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: CCB	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6314107						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCB10	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: CCB	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6314118						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: CCB11	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: CCB	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6314124						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: CCB12	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: CCB	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6314137						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: CCB13	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: CCB	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6314147						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: CCB14	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: CCB	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6314158						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCB15	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: CCB	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6314164						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB16	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: CCB	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6314177						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB17	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: CCB	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6314186						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB18	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: CCB	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6314193						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICB	SampType: ICB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195744						
Client ID: ICB	Batch ID: R195744	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6320156						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB1	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195744						
Client ID: CCB	Batch ID: R195744	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6320171						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB2	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195744						
Client ID: CCB	Batch ID: R195744	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6320184						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB3	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195744						
Client ID: CCB	Batch ID: R195744	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6320195						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB4	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195744						
Client ID: CCB	Batch ID: R195744	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6320203						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: CCB5	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195744						
Client ID: CCB	Batch ID: R195744	TestNo: EPA 6020		Analysis Date: 11/15/2024	SeqNo: 6320215						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB6	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195744						
Client ID: CCB	Batch ID: R195744	TestNo: EPA 6020		Analysis Date: 11/15/2024	SeqNo: 6320220						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB7	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195744						
Client ID: CCB	Batch ID: R195744	TestNo: EPA 6020		Analysis Date: 11/15/2024	SeqNo: 6320234						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB8	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195744						
Client ID: CCB	Batch ID: R195744	TestNo: EPA 6020		Analysis Date: 11/15/2024	SeqNo: 6320245						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Sample ID: CCB9	SampType: CCB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195744						
Client ID: CCB	Batch ID: R195744	TestNo: EPA 6020		Analysis Date: 11/15/2024	SeqNo: 6320257						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0
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Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

SUMMARY OF INSTRUMENT CHECK (ICSA & ICSAB)



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“Serving Clients with Passion and Professionalism”

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: ICSA	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/13/2024	SeqNo: 6313570						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: ICSA	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/13/2024	SeqNo: 6313571						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.387	0.10	20.00	0	96.9	80	120				
Barium	20.184	1.0	20.00	0	101	80	120				
Manganese	20.443	0.50	20.00	0	102	80	120				
Molybdenum	21.437	0.50	20.00	0	107	80	120				
Selenium	19.477	0.50	20.00	0	97.4	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: ICSA	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/13/2024	SeqNo: 6313601						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSAB2		SampType: ICSAB		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 195638			
Client ID: ICSAB		Batch ID: R195638		TestNo: EPA 6020		Analysis Date: 11/13/2024		SeqNo: 6313602			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.780	0.10	20.00	0	98.9	80	120				
Barium	20.603	1.0	20.00	0	103	80	120				
Manganese	19.982	0.50	20.00	0	99.9	80	120				
Molybdenum	21.498	0.50	20.00	0	107	80	120				
Selenium	20.708	0.50	20.00	0	104	80	120				

Sample ID: ICSA3		SampType: ICSA		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 195638			
Client ID: ICSA		Batch ID: R195638		TestNo: EPA 6020		Analysis Date: 11/13/2024		SeqNo: 6313631			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: ICSAB3		SampType: ICSAB		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 195638			
Client ID: ICSAB		Batch ID: R195638		TestNo: EPA 6020		Analysis Date: 11/13/2024		SeqNo: 6313632			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.670	0.10	20.00	0	98.4	80	120				
Barium	21.651	1.0	20.00	0	108	80	120				
Manganese	18.917	0.50	20.00	0	94.6	80	120				
Molybdenum	22.336	0.50	20.00	0	112	80	120				
Selenium	19.546	0.50	20.00	0	97.7	80	120				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: ICSA	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6313654						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: ICSA	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6313655						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	20.204	0.10	20.00	0	101	80	120
Barium	22.015	1.0	20.00	0	110	80	120
Manganese	19.387	0.50	20.00	0	96.9	80	120
Molybdenum	21.618	0.50	20.00	0	108	80	120
Selenium	18.982	0.50	20.00	0	94.9	80	120

Sample ID: ICSA5	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: ICSA	Batch ID: R195638	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6313684						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSAB5		SampType: ICSAB		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 195638			
Client ID: ICSAB		Batch ID: R195638		TestNo: EPA 6020		Analysis Date: 11/14/2024		SeqNo: 6313685			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.703	0.10	20.00	0	98.5	80	120				
Barium	22.445	1.0	20.00	0	112	80	120				
Manganese	19.921	0.50	20.00	0	99.6	80	120				
Molybdenum	21.672	0.50	20.00	0	108	80	120				
Selenium	19.596	0.50	20.00	0	98.0	80	120				

Sample ID: ICSA6		SampType: ICSA		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 195638			
Client ID: ICSA		Batch ID: R195638		TestNo: EPA 6020		Analysis Date: 11/14/2024		SeqNo: 6313724			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: ICSAB6		SampType: ICSAB		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 195638			
Client ID: ICSAB		Batch ID: R195638		TestNo: EPA 6020		Analysis Date: 11/14/2024		SeqNo: 6313725			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.596	0.10	20.00	0	98.0	80	120				
Barium	22.670	1.0	20.00	0	113	80	120				
Manganese	19.519	0.50	20.00	0	97.6	80	120				
Molybdenum	21.561	0.50	20.00	0	108	80	120				
Selenium	19.085	0.50	20.00	0	95.4	80	120				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA7	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: ICSA	Batch ID: R195638	TestNo: EPA 6020	Analysis Date: 11/14/2024	SeqNo: 6313753							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: ICSAB7	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: ICSAB	Batch ID: R195638	TestNo: EPA 6020	Analysis Date: 11/14/2024	SeqNo: 6313754							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.445	0.10	20.00	0	97.2	80	120				
Barium	22.924	1.0	20.00	0	115	80	120				
Manganese	19.749	0.50	20.00	0	98.7	80	120				
Molybdenum	21.770	0.50	20.00	0	109	80	120				
Selenium	19.133	0.50	20.00	0	95.7	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: ICSA	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6319944						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Selenium	ND	0.50									

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: ICSA	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6319945						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	20.207	0.10	20.00	0	101	80	120				
Barium	21.084	1.0	20.00	0	105	80	120				
Manganese	20.222	0.50	20.00	0	101	80	120				
Selenium	20.229	0.50	20.00	0	101	80	120				

Sample ID: ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: ICSA	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6319956						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Selenium	ND	0.50									

Sample ID: ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: ICSA	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6319957						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	19.942	0.10	20.00	0	99.7	80	120				
Barium	21.252	1.0	20.00	0	106	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSAB2	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: ICSAB	Batch ID: R195742	TestNo: EPA 6020	Analysis Date: 11/14/2024	SeqNo: 6319957							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	20.975	0.50	20.00	0	105	80	120				
Selenium	20.125	0.50	20.00	0	101	80	120				

Sample ID: ICSA3	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: ICSA	Batch ID: R195742	TestNo: EPA 6020	Analysis Date: 11/15/2024	SeqNo: 6319988							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Selenium	ND	0.50									

Sample ID: ICSAB3	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: ICSAB	Batch ID: R195742	TestNo: EPA 6020	Analysis Date: 11/15/2024	SeqNo: 6319989							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.384	0.10	20.00	0	96.9	80	120				
Barium	21.632	1.0	20.00	0	108	80	120				
Manganese	20.154	0.50	20.00	0	101	80	120				
Selenium	18.814	0.50	20.00	0	94.1	80	120				

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: ICSA	Batch ID: R195742	TestNo: EPA 6020	Analysis Date: 11/15/2024	SeqNo: 6320005							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Selenium	ND	0.50									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSAB4	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: ICSAB	Batch ID: R195742	TestNo: EPA 6020	Analysis Date: 11/15/2024	SeqNo: 6320006							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.647	0.10	20.00	0	98.2	80	120				
Barium	21.652	1.0	20.00	0	108	80	120				
Manganese	20.378	0.50	20.00	0	102	80	120				
Selenium	19.970	0.50	20.00	0	99.8	80	120				

Sample ID: ICSA5	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: ICSA	Batch ID: R195742	TestNo: EPA 6020	Analysis Date: 11/15/2024	SeqNo: 6320042							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Selenium	ND	0.50									

Sample ID: ICSAB5	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: ICSAB	Batch ID: R195742	TestNo: EPA 6020	Analysis Date: 11/15/2024	SeqNo: 6320043							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.449	0.10	20.00	0	97.2	80	120				
Barium	21.860	1.0	20.00	0	109	80	120				
Manganese	20.901	0.50	20.00	0	105	80	120				
Selenium	19.875	0.50	20.00	0	99.4	80	120				

Sample ID: ICSA6	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: ICSA	Batch ID: R195742	TestNo: EPA 6020	Analysis Date: 11/15/2024	SeqNo: 6320077							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA6	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: ICSA	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/15/2024	SeqNo: 6320077						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	ND	0.50									
Selenium	ND	0.50									

Sample ID: ICSA6	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: ICSA	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/15/2024	SeqNo: 6320078						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.552	0.10	20.00	0	97.8	80	120				
Barium	21.107	1.0	20.00	0	106	80	120				
Manganese	20.960	0.50	20.00	0	105	80	120				
Selenium	19.128	0.50	20.00	0	95.6	80	120				

Sample ID: ICSA7	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: ICSA	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/15/2024	SeqNo: 6320109						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Selenium	ND	0.50									

Sample ID: ICSA7	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: ICSA	Batch ID: R195742	TestNo: EPA 6020		Analysis Date: 11/15/2024	SeqNo: 6320110						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.005	0.10	20.00	0	95.0	80	120				
Barium	21.514	1.0	20.00	0	108	80	120				
Manganese	21.754	0.50	20.00	0	109	80	120				
Selenium	19.493	0.50	20.00	0	97.5	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195916						
Client ID: ICSA	Batch ID: R195916	TestNo: EPA 6020		Analysis Date: 11/19/2024	SeqNo: 6328541						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	ND	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195916						
Client ID: ICSA	Batch ID: R195916	TestNo: EPA 6020		Analysis Date: 11/19/2024	SeqNo: 6328541						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	20.058	0.10	20.00	0	100	80	120
Barium	20.866	1.0	20.00	0	104	80	120
Manganese	19.517	0.50	20.00	0	97.6	80	120
Molybdenum	21.112	0.50	20.00	0	106	80	120
Selenium	19.941	0.50	20.00	0	99.7	80	120

Sample ID: ICSA2	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195916						
Client ID: ICSA	Batch ID: R195916	TestNo: EPA 6020		Analysis Date: 11/19/2024	SeqNo: 6328575						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	0.051	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSAB2		SampType: ICSAB		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 195916			
Client ID: ICSAB		Batch ID: R195916		TestNo: EPA 6020		Analysis Date: 11/19/2024		SeqNo: 6328576			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.600	0.10	20.00	0	98.0	80	120				
Barium	20.424	1.0	20.00	0	102	80	120				
Manganese	19.672	0.50	20.00	0	98.4	80	120				
Molybdenum	20.093	0.50	20.00	0	100	80	120				
Selenium	20.689	0.50	20.00	0	103	80	120				

Sample ID: ICSA3		SampType: ICSA		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 195916			
Client ID: ICSA		Batch ID: R195916		TestNo: EPA 6020		Analysis Date: 11/20/2024		SeqNo: 6328618			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	0.052	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: ICSAB3		SampType: ICSAB		TestCode: 6020_DIS_TP Units: µg/L		Prep Date:		RunNo: 195916			
Client ID: ICSAB		Batch ID: R195916		TestNo: EPA 6020		Analysis Date: 11/20/2024		SeqNo: 6328619			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.656	0.10	20.00	0	98.3	80	120				
Barium	19.801	1.0	20.00	0	99.0	80	120				
Manganese	21.246	0.50	20.00	0	106	80	120				
Molybdenum	19.773	0.50	20.00	0	98.9	80	120				
Selenium	20.439	0.50	20.00	0	102	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195916						
Client ID: ICSA	Batch ID: R195916	TestNo: EPA 6020		Analysis Date: 11/20/2024	SeqNo: 6328642						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	0.056	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195916						
Client ID: ICSA	Batch ID: R195916	TestNo: EPA 6020		Analysis Date: 11/20/2024	SeqNo: 6328642						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	18.932	0.10	20.00	0	94.7	80	120
Barium	19.338	1.0	20.00	0	96.7	80	120
Manganese	20.545	0.50	20.00	0	103	80	120
Molybdenum	19.941	0.50	20.00	0	99.7	80	120
Selenium	18.000	0.50	20.00	0	90.0	80	120

Sample ID: ICSA5	SampType: ICSA	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195916						
Client ID: ICSA	Batch ID: R195916	TestNo: EPA 6020		Analysis Date: 11/20/2024	SeqNo: 6328656						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	0.10
Barium	ND	1.0
Manganese	0.051	0.50
Molybdenum	ND	0.50
Selenium	ND	0.50

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: ICSAB5	SampType: ICSAB	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195916						
Client ID: ICSAB	Batch ID: R195916	TestNo: EPA 6020		Analysis Date: 11/20/2024	SeqNo: 6328657						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	19.470	0.10	20.00	0	97.3	80	120				
Barium	19.466	1.0	20.00	0	97.3	80	120				
Manganese	21.159	0.50	20.00	0	106	80	120				
Molybdenum	19.685	0.50	20.00	0	98.4	80	120				
Selenium	17.531	0.50	20.00	0	87.7	80	120				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: ICSA	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/13/2024	SeqNo: 6314011						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: ICSA	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/13/2024	SeqNo: 6314011						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.027	1.0	20.00	0	100	80	120				
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Sample ID: ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: ICSA	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/13/2024	SeqNo: 6314042						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: ICSA	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/13/2024	SeqNo: 6314043						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.828	1.0	20.00	0	99.1	80	120				
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Sample ID: ICSA3	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: ICSA	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/13/2024	SeqNo: 6314072						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICSAB3	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: ICSAB	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/13/2024	SeqNo: 6314073						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	18.367	1.0	20.00	0	91.8	80	120				
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Sample ID: ICSA4	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: ICSA	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6314095						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: ICSAB4	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: ICSAB	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6314096						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.274	1.0	20.00	0	96.4	80	120				
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Sample ID: ICSA5	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: ICSA	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6314125						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: ICSAB5	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: ICSAB	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6314126						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.138	1.0	20.00	0	95.7	80	120				
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICSA6	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: ICSA	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6314165						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: ICSA6	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: ICSA	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6314165						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.319	1.0	20.00	0	96.6	80	120				
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Sample ID: ICSA7	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: ICSA	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6314194						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: ICSA7	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: ICSA	Batch ID: R195644	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6314195						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	19.312	1.0	20.00	0	96.6	80	120				
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195744						
Client ID: ICSA	Batch ID: R195744	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6320160						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: ICSA1	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195744						
Client ID: ICSA	Batch ID: R195744	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6320160						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.020	1.0	20.00	0	100	80	120				
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Sample ID: ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195744						
Client ID: ICSA	Batch ID: R195744	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6320172						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Sample ID: ICSA2	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195744						
Client ID: ICSA	Batch ID: R195744	TestNo: EPA 6020		Analysis Date: 11/14/2024	SeqNo: 6320173						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	20.760	1.0	20.00	0	104	80	120				
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Sample ID: ICSA3	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195744						
Client ID: ICSA	Batch ID: R195744	TestNo: EPA 6020		Analysis Date: 11/15/2024	SeqNo: 6320204						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chromium	ND	1.0									
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Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: ICSAB3	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195744						
Client ID: ICSAB	Batch ID: R195744	TestNo: EPA 6020		Analysis Date: 11/15/2024	SeqNo: 6320205						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.238	1.0	20.00	0	101	80	120				

Sample ID: ICSA4	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195744						
Client ID: ICSA	Batch ID: R195744	TestNo: EPA 6020		Analysis Date: 11/15/2024	SeqNo: 6320221						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID: ICSAB4	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195744						
Client ID: ICSAB	Batch ID: R195744	TestNo: EPA 6020		Analysis Date: 11/15/2024	SeqNo: 6320222						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.428	1.0	20.00	0	102	80	120				

Sample ID: ICSA5	SampType: ICSA	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195744						
Client ID: ICSA	Batch ID: R195744	TestNo: EPA 6020		Analysis Date: 11/15/2024	SeqNo: 6320258						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID: ICSAB5	SampType: ICSAB	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195744						
Client ID: ICSAB	Batch ID: R195744	TestNo: EPA 6020		Analysis Date: 11/15/2024	SeqNo: 6320259						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	20.885	1.0	20.00	0	104	80	120				

Qualifiers:

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|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

INTERNAL STANDARD SUMMARY



ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CALIFORNIA
11110 Artesia Blvd., Ste B, Cerritos, CA 90703
P: 562.219.7435 F: 562.219.7436

NEVADA
3151 W. Post Rd., Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691

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INTERNAL STANDARD: 241113A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	1072677.1	1072677.1	100	PASS	30-150	14578.6	14578.6	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	1081311.7	1072677.1	100.8	PASS	30-150	14896.7	14578.6	102.18	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	1075130.8	1072677.1	100.23	PASS	30-150	14965.6	14578.6	102.65	PASS	30-150
Std3-5/50 ppb	ICAL	1	1096392.7	1072677.1	102.21	PASS	30-150	14953.4	14578.6	102.57	PASS	30-150
Std4-10/100 ppb	ICAL	1	1106924.1	1072677.1	103.19	PASS	30-150	14957.9	14578.6	102.6	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	1110623.1	1072677.1	103.54	PASS	30-150	15062.4	14578.6	103.32	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	1114712.5	1072677.1	103.92	PASS	30-150	15270.4	14578.6	104.75	PASS	30-150
Std7-100/1000 ppb	ICAL	1	1132751.1	1072677.1	105.6	PASS	30-150	15440.5	14578.6	105.91	PASS	30-150
Std8-200/2000 ppb	ICAL	1	1146385	1072677.1	106.87	PASS	30-150	15744.1	14578.6	107.99	PASS	30-150
ICV	ICV	1	1123575	1072677.1	104.74	PASS	30-150	15113.6	14578.6	103.67	PASS	30-150
ICB	ICB	1	1081006.3	1072677.1	100.78	PASS	30-150	14719.9	14578.6	100.97	PASS	30-150
LLCCV1	CCV	1	1094190.6	1072677.1	102.01	PASS	30-150	14428.5	14578.6	98.97	PASS	30-150
LLCCV2	CCV	1	1087209.3	1072677.1	101.35	PASS	30-150	14515.2	14578.6	99.57	PASS	30-150
MLCCV1	CCV	1	1099271	1072677.1	102.48	PASS	30-150	15140.2	14578.6	103.85	PASS	30-150
ICSA1	ICSA	1	1123585.8	1072677.1	104.75	PASS	30-150	14962.3	14578.6	102.63	PASS	30-150
ICSAB1	ICSAB	1	1060037.7	1072677.1	98.82	PASS	30-150	15953.2	14578.6	109.43	PASS	30-150
CCV1	CCV	1	1104664.9	1072677.1	102.98	PASS	30-150	14747.7	14578.6	101.16	PASS	30-150
CCB1	CCB	1	1072615.2	1072677.1	99.99	PASS	30-150	14642	14578.6	100.43	PASS	30-150
CCV2	CCV	1	1160287.7	1072677.1	108.17	PASS	30-150	15264.8	14578.6	104.71	PASS	30-150
CCB2	CCB	1	1137348.3	1072677.1	106.03	PASS	30-150	14862.2	14578.6	101.95	PASS	30-150
CCV3	CCV	1	1181057.6	1072677.1	110.1	PASS	30-150	15264.8	14578.6	104.71	PASS	30-150
CCB3	CCB	1	1134745.4	1072677.1	105.79	PASS	30-150	14565.3	14578.6	99.91	PASS	30-150
ICSA2	ICSA	1	1145289	1072677.1	106.77	PASS	30-150	14904.5	14578.6	102.24	PASS	30-150
ICSAB2	ICSAB	1	1129344.8	1072677.1	105.28	PASS	30-150	15870.9	14578.6	108.86	PASS	30-150
CCV4	CCV	1	1198383.7	1072677.1	111.72	PASS	30-150	18252.2	14578.6	125.2	PASS	30-150
CCB4	CCB	1	1160541	1072677.1	108.19	PASS	30-150	17259	14578.6	118.39	PASS	30-150
CCV5	CCV	1	1151838.8	1072677.1	107.38	PASS	30-150	17832.9	14578.6	122.32	PASS	30-150
CCB5	CCB	1	1089388.3	1072677.1	101.56	PASS	30-150	16650.6	14578.6	114.21	PASS	30-150
CCV6	CCV	1	1259558.6	1072677.1	117.42	PASS	30-150	19577.1	14578.6	134.29	PASS	30-150
CCB6	CCB	1	1220204.3	1072677.1	113.75	PASS	30-150	18460.2	14578.6	126.63	PASS	30-150
ICSA3	ICSA	1	1239198.2	1072677.1	115.52	PASS	30-150	18822.9	14578.6	129.11	PASS	30-150
ICSAB3	ICSAB	1	1266653.8	1072677.1	118.08	PASS	30-150	20648.3	14578.6	141.63	PASS	30-150
CCV7	CCV	1	1229438.9	1072677.1	114.61	PASS	30-150	18524.8	14578.6	127.07	PASS	30-150
CCB7	CCB	1	1201473.2	1072677.1	112.01	PASS	30-150	17689.4	14578.6	121.34	PASS	30-150
CCV8	CCV	1	1169302.4	1072677.1	109.01	PASS	30-150	16831.8	14578.6	115.46	PASS	30-150
CCB8	CCB	1	1099362.4	1072677.1	102.49	PASS	30-150	15727.4	14578.6	107.88	PASS	30-150
ICSA4	ICSA	1	1126271.7	1072677.1	105	PASS	30-150	16230.1	14578.6	111.33	PASS	30-150
ICSAB4	ICSAB	1	1129158.9	1072677.1	105.27	PASS	30-150	17869.6	14578.6	122.57	PASS	30-150
MB-114060	MBLK	1	1089036.9	1072677.1	101.53	PASS	30-150	16878.6	14578.6	115.78	PASS	30-150
LCS-114060	LCS	1	1160863.1	1072677.1	108.22	PASS	30-150	16759.6	14578.6	114.96	PASS	30-150
N069889-001B	SAMP	1	1095734.2	1072677.1	102.15	PASS	30-150	16487.1	14578.6	113.09	PASS	30-150

INTERNAL STANDARD: 241113A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
N069889-002B	SAMP	1	1086918.4	1072677.1	101.33	PASS	30-150	17101	14578.6	117.3	PASS	30-150
N069889-003B	SAMP	1	1072488.6	1072677.1	99.98	PASS	30-150	17228.9	14578.6	118.18	PASS	30-150
N069891-001C	SAMP	1	1236845.6	1072677.1	115.3	PASS	30-150	18066.5	14578.6	123.92	PASS	30-150
N069891-002C	SAMP	1	1180367.9	1072677.1	110.04	PASS	30-150	17563.7	14578.6	120.48	PASS	30-150
N069891-003C	SAMP	1	1017368.1	1072677.1	94.84	PASS	30-150	16784	14578.6	115.13	PASS	30-150
N069891-004C	SAMP	1	1145588.8	1072677.1	106.8	PASS	30-150	17862.9	14578.6	122.53	PASS	30-150
CCV9	CCV	1	1201559	1072677.1	112.02	PASS	30-150	18147.7	14578.6	124.48	PASS	30-150
CCB9	CCB	1	1164148.8	1072677.1	108.53	PASS	30-150	17151.1	14578.6	117.65	PASS	30-150
N069891-005C	SAMP	1	1140377.6	1072677.1	106.31	PASS	30-150	16710.6	14578.6	114.62	PASS	30-150
N069891-007C	SAMP	1	1034412.1	1072677.1	96.43	PASS	30-150	15922.1	14578.6	109.22	PASS	30-150
N069891-009C	SAMP	1	1036132.9	1072677.1	96.59	PASS	30-150	16132.3	14578.6	110.66	PASS	30-150
N069891-010C	SAMP	1	1051743.8	1072677.1	98.05	PASS	30-150	16182.3	14578.6	111	PASS	30-150
N069891-010C	SAMP	5	1166441.8	1072677.1	108.74	PASS	30-150	17463.6	14578.6	119.79	PASS	30-150
N069891-010C-PS	PS	1	1060793.3	1072677.1	98.89	PASS	30-150	16305.8	14578.6	111.85	PASS	30-150
N069891-010CMS	MS	1	1053952.4	1072677.1	98.25	PASS	30-150	16267.9	14578.6	111.59	PASS	30-150
N069891-010CMSD	MSD	1	1040302.6	1072677.1	96.98	PASS	30-150	16339.1	14578.6	112.08	PASS	30-150
N069891-011C	SAMP	1	1029284.7	1072677.1	95.95	PASS	30-150	16454.8	14578.6	112.87	PASS	30-150
CCV10	CCV	1	1145010.7	1072677.1	106.74	PASS	30-150	17501.5	14578.6	120.05	PASS	30-150
CCB10	CCB	1	1106664.2	1072677.1	103.17	PASS	30-150	16477.1	14578.6	113.02	PASS	30-150
N069891-012C	SAMP	1	1017680.6	1072677.1	94.87	PASS	30-150	15321.5	14578.6	105.1	PASS	30-150
N069891-014C	SAMP	1	991749.2	1072677.1	92.46	PASS	30-150	15131.3	14578.6	103.79	PASS	30-150
N069891-015C	SAMP	1	1006953.4	1072677.1	93.87	PASS	30-150	15798.6	14578.6	108.37	PASS	30-150
N069891-016C	SAMP	1	994348	1072677.1	92.7	PASS	30-150	15589.5	14578.6	106.93	PASS	30-150
CCV11	CCV	1	1115759.6	1072677.1	104.02	PASS	30-150	17290.1	14578.6	118.6	PASS	30-150
CCB11	CCB	1	1139416.1	1072677.1	106.22	PASS	30-150	17307.9	14578.6	118.72	PASS	30-150
ICSA5	ICSA	1	1177235.9	1072677.1	109.75	PASS	30-150	17490.3	14578.6	119.97	PASS	30-150
ICSAB5	ICSAB	1	1148551.1	1072677.1	107.07	PASS	30-150	18098.7	14578.6	124.15	PASS	30-150
CCV12	CCV	1	1214658.9	1072677.1	113.24	PASS	30-150	17757.3	14578.6	121.8	PASS	30-150
CCB12	CCB	1	1168161.6	1072677.1	108.9	PASS	30-150	16413.7	14578.6	112.59	PASS	30-150
CCV13	CCV	1	1148259.3	1072677.1	107.05	PASS	30-150	17551.5	14578.6	120.39	PASS	30-150
CCB13	CCB	1	1089235.1	1072677.1	101.54	PASS	30-150	15797.5	14578.6	108.36	PASS	30-150
CCV14	CCV	1	1141355.7	1072677.1	106.4	PASS	30-150	16470.4	14578.6	112.98	PASS	30-150
CCB14	CCB	1	1106128.5	1072677.1	103.12	PASS	30-150	15671.8	14578.6	107.5	PASS	30-150
CCV15	CCV	1	1168826.2	1072677.1	108.96	PASS	30-150	17142.2	14578.6	117.58	PASS	30-150
CCB15	CCB	1	1117775.2	1072677.1	104.2	PASS	30-150	15515	14578.6	106.42	PASS	30-150
ICSA6	ICSA	1	1155663	1072677.1	107.74	PASS	30-150	15781.9	14578.6	108.25	PASS	30-150
ICSAB6	ICSAB	1	1133767.2	1072677.1	105.7	PASS	30-150	16617.2	14578.6	113.98	PASS	30-150
CCV16	CCV	1	1163943.2	1072677.1	108.51	PASS	30-150	17636	14578.6	120.97	PASS	30-150
CCB16	CCB	1	1130111.8	1072677.1	105.35	PASS	30-150	16293.6	14578.6	111.76	PASS	30-150
CCV17	CCV	1	1107126.9	1072677.1	103.21	PASS	30-150	16626.1	14578.6	114.05	PASS	30-150
CCB17	CCB	1	1065550.3	1072677.1	99.34	PASS	30-150	16019.9	14578.6	109.89	PASS	30-150

INTERNAL STANDARD: 241113A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
CCV18	CCV	1	1107906	1072677.1	103.28	PASS	30-150	16576	14578.6	113.7	PASS	30-150
CCB18	CCB	1	1083268.2	1072677.1	100.99	PASS	30-150	16018.8	14578.6	109.88	PASS	30-150
ICSA7	ICSA	1	1104059.6	1072677.1	102.93	PASS	30-150	16391.4	14578.6	112.43	PASS	30-150
ICSAB7	ICSAB	1	1105554.9	1072677.1	103.07	PASS	30-150	16666.1	14578.6	114.32	PASS	30-150

INTERNAL STANDARD: 241113A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]					72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	14294.1	14294.1	100	PASS	30-150	43899.8	43899.8	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	14207.4	14294.1	99.39	PASS	30-150	43367.3	43899.8	98.79	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	14405.3	14294.1	100.78	PASS	30-150	43640.3	43899.8	99.41	PASS	30-150
Std3-5/50 ppb	ICAL	1	14793.4	14294.1	103.49	PASS	30-150	43710.5	43899.8	99.57	PASS	30-150
Std4-10/100 ppb	ICAL	1	14417.5	14294.1	100.86	PASS	30-150	43909.9	43899.8	100.02	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	14766.7	14294.1	103.31	PASS	30-150	43864.1	43899.8	99.92	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	14775.6	14294.1	103.37	PASS	30-150	44485.9	43899.8	101.34	PASS	30-150
Std7-100/1000 ppb	ICAL	1	15008	14294.1	104.99	PASS	30-150	43919.9	43899.8	100.05	PASS	30-150
Std8-200/2000 ppb	ICAL	1	15074.8	14294.1	105.46	PASS	30-150	44792.2	43899.8	102.03	PASS	30-150
ICV	ICV	1	14762.2	14294.1	103.27	PASS	30-150	44269.7	43899.8	100.84	PASS	30-150
ICB	ICB	1	14259.6	14294.1	99.76	PASS	30-150	43357.2	43899.8	98.76	PASS	30-150
LLCCV1	CCV	1	14285.2	14294.1	99.94	PASS	30-150	43525.5	43899.8	99.15	PASS	30-150
LLCCV2	CCV	1	14224	14294.1	99.51	PASS	30-150	42994.1	43899.8	97.94	PASS	30-150
MLCCV1	CCV	1	14548.7	14294.1	101.78	PASS	30-150	43956.6	43899.8	100.13	PASS	30-150
ICSA1	ICSA	1	14697.8	14294.1	102.82	PASS	30-150	43679.2	43899.8	99.5	PASS	30-150
ICSAB1	ICSAB	1	15074.8	14294.1	105.46	PASS	30-150	44910.4	43899.8	102.3	PASS	30-150
CCV1	CCV	1	14459.8	14294.1	101.16	PASS	30-150	43611.4	43899.8	99.34	PASS	30-150
CCB1	CCB	1	13989.3	14294.1	97.87	PASS	30-150	42997.4	43899.8	97.94	PASS	30-150
CCV2	CCV	1	14442	14294.1	101.04	PASS	30-150	44069.2	43899.8	100.39	PASS	30-150
CCB2	CCB	1	14232.9	14294.1	99.57	PASS	30-150	42629.8	43899.8	97.11	PASS	30-150
CCV3	CCV	1	14538.7	14294.1	101.71	PASS	30-150	42277.8	43899.8	96.31	PASS	30-150
CCB3	CCB	1	14017.2	14294.1	98.06	PASS	30-150	41540.3	43899.8	94.63	PASS	30-150
ICSA2	ICSA	1	14128.4	14294.1	98.84	PASS	30-150	42687.7	43899.8	97.24	PASS	30-150
ICSAB2	ICSAB	1	14417.5	14294.1	100.86	PASS	30-150	44112.7	43899.8	100.48	PASS	30-150
CCV4	CCV	1	16122.4	14294.1	112.79	PASS	30-150	48048	43899.8	109.45	PASS	30-150
CCB4	CCB	1	15530.7	14294.1	108.65	PASS	30-150	46075.8	43899.8	104.96	PASS	30-150
CCV5	CCV	1	15521.8	14294.1	108.59	PASS	30-150	42816.9	43899.8	97.53	PASS	30-150
CCB5	CCB	1	14373	14294.1	100.55	PASS	30-150	41227.3	43899.8	93.91	PASS	30-150
CCV6	CCV	1	16755.3	14294.1	117.22	PASS	30-150	49139	43899.8	111.93	PASS	30-150
CCB6	CCB	1	16057.9	14294.1	112.34	PASS	30-150	47341.5	43899.8	107.84	PASS	30-150
ICSA3	ICSA	1	16559.5	14294.1	115.85	PASS	30-150	48717.7	43899.8	110.97	PASS	30-150
ICSAB3	ICSAB	1	17087.8	14294.1	119.54	PASS	30-150	49633.9	43899.8	113.06	PASS	30-150
CCV7	CCV	1	16233.6	14294.1	113.57	PASS	30-150	48911.7	43899.8	111.42	PASS	30-150
CCB7	CCB	1	15713.1	14294.1	109.93	PASS	30-150	47410.6	43899.8	108	PASS	30-150
CCV8	CCV	1	14986.9	14294.1	104.85	PASS	30-150	43331.6	43899.8	98.71	PASS	30-150
CCB8	CCB	1	14196.2	14294.1	99.32	PASS	30-150	41315.3	43899.8	94.11	PASS	30-150
ICSA4	ICSA	1	14758.9	14294.1	103.25	PASS	30-150	42137.4	43899.8	95.99	PASS	30-150
ICSAB4	ICSAB	1	15313.9	14294.1	107.13	PASS	30-150	45291.4	43899.8	103.17	PASS	30-150
MB-114060	MBLK	1	15078.1	14294.1	105.48	PASS	30-150	47611.2	43899.8	108.45	PASS	30-150
LCS-114060	LCS	1	15450.7	14294.1	108.09	PASS	30-150	46784.4	43899.8	106.57	PASS	30-150
N069889-001B	SAMP	1	14599.9	14294.1	102.14	PASS	30-150	41894.6	43899.8	95.43	PASS	30-150

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]					72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
N069889-002B	SAMP	1	14490.9	14294.1	101.38	PASS	30-150	42831.4	43899.8	97.57	PASS	30-150
N069889-003B	SAMP	1	14661.1	14294.1	102.57	PASS	30-150	42857	43899.8	97.62	PASS	30-150
N069891-001C	SAMP	1	16274.8	14294.1	113.86	PASS	30-150	47631.3	43899.8	108.5	PASS	30-150
N069891-002C	SAMP	1	15718.7	14294.1	109.97	PASS	30-150	46390	43899.8	105.67	PASS	30-150
N069891-003C	SAMP	1	14256.2	14294.1	99.73	PASS	30-150	44192.8	43899.8	100.67	PASS	30-150
N069891-004C	SAMP	1	15141.5	14294.1	105.93	PASS	30-150	46056.8	43899.8	104.91	PASS	30-150
CCV9	CCV	1	16498.3	14294.1	115.42	PASS	30-150	49304	43899.8	112.31	PASS	30-150
CCB9	CCB	1	15712	14294.1	109.92	PASS	30-150	47607.9	43899.8	108.45	PASS	30-150
N069891-005C	SAMP	1	14896.8	14294.1	104.22	PASS	30-150	44429	43899.8	101.21	PASS	30-150
N069891-007C	SAMP	1	13572.3	14294.1	94.95	PASS	30-150	41323.1	43899.8	94.13	PASS	30-150
N069891-009C	SAMP	1	13874.8	14294.1	97.07	PASS	30-150	41255.2	43899.8	93.98	PASS	30-150
N069891-010C	SAMP	1	13829.2	14294.1	96.75	PASS	30-150	41529.2	43899.8	94.6	PASS	30-150
N069891-010C	SAMP	5	15192.7	14294.1	106.29	PASS	30-150	46029	43899.8	104.85	PASS	30-150
N069891-010C-PS	PS	1	13639	14294.1	95.42	PASS	30-150	41290.8	43899.8	94.06	PASS	30-150
N069891-010CMS	MS	1	13787	14294.1	96.45	PASS	30-150	41534.8	43899.8	94.61	PASS	30-150
N069891-010CMSD	MSD	1	13924.9	14294.1	97.42	PASS	30-150	41552.6	43899.8	94.65	PASS	30-150
N069891-011C	SAMP	1	13693.5	14294.1	95.8	PASS	30-150	40650.4	43899.8	92.6	PASS	30-150
CCV10	CCV	1	15660.8	14294.1	109.56	PASS	30-150	47282.5	43899.8	107.71	PASS	30-150
CCB10	CCB	1	14876.8	14294.1	104.08	PASS	30-150	43809.6	43899.8	99.79	PASS	30-150
N069891-012C	SAMP	1	13271	14294.1	92.84	PASS	30-150	38862.7	43899.8	88.53	PASS	30-150
N069891-014C	SAMP	1	13322.1	14294.1	93.2	PASS	30-150	39239.1	43899.8	89.38	PASS	30-150
N069891-015C	SAMP	1	13696.9	14294.1	95.82	PASS	30-150	39965.3	43899.8	91.04	PASS	30-150
N069891-016C	SAMP	1	13633.5	14294.1	95.38	PASS	30-150	39914.1	43899.8	90.92	PASS	30-150
CCV11	CCV	1	15211.6	14294.1	106.42	PASS	30-150	46005.5	43899.8	104.8	PASS	30-150
CCB11	CCB	1	15285	14294.1	106.93	PASS	30-150	46086.9	43899.8	104.98	PASS	30-150
ICSA5	ICSA	1	15966.7	14294.1	111.7	PASS	30-150	48079.2	43899.8	109.52	PASS	30-150
ICSAB5	ICSAB	1	15806.6	14294.1	110.58	PASS	30-150	47497.6	43899.8	108.2	PASS	30-150
CCV12	CCV	1	16124.7	14294.1	112.81	PASS	30-150	47721.6	43899.8	108.71	PASS	30-150
CCB12	CCB	1	15059.2	14294.1	105.35	PASS	30-150	44648.6	43899.8	101.71	PASS	30-150
CCV13	CCV	1	15600.8	14294.1	109.14	PASS	30-150	46678.5	43899.8	106.33	PASS	30-150
CCB13	CCB	1	14205.1	14294.1	99.38	PASS	30-150	44287.6	43899.8	100.88	PASS	30-150
CCV14	CCV	1	15376.2	14294.1	107.57	PASS	30-150	45242.3	43899.8	103.06	PASS	30-150
CCB14	CCB	1	14460.9	14294.1	101.17	PASS	30-150	43756.1	43899.8	99.67	PASS	30-150
CCV15	CCV	1	15290.5	14294.1	106.97	PASS	30-150	45009.4	43899.8	102.53	PASS	30-150
CCB15	CCB	1	14453.1	14294.1	101.11	PASS	30-150	43386.2	43899.8	98.83	PASS	30-150
ICSA6	ICSA	1	14919.1	14294.1	104.37	PASS	30-150	42999.7	43899.8	97.95	PASS	30-150
ICSAB6	ICSAB	1	14748.9	14294.1	103.18	PASS	30-150	44087	43899.8	100.43	PASS	30-150
CCV16	CCV	1	15352.8	14294.1	107.41	PASS	30-150	45847.3	43899.8	104.44	PASS	30-150
CCB16	CCB	1	14814.5	14294.1	103.64	PASS	30-150	43748.3	43899.8	99.65	PASS	30-150
CCV17	CCV	1	15094.8	14294.1	105.6	PASS	30-150	44149.3	43899.8	100.57	PASS	30-150
CCB17	CCB	1	14361.9	14294.1	100.47	PASS	30-150	42747.9	43899.8	97.38	PASS	30-150

INTERNAL STANDARD: 241113A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]					72 Ge (ISTD) [1]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
CCV18	CCV	1	14963.5	14294.1	104.68	PASS	30-150	44431.2	43899.8	101.21	PASS	30-150
CCB18	CCB	1	14287.4	14294.1	99.95	PASS	30-150	42388	43899.8	96.56	PASS	30-150
ICSA7	ICSA	1	14522.1	14294.1	101.6	PASS	30-150	43544.4	43899.8	99.19	PASS	30-150
ICSAB7	ICSAB	1	14778.9	14294.1	103.39	PASS	30-150	44166.1	43899.8	100.61	PASS	30-150

INTERNAL STANDARD: 241113A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	103 Rh (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	423489.5	423489.5	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	427966.6	423489.5	101.06	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	430331.7	423489.5	101.62	PASS	30-150
Std3-5/50 ppb	ICAL	1	431192.4	423489.5	101.82	PASS	30-150
Std4-10/100 ppb	ICAL	1	435773.1	423489.5	102.9	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	438739.6	423489.5	103.6	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	443991.7	423489.5	104.84	PASS	30-150
Std7-100/1000 ppb	ICAL	1	443541.9	423489.5	104.74	PASS	30-150
Std8-200/2000 ppb	ICAL	1	446015.7	423489.5	105.32	PASS	30-150
ICV	ICV	1	435960.5	423489.5	102.94	PASS	30-150
ICB	ICB	1	427546	423489.5	100.96	PASS	30-150
LLCCV1	CCV	1	427834.9	423489.5	101.03	PASS	30-150
LLCCV2	CCV	1	430284.5	423489.5	101.6	PASS	30-150
MLCCV1	CCV	1	435896.8	423489.5	102.93	PASS	30-150
ICSA1	ICSA	1	429517.9	423489.5	101.42	PASS	30-150
ICSAB1	ICSAB	1	404979.1	423489.5	95.63	PASS	30-150
CCV1	CCV	1	428198	423489.5	101.11	PASS	30-150
CCB1	CCB	1	417575.9	423489.5	98.6	PASS	30-150
CCV2	CCV	1	428052.3	423489.5	101.08	PASS	30-150
CCB2	CCB	1	418184.2	423489.5	98.75	PASS	30-150
CCV3	CCV	1	425937.1	423489.5	100.58	PASS	30-150
CCB3	CCB	1	412692	423489.5	97.45	PASS	30-150
ICSA2	ICSA	1	420125.6	423489.5	99.21	PASS	30-150
ICSAB2	ICSAB	1	396863.5	423489.5	93.71	PASS	30-150
CCV4	CCV	1	446915.7	423489.5	105.53	PASS	30-150
CCB4	CCB	1	429905.6	423489.5	101.52	PASS	30-150
CCV5	CCV	1	404512.5	423489.5	95.52	PASS	30-150
CCB5	CCB	1	387588.4	423489.5	91.52	PASS	30-150
CCV6	CCV	1	449794.2	423489.5	106.21	PASS	30-150
CCB6	CCB	1	439849.2	423489.5	103.86	PASS	30-150
ICSA3	ICSA	1	446660.6	423489.5	105.47	PASS	30-150
ICSAB3	ICSAB	1	428619	423489.5	101.21	PASS	30-150
CCV7	CCV	1	447309.9	423489.5	105.62	PASS	30-150
CCB7	CCB	1	430397.8	423489.5	101.63	PASS	30-150
CCV8	CCV	1	406915.9	423489.5	96.09	PASS	30-150
CCB8	CCB	1	388809.8	423489.5	91.81	PASS	30-150
ICSA4	ICSA	1	395637.3	423489.5	93.42	PASS	30-150
ICSAB4	ICSAB	1	394113.5	423489.5	93.06	PASS	30-150
MB-114060	MBLK	1	410114.1	423489.5	96.84	PASS	30-150
LCS-114060	LCS	1	424194.3	423489.5	100.17	PASS	30-150
N069889-001B	SAMP	1	368767.8	423489.5	87.08	PASS	30-150

INTERNAL STANDARD: 241113A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	103 Rh (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
N069889-002B	SAMP	1	365697.9	423489.5	86.35	PASS	30-150
N069889-003B	SAMP	1	368840.7	423489.5	87.1	PASS	30-150
N069891-001C	SAMP	1	416266.1	423489.5	98.29	PASS	30-150
N069891-002C	SAMP	1	397064.2	423489.5	93.76	PASS	30-150
N069891-003C	SAMP	1	353225.9	423489.5	83.41	PASS	30-150
N069891-004C	SAMP	1	394462	423489.5	93.15	PASS	30-150
CCV9	CCV	1	443831.6	423489.5	104.8	PASS	30-150
CCB9	CCB	1	428958.8	423489.5	101.29	PASS	30-150
N069891-005C	SAMP	1	382170.1	423489.5	90.24	PASS	30-150
N069891-007C	SAMP	1	344604.3	423489.5	81.37	PASS	30-150
N069891-009C	SAMP	1	346785.4	423489.5	81.89	PASS	30-150
N069891-010C	SAMP	1	349787.8	423489.5	82.6	PASS	30-150
N069891-010C	SAMP	5	396457	423489.5	93.62	PASS	30-150
N069891-010C-PS	PS	1	351845.6	423489.5	83.08	PASS	30-150
N069891-010CMS	MS	1	351125.2	423489.5	82.91	PASS	30-150
N069891-010CMSD	MSD	1	351306.6	423489.5	82.96	PASS	30-150
N069891-011C	SAMP	1	345012.7	423489.5	81.47	PASS	30-150
CCV10	CCV	1	417745	423489.5	98.64	PASS	30-150
CCB10	CCB	1	397790.7	423489.5	93.93	PASS	30-150
N069891-012C	SAMP	1	337404.1	423489.5	79.67	PASS	30-150
N069891-014C	SAMP	1	335277.1	423489.5	79.17	PASS	30-150
N069891-015C	SAMP	1	342769.7	423489.5	80.94	PASS	30-150
N069891-016C	SAMP	1	340205	423489.5	80.33	PASS	30-150
CCV11	CCV	1	410521.7	423489.5	96.94	PASS	30-150
CCB11	CCB	1	416934.6	423489.5	98.45	PASS	30-150
ICSA5	ICSA	1	431079.9	423489.5	101.79	PASS	30-150
ICSAB5	ICSAB	1	401453.8	423489.5	94.8	PASS	30-150
CCV12	CCV	1	433882.2	423489.5	102.45	PASS	30-150
CCB12	CCB	1	413415.7	423489.5	97.62	PASS	30-150
CCV13	CCV	1	422819.5	423489.5	99.84	PASS	30-150
CCB13	CCB	1	394785.5	423489.5	93.22	PASS	30-150
CCV14	CCV	1	418577.2	423489.5	98.84	PASS	30-150
CCB14	CCB	1	405209.6	423489.5	95.68	PASS	30-150
CCV15	CCV	1	419935.7	423489.5	99.16	PASS	30-150
CCB15	CCB	1	404116.3	423489.5	95.43	PASS	30-150
ICSA6	ICSA	1	411422.7	423489.5	97.15	PASS	30-150
ICSAB6	ICSAB	1	388448.2	423489.5	91.73	PASS	30-150
CCV16	CCV	1	415552.7	423489.5	98.13	PASS	30-150
CCB16	CCB	1	398011.2	423489.5	93.98	PASS	30-150
CCV17	CCV	1	401165.6	423489.5	94.73	PASS	30-150
CCB17	CCB	1	383367.7	423489.5	90.53	PASS	30-150

INTERNAL STANDARD: 241113A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	103 Rh (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
CCV18	CCV	1	404650.2	423489.5	95.55	PASS	30-150
CCB18	CCB	1	386462.2	423489.5	91.26	PASS	30-150
ICSA7	ICSA	1	397238.9	423489.5	93.8	PASS	30-150
ICSAB7	ICSAB	1	378772.5	423489.5	89.44	PASS	30-150

INTERNAL STANDARD: 241114B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	1191089.2	1191089.2	100	PASS	30-150	21770.9	21770.9	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	1184451.8	1191089.2	99.44	PASS	30-150	21748.7	21770.9	99.9	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	1170985.8	1191089.2	98.31	PASS	30-150	21135.6	21770.9	97.08	PASS	30-150
Std3-5/50 ppb	ICAL	1	1192615.8	1191089.2	100.13	PASS	30-150	19877.4	21770.9	91.3	PASS	30-150
Std4-10/100 ppb	ICAL	1	1289879.4	1191089.2	108.29	PASS	30-150	21274.7	21770.9	97.72	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	1316171.4	1191089.2	110.5	PASS	30-150	21837.7	21770.9	100.31	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	1320566.7	1191089.2	110.87	PASS	30-150	21730.9	21770.9	99.82	PASS	30-150
Std7-100/1000 ppb	ICAL	1	1353006	1191089.2	113.59	PASS	30-150	22456.2	21770.9	103.15	PASS	30-150
Std8-200/2000 ppb	ICAL	1	1347632.9	1191089.2	113.14	PASS	30-150	22597.5	21770.9	103.8	PASS	30-150
ICV	ICV	1	1330615.5	1191089.2	111.71	PASS	30-150	21545	21770.9	98.96	PASS	30-150
ICB	ICB	1	1325091.4	1191089.2	111.25	PASS	30-150	20965.4	21770.9	96.3	PASS	30-150
LLCCV1	CCV	1	1316571	1191089.2	110.54	PASS	30-150	21093.4	21770.9	96.89	PASS	30-150
LLCCV2	CCV	1	1316820.7	1191089.2	110.56	PASS	30-150	21140.1	21770.9	97.1	PASS	30-150
MLCCV1	CCV	1	1333916.9	1191089.2	111.99	PASS	30-150	21459.4	21770.9	98.57	PASS	30-150
ICSA1	ICSA	1	1260755.3	1191089.2	105.85	PASS	30-150	25003.2	21770.9	114.85	PASS	30-150
ICSAB1	ICSAB	1	1281927	1191089.2	107.63	PASS	30-150	25105.5	21770.9	115.32	PASS	30-150
CCV1	CCV	1	1373615.7	1191089.2	115.32	PASS	30-150	22929.1	21770.9	105.32	PASS	30-150
CCB1	CCB	1	1341755.8	1191089.2	112.65	PASS	30-150	21996.7	21770.9	101.04	PASS	30-150
ICSA2	ICSA	1	1325137.9	1191089.2	111.25	PASS	30-150	22022.3	21770.9	101.15	PASS	30-150
ICSAB2	ICSAB	1	1343190.6	1191089.2	112.77	PASS	30-150	22034.5	21770.9	101.21	PASS	30-150
CCV2	CCV	1	1403149.4	1191089.2	117.8	PASS	30-150	24510.2	21770.9	112.58	PASS	30-150
CCB2	CCB	1	1383299.9	1191089.2	116.14	PASS	30-150	24055.1	21770.9	110.49	PASS	30-150
CCV3	CCV	1	1400553.4	1191089.2	117.59	PASS	30-150	24822.8	21770.9	114.02	PASS	30-150
CCB3	CCB	1	1366867.7	1191089.2	114.76	PASS	30-150	24562.5	21770.9	112.82	PASS	30-150
CCV4	CCV	1	1369022.2	1191089.2	114.94	PASS	30-150	24725	21770.9	113.57	PASS	30-150
CCB4	CCB	1	1338535.3	1191089.2	112.38	PASS	30-150	23467.7	21770.9	107.79	PASS	30-150
ICSA3	ICSA	1	1342910.6	1191089.2	112.75	PASS	30-150	23041.4	21770.9	105.84	PASS	30-150
ICSAB3	ICSAB	1	1345703.1	1191089.2	112.98	PASS	30-150	23052.6	21770.9	105.89	PASS	30-150
CCV5	CCV	1	1223838	1191089.2	102.75	PASS	30-150	20620.5	21770.9	94.72	PASS	30-150
CCB5	CCB	1	1222401	1191089.2	102.63	PASS	30-150	20487	21770.9	94.1	PASS	30-150
CCV6	CCV	1	1226116.4	1191089.2	102.94	PASS	30-150	20302.4	21770.9	93.25	PASS	30-150
CCB6	CCB	1	1210906	1191089.2	101.66	PASS	30-150	19689.4	21770.9	90.44	PASS	30-150
ICSA4	ICSA	1	1199118.5	1191089.2	100.67	PASS	30-150	19638.2	21770.9	90.2	PASS	30-150
ICSAB4	ICSAB	1	1207084.8	1191089.2	101.34	PASS	30-150	20010.9	21770.9	91.92	PASS	30-150
MB-114060	MBLK	1	1226603.4	1191089.2	102.98	PASS	30-150	19967.5	21770.9	91.72	PASS	30-150
LCS-114060	LCS	1	1233601.1	1191089.2	103.57	PASS	30-150	19772.9	21770.9	90.82	PASS	30-150
N069889-001B	SAMP	10	1201579.9	1191089.2	100.88	PASS	30-150	19261.1	21770.9	88.47	PASS	30-150
N069889-002B	SAMP	10	1198782.9	1191089.2	100.65	PASS	30-150	19887.4	21770.9	91.35	PASS	30-150
N069889-003B	SAMP	10	1195406.5	1191089.2	100.36	PASS	30-150	19975.3	21770.9	91.75	PASS	30-150
N069891-016C	SAMP	1	1044033.1	1191089.2	87.65	PASS	30-150	20085.4	21770.9	92.26	PASS	30-150
N069891-001C	SAMP	1	1213397.4	1191089.2	101.87	PASS	30-150	21400.4	21770.9	98.3	PASS	30-150

INTERNAL STANDARD: 241114B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
N069891-001C	SAMP	10	1217053.1	1191089.2	102.18	PASS	30-150	21240.2	21770.9	97.56	PASS	30-150
N069891-002C	SAMP	1	1137195.6	1191089.2	95.48	PASS	30-150	19858.5	21770.9	91.22	PASS	30-150
N069891-002C	SAMP	100	1227643.6	1191089.2	103.07	PASS	30-150	21232.4	21770.9	97.53	PASS	30-150
CCV7	CCV	1	1188246.4	1191089.2	99.76	PASS	30-150	21233.5	21770.9	97.53	PASS	30-150
CCB7	CCB	1	1181197.7	1191089.2	99.17	PASS	30-150	20591.6	21770.9	94.58	PASS	30-150
N069891-003C	SAMP	1	1012489	1191089.2	85.01	PASS	30-150	19386.9	21770.9	89.05	PASS	30-150
N069891-003C	SAMP	10	1131909.7	1191089.2	95.03	PASS	30-150	21066.7	21770.9	96.77	PASS	30-150
N069891-004C	SAMP	1	1137502.3	1191089.2	95.5	PASS	30-150	20059.9	21770.9	92.14	PASS	30-150
N069891-005C	SAMP	1	1123858.8	1191089.2	94.36	PASS	30-150	19285.6	21770.9	88.58	PASS	30-150
N069891-007C	SAMP	1	1020722.4	1191089.2	85.7	PASS	30-150	18045.4	21770.9	82.89	PASS	30-150
N069891-007C	SAMP	10	1204709.6	1191089.2	101.14	PASS	30-150	20659.5	21770.9	94.9	PASS	30-150
N069891-009C	SAMP	1	1067140.2	1191089.2	89.59	PASS	30-150	18189.9	21770.9	83.55	PASS	30-150
N069891-010C	SAMP	1	1069864.6	1191089.2	89.82	PASS	30-150	18461.4	21770.9	84.8	PASS	30-150
N069891-010C	SAMP	5	1206990.9	1191089.2	101.34	PASS	30-150	20831.9	21770.9	95.69	PASS	30-150
CCV8	CCV	1	1227499.7	1191089.2	103.06	PASS	30-150	21416	21770.9	98.37	PASS	30-150
CCB8	CCB	1	1206790.8	1191089.2	101.32	PASS	30-150	20517.1	21770.9	94.24	PASS	30-150
N069891-010C-PS	PS	1	1055441.8	1191089.2	88.61	PASS	30-150	18316.8	21770.9	84.13	PASS	30-150
N069891-010CMS	MS	1	1042464.4	1191089.2	87.52	PASS	30-150	18117.7	21770.9	83.22	PASS	30-150
N069891-010CMSD	MSD	1	1048336.7	1191089.2	88.02	PASS	30-150	18042	21770.9	82.87	PASS	30-150
N069891-011C	SAMP	1	1022778.9	1191089.2	85.87	PASS	30-150	18371.3	21770.9	84.38	PASS	30-150
N069891-011C	SAMP	10	1193726	1191089.2	100.22	PASS	30-150	20421.4	21770.9	93.8	PASS	30-150
N069891-012C	SAMP	1	1033424.2	1191089.2	86.76	PASS	30-150	17859.6	21770.9	82.03	PASS	30-150
N069891-014C	SAMP	1	1025226	1191089.2	86.08	PASS	30-150	17868.5	21770.9	82.08	PASS	30-150
N069891-014C	SAMP	10	1179152.9	1191089.2	99	PASS	30-150	20235.6	21770.9	92.95	PASS	30-150
N069891-015C	SAMP	1	1037450.7	1191089.2	87.1	PASS	30-150	17404.7	21770.9	79.94	PASS	30-150
N069891-015C	SAMP	10	1172436.5	1191089.2	98.43	PASS	30-150	19925.3	21770.9	91.52	PASS	30-150
CCV9	CCV	1	1188923.6	1191089.2	99.82	PASS	30-150	20151.1	21770.9	92.56	PASS	30-150
CCB9	CCB	1	1168943.2	1191089.2	98.14	PASS	30-150	19666.1	21770.9	90.33	PASS	30-150
ICSA5	ICSA	1	1182550.8	1191089.2	99.28	PASS	30-150	19210	21770.9	88.24	PASS	30-150
ICSAB5	ICSAB	1	1186812.1	1191089.2	99.64	PASS	30-150	19431.3	21770.9	89.25	PASS	30-150
CCV10	CCV	1	1110342	1191089.2	93.22	PASS	30-150	19425.8	21770.9	89.23	PASS	30-150
CCB10	CCB	1	1119085.6	1191089.2	93.95	PASS	30-150	18166.6	21770.9	83.44	PASS	30-150
CCV11	CCV	1	1181370.4	1191089.2	99.18	PASS	30-150	16737.3	21770.9	76.88	PASS	30-150
CCB11	CCB	1	1153249.1	1191089.2	96.82	PASS	30-150	16117.8	21770.9	74.03	PASS	30-150
CCV12	CCV	1	1144169.6	1191089.2	96.06	PASS	30-150	17286.8	21770.9	79.4	PASS	30-150
CCB12	CCB	1	1135851.7	1191089.2	95.36	PASS	30-150	16557.1	21770.9	76.05	PASS	30-150
ICSA6	ICSA	1	1134527.1	1191089.2	95.25	PASS	30-150	16571.6	21770.9	76.12	PASS	30-150
ICSAB6	ICSAB	1	1151271.2	1191089.2	96.66	PASS	30-150	16655	21770.9	76.5	PASS	30-150
CCV13	CCV	1	1075190.5	1191089.2	90.27	PASS	30-150	15420.5	21770.9	70.83	PASS	30-150
CCB13	CCB	1	1088502.2	1191089.2	91.39	PASS	30-150	14548.6	21770.9	66.83	PASS	30-150
CCV14	CCV	1	1060720.2	1191089.2	89.06	PASS	30-150	15004.6	21770.9	68.92	PASS	30-150

INTERNAL STANDARD: 241114B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	159 Tb (ISTD) [3]					45 Sc (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria	CPS	REF	%REC	Comment	Criteria
CCB14	CCB	1	1049589.4	1191089.2	88.12	PASS	30-150	14574.2	21770.9	66.94	PASS	30-150
CCV15	CCV	1	1052710	1191089.2	88.38	PASS	30-150	14856.7	21770.9	68.24	PASS	30-150
CCB15	CCB	1	1049862.8	1191089.2	88.14	PASS	30-150	13745.7	21770.9	63.14	PASS	30-150
ICSA7	ICSA	1	1035736.3	1191089.2	86.96	PASS	30-150	13571.1	21770.9	62.34	PASS	30-150
ICSAB7	ICSAB	1	1064663.6	1191089.2	89.39	PASS	30-150	13865.8	21770.9	63.69	PASS	30-150

INTERNAL STANDARD: 241114B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	16877.7	16877.7	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	16701.9	16877.7	98.96	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	16388.3	16877.7	97.1	PASS	30-150
Std3-5/50 ppb	ICAL	1	15737.6	16877.7	93.24	PASS	30-150
Std4-10/100 ppb	ICAL	1	16726.4	16877.7	99.1	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	16411.6	16877.7	97.24	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	16640.7	16877.7	98.6	PASS	30-150
Std7-100/1000 ppb	ICAL	1	16983.3	16877.7	100.63	PASS	30-150
Std8-200/2000 ppb	ICAL	1	17179	16877.7	101.79	PASS	30-150
ICV	ICV	1	16513.9	16877.7	97.84	PASS	30-150
ICB	ICB	1	16477.2	16877.7	97.63	PASS	30-150
LLCCV1	CCV	1	16539.5	16877.7	98	PASS	30-150
LLCCV2	CCV	1	16370.5	16877.7	96.99	PASS	30-150
MLCCV1	CCV	1	16549.5	16877.7	98.06	PASS	30-150
ICSA1	ICSA	1	18533.9	16877.7	109.81	PASS	30-150
ICSAB1	ICSAB	1	18581.7	16877.7	110.1	PASS	30-150
CCV1	CCV	1	18137.9	16877.7	107.47	PASS	30-150
CCB1	CCB	1	17674	16877.7	104.72	PASS	30-150
ICSA2	ICSA	1	17679.6	16877.7	104.75	PASS	30-150
ICSAB2	ICSAB	1	17462.7	16877.7	103.47	PASS	30-150
CCV2	CCV	1	19684.1	16877.7	116.63	PASS	30-150
CCB2	CCB	1	19070	16877.7	112.99	PASS	30-150
CCV3	CCV	1	19704.1	16877.7	116.75	PASS	30-150
CCB3	CCB	1	19523.9	16877.7	115.68	PASS	30-150
CCV4	CCV	1	19802	16877.7	117.33	PASS	30-150
CCB4	CCB	1	19236.9	16877.7	113.98	PASS	30-150
ICSA3	ICSA	1	18728.5	16877.7	110.97	PASS	30-150
ICSAB3	ICSAB	1	18420.4	16877.7	109.14	PASS	30-150
CCV5	CCV	1	16902.1	16877.7	100.14	PASS	30-150
CCB5	CCB	1	16838.7	16877.7	99.77	PASS	30-150
CCV6	CCV	1	16884.3	16877.7	100.04	PASS	30-150
CCB6	CCB	1	16151.3	16877.7	95.7	PASS	30-150
ICSA4	ICSA	1	16230.3	16877.7	96.16	PASS	30-150
ICSAB4	ICSAB	1	16490.6	16877.7	97.71	PASS	30-150
MB-114060	MBLK	1	16569.5	16877.7	98.17	PASS	30-150
LCS-114060	LCS	1	16304.8	16877.7	96.61	PASS	30-150
N069889-001B	SAMP	10	15963.4	16877.7	94.58	PASS	30-150
N069889-002B	SAMP	10	15921.1	16877.7	94.33	PASS	30-150
N069889-003B	SAMP	10	16220.3	16877.7	96.1	PASS	30-150
N069891-016C	SAMP	1	15545.2	16877.7	92.1	PASS	30-150
N069891-001C	SAMP	1	16969.9	16877.7	100.55	PASS	30-150

INTERNAL STANDARD: 241114B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
N069891-001C	SAMP	10	16872.1	16877.7	99.97	PASS	30-150
N069891-002C	SAMP	1	15764.3	16877.7	93.4	PASS	30-150
N069891-002C	SAMP	100	17604	16877.7	104.3	PASS	30-150
CCV7	CCV	1	16924.3	16877.7	100.28	PASS	30-150
CCB7	CCB	1	16675.2	16877.7	98.8	PASS	30-150
N069891-003C	SAMP	1	14666.6	16877.7	86.9	PASS	30-150
N069891-003C	SAMP	10	16527.3	16877.7	97.92	PASS	30-150
N069891-004C	SAMP	1	15944.5	16877.7	94.47	PASS	30-150
N069891-005C	SAMP	1	15333.9	16877.7	90.85	PASS	30-150
N069891-007C	SAMP	1	14330.8	16877.7	84.91	PASS	30-150
N069891-007C	SAMP	10	16560.7	16877.7	98.12	PASS	30-150
N069891-009C	SAMP	1	14482	16877.7	85.81	PASS	30-150
N069891-010C	SAMP	1	14721.1	16877.7	87.22	PASS	30-150
N069891-010C	SAMP	5	16845.4	16877.7	99.81	PASS	30-150
CCV8	CCV	1	17423.7	16877.7	103.24	PASS	30-150
CCB8	CCB	1	16896.5	16877.7	100.11	PASS	30-150
N069891-010C-PS	PS	1	14842.3	16877.7	87.94	PASS	30-150
N069891-010CMS	MS	1	14247.3	16877.7	84.41	PASS	30-150
N069891-010CMSD	MSD	1	14487.6	16877.7	85.84	PASS	30-150
N069891-011C	SAMP	1	14430.9	16877.7	85.5	PASS	30-150
N069891-011C	SAMP	10	16442.8	16877.7	97.42	PASS	30-150
N069891-012C	SAMP	1	14595.4	16877.7	86.48	PASS	30-150
N069891-014C	SAMP	1	14397.5	16877.7	85.3	PASS	30-150
N069891-014C	SAMP	10	16268.1	16877.7	96.39	PASS	30-150
N069891-015C	SAMP	1	14148.4	16877.7	83.83	PASS	30-150
N069891-015C	SAMP	10	16187	16877.7	95.91	PASS	30-150
CCV9	CCV	1	16549.5	16877.7	98.06	PASS	30-150
CCB9	CCB	1	16263.7	16877.7	96.36	PASS	30-150
ICSA5	ICSA	1	16349.3	16877.7	96.87	PASS	30-150
ICSAB5	ICSAB	1	16364.9	16877.7	96.96	PASS	30-150
CCV10	CCV	1	16215.9	16877.7	96.08	PASS	30-150
CCB10	CCB	1	15857.7	16877.7	93.96	PASS	30-150
CCV11	CCV	1	14559.9	16877.7	86.27	PASS	30-150
CCB11	CCB	1	14488.7	16877.7	85.85	PASS	30-150
CCV12	CCV	1	14899	16877.7	88.28	PASS	30-150
CCB12	CCB	1	14613.2	16877.7	86.58	PASS	30-150
ICSA6	ICSA	1	14445.3	16877.7	85.59	PASS	30-150
ICSAB6	ICSAB	1	14866.8	16877.7	88.09	PASS	30-150
CCV13	CCV	1	14055	16877.7	83.28	PASS	30-150
CCB13	CCB	1	13487.8	16877.7	79.91	PASS	30-150
CCV14	CCV	1	13284.3	16877.7	78.71	PASS	30-150

INTERNAL STANDARD: 241114B

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
CCB14	CCB	1	13424.4	16877.7	79.54	PASS	30-150
CCV15	CCV	1	13532.3	16877.7	80.18	PASS	30-150
CCB15	CCB	1	12828.4	16877.7	76.01	PASS	30-150
ICSA7	ICSA	1	12749.5	16877.7	75.54	PASS	30-150
ICSAB7	ICSAB	1	13001.9	16877.7	77.04	PASS	30-150

INTERNAL STANDARD: 241119A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
Cal Blk	IBLK	1	17615.1	17615.1	100	PASS	30-150
Std1-0.1/1 ppb	ICAL	1	17925.4	17615.1	101.76	PASS	30-150
Std2-0.5/5 ppb	ICAL	1	17552.8	17615.1	99.65	PASS	30-150
Std3-5/50 ppb	ICAL	1	17826.4	17615.1	101.2	PASS	30-150
Std4-10/100 ppb	ICAL	1	18061.2	17615.1	102.53	PASS	30-150
Std5-4.0/20/200 ppb	ICAL	1	17777.5	17615.1	100.92	PASS	30-150
Std6-8.0/40/400 ppb	ICAL	1	17850.9	17615.1	101.34	PASS	30-150
Std7-100/1000 ppb	ICAL	1	18319.2	17615.1	104	PASS	30-150
Std8-200/2000 ppb	ICAL	1	18590.6	17615.1	105.54	PASS	30-150
ICV	ICV	1	17580.6	17615.1	99.8	PASS	30-150
ICB	ICB	1	17301.4	17615.1	98.22	PASS	30-150
LLCCV1	CCV1	1	17491.6	17615.1	99.3	PASS	30-150
LLCCV2	CCV1	1	17010	17615.1	96.56	PASS	30-150
MLCCV1	CCV	1	17193.5	17615.1	97.61	PASS	30-150
ICSA1	ICSA	1	20082.4	17615.1	114.01	PASS	30-150
ICSA1	ICSA	1	18836.4	17615.1	106.93	PASS	30-150
ICSAB1	ICSAB	1	19292.5	17615.1	109.52	PASS	30-150
CCV1	CCV	1	16626.3	17615.1	94.39	PASS	30-150
CCB1	CCB	1	15874.4	17615.1	90.12	PASS	30-150
CCV2	CCV	1	11278.4	17615.1	64.03	PASS	30-150
CCB2	CCB	1	11485.2	17615.1	65.2	PASS	30-150
CCV3	CCV	1	12217.9	17615.1	69.36	PASS	30-150
CCB3	CCB	1	11838.8	17615.1	67.21	PASS	30-150
CCV4	CCV	1	11815.4	17615.1	67.08	PASS	30-150
CCB4	CCB	1	11727.6	17615.1	66.58	PASS	30-150
ICSA2	ICSA	1	11576.3	17615.1	65.72	PASS	30-150
ICSAB2	ICSAB	1	13872.6	17615.1	78.75	PASS	30-150
N069891-015C	SAMP	1	12740.6	17615.1	72.33	PASS	30-150
N069891-015C	SAMP	1	11238.3	17615.1	63.8	PASS	30-150
CCV5	CCV	1	10725.8	17615.1	60.89	PASS	30-150
CCB5	CCB	1	10215.4	17615.1	57.99	PASS	30-150
CCV6	CCV	1	10771.4	17615.1	61.15	PASS	30-150
CCB6	CCB	1	10690.2	17615.1	60.69	PASS	30-150
CCV7	CCV	1	10733.6	17615.1	60.93	PASS	30-150
CCB7	CCB	1	10455.6	17615.1	59.36	PASS	30-150
CCV8	CCV	1	10412.3	17615.1	59.11	PASS	30-150
CCB8	CCB	1	9995.3	17615.1	56.74	PASS	30-150
ICSA3	ICSA	1	10082	17615.1	57.23	PASS	30-150
ICSAB3	ICSAB	1	11236.1	17615.1	63.79	PASS	30-150
CCV9	CCV	1	10292.2	17615.1	58.43	PASS	30-150
CCB9	CCB	1	10335.5	17615.1	58.67	PASS	30-150

INTERNAL STANDARD: 241119A

Instrument ID: NV00922-ICP8

Sample Name	Type	DF	72 Ge (ISTD) [2]				
			CPS	REF	%REC	Comment	Criteria
CCV10	CCV	1	10104.3	17615.1	57.36	PASS	30-150
CCB10	CCB	1	10338.9	17615.1	58.69	PASS	30-150
ICSA4	ICSA	1	10569	17615.1	60	PASS	30-150
ICSAB4	ICSAB	1	11663.1	17615.1	66.21	PASS	30-150
CCV11	CCV	1	11102.7	17615.1	63.03	PASS	30-150
CCB11	CCB	1	10227.7	17615.1	58.06	PASS	30-150
ICSA5	ICSA	1	10438.9	17615.1	59.26	PASS	30-150
ICSAB5	ICSAB	1	11519.7	17615.1	65.4	PASS	30-150

SERIAL DILUTION/ POST DIGESTION SPIKE



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ASSET Laboratories

ICP-MS-Metals in Water

Work Order No.: N069891
 Test Method: EPA 6020
 Analysis Date: 11/14/2024

Dilution Test Summary

Matrix: Groundwater
 Batch No.: 114060

Instrument ID: NV00922-ICP8 (ICPMS-03)
 Instrument Description: Agilent 7800


Comments:

Analyzed By: Diane Jetajobe

Dilution test is not applicable to several analytes. The calculated concentration is <25RL.

Sample ID	Analyte	Symbol	Units	Calc Val	Oqual	SAMPRefVal	%DIFF	%DIFFlimit
N069891-010C DT 5x	Arsenic	As	µg/L	1.256096	NA	1.595497	21.27%	10
N069891-010C DT 5x	Manganese	Mn	µg/L	44.44011	PASS	44.07276	0.83%	10
N069891-010C DT 5x	Molybdenum	Mo	µg/L	10.28996	NA	10.35516	0.63%	10
N069891-010C DT 5x	Selenium	Se	µg/L	0	NA	0		10
N069891-010C DT 5x	Chromium	Cr	µg/L	0	NA	0.1260805	100.00%	10
N069891-010C DT 5x	Barium	Ba	µg/L	36.81708	PASS	36.87617	0.16%	10

Reviewed by:

 1/5/2025

Note: NA - Not Applicable

11/26/24 19:32

N069891_6020_114060_DT

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: N069891-010C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195638						
Client ID: ZZZZZZ	Batch ID: 114060	TestNo: EPA 6020	EPA 3010A	Analysis Date: 11/14/2024	SeqNo: 6313672						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	12.089	0.10	10.00	1.595	105	80	120				
Manganese	133.165	0.50	100.0	44.07	89.1	80	120				
Molybdenum	21.200	0.50	10.00	10.36	108	80	120				
Selenium	9.508	0.50	10.00	0	95.1	80	120				

Sample ID: N069891-010C-PS	SampType: PS	TestCode: 6020_DIS_TP	Units: µg/L	Prep Date:	RunNo: 195742						
Client ID: ZZZZZZ	Batch ID: 114060	TestNo: EPA 6020	EPA 3010A	Analysis Date: 11/15/2024	SeqNo: 6320030						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Barium	45.866	1.0	10.00	36.88	89.9	80	120				
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Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- (M) Test is modified

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N069891
Project: PG&E Topock - PCM, 30211191

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: N069891-010C-PS	SampType: PS	TestCode: 6020DIS_CrP	Units: µg/L	Prep Date:	RunNo: 195644						
Client ID: ZZZZZZ	Batch ID: 114060	TestNo: EPA 6020	EPA 3010A	Analysis Date: 11/14/2024	SeqNo: 6314113						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.493	1.0	10.00	0.1261	93.7	80	120				

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | (M) Test is modified |

MDL STUDY



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Method Detection Limit

Analytical Method: **EPA 6020B**
 Digestion Method: **3010**
 Date of Analysis: **2/15-2/19/2024**
 Digestion Date: **2/15-2/19/2024**
 Instrument Name: **NV0922-ICP8**
 Analysts: **DJ**

Matrix: **Water**
 Unit: **ug/L**

Analyte	1	2	3	4	5	6	7	AMT SPIKED, ppb	SD	MDLs	PQL	MDL
ANTIMONY	0.543	0.521	0.559	0.527	0.573	0.559	0.572	0.50	0.0208	0.0653	0.50	0.0653
ARSENIC	0.102	0.123	0.107	0.116	0.096	0.161	0.115	0.10	0.0212	0.0668	0.10	0.0668
BARIUM	1.103	1.065	1.083	1.081	1.094	1.066	1.060	1.00	0.0159	0.0499	1.00	0.0499
BERYLLIUM	0.533	0.524	0.557	0.541	0.564	0.565	0.502	0.50	0.0233	0.0733	0.50	0.0733
CADMIUM	0.523	0.562	0.529	0.559	0.491	0.544	0.533	0.50	0.0243	0.0763	0.50	0.0763
CHROMIUM	1.015	0.996	1.000	1.100	1.030	1.081	1.052	1.00	0.0402	0.1264	1.00	0.1264
COBALT	0.524	0.523	0.541	0.559	0.528	0.534	0.551	0.50	0.0138	0.0433	0.50	0.0433
COPPER	1.043	1.028	1.026	1.016	1.068	1.098	1.021	1.00	0.0301	0.0947	1.00	0.0947
IRON	11.041	10.660	10.783	11.168	10.989	10.919	10.802	10.00	0.1734	0.5449	10.00	0.5449
LEAD	1.076	1.068	1.091	1.077	1.083	1.040	1.040	1.00	0.0203	0.0637	1.00	0.0637
MANGANESE	0.558	0.529	0.519	0.541	0.532	0.525	0.554	0.50	0.0148	0.0465	0.50	0.0465
MOLYBDENUM	0.564	0.571	0.574	0.537	0.518	0.554	0.550	0.50	0.0200	0.0629	0.50	0.0629
NICKEL	1.025	1.059	1.057	0.947	0.974	1.069	1.036	1.00	0.0465	0.1461	1.00	0.1461
SELENIUM	0.679	0.622	0.547	0.429	0.439	0.552	0.506	0.50	0.0911	0.2863	0.50	0.2863
SILVER	0.525	0.538	0.555	0.545	0.551	0.530	0.518	0.50	0.0140	0.0439	0.50	0.0439
THALLIUM	0.503	0.493	0.491	0.555	0.525	0.504	0.499	0.50	0.0227	0.0713	0.50	0.0713
URANIUM	0.517	0.513	0.528	0.542	0.526	0.533	0.523	0.50	0.0097	0.0306	0.50	0.0306
VANADIUM	1.081	1.076	1.027	1.054	1.069	1.043	1.080	1.00	0.0209	0.0658	1.00	0.0658
ZINC	10.646	10.643	10.661	10.514	10.927	10.516	10.419	10.00	0.1631	0.5126	10.00	0.7534
ALUMINUM	10.305	10.064	10.146	10.336	10.592	10.459	10.670	10.00	0.2224	0.6990	10.00	0.6990



Method Detection Limit (Blanks)

Analyte	1	2	3	4	5	6	7	Mean	SD	MDLb
ANTIMONY	0.011	0.009	0.001	0.001	0.003	0.018	0.012	0.0080	0.0065	0.0285
ARSENIC	0.021	0.013	0.004	0.008	0.000	0.001	0.000	0.0067	0.0079	0.0316
BARIUM	0.000	0.018	0.014	0.000	0.003	0.001	0.003	0.0054	0.0072	0.0280
BERYLLIUM	0.003	0.005	0.007	0.002	0.005	0.014	0.003	0.0057	0.0039	0.0179
CADMIUM	0.000	0.002	0.000	0.000	0.000	0.001	0.000	0.0004	0.0007	0.0026
CHROMIUM	0.000	0.000	0.000	0.000	0.000	0.001	0.004	0.0008	0.0016	0.0059
COBALT	0.000	0.000	0.000	0.000	0.000	0.003	0.001	0.0006	0.0012	0.0042
COPPER	0.000	0.000	0.069	0.000	0.010	0.000	0.000	0.0113	0.0258	0.0924
IRON	0.000	0.000	0.000	0.236	0.187	0.020	0.112	0.0792	0.0996	0.3922
LEAD	0.001	0.000	0.000	0.002	0.001	0.001	0.001	0.0011	0.0009	0.0037
MANGANESE	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.0008	0.0020	0.0071
MOLYBDENUM	0.017	0.013	0.007	0.015	0.004	0.022	0.009	0.0126	0.0062	0.0321
NICKEL	0.000	0.000	0.062	0.000	0.000	0.017	0.013	0.0132	0.0228	0.0849
SELENIUM	0.007	0.027	0.000	0.000	0.019	0.000	0.013	0.0093	0.0107	0.0428
SILVER	0.004	0.002	0.002	0.000	0.000	0.001	0.000	0.0012	0.0014	0.0057
THALLIUM	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.0003	0.0008	0.0028
URANIUM	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.0001	0.0004	0.0013
VANADIUM	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.0003	0.0004	0.0016
ZINC	0.000	0.000	0.257	0.175	0.513	0.000	0.000	0.1350	0.1968	0.7534
ALUMINUM	0.000	0.000	0.106	0.000	0.000	0.170	0.295	0.0816	0.1160	0.4460

Note: Higher value between **MDLs** and **MDLb** will be used.



LOD PQL VERIFICATION 2024

Analytical Method: EPA 6020 / 200.8
Digestion Method: EPA 3010A
Date of Analysis: 1/20/2024
Digestion Date: 1/20/2024
Instrument Name: ICPMS3
Analysts: DBJ

Matrix: Water
Units: ug/L

N062388

Analyte	MDLs	LOD	ACTUAL LOD	PQL	ACTUAL PQL	% RECOVERY
ANTIMONY	0.0652	0.025	0.288	0.50	0.552	110
ARSENIC	0.0667	0.050	0.055	0.10	0.107	107
BARIUM	0.0498	0.500	0.547	1.00	1.049	105
BERYLLIUM	0.0732	0.250	0.253	0.50	0.502	100
CADMIUM	0.0763	0.250	0.255	0.50	0.498	100
CHROMIUM	0.1263	0.500	0.536	1.00	1.048	105
COBALT	0.0433	0.250	0.261	0.50	0.518	104
COPPER	0.0946	0.100	0.620	1.00	0.941	94
IRON	0.5444	5.000	5.219	10.00	10.531	105
LEAD	0.0636	0.500	0.513	1.00	1.035	104
MANGANESE	0.0464	0.250	0.261	0.50	0.602	120
MOLYBDENUM	0.0628	0.250	0.275	0.50	0.534	107
NICKEL	0.1460	0.500	0.492	1.00	1.184	118
SELENIUM	0.2861	0.250	0.272	0.50	0.536	107
SILVER	0.0438	0.250	0.277	0.50	0.534	107
THALLIUM	0.0712	0.250	0.264	0.50	0.508	102
URANIUM	0.0306	0.250	0.261	0.50	0.523	105
VANADIUM	0.0657	0.500	0.557	1.00	1.063	106
ZINC	0.5121	5.000	5.394	10.00	10.481	105
ALUMINUM	0.6983	5.000	5.519	10.00	10.395	104



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number : 520379
Report Level : II
Report Date : 12/05/2024

Analytical Report *prepared for:*

Sonny Lorenzo
Asset Laboratories
11110 Artersia Blvd,
Suite B
Cerritos, CA 90703

Location: N069924

Authorized for release by:

Quynhgiao Le, Project Manager
714-7716900
quynhgiao.le@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

Sample Summary

Sonny Lorenzo
 Asset Laboratories
 11110 Artersia
 Blvd,
 Suite B
 Cerritos, CA 90703

Lab Job #: 520379
 Location: N069924
 Date Received: 11/14/24

Sample ID	Lab ID	Collected	Matrix
N069924-001A / MW-34-055-Q424	520379-001	11/12/24 10:18	Water
N069924-002A / MW-34-080-Q424	520379-002	11/12/24 09:48	Water
N069924-003A / MW-34-100-Q424	520379-003	11/12/24 09:13	Water
N069924-004A / MW-915-Q424	520379-004	11/12/24 09:23	Water
N069924-005A / MW-39-040-Q424	520379-005	11/12/24 12:51	Water
N069924-006A / MW-39-050-Q424	520379-006	11/12/24 11:19	Water
N069924-007A / MW-39-060-Q424	520379-007	11/12/24 10:34	Water
N069924-008A / MW-39-070-Q424	520379-008	11/12/24 13:48	Water
N069924-009A / MW-39-080-Q424	520379-009	11/12/24 12:06	Water
N069924-010A / MW-39-100-Q424	520379-010	11/12/24 09:21	Water
N069924-011A / MW-917-Q424	520379-011	11/12/24 09:31	Water
N069924-012A / TW-02D-Q424	520379-012	11/12/24 09:55	Water
N069924-013A / TW-02S-Q424	520379-013	11/12/24 09:20	Water
N069924-014A / TW-03D-Q424	520379-014	11/12/24 10:28	Water
N069924-015A / MW-82-046-Q424	520379-015	11/12/24 11:28	Water
N069924-016A / MW-82-112-Q424	520379-016	11/12/24 11:59	Water
N069924-017A / MW-82-168-Q424	520379-017	11/12/24 12:35	Water
N069924-018A / MW-82-198-Q424	520379-018	11/12/24 13:09	Water
N069924-019A / MW-46-175-Q424	520379-019	11/12/24 14:02	Water
N069924-020A / MW-44-070-Q424	520379-020	11/12/24 12:35	Water
N069924-021A / MW-44-115-Q424	520379-021	11/12/24 11:20	Water
N069924-022A / MW-918-Q424	520379-022	11/12/24 11:30	Water
N069924-023A / MW-44-125-Q424	520379-023	11/12/24 23:58	Water
N069924-024A / MW-45-095A-Q424	520379-024	11/12/24 13:20	Water

Case Narrative

Asset Laboratories
11110 Artersia Blvd,
Suite B
Cerritos, CA 90703
Sonny Lorenzo

Lab Job Number: 520379
Location: N069924
Date Received: 11/14/24

- This data package contains sample and QC results for twenty four water samples, requested for the above referenced project on 11/14/24. The samples were received cold and intact.
- Level II is also requested.

520379

CHAIN-OF-CUSTODY RECORD

ASSET Laboratories

3151-3153 W Post Rd., Las Vegas, NV 89118
www.alt-lebs.com
TEL: 7023072659 FAX: 7023072691



QC Level: Level IV

Subcontractor:

Enthalpy Analytical
931 W. Barkley Ave.
Orange, CA 92868

TEL: (714) 771-6900
FAX: (714) 538-1209
Acct #:

Field Sampler: Riggie Tep

13-Nov-24

Sample ID	Matrix	Date Collected	Bottle Type	SM5310B	Requested Tests
N069924-001A / MW-34-055-Q424	Groundwater	11/12/2024 10:18:00 AM	8OZA	1	
N069924-002A / MW-34-080-Q424	Groundwater	11/12/2024 9:48:00 AM	8OZA	1	
N069924-003A / MW-34-100-Q424	Groundwater	11/12/2024 9:13:00 AM	8OZA	1	MS/MSD
N069924-004A / MW-915-Q424	Groundwater	11/12/2024 9:23:00 AM	8OZA	1	
N069924-005A / MW-39-040-Q424	Groundwater	11/12/2024 12:51:00 PM	8OZA	1	
N069924-006A / MW-39-050-Q424	Groundwater	11/12/2024 11:19:00 AM	8OZA	1	
N069924-007A / MW-39-060-Q424	Groundwater	11/12/2024 10:34:00 AM	8OZA	1	
N069924-008A / MW-39-070-Q424	Groundwater	11/12/2024 1:48:00 PM	8OZA	1	
N069924-009A / MW-39-080-Q424	Groundwater	11/12/2024 12:06:00 PM	8OZA	1	MS/MSD
N069924-010A / MW-39-100-Q424	Groundwater	11/12/2024 9:21:00 AM	8OZA	1	
N069924-011A / MW-917-Q424	Groundwater	11/12/2024 9:31:00 AM	8OZA	1	
N069924-012A / TW-02D-Q424	Groundwater	11/12/2024 9:55:00 AM	8OZA	1	
N069924-013A / TW-02S-Q424	Groundwater	11/12/2024 9:20:00 AM	8OZA	1	
N069924-014A / TW-03D-Q424	Groundwater	11/12/2024 10:28:00 AM	8OZA	1	
N069924-015A / MW-82-046-Q424	Groundwater	11/12/2024 11:28:00 AM	8OZA	1	
N069924-016A / MW-82-112-Q424	Groundwater	11/12/2024 11:59:00 AM	8OZA	1	
N069924-017A / MW-82-168-Q424	Groundwater	11/12/2024 12:35:00 PM	8OZA	1	
N069924-018A / MW-82-198-Q424	Groundwater	11/12/2024 1:09:00 PM	8OZA	1	

General Comments: PLEASE EMAIL SAMPLE RECEIPT ACKNOWLEDGEMENT TO THE PM. ALWAYS CC: sonny.lorenzo@assetlaboratories.com

Please use PO# N69924A. Please email invoices and Account Receivable Statements to elvira@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by Standard TAT

Please analyze for TOC by SM5310B. EDD requirement Labspec7 edata.

GLS#: 562256094

Relinquished by: <u>E Fanegof</u>	Date/Time: <u>11/13/2024 1600</u>	Received by: <u>Trish Kelly</u>	Date/Time: <u>11/14/24 1000</u>
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____



ASSET Laboratories

3151-3153 W Post Rd., Las Vegas, NV 89118
www.all-labs.com
TEL: 7023072659 FAX: 7023072691

CHAIN-OF-CUSTODY RECORD

QC Level: Level IV

Subcontractor:

Enthalpy Analytical
931 W. Barkley Ave.
Orange, CA 92868

TEL: (714) 771-6900
FAX: (714) 538-1209
Acct #:

Field Sampler: Riggie Tep

13-Nov-24

Sample ID	Matrix	Date Collected	Bottle Type	SM5310B	Requested Tests
N069924-019A / MW-46-175-Q424	Groundwater	11/12/2024 2:02:00 PM	8OZA	1	
N069924-020A / MW-44-070-Q424	Groundwater	11/12/2024 12:35:00 PM	8OZA	1	
N069924-021A / MW-44-115-Q424	Groundwater	11/12/2024 11:20:00 AM	8OZA	1	
N069924-022A / MW-918-Q424	Groundwater	11/12/2024 11:30:00 AM	8OZA	1	
N069924-023A / MW-44-125-Q424	Groundwater	11/12/2024 11:58:00 PM	8OZA	1	
N069924-024A / MW-45-095a-Q424	Groundwater	11/12/2024 1:20:00 PM	8OZA	1	

General Comments:

PLEASE EMAIL SAMPLE RECEIPT ACKNOWLEDGEMENT TO THE PM. ALWAYS CC: sonny.lorenzo@assetlaboratories.com

Please use PO#:N69924A Please email Invoices and Account Receivable Statements to elvira@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.iv@assetlaboratories.com by: Standard TAT

Please analyze for TOC by SM5310B. EDD requirement Labspec7 edata.

Date/Time		Date/Time	
Relinquished by:	11/13/2024 1600	Received by:	11/14/24 1000
Relinquished by:		Received by:	

GLS#: 562256094

SAMPLE RECEIPT CHECKLIST


Section 1: General Info

 Date Received: 11/14/24 WO# 520379 Client: Asset Labs
Section 2: Shipping / Custody

 Are custody seals present? Yes No

 Custody seals intact on arrival? N/A Yes No On cooler / box On samples

Shipping Info: _____

Section 3a: Condition / Packaging
 Outside 0.0 - 6.0°C (0.0 - 10.0°C for microbiology) (PM notified)

 Date Opened 11/14/24 By (initials) TLK Type of ice used: Wet Blue/Gel None

 Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatures)

 Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures)

 If no cooler: Observed/Adjusted Temp (°C): _____ / _____ Thermometer/IR Gun: IR11 CF: +0.1

 Cooler Temp (°C) #1: 4.8 / 4.9 #2: _____ / _____ #3: _____ / _____ #4: _____ / _____ #5: _____ / _____ #6: _____ / _____

Section 3b: Microbiology Samples
 No microbiology samples submitted (skip 3b)

 Within temp range 0.0 - 10.0°C or received on ice directly from field.

 Adequate headspace for microbiology analysis.

Section 3c: Air Samples
 No air samples submitted (skip 3c)

 1.4L Canisters 6L Canisters Tedlar Bags MCE Cassettes Sorbent Tubes Other _____

Section 4: Containers / Labels / Samples

	YES	NO	N/A
1) Were custody papers present, filled properly, and legible?	x		
2) Is the sampler's name present on the CoC?	x		
3) Were containers received in good condition (unbroken / unopened / uncompromised)?	x		
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)	x		
5) Were all of, and only, the correct samples received?	x		
6) Are sample labels present, legible, and in agreement with the CoC?	x		
7) Does the container count match the CoC?	x		
8) Was sufficient sample volume / mass received for the analyses requested?	x		
9) Were samples received in proper containers for the analyses requested?	x		
10) Were samples received with > 1/2 holding time remaining?	x		
11) Are samples properly preserved as indicated by CoC / labels?	x		
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?			x
13) Are VOA vials free from headspace/bubbles > 6mm?			x

Section 5: Explanations / Comments
 PM notified

Date Logged 11/14/24 By (print) Tris Kelly (sign) *Tris Kelly*
 Date Labeled 11/14/24 By (print) Nicole Mendoza (sign) *Nicole Mendoza*



800-322-5555
www.gls-us.com

Ship From
ADVANCED TECHNOLOGY
LABORATORIES, INC.
MARLON CARTIN
3151 W. POST RD.
LAS VEGAS, NV 89118

Tracking #: 562256094

PDS

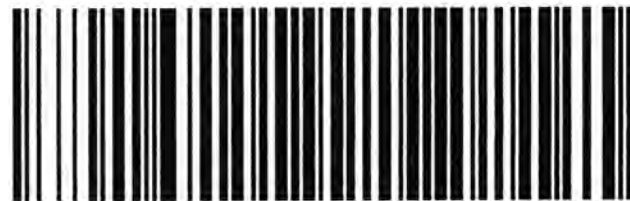


Ship To
ENHALPY ANALYTICAL
SAMPLE RECEIVING
931 W. BARKLEY AVE
ORANGE, CA 92868

ORANGE

S10219D

COD: \$0.00
Weight: 0 lb(s)
Reference:



19702793

Delivery Instructions:

Signature Type: STANDARD

ORC CA927-RD0

Print Date: 11/13/2024 11:17 AM

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

Analysis Results for 520379

Sonny Lorenzo
 Asset Laboratories
 11110 Artersia Blvd,
 Suite B
 Cerritos, CA 90703

Lab Job #: 520379
 Location: N069924
 Date Received: 11/14/24

Sample ID: N069924-001A / MW-34-055-Q424 **Lab ID:** 520379-001 **Collected:** 11/12/24 10:18
Matrix: Water

520379-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	2.4		mg/L	1.0	1	356818	12/02/24	12/02/24	CKN

Sample ID: N069924-002A / MW-34-080-Q424 **Lab ID:** 520379-002 **Collected:** 11/12/24 09:48
Matrix: Water

520379-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	3.5		mg/L	1.0	1	356818	12/02/24	12/02/24	CKN

Sample ID: N069924-003A / MW-34-100-Q424 **Lab ID:** 520379-003 **Collected:** 11/12/24 09:13
Matrix: Water

520379-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	3.0		mg/L	1.0	1	356818	12/02/24	12/02/24	CKN

Sample ID: N069924-004A / MW-915-Q424 **Lab ID:** 520379-004 **Collected:** 11/12/24 09:23
Matrix: Water

520379-004 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	3.1		mg/L	1.0	1	356818	12/02/24	12/02/24	CKN

Sample ID: N069924-005A / MW-39-040-Q424 **Lab ID:** 520379-005 **Collected:** 11/12/24 12:51
Matrix: Water

520379-005 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	6.4		mg/L	1.0	1	356818	12/02/24	12/02/24	CKN

Analysis Results for 520379

Sample ID: N069924-006A / MW-39-050-Q424	Lab ID: 520379-006 Matrix: Water	Collected: 11/12/24 11:19
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520379-006 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	3.7		mg/L	1.0	1	356818	12/02/24	12/02/24	CKN

Sample ID: N069924-007A / MW-39-060-Q424	Lab ID: 520379-007 Matrix: Water	Collected: 11/12/24 10:34
--	---	----------------------------------

520379-007 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	2.3		mg/L	1.0	1	356818	12/02/24	12/03/24	DXA

Sample ID: N069924-008A / MW-39-070-Q424	Lab ID: 520379-008 Matrix: Water	Collected: 11/12/24 13:48
--	---	----------------------------------

520379-008 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	2.5		mg/L	1.0	1	356818	12/02/24	12/02/24	CKN

Sample ID: N069924-009A / MW-39-080-Q424	Lab ID: 520379-009 Matrix: Water	Collected: 11/12/24 12:06
--	---	----------------------------------

520379-009 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	4.3		mg/L	1.0	1	356818	12/02/24	12/02/24	CKN

Sample ID: N069924-010A / MW-39-100-Q424	Lab ID: 520379-010 Matrix: Water	Collected: 11/12/24 09:21
--	---	----------------------------------

520379-010 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	4.3		mg/L	1.0	1	356818	12/02/24	12/03/24	CKN

Sample ID: N069924-011A / MW-917-Q424	Lab ID: 520379-011 Matrix: Water	Collected: 11/12/24 09:31
---	---	----------------------------------

520379-011 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	4.1		mg/L	1.0	1	356818	12/02/24	12/03/24	CKN

Analysis Results for 520379

Sample ID: N069924-012A / TW-02D-Q424	Lab ID: 520379-012 Matrix: Water	Collected: 11/12/24 09:55
---	---	----------------------------------

520379-012 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	1.6		mg/L	1.0	1	356818	12/02/24	12/03/24	CKN

Sample ID: N069924-013A / TW-02S-Q424	Lab ID: 520379-013 Matrix: Water	Collected: 11/12/24 09:20
---	---	----------------------------------

520379-013 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	1.8		mg/L	1.0	1	356818	12/02/24	12/03/24	CKN

Sample ID: N069924-014A / TW-03D-Q424	Lab ID: 520379-014 Matrix: Water	Collected: 11/12/24 10:28
---	---	----------------------------------

520379-014 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	2.0		mg/L	1.0	1	356818	12/02/24	12/03/24	CKN

Sample ID: N069924-015A / MW-82-046-Q424	Lab ID: 520379-015 Matrix: Water	Collected: 11/12/24 11:28
--	---	----------------------------------

520379-015 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	22		mg/L	1.0	1	356818	12/02/24	12/03/24	CKN

Sample ID: N069924-016A / MW-82-112-Q424	Lab ID: 520379-016 Matrix: Water	Collected: 11/12/24 11:59
--	---	----------------------------------

520379-016 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	ND		mg/L	1.0	1	356818	12/02/24	12/03/24	CKN

Sample ID: N069924-017A / MW-82-168-Q424	Lab ID: 520379-017 Matrix: Water	Collected: 11/12/24 12:35
--	---	----------------------------------

520379-017 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	2.0		mg/L	1.0	1	356818	12/02/24	12/03/24	CKN

Analysis Results for 520379

Sample ID: N069924-018A / MW-82-198-Q424	Lab ID: 520379-018 Matrix: Water	Collected: 11/12/24 13:09
--	---	----------------------------------

520379-018 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	1.6		mg/L	1.0	1	356818	12/02/24	12/03/24	CKN

Sample ID: N069924-019A / MW-46-175-Q424	Lab ID: 520379-019 Matrix: Water	Collected: 11/12/24 14:02
--	---	----------------------------------

520379-019 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	ND		mg/L	1.0	1	356818	12/02/24	12/03/24	CKN

Sample ID: N069924-020A / MW-44-070-Q424	Lab ID: 520379-020 Matrix: Water	Collected: 11/12/24 12:35
--	---	----------------------------------

520379-020 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	2.6		mg/L	1.0	1	356818	12/02/24	12/03/24	CKN

Sample ID: N069924-021A / MW-44-115-Q424	Lab ID: 520379-021 Matrix: Water	Collected: 11/12/24 11:20
--	---	----------------------------------

520379-021 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	1.4		mg/L	1.0	1	355688	11/16/24	11/17/24	EPL

Sample ID: N069924-022A / MW-918-Q424	Lab ID: 520379-022 Matrix: Water	Collected: 11/12/24 11:30
---	---	----------------------------------

520379-022 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	1.6		mg/L	1.0	1	355688	11/16/24	11/17/24	EPL

Sample ID: N069924-023A / MW-44-125-Q424	Lab ID: 520379-023 Matrix: Water	Collected: 11/12/24 23:58
--	---	----------------------------------

520379-023 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B Prep Method: SM 5310B									
Total Organic Carbon	1.4		mg/L	1.0	1	355688	11/16/24	11/17/24	EPL

Analysis Results for 520379

Sample ID: N069924-024A / MW-45-095A-Q424	Lab ID: 520379-024 Matrix: Water	Collected: 11/12/24 13:20
---	---	----------------------------------

520379-024 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SM 5310B									
Prep Method: SM 5310B									
Total Organic Carbon	3.2		mg/L	1.0	1	355688	11/16/24	11/17/24	EPL

ND Not Detected

Batch QC

Type: Blank	Lab ID: QC1204802	Batch: 355688
Matrix: Water	Method: SM 5310B	Prep Method: SM 5310B

QC1204802 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Total Organic Carbon	ND		mg/L	1.0	11/16/24	11/17/24

Type: Lab Control Sample	Lab ID: QC1204803	Batch: 355688
Matrix: Water	Method: SM 5310B	Prep Method: SM 5310B

QC1204803 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Organic Carbon	24.11	25.00	mg/L	96%		80-120

Type: Matrix Spike	Lab ID: QC1204804	Batch: 355688
Matrix (Source ID): Water (520385-008)	Method: SM 5310B	Prep Method: SM 5310B

QC1204804 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Total Organic Carbon	28.84	2.983	25.00	mg/L	103%		80-120	1

Type: Matrix Spike Duplicate	Lab ID: QC1204805	Batch: 355688
Matrix (Source ID): Water (520385-008)	Method: SM 5310B	Prep Method: SM 5310B

QC1204805 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Total Organic Carbon	28.41	2.983	25.00	mg/L	102%		80-120	2	20	1

Type: Blank	Lab ID: QC1208800	Batch: 356818
Matrix: Water	Method: SM 5310B	Prep Method: SM 5310B

QC1208800 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Total Organic Carbon	ND		mg/L	1.0	12/02/24	12/02/24

Type: Lab Control Sample	Lab ID: QC1208801	Batch: 356818
Matrix: Water	Method: SM 5310B	Prep Method: SM 5310B

QC1208801 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Organic Carbon	25.86	25.00	mg/L	103%		80-120

Type: Matrix Spike	Lab ID: QC1208802	Batch: 356818
Matrix (Source ID): Water (520379-003)	Method: SM 5310B	Prep Method: SM 5310B

QC1208802 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Total Organic Carbon	32.43	3.017	25.00	mg/L	118%		80-120	1

Batch QC

Type: Matrix Spike Duplicate	Lab ID: QC1208803	Batch: 356818
Matrix (Source ID): Water (520379-003)	Method: SM 5310B	Prep Method: SM 5310B

QC1208803 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Total Organic Carbon	32.18	3.017	25.00	mg/L	117%		80-120	1	20	1

Type: Matrix Spike	Lab ID: QC1208804	Batch: 356818
Matrix (Source ID): Water (520379-009)	Method: SM 5310B	Prep Method: SM 5310B

QC1208804 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Total Organic Carbon	34.32	4.292	25.00	mg/L	120%		80-120			1

Type: Matrix Spike Duplicate	Lab ID: QC1208805	Batch: 356818
Matrix (Source ID): Water (520379-009)	Method: SM 5310B	Prep Method: SM 5310B

QC1208805 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Total Organic Carbon	34.41	4.292	25.00	mg/L	120%		80-120	0	20	1

ND Not Detected